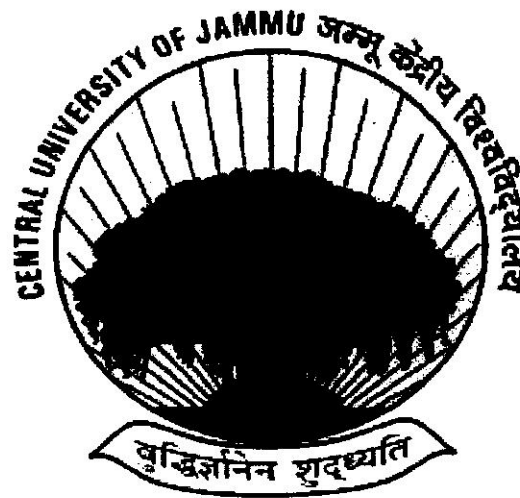


*Central
Teaching*



AGENDA

**6TH MEETING OF THE ACADEMIC COUNCIL
8TH NOVEMBER, 2015, 11:30 A.M.**

CENTRAL UNIVERSITY OF JAMMU

CENTRAL UNIVERSITY OF JAMMU

06th Meeting of the Academic Council
November 5th, 2015 at 11:30 AM

I N D E X

Item No.	Title	Page No.	Annexure	Annexure Page No.
01.	To peruse report of the Vice Chancellor about the developmental activities in the University since the last meeting of the Academic Council held on 22 nd December, 2014.	1 – 41	–	--
02.	To consider confirmation of minutes of the 5 th meeting of the Academic Council held on 22 nd December, 2014.	42	–	--
03.	To consider the "Action Taken Report" in pursuance of the decisions taken in the Academic Council meeting held on 22 nd December, 2014.	43 – 50	–	--
04.	To confirm the action taken by the Vice Chancellor in anticipation of the approval of the competent authority in having kept at abeyance some of the Courses approved by the Academic Council vide its 5 th meeting, dated: 22 nd December, 2014.	51 – 53	–	--
05.	To confirm action taken by the Vice-Chancellor in having authorized adaption of the syllabi & courses of study of Master's Degree Programmes in anticipation of approval of the Competent Authority.	54 – 55	Annexure – I Annexure – II Annexure – III Annexure – IV Annexure – V Annexure – VI Annexure – VII Annexure – VIII Annexure – IX Annexure – X Annexure – XI Annexure – XII Annexure – XIII Annexure – XIV Annexure – XV Annexure – XVI	1 – 2 3 – 26 27 – 89 90 – 112 113 – 163 167 163 - 172 173 – 213 214 – 225 224 – 235 239 240 – 248 249 – 260 261 – 283 284 – 296 297 – 305

Item No.	Title	Page No.	Annexure	Annexure Page No.
06.	To confirm action taken by the Vice-Chancellor in having authorized adoption of the syllabi & courses of study of Integrated M.Phil - Ph.D. Programme in National Security Studies, Semester-I for the Academic Session 2015-16, in anticipation of approval of the Competent Authority.	56	XVII	306 - 314
07.	To confirm action taken by the Vice-Chancellor, in anticipation of approval of the Competent Authority, in having authorized the declaration of results of M.Phil Scholars for award of M.Phil degree.	57 - 60	-	-
08.	To confirm action taken by the Vice-Chancellor, in anticipation of approval of the Competent Authority, in authorising enhancement of the remuneration rates for paper setters/external viva-voce examiners w.e.f. the Academic Session 2015-16.	61 - 62	XVIII	315
09.	To confirm action taken by the Vice-Chancellor in anticipation of the approval of the competent authority in having authorised establishment of Department of Hindi & other Indian Languages from the Academic Session 2015-16.	63	XIX	316 - 322
10.	To confirm action taken by the Vice-Chancellor in authorising starting of new Programmes in B. Vocational (Tourism Management) and B. Vocational (Retail Management) w.e.f. Academic Session 2015-16.	64	-	-
11.	To consider approving rates for External Examiners for evaluating the answer scripts of various Post Graduate courses for end semester examinations.	65	-	-
12.	To consider and recommend to the Executive Council, the panels of Experts for nomination on the Selection Committees for the teaching posts.	66	-	-
13.	To confirm action taken by the Vice-Chancellor in having authorized adoption of Choice Based Credit System (CBCS) as per UGC Guidelines.	67 - 68	XX	323 - 338

Item No. 01

To peruse report of the Vice Chancellor about the developmental activities in the University since the last meeting of the Academic Council held on 22nd December, 2014.

Administrative wing of the University has been completely shifted to the Campus at Rahya-Suchani (Bagla), District Samba, Jammu w.e.f. 30th January, 2015. All the administrative activities are now carried out from the main Campus.

During the period under report, the emphasis has been on strengthening the existing Post-Graduate programmes besides, starting of new academic programmes, fulfillment of admission processes and recruitment of faculty and non-teaching staff.

1.1 Appointment of the Vice Chancellor

Professor Ashok Aima took over as the Vice Chancellor of the Central University of Jammu, Jammu (J&K) w.e.f. 17th April, 2015 (F/N), in pursuance of MHRD letter No. 52-4/2014-CU.III, dated 17th April, 2015.

1.2 Admissions

The process of admission was accelerated and innovative processes were adopted. When the Vice-Chancellor took over, the process followed for admission was reviewed & it was decided to make wider publicity for admission to Post-graduate programmes & M.Phil-Ph.D interegrated courses. It was decided to use all means of communications like Print & electronic media, Bulk SMS to one lac people, mails, TV channels, FM Radio, hoardings were erected at prominent places etc It resulted into increase in number of candidates desirous of seeking admissions in 12 programmes. In academic session 2014-2015, 2666 candidates

only applied for admission whereas 8775 applications were received in the academic session 2015-2016 from across the country for 12 post graduate programmes. The number of applications received for academic session 2015-16 has thus increased from 983 applications (received during the period 5th April, 2015 to 19th April to 8775 applications till 5th May, 2015. Thus the response registered increased manifold.

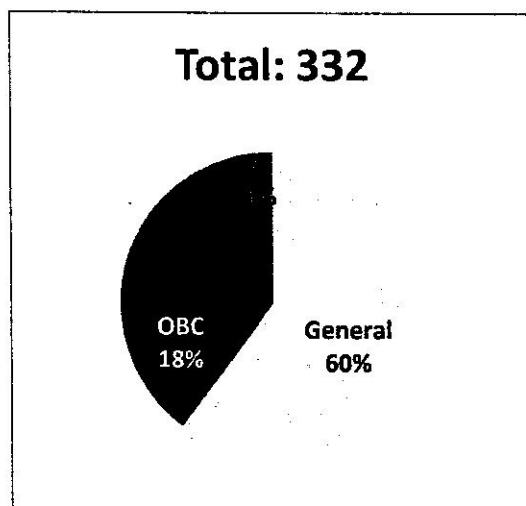
Admission process for the Academic Session 2015-16 for Post-Graduate and Integrated M.Phil.-Ph.D. programmes was completed by the respective Schools during the period under report. In 12 Master Degree Programmes, admissions were completed within two days through counselling by making use of centralized software. The banking and internet services were also made available under one roof. Likewise admission to Masters Degree Programme in Hindi and B.Voc was also completed. Out of total of 390 seats (30 seats in each Post-Graduate Programme), 332 students have been admitted in PG Programmes while 29 students were admitted in various Integrated M.Phil.-Ph.D. Programme, as shown below:

Details of students admitted in 2015-16:

Sl. No.	Disciplines	Students admitted	
		Post Graduate Programme	Integrated M.Phil.-Ph.D Programme
1.	Computer Science and Information Technology	31	—
2.	Economics	30	05
3.	Educational Studies	30	03
4.	English	30	05
5.	Environmental Sciences	30	—
6.	Human Resource Management & OB	32	03
7.	Mathematics	30	01
8.	Tourism and Travel Management	31	04

8.	Public Policy and Public Administration	24	04
10.	National Security Studies	11	04
11.	Sociology and Social Work	15	–
12.	Mass Communication and New Media	26	–
13.	Hindi	12	–
Total:-		332	29
14.	B.Voc. (Retail Management)	04	
15.	B.Voc. (Tourism Management)	12	
Grand Total : 377 (332+29+16)			

Category	No. of Students	%age
General	200	60
OBC	60	18
SC	54	16
Total	332	100%



After issuing several admission notices for filling up seats in reserved category, some seats remained vacant due to non-availability of applicants belonging to SC category. Consequently some of the vacant seats were transferred to general category and the same has been communicated to Commission for Schedule Caste, Govt. of India, New Delhi vide letter no. CUJ/CUCET/2015/4677 dated 23rd September, 2015.

1.3 Examinations and Results

The Examinations for 1st and 3rd Semesters pertaining to Academic Session 2014-15 were held in December, 2014, the results of which were declared in March-April, 2015. The pass percentage in Semester 1st was 77% and in 3rd Semester it was 86.95%.

The Examinations for 2nd and 4th Semesters pertaining to Academic Session 2014-15 were held in May, 2015, the result of which were declared in July-August, 2015. The pass percentage in Semester 2nd was 96% and in 4th Semester was 99.14%.

1.4 Students Hostels

The University has created hostel facilities for boys and girls in separate hired private buildings. The number of the students residing in these hostels is as under:

- Total Residents : 141
- Boys Hostel : 55 Students/Scholars
- Girls Hostel : 86 Students/Scholars

1.5 Central Library

The Central Library was established in the year 2011 and is highly digitalized. Now it caters to the needs of thirteen departments of the University.

A. Resource Update

- Number of Books: 11,644
- Theses and Dissertations: 400
- E-Journals: 6,014
- Print Journals: 50+

B. Services to Users

(i) E – Resources facility

The Central Library subscribes to the e-resources through UGC-INFONET digital Library Consortium. The faculty, research scholars and students have access to the resources from publishers like Wiley, Springer, Taylor & Francis, JSTOR and Economic and Political Weekly. The following e-journals and e-data bases access is active in the library.

(ii) Full Text E-Journals

S.No.	Publisher	URL	No. of Titles
1	Economic and Political Weekly	http://www.epw.in	1
2	JSTOR	http://www.jstor.org	2585
3	Wiley-Blackwell	http://onlinelibrary.wiley.org	909
4	Taylor and Francis	http://www.tandfonline.com	1080
5	Springer Link	http://link.springer.com	1439

(iii) Full-Text Databases

S.No.	Publisher	URL
1	ISID(The Institute for Studies in Industrial Development)	http://isid.org.in <u>Description:-</u> ISID has developed databases on various aspects of the Indian economy, particularly concerning industry and the corporate sector. It has created On-line Indexes of Indian Social Science Journals (OLI) and Press Clippings on diverse social science subjects. These have been widely acclaimed as valuable sources of information for researchers studying India's socio-economic development.
2	JCCC (J-Gate @ UGC-Infonet)	http://igateplus.com <u>Description:-</u> Gate is an electronic gateway to global e-journal literature. Launched in 2001 by Informatics India Limited, J-Gate provides seamless access to millions of journal articles available online offered by 12,803 Publishers. It presently has a massive database of journal literature, indexed from 43,033 e-journals, with links to full text at publisher sites. J-Gate also plans to support online subscription to journals, electronic document delivery, archiving and other related services.

		<p>a. Table of Contents (TOC)- For 43,033 e-journals.</p> <p>b. Database - A comprehensive searchable database with 44,492,003 articles with 10,000+ articles added every day.</p>
3	<u>MathSciNet</u>	<p>http://www.ams.org/mathscinet</p> <p><u>Description:-</u> MathSciNet is an electronic publication offering access to a carefully maintained and easily searchable database of reviews, abstracts and bibliographic information for much of the mathematical sciences literature. Over 100,000 new items are added each year, most of them classified according to the <u>Mathematics Subject Classification</u>.</p>

C. Computer Lab

The Central Library has a computer lab with Wi-Fi facilities for research scholars and students with 18 no. of Computers. The students access the e-resources for their research in the lab.

D. Reprographic Services

The Central Library provides photocopy service to users at nominal rate.

E. Reference Service

The Central Library provides the directional assistance in locating the books and other reading materials in the library.

F. Library Automation

The Central Library is fully automated with open source library automation software KOHA. All the records pertaining to books and users are uploaded in it. The library management software covers acquisition, cataloguing, circulation and OPAC. The OPAC (Online Public Access Catalog) facilitates in searching of books by Accession number, title, author and keyword.

G. Membership

The Central Library is likely to become member of DELNET (Developing Library Network) New Delhi. The membership will help the faculty, research scholars and students to locate the books through the union catalogue of

books created by the network as it has developed the network of libraries across the country which would help in smooth inter-library loan activities.

1.6 Information and Communications Technology (ICT) Facility

A. Internet and Computing Facilities

- i) Internet Facilities
 - (a) NKN connectivity of 1 Gbps is available 24 hrs
 - (b) Campus is Wi-Fi enabled
 - (c) LAN connections are also provided

B. CYBERROAM

UTM device CYBERROAM has been installed to provide authorized and secure internet access.

C. Routers & Switches & Wi-Fi Access Points

One router, ten L2 switches and more than 15 Wi-Fi access points are installed to provide quick and smooth internet access at various locations across the campus.

D. Centralized Computing Facilities

- i) Two Centralized Computer Labs with about 70 computers are in place for students and staff at TAB.
- ii) A Centralized Computer Lab with about 50 computers are in place for students and staff at Campus.
- iii) These systems are windows and LINUX based and are equipped with software like MS-Office, MATLAB, SPSS, antivirus etc.

E. Class Room-cum-Lab Facility for Students of Department of Computer Science & IT

- i) Two Classrooms-cum-Labs have been setup for students of Integrated M.Sc. (Computer Science) – MCA students having 52 computers.

- ii) These Class rooms-cum-Labs are fitted with projector and are equipped with latest softwares like MS-Office, Visual Studio etc. to perform practicals & trainings.

F. File Tracking System

The University administration has started functioning with file tracking system in its offices and the process for e-office is under progress.

1.7 Faculty Positions

The faculty position in the University, i.e. Professors, Associate Professors and Assistant Professors, including those on deputation or contract is as under:

A. Gender wise and category wise details:-

Post	Male	Female	ST	SC	OBC	PWD
Professor	07	02	–	1*	–	1*
Associate Professor	–	02	1*	3*	–	1*
Assistant Professor	41	23	02 01*	06 01*	12 02*	01 (SC)
Total:	48	27	02	06	12	01 (SC)

*The posts have been advertised vide Employment Notice No. 08 dt. 05.06.2015, Employment Notice No.10 dt. 16.07.2015 and and Employment Notice No.12 dt. 22.09.2015.

B. State wise Faculty Representations:-

S. No.	Category	Professor	Associate Professor	Assistant Professor	Total
1.	Andhra Pradesh	–	–	02	02
2.	Assam	–	–	02	02
3.	Bihar	–	–	04	04
4.	Haryana	–	–	03	03
5.	Himachal Pradesh	–	–	07	07
6.	Jharkhand	–	–	01	01
7.	Jammu & Kashmir	07	02	27	35

8.	Karnataka	01	–	–	01
9.	Manipur	–	–	01	01
10.	Orissa	–	–	01	01
11.	Punjab	--	-	03	03
12.	Rajasthan	–	-	01	01
13.	Tamil Nadu	–	–	02	02
14.	Uttar Pradesh	–	–	09	09
15.	West Bengal	01	–	–	01
16.	Delhi	–	–	01	01
	Sub Total	09	02	64	75

1.8 Meetings of Authorities of the University

A. Court

- i) 3rd Meeting of the Court was held on 15th June, 2015, chaired by Shri N.N. Vohra, Governor, J & K State (Chancellor, Central University of Jammu) at the main Campus.

B. Academic Council

- i) 5th Meeting of the Academic Council was held on 22nd December, 2014, at 8/8, Trikuta Nagar, Jammu.

C. Finance Committee

- i) 8th Meeting of the Finance Committee was held on 29th June, 2015 at India International Centre, New Delhi.

1.9 Meetings of School Boards

- Meeting of the School Board of the School of Languages was held on 20th January, 2015.
- Meeting of the School Board of the School of Languages was held on 10th February, 2015.

- Meeting of the School Board of the School of Business Studies was held on 20th-21st February, 2015.
- Meeting of the School Board of the School of Knowledge Management, Information and Media Studies was held on 2nd May, 2015.
- Meeting of the School Board of the School of National Security Studies was held on 11th May, 2015.
- Meeting of the School Board of the School of Educational Studies was held on 13th July, 2015.

1.10 Boards of Studies

- Meeting of the Board of Studies of the Department of Economics was held on 17th December, 2014.
- Meeting of the Board of Studies of the Department of Human Resource Management & Organizational Behaviour was held on 27th January, 2015.
- Meeting of the Board of Studies of the Department of Mathematics was held on 6th February, 2015.
- Meeting of the Board of Studies of the Department of Tourism and Travel Management was held on 20th and 21st February, 2015.
- Meeting of the Board of Studies of the Department of Sociology and Social Work was held on 24th April, 2015.
- Meeting of the Board of Studies of the Department of Mass Communication & New Media was held on 2nd May, 2015.
- Meeting of the Board of Studies of the Department of Environmental Sciences was held on 8th May, 2015
- Meeting of the Board of Studies of the Department of Public Policy and Public Administration was held on 9th May, 2015.

- Meeting of the Board of Studies of the Department of National Security Studies was held on 9th May, 2015.
- Meeting of the Board of Studies of the Department of Tourism and Travel Management was held on 20th May, 2015.
- Meeting of the Board of Studies of the Department of Human Resource Management and OB was held on 28th May, 2015.
- Meeting of the Board of Studies of the Department of Computer Sciences and IT was held on 9th July, 2015.
- Meeting of the Board of Studies of the Department of Education was held on 13th July, 2015.
- Meeting of the Board of Studies of the Department of Mathematics was held on 31st July, 2015.
- Meeting of the Board of Studies of the Department of Economics was held on 01st August, 2015.
- Meeting of the Board of Studies of the Department of Public Policy and Public Administration was held on 01st October, 2015.
- Meeting of the Board of Studies of the Department of Mass Communication and New Media was held on 16th October, 2015.

1.11 Important Meetings

- On 27th – 28th November, 2014, the I/c Vice Chancellor, Central University of Jammu attended the Assessors Interaction Meeting (AIM) organized by NAAC, at Bangalore.
- On 7th and 8th January and 15th May, 2015, the Registrar and the OSD (Finance) of the Central University of Jammu, attended a meeting convened by the UGC at New Delhi.

- On 13th January, 2015, the Registrar and the Dy. Registrar (Estates) of the Central University of Jammu, attended a meeting convened by the UGC, New Delhi.
- On 4th–5th February, 2015, the I/c Vice-Chancellor attended a Conference of the Vice-Chancellors of Central Universities at Rashtrapati Bhawan, New Delhi, chaired by the Hon'ble President of India.
- On 3rd June, 2015, the Vice Chancellor, Central University of Jammu visited Srinagar and briefed the Hon'ble Governor about the 3rd meeting of the Court of the University, which was scheduled for 15th June, 2015.
- The Central University of Jammu held Advisory Committee meeting on 24 June, 2015 in which Dr. K. Radhakrishnan, former Chairman, Indian Space Research Organisation (ISRO) participated. Among others, who attended the meeting were Dr. N.K. Jain, Member American Chemical Society and former Director, Defence laboratory, Jodhpur; Prof. Alim H. Naqvi, Centre of Excellence Materials Science, Aligarh Muslim University; Prof. S.K. Shah, former Dean, Department of Geology, University of Jammu; Prof. P.N. Kotru, Department of Physics, University of Jammu; Prof. Rajnikant, Department of Physics, University of Jammu; Prof. S.K. Khosa, University of Jammu; and Prof. B.L. Kalsotra, Department of Chemistry, University of Jammu. Dr. K. Radhakrishnan appreciated the efforts of the CUJ for starting courses in the emerging area of science like, Space Science, Earth Sciences and Nanotechnology.
- The Vice Chancellor of the CUJ participated in the District Development Boards meeting for Districts Jammu and Samba which was held under the chairmanship of Janab Mufti Mohammed Sayeed, Hon'ble Chief

Minister, Jammu & Kashmir at Chief Minister's residence, Residency Road Jammu on 3rd July, 2015.

- The Vice Chancellor, Central University of Jammu participated in a Steering Committee meeting held on 06 July, 2015 at Delhi.
- On 07 July, 2015, the Vice Chancellor, CUJ participated in a review meeting taken by the Hon'ble HRM at Vigyan Bhavan, New Delhi.
- The Vice-Chancellor, Central University of Jammu went to Srinagar on 28 July, 2015 for a meeting with Syed Mohammed Altaf Bukhari, Hon'ble Minister for Public Works, Floriculture and Gardens & Parks, J&K Government on 29 July, 2015 and requested the Hon'ble Minister for widening of the Access Road from single lane to four laning from Jammu-Pathankot Highway (NH 44) from Rahya Morh to the University Campus in order to cope up with the future increased traffic with the upcoming of the CUJ Campus and providing of water and power supplies upto the periphery of the University. He also met Commissioner/Secretary to Government, Public Works Department J&K Government in this connection and requested to expedite the above issues as early as possible. The Union Ministry for Road & Transport has sanctioned Rs 103.25 crore for four-laning of road with a fly over from Rahya morh to University at Bagla. The amount is over & above the state budget but the proposal has to be routed through the State Govt (J&K).
- On 29 July, 2015, a condolence meeting was held at the Temporary Academic Block, Sainik Colony, Jammu to pay homage to the late Dr. A.P.J. Abdul Kalam, former President of India and a renowned Scientist and a great human being. The faculty members, officers, scholars,

students and non-teaching staff of the University paid rich tributes to Dr. A.P.J. Abdul Kalam and extended deepest condolences.

- On 29 July, 2015 the Vice Chancellor, CUJ attended Board of Studies meeting of Management Department, Islamic University of Science & Technology, Awantipora, Srinagar. Also delivered lectures in the Academic Staff College, Kashmir University to Principals participating in the All India Summer School.
- On 04 August, 2015, Prof. Ashok Aima, Vice Chancellor, Central University of Jammu gave live interview on Doordarshan channel regarding the role of Central University of Jammu as a Centre for Excellence, its future vision and promotion of higher education in the region.
- The Vice Chancellor, CUJ visited Jaipuria Institute of Management, Gaziabad from 07 August to 09 August, 2015 and also met Chairman, National Board of Accreditation.
- On 11 August, 2015, the Vice Chancellor, Central University of Jammu attended the Consultative Committee meeting convened by the Chairman, University Grants Commission for formulation of New Education Policy at Vigyan Bhawan, New Delhi.
- Prof. Ashok Aima, Vice Chancellor, CUJ was invited as Chief Guest on 12th of August, 2015, by the SSM College of Engineering and Technology Parihaspora, Srinagar on the occasion of observing 'Graduation Day' in its Campus to felicitate the students who completed their degrees in different streams.
- On 18 August, 2015, a meeting of Industry Interface Cell (IIC) was held with the participation of outside experts viz. President Bari Brahmna

Industries Association, President, Jammu Chambers of Commerce.
Various important decisions were taken.

- On 18 August, 2015, the Vice Chancellor gave interview to Door Darshan regarding challenges in higher education & employability of youth.
- Prof. Ashok Aima, Vice Chancellor, CUJ visited B.T. Chanaiah Gowramma Govt. First Grade College, Somwarpet, Yadoor, Hangal, Karnataka from 20 to 23 August, 2015 as Chairperson along with the other members of the Peer Team to assess the institution.
- On 24 August, 2015, the Vice Chancellor, CUJ attended the third meeting of the Australia-Indian Education Council (AIEC) at New Delhi. Prof. Ashok Aima, VC, CUJ has been nominated as member of the AIEC by the Minister for Human Resource Development, Govt. of India., Also attended the dinner hosted by the HRD Minister in honour of Mr. Christopher Pyne MP, Minister for Education and Training and the delegation from Australia.
- On 27 August, 2015, the TAKE-1 Channel, Jammu interviewed Prof. Ashok Aima, Vice Chancellor, CUJ on the role of Central University, creating excellence in higher education and entrepreneurship.
- Prof. Ashok Aima, Vice Chancellor, Central University of Jammu visited Dempo Charities Trust's Dhempe College of Arts & Science, Panaji, Goa between 03-05 September, 2015 as Chairperson of the Peer Team to assess the institution along with other members of the Peer Team.
- Prof. Ashok Aima, Vice Chancellor, Central University of Jammu visited Government College for Women, Narnaul, Distt. Mahendergarh,

Haryana, as Chairperson of the Peer Team nominated by the National Assessment and Accreditation Council (NAAC) along with its members from September 7th-9th, 2015. He also visited Sree Narayana College, Thiruvananthapuram (Kerala), as Chairperson of the Peer Team from 26th Sept. – 02nd October, 2015.

- On 28th October, 2015, a consultative joint meeting was conducted among the Officials/Deans/HoD's (representatives) of Central University of Jammu, Central University of Himachal Pradesh and Central University of Kashmir for various issues pertaining to successful implementation of the Memorandum of Understanding (MoU).

1.12 Workshops/Seminars/Lectures/Events organized:

- A 4-day workshop on “**Hindi Training**” was organised by the Central University of Jammu from 6th-9th December, 2014, for teaching and non-teaching employees.
- The Central University of Jammu observed 24th December, 2014 as “**Good Governance Day**” to commemorate the Birth Anniversary of Hon'ble former Prime Minister of India, Shri Atal Bihari Vajpayee.
- One day **data dissemination** workshop was held at Central University of Jammu in the first week of January, 2015.
- On 5th-6th January, 2015, a National Workshop on “**Accreditation Awareness and Institutional Ranking**” was organized by the Department of Human Resource Management and Organisational Behaviour at the Temporary Academic Block.
- On 16th January, 2015, an extension lecture was delivered by Prof. Ran Singh Dhaliwal, School of Management Studies, Punjabi University, Patiala, to MBA (HRM) 2nd Semester students, Department of Human Resource Management & OB.

- A one-day National Seminar on **“Translation: Translation Issues and Context”** was conducted by the Department of English on 21st January, 2015.
- The Department of National Security Studies, Central University of Jammu, organized a National Seminar in collaboration with IIPA, Jammu on February 02-03, 2015 on **“Floods in 2014: A lesson for Disaster Management for J & K”**.
- Department of Tourism and Travel Management organized **“National Tourism Entrepreneurship Development Summit (NTEDS-2015)”** on 20-21 February, 2015. This National level event was organized with the objective of creating the awareness about the entrepreneurial opportunities available for the students pursuing different tourism programmes in various universities and institutions across the country.
- On 20th February, 2015, the Department of Tourism and Travel Management, released issue of Newsletter **“Travelism”** Vol.1. This issue of Newsletter aims to serve as a forum for academics, researchers and students interested in exploring all issues of tourism, leisure and recreation.
- On 21st April, 2015, a one-day National Seminar on **“In Gender: Texts and Contexts”** was organized by SPARSH Committee (Sensitisation, Prevention and Redressal of Sexual Harassment Committee) in collaboration with the Department of English, Central University of Jammu. The Seminar deliberated upon the issues and contexts related to gender. These included the concept of gender as a discourse created through language that has been appropriated by society for centuries; feminine, sexism in language, stereotyping; LGBT Communities: gender and violence and related concerns.

- A 2-day National Seminar on **“Public Administration in India in Globalizing World: Convergence, Divergence and Transformation”** was organized by the Department of Public Policy and Public Administration on 07-08 May, 2015.
- A 10-day National Workshop on **“Research Methodology”** was organised by the Department of Human Resource Management & OB on 12th – 21st May, 2015.
- A 04 day workshop on Statistical Analysis using AMOS was organised by HRM & OB on 22-25 May, 2015.
- On 05th June, 2015, the Vice Chancellor was invited as Chief Guest on the valedictory function of two days meet of College Principals conducted by Academic Staff College, Guru Nanak Dev University, Amritsar.
- On 6th – 7th June, 2015, the Vice Chancellor and Academic Coordinator attended a workshop on **Choice Based Credit System** organized by Central University of Kashmir. The workshop was inaugurated by Governor of J&K State and presided over the Vice Chairman, UGC.
- Registrar, CUJ alongwith Assistant Registrar (Examinations) participated in a National Workshop on **Examination Reforms** from June 22-24, 2015 at Nashik, Maharashtra, organized by Yashwantrao Chavan Maharashtra Open University (YCMOU) in collaboration with Association of Indian Universities, New Delhi.
- On 30 July, 2015, Department of Human Resource Management & OB, Central University of Jammu organized Bombay Stock Exchange sponsored interactive session on **“Investment options in Contemporary Business Environment”** by Mr. Verun Gupta, Manager,

Bombay Stock Exchange in Temporary Academic Block, Sainik Colony, Jammu.

- On 06 August, 2015, the Central University of Jammu organized an Extension Lecture at the Temporary Academic Block, Sainik Colony, Jammu, Speaking on the occasion on the topic "**The Art of Reading**". Prof. Tej Nath Dhar, advised the scholars and students of the department to enrich their vocabulary and improving their writing skills. Prof. K.B. Razdan, who was special invitee on the occasion, stressed on the importance of words for attaining '**sublimity**'. The scholars and students of the Department of English & Comparative Literature actively participated in the question-answer session held after the lecture.
- On 21 August, 2015, the Registrar, Central University of Jammu along with Asstt. Registrar (Nodal Officer) attended a one day workshop organized by the University of Kashmir on '**AISHE**' at Srinagar.
- On 25 August, 2015, the Department of Tourism and Travel Management, Central University of Jammu conducted a workshop for establishing the "**Centre for Cultural Tourism, Heritage and Museum Management**". The valedictory function was also held on the same day.
- On 27 August, 2015, the Department of Mass Communication and New Media (MCNM), Central University of Jammu, organized a debate on the topic, "**Changing trends in Journalism**". The main motto of the debate was that the students should know about the trends that media has been following.
- As a part of lectures by eminent personalities, the Department of Tourism and Travel Management, Central University of Jammu, organized a lecture on 31 August, 2015. Mr. Ajay Prakash, President,

Indian Institute of Peace & Tourism (India Chapter), Mr. Kiran Yadav, Director, Indian Institute of Peace & Tourism (India Chapter) and Dr. B.R. Manjunath, Chairman, Indian Institute of Peace & Tourism (Educator Network Forum), delivered lectures on the topic **"Entrepreneurship and its Prospects in Tourism"** After the lecture the interactive session was held with the faculty and the students.

- On 02 September, 2015, the Central University of Jammu organized a lecture followed by power point presentation on the **Biodiversity Mapping and Documentation of the Campus area** which is spread over to more than 600 acres of land in Shivalik hills. The presentation was made by the noted Environmentalist of the State Dr. C.M. Seth, Chairperson WWF-India and Environment Advisor to the Central University. The biodiversity survey report revealed the rich biodiversity of the campus both in the form of species richness and species diversity in the Shivalik belt.
- On 11 September, 2015, Prof. Ashok Aima, Vice Chancellor, Central University of Jammu attended the Valedictory session of **57th Annual Conference of Indian Society of Labour Economics (ISLE)** as the Guest of Honour organized by Central University of Kashmir at Srinagar.
- On 15 September, 2015, the students of Department of MBA (HRM &OB), Central University of Jammu organized first of its kind entrepreneurial event at Temporary Academic Block, Sainik Colony, Jammu where students of 1st and 3rd Semesters had put up creative and innovative stalls sponsored by various local Business houses.

1.13 Eminent Lecture Series

- On 10th December, 2014, Sh. S.K. Jain, delivered a lecture on "**Stress Management**". The lecture was attended by students, faculty and staff of the University.
- On 19th January, 2015, Prof. S.S. Kukal, former Director, School of Agro Meteorology and Climate Change, Punjab Agriculture University, Ludhiana, delivered a lecture on the topic "**Climate Change in North India : Evidence, Impact and Management Strategies**".
- On 23rd January, 2015, Prof. Sudhir K. Sopory, Vice-Chancellor, Jawaharlal Nehru University, New Delhi, delivered a lecture on "**Food Security: Role of Biotechnology**".
- On 26th March, 2015, Professor (Dr.) Habil Christian Wagner, Senior Fellow, Stiftung Wissenschaft und Politik (SWP), Berlin, German Institute for International and Security Affairs, delivered a lecture on "**War and Peace in South Asia**".
- On 30th April, 2015, Prof. Sunita Singh Sengupta, Department of Management Studies, Delhi University, delivered a lecture on "**Indian Management as envisaged by Swami Vivekananda**".
- On 07 September, 2015, the Department of National Security Studies, Central University of Jammu organized the Eminent Lecture Series wherein Prof. Alka Acharya, Director, Institute of Chinese Studies (ICS), New Delhi was invited. She delivered a lecture on the topic "**The New NDA Regime and India-China Relations: Expectations and Possibilities.**"

1.14 Visit of Outside Experts

- Prof. Naval Kishore, IGNOU, and Prof. Kaleem Mohammad Khan, Aligarh Muslim University delivered lecture on Research Methodology on 3rd and 4th May, 2015 with research scholars of the Department of HRM & OB.
- The Vice Chancellor, University of Jammu, Prof. R.D. Sharma, visited the Campus of the Central University of Jammu at Rahya-Suchani (Bagla), Distt. Samba, on 21st April, 2015. He appreciated the ongoing developmental activities at the campus site.
- On 8th May, 2015, Er. Sushil Aima, Chief Engineer, Public Health Engineering (PHE) Department visited the Campus. A detailed meeting regarding dedicated water supply to the University was held with the Chief Engineer, PHE and his team of engineers, who were accompanying him.
- Hon'ble Union Minister for Development of North Eastern Region (Independent charge) and Minister of State, Prime Minister Office; Personnel; Public Grievances & Pensions; Department of Atomic Energy; and Department of Space, Dr. Jitendra Singh, accompanied by Hon'ble Minister for Industries & Commerce, J&K State, Shri Chander Prakash Ganga, visited the campus of the Central University of Jammu on 10th May, 2015 and interacted with the faculty and officers of the University. The Vice Chancellor, Central University of Jammu briefed him about the ongoing academic and developmental activities of the University. The Hon'ble Union Minister suggested that three distinct departments may be set up in the University, viz., Department of Space Technology; Department of Atomic Energy; and Department of Earth Sciences. The Union Minister also advised to invite people from various fields who could provide hands-on-experience to the students in their respective fields. He stressed upon immediate shifting of the Departments to the main Campus and make it academically functional. The Hon'ble Minister for Industries and Commerce,

J&K State, **Shri Chander Prakash Ganga**, assured the University for providing full support from the State. He emphasised that along with the academics, skill development of students was also important and his Ministry would be happy to organize such skill development training programmes on the campus.

- **Dr. Nirmal Singh**, Hon'ble Deputy Chief Minister, J&K State, visited CUJ Campus at Rahya-Suchani (Bagla) on June 12, 2015 and reviewed the progress of development activities. Hon'ble Minister was also informed about the new initiatives undertaken by the University.
- On 20th June, 2015, **Shri Naeem Akhtar**, Hon'ble Minister for School Education and Higher Education, J&K State, visited the CUJ Campus at Bagla and reviewed the developmental activities. He was briefed by the Vice-Chancellor about the ongoing academic activities & the new academic programmes being introduced in the University.
- On 25 June, 2015, Hon'ble Minister of Industries and Commerce, J & K State, **Shri Chander Parkash Ganga**, visited the upcoming Campus of Central University of Jammu once again. After a brief review meeting, he had a round of the entire Campus area along with the Vice Chancellor and other senior faculty members including the engineering wing staff. The Hon'ble Minister assured the CUJ that he would take up the issues of road connectivity, water scarcity and other immediate requirements of the University with the concerned Ministries of J&K State.
- Hon'ble Minister for Irrigation, Public Health & Engineering and Flood Control, Jammu & Kashmir Government, **Shri Sukhnandan Kumar** visited the Campus of Central University of Jammu on 17 July, 2015. The Vice Chancellor, CUJ briefed him about the ongoing construction activities on the Campus.

- On 26 May, 2015, Prof. (Dr.) Ram Shankar Katheria, Hon'ble Minister of State, Department of Higher Education, Govt. of India, New Delhi visited Jammu. He also visited the CUJ Campus at Bagla and was shown the progress of the construction work and the administrative set up at the Campus. Hon'ble Minister was requested to sanction one Kendriya Vidyalaya and one Human Resource Development Centre for the CUJ Campus. He assured the support from the Ministry.
- Prof. Amitab Mattoo, Advisor to Chief Minister, J&K and former Vice Chancellor, Jammu University (J&K) visited the CUJ Campus on 14 September, 2015. He had also held a meeting with Prof. Ashok Aima, Vice Chancellor and other senior officers of the University. The Vice Chancellor apprised him about the ongoing academic as well as administrative activities of the University. He also apprised him of the various difficulties being faced at the Campus site. While assuring all help, Prof. Amitab Mattoo, appreciated the efforts of the Vice Chancellor for introducing new vocational courses in CUJ.

1.15 Visit of School Children to the Campus Site

On 13th December, 2014, around 150 School Children from Naveen Shiksha Kendra High School, Channi Himmat, Jammu, being run by Sawera NGO, visited the Central University of Jammu Campus Site, Bagla, Dist. Samba. Students were taken around the Campus area and briefed about the development activities being undertaken by the University, in the first phase. Students were accompanied by Dr. Gurmeet Singh, President, Naveen Shiksha Kendra and Teaching Staff of the school. Students enjoyed the visit and were very joyful to see and experience the serene and beautiful environment of the University. Sh. Jit Singh, Registrar, Central

University of Jammu and Sh. V.K. Gupta, Campus Administrator, were also present during the visit and encouraged the students for higher studies.

1.16 Awards/Achievements

- Prof. Ashok Aima, Vice Chancellor, Central University of Jammu, was conferred with “**Life Time Achievement Award**” for Outstanding Academic Contribution in the field of Management and Higher Education by the Himachal Pradesh Commerce & Management Association on 27 June, 2015. The VC was invited as the Chief Guest in the National Conference on “**Make in India Need, Opportunities and Challenges**” at *Rajkiya Kanya Mahavidyalaya*, Shimla.

1.17 Memorandums of Understanding (MoUs) signed

- A tripartite Memorandum of Understanding (MoU) was entered into on 06th May, 2015 among the Central University of Jammu, Central University of Kashmir and Central University of Himachal Pradesh for P.G. Courses, i.e. MBA (Human Resource Management), MBA (Tourism and Travel Management), English, Applied Mathematics, Economics and Education. The purpose of the MoU was to promote co-operation in educational and research activities besides establishing a framework for programmes of exchange and collaboration in areas of mutual interest thereby facilitating transfer of credits.
- A Memorandum of Understanding (MoU) was signed between the Department of National Security Studies and Institute of Chinese Studies to work on common academic research agenda and exchange of scholars and students on 07th September, 2015.

1.18 UDAAN

- The University organized a Students' Talent Hunt Programme, "UDAAN: 2014-15", from 20th to 22nd January, 2015. The inaugural ceremony was held on 20th January, 2015 and valedictory programme followed, with the declaration of result and prize distribution to the students on 22nd January, 2015.
- The University organized Sports Meet on Shotput and Table Tennis on 10th - 12th February, 2015 under UDAAN and prize distribution function for UDAAN & Sports Meet 2015 was held on 8th May, 2015.

1.19 Mother Earth Day

- On 22 April, 2015, International Mother Earth Day, 2015 was celebrated in the Central University of Jammu in which Jenab Abul Majid Padder, Hon'ble Minister of State for Public Health Engineering, Irrigation & Flood Control, Animal Husbandry & Forest, was the Chief Guest during the function. Various other dignitaries were also invited on the occasion. Prof. Ashok Aima, Vice Chancellor, Central University of Jammu, presided over the function. On this occasion, a tree plantation programme was also organized in which the Hon'ble Minister also participated. The students of the Central University of Jammu played a skit on the theme.

1.20 International Yoga Day

On 21 June, 2015, the International Yoga Day was celebrated by the Central University of Jammu with the participation of teaching and non-teaching staff at Temporary Academic Block, Sanik Colony, Jammu. Scores of students also participated. The yoga was performed under the guidance of Dr. D.L. Chowdhary, former Director, Yoga Centre, University of Jammu (J&K). Speaking on the occasion, he said the ultimate aim of

yoga is to make balanced and useful life. The Vice Chancellor, Registrar and other officers and faculty also attended the function and participated in *yoga aasnas*. Those who were adjudged best in the *yoga aasnas* were given I, II and IIIrd prizes by the Vice Chancellor.

1.21 Induction Day

On 22 July, 2015, the Central University of Jammu organized Induction Day function to welcome the newly admitted students in the Post Graduate Programmes for the Academic Session 2015-16 at Temporary Academic Block, Sainik Colony, Jammu with the participation of teaching faculty, officers, students and the non-teaching staff of the University. The Vice Chancellor, Central University of Jammu presided over the function.

1.22 Hindi Pakhwara

On 14 September, 2015, the Central University of Jammu organized 15 days Hindi Pakhwara to encourage the use of the Hindi language in official work. In this Pakhwara, the CUJ invited Prof. Raj Kumar (Retd), Head, Hindi Department, Jammu University; Prof. P.N. Trisal, (Retd.), Jammu University; and Dr. Bharat Bhushan Sharma, Principal, Govt. Degree College, Thanamandi. Prof. Ashok Aima, VC, CUJ presided over the function. The Central University of Jammu also organized a two day National Seminar on the topic "*Hindi : Kal, Aaj aur Kal*" as part Hindi Pakhwara On 21 and 22 September. Experts from Jammu, Himachal Pradesh, Delhi, UP and Punjab Universities were the main resource persons in the seminar. On 24 September, 2015 a test for *Hindi Tippan and Prarupan* was organized for non-teaching staff and on 29 September, a valedictory function presided by the Registrar was held. In the valedictory function, cash prizes and certificates were given to the participants.

1.23 Swachh Bharat Abhiyan

Swachh Bharat programme was initiated on 1st October, 2015 at campus of the University. A cleaning drive was undertaken on this day. The Vice Chancellor, Registrar and faculty, students and other staff members participated in this drive.

1.24 Community Development

- **Under Unnat Bharat Abhiyan**

Unnat Bharat Abhiyan is an initiative launched by the Ministry of Human Resource Development, Government of India to uplift rural India. As per the guidelines the team has worked for the identification of Gram Panchayat for the Unnat Bharat Abhiyan.

- **Village Adoption Scheme**

As per the directions of the honorable Vice Chancellor, Central University of Jammu, a team comprising of six faculty members visited the villages for identifying the possibilities of village/school adoption near the vicinity of CUJ Main Campus, Bagla.

1. Village Suchani
2. Village Rahya
3. Village Baguna
4. Village Patti
5. Village Ranjhri

1.25 National Service Scheme (NSS) Unit

National Service Scheme (NSS) Unit has been set up in the University for carrying out community linkage and outreach activities.

1.26 Students Achievements

- 46 students qualified JRF/NET/SET across the Departments as shown below:-

Department	NET-JRF	NET	SET	Total
Educational Studies	09	12	02	23
TTM/HRM & OB	03	08	-	11
Economics	01	03	01	05
Environmental Sciences	01	01	01	03
English	-	02	01	03
Mathematics	-	01	-	01
Total	14	27	05	46

- The students of Central University of Jammu namely Mr. Bhavik Upal and Mr. Ankur brought laurels to the University after clinching regional runner up (Jammu) position at the Tata Crucible Business Quiz, which is one of the prestigious and well recognized business championship platforms of India. The event was held at the Campus of the Government College for Women, Parade, Jammu.
- Ms. Shaminder Preet Kour, IIIrd Semester student, Deptt. of Computer Sciences & IT visited MHRD and interacted with Hon'ble Minister of HRD at New Delhi and presented her ideas on education system on 16th September, 2015.

1.27 Cultural and Co-Curricular Activities/Functions Organised

- The prominent citizens of nearby area were invited to the main campus and interacted with them on issues relating to the community development programmes of the University. Besides the senior faculty members of the

University, prominent citizens, who participated in the interaction included General Goverdhan Singh Jamwal (Retired); Dr. Khajoor Singh, Sarpanch and other Social Workers on 25th February, 2015.

- The University extended its *Swachh Bharat Abhiyan* to village Rahya situated in the neighbourhood of the University Campus in which senior officers of the University and faculty members participated. A meeting was also held with the prominent local residents of the area on the same day and they were apprised of the various activities of the CUJ, including the involvement of local school children and villagers in the cleanliness drive by holding various functions and awareness programmes on 28th February, 2015.
- A meeting was held comprising the senior officers and faculty of the University and the prominent local residents of the village Rahya Suchani, including Sarpanch Dr. Khajoor Singh, Panches and other people of the area. They were informed about the various activities of the CUJ, including the involvement of local school children and villagers in the cleanliness drive and environmental issues by holding various functions and awareness programmes on 4th March, 2015.
- The faculty members of the University formally extended welcome to the newly appointed Vice Chancellor of the University, Prof. Ashok Aima in a felicitation ceremony. During the ceremony, Prof. Ashok Aima, in his address, revealed that each department of University can write a minor project for which it will get a grant of Rs. 10,000/- from the University and also announced a cash prize of Rs. 25,000/- to the research paper published in a Journal with highest impact factor.
- On 20 August, 2015, the Central University of Jammu organized induction of B. Voc. (Bachelors in Vocational Studies) programmes in Retail and

Tourism Management under the National Skill Qualification Framework (NSQF) of University Grants Commission.

- On 01 September, 2015, Prof. Ashok Aima, Vice Chancellor, Central University of Jammu presided over a screening of Shashi Tharoor organized at Oxford Union. The programme was conceived by Prof. Nandni Bhattacharya, Head of the Department of English and the event was attended by senior faculty members, scholars and students of the Deptt. of English.
- On 14 September, 2015 the Central University of Jammu organized an awareness programme on Sensitization Prevention and Redressal of Sexual Harassment for students, research scholars, faculty members and employees of the University.
- On 23 September, 2015, the Department of National Security Studies, Central University of Jammu organized "Shauryanjali" – Commemorating 1965 War event in collaboration with 26 Infantry Division, Jammu. Maj. Gen. Sanjiv Narayan, GoC, 26 Infantry Division was the Guest of Honour on the occasion. The event started with the inauguration of photo exhibition by Prof. Ashok Aima, Vice-Chancellor, Central University of Jammu. The exhibition was to honour the Heroes of the nation who had made supreme sacrifice during the Indo-Pak War of 1965 and also to foster spirit of adventure, team work and camaraderie. The keynote address was delivered by Major Gen. Sanjeev Narain, GoC, Tiger Division. Prof. Ashok Aima felicitated the 1965 war veterans present on the occasion with **momento** and they also shared their experiences with the students and civil society members. The documentary film based on the 1965 War was also screened for the audience at TAB.

1.28 Blood Donation Camp

On 28th October, 2015, the National Service Scheme (NSS) Unit at Central University of Jammu organised Voluntary Blood Donation Camp at temporary campus at Sainik Colony in collaboration with Govt. Medical College, Jammu. The function began with the key note address by Dr. Vijay Sawhney, Head of Blood Bank, Govt. Medical College, Jammu. He addressed the young minds of the university with his inspiring speech about the importance and the benefits of donating blood. He sensitized the volunteers about the need for voluntary donor attitude that can be nurtured at young age by the Universities/Institutes.

The event was presided over by Prof. Ashok Aima, Vice Chancellor Central University of Jammu who also donated blood. The mobile donation camp was inaugurated by Prof. H.K. Sharma, Director, NSS, New Delhi and received overwhelming response from the students community where the girls also participated in large numbers and more than 70 students donated blood.

1.29 Recruitment/Appointment/Engagement

- **Prof. Lokesh Kumar Verma** has been appointed as Professor on contract basis in the Department of Educational Studies w.e.f. 02.07.2015 for a period of one year (in terms of Resolution No. 06 of Executive Council, authorising the Vice Chancellor to appoint faculty, based on recommendations of 2/3 experts in its 4th Meeting dt. 29.06.2013).
- **Prof. Deepsheekha Kotwal** has been appointed as Professor on contract basis in the Department of English w.e.f. 27.07.2015 (F/N) for a period of six months (in terms of Resolution No. 06 of Executive Council, authorising

the Vice Chancellor to appoint faculty, based on recommendations of 2/3 experts in its 4th Meeting dt. 29.06.2013).

- **Shri Varun Abrol**, Assistant Professor (Contractual) in B.Voc (Retail Management); **Mr. Manjeet Singh**, Assistant Professor (Contractual) in B.Voc (Tourism Management); **Ms. Rohini Mahajan**, Assistant Professor (Contractual) in the Department of Computer Sciences and Information Technology; **Shri Bhat Iqbal Majeed**, Assistant Professor (Contractual) in the Department of Sociology and Social Work have been engaged for a period of six months through Walk-in-Interview.
- Extension was granted to Assistant Professor for a period of six months of **Dr. Sanjay Kumar**, Department of Mathematics, **Dr. Shahid Mushtaq**, Department of HRM & OB, **Mr. Rajesh Kumar**, Department of Economics, **Mr. Esarul Ayub**, Department of Economics, **Dr. Angelika Sharma**, Department of Environmental Sciences, **Dr. Kiran Kalra**, Department of English, **Dr. Namita Singh**, Department of Computer Science & IT, **Dr. Poonam Sharma**, Department of TTM, **Dr. Aman**, Department of Educational Studies, **Dr. Preeti Dubey**, Computer Science & IT and **Mr. Rakesh Sharma**, Department of TTM.

1.30 Establishment of Swami Vivekananda Chair

The University Grants Commission (UGC), New Delhi, has sanctioned Swami Vivekananda Chair to the Central University of Jammu in the Department of Public Policy and Public Administration. The Chair has been sanctioned in the area of "Governance and Ethics". The Chair comprises a post of Professor, Other secretarial assistance and contingency grant. A sum of Rs. 25 lakh has been sanctioned initially. The performance of Chair shall be reviewed after establishment of five years. The post has been advertised.

1.31 Establishment of Community College

The University has been granted a diploma programme in Beauty & Wellness for which the admissions have been made from the session 2015-2016. The University proposes to launch Diploma programmes in few other courses like Journalism & Environment Awareness for which proposals have been already submitted to UGC in first Phase-I. In the Phase-II, the University intends to run Diploma programmes in Banking & Insurance, Embroidery, Dress Designing & Tailoring, and Computer Hardware and Networking. In the Phase III, the university proposes to start Diploma in Stock Market & Trading Operations, Electrician and Diploma in Mobile Computing.

The proposed programmes shall have multiple exit options for students, as has been recommended in the guidelines. This will provide the students with an option to walk out from the programme for Certificate, Advanced Certificate, Diploma and Advanced Diploma programmes after accumulating required credits as envisaged in the scheme. The proposed programme is unique in the sense that 40% of the course is having general educational and rest 60% is skill based component. For skill based component, industry partners have been indentified and University has obtained LOI's from the industry partners like VLCC for Beauty and Wellness Course, HDFC Bank for Banking and Financial Services and Global Business Solutions, Mind Bridge Asia for soft skill training.

1.32 National Assessment and Accreditation (NAAC) Report

The University completed four years of its establishment in August, 2015 and attained eligibility for submission of Self Study Report (SSR) to National Assessment and Accreditation Council (NAAC)

The University has submitted SSR to NAAC for its assessment and accreditation in first cycle of assessment on November 3rd, 2015.

ONGOING PROJECTS:-

S.NO	TITLE OF THE PROJECT	HEAD BY	DEPARTMENT	AGENCY	AMOUNT
1.	UGC MAJOR PROJECT- INVESTIGATION OF MULTI-SCALE TEMPORAL VARIATION AND TREND IN MASS COMPOSITION AND SOURCES OF CARBON IN JAMMU, AN URBN LOCATION IN FOOTHILL REGION OF NORTH-WEST HIMALAYAS	DR. SHWETA YADAV	ENVIRONMENTAL SCIENCES	UGC	
2.	UGC PROJECT- START UP GRANT " CELLULATE ENZYMES PRODUCTION FROM LOCAL THERMPHILIC FUNGI BY USING AGRO INDUSTRIAL RESIDUES ON SUBSTRATE	DR. ANITA SINGH	ENVIRONMENTAL SCIENCES	UGC	

PROJECTS SUBMITTED UNDER DST/FIST/ICSSR & OTHERS

1	LIVING AND WORKING CONDITION OF ARTISAN OF REGISTRERED CRAFTS IN J & K	PROF. ASHOK AIMA	HRM & OB	MINISTRY OF TEXTILE	RS. 12 LAKH
2	FIST FUNDED PROJECT	PROF. S. D. SHARMA	MATHEMATICS	DST	RS. 82 LAKHS
3	FIST FUNDED PROJECT	PROF. H.S. SHEGAL		DST	RS. 278.46 CRORES
4	FIST FUNDED PROJECT	PROF. DEVANAND	COMPUTER SCIENCES & IT	DST	RS. 1.444 CRORES
5	ICSSR PROJECT: EVALUATE STUDY OF ROLE AND FUNCTION OF SCHOOL MANAGEMENT COMMITTEES AT ELEMENTARY SCHOOL LEVEL IN JAMMU DIVISION OF J & K	DR. PARMOD KUMAR	EDUCATIONAL STUDIES	ICSSR	9.38 LAKH
6.	ICSSR PROJECT: PSYCHO-SOCIAL ATTRIBUTES OF MIGRANT ADOLESCENCE STUDYING IN HIGH SCHOOLS OF JAMMU PROVINCE	PROF. LOKESH VERMA	EDUCATIONAL STUDIES	ICSSR	Rs. 22.78 LAKH

7.	TRACING THE DEVELOPMENT OF PRINT MEDIA IN J & K	DR. BACHHA BABU MS. ARCHANA KUMARI	MASS COMMUNICATION AND NEW MEDIA	CENTRAL UNIVERSITY OF JAMMU	Rs. 6 LAKH
8.	DESIGN AND DEVELOPMENT OF SCHEMES FOR TEMPLATE DATA SECURITY AND PRIVACY PROTECTION IN BIOMETRIC SYSTEMS	DR. ARVIND SELWAL	COMPUTER SCIENCE AND IT		RS. 3.2 LAKH
9.	PHYSICO - CHEMICAL CHARACTERIZATION OF DRINKING WATER AND GROUND WATER QUALITY IN DIFFERENT GEOLOGICAL FORMATION IN AND AROUND JAMMU PROVINCE	DR. PANKAJ MEHTA	ENVIRONMENTAL SCIENCES	UGC	
10.	SENSITIVITY OF MICROPHYSICS AND CUMULUS SCHEMES FOR WEATHER PREDICTION OVER NORTHERN INDIAN REGION	DR. DINESH KUMAR	ENVIRONMENTAL SCIENCES		
11.	SCOUTING ENTREPREUNERRIAL INTENTIONS OF POST GRADUATE STUDENTS VIS-À-VIS MAKE IN INDIA CAMPAING	DR. JAYA BHASIN	HRM AND OB	CENTRAL UNIVERSITY OF JAMMU	5 LAKHS
12.	UGC MAJOR PROJECT- WORK LIFE BALANCE OF ACADEMICIANS IN THE HIGHER EDUCATION : A CASE OF CENTRAL UNIVERSITIES OF NORTHERN INDIA.	DR. BHARTI GUPTA	TTM		
13.	UGC MAJOR PROJECT- EVALUATION OF HANDLOOM IN SECTOR OF J & k : STRATEGIES FOR REVIVAL, REFORM AND RESTRUCTURING	DR. JAYA BHASIN	HRM & OB		
14.	UGC MAJOR PROJECT- PROFILING COMMUNITY CAPCITY AND SOCIAL CAPITAL FOR PROMOTING RURAL TOURISM IN J & K	DR. NEELIKA ARORA	TTM		
15.	UGC MAJOR PROJECT- TECHNOLOGY AND CHANGING NATURE OF DISTRICT ADMINISTATION: A CASE STUDY OF PUNJAB, HIMACHAL PRADESH, JAMMU AND KASHMIR STATE	DR. GOVING INAKHIYA	PPPA		

1.33 Support from UGC and Others

- The University received Rs. 240.00 crore during the 12th Five Year Plan against the approved allocation of Rs. 388.50 crore. The year wise breakup is as follows:-

Financial Year 2012-13	-	Rs. 30.375 crore
Financial Year 2013-14	-	Rs. 75.00 crore
Financial Year 2014-15	-	Rs. 134.625 crore
Total:-		Rs. 240.000 crore

- The University has requested the Ministry of Road Transport, Highway and Shipping, Government of India vide letter dated September 12, 2015 and September 21, 2015 which has sanctioned onetime special grant of Rs. 103.25 crore for 4 laning of road and construction of flyover over the railway crossing.

1.34 Status of Land and Infrastructural Development of the University

[A] Status of Land and infrastructural Development of the University

The Central University of Jammu has now been in possession of entire land measuring 4880 Kanal 19 Marlas which stands handed over by the state Govt. The University was handed over the land in instalments and the last patch of land was taken over on 31st July, 2014. The breakup of the said allotted land is as under:

1.	State/ Forest Land	4254 Kanal 14 Marlas
2.	Evacuee's Property	41 Kanal 19 Marlas
3.	Private Land	584 Kanal 06 Marlas
	Total	4880 Kanal 19 Marlas

It is a matter of satisfaction that all the formalities associated with the transfer of land stands completed.

[B] Infrastructure Development Initiatives at the Campus Site Village Bagla, Samba.

The University had identified and decided to take up the construction of such buildings, which could be completed up to ending Dec, 2014, named it as sub-phase-I of Phase-I of the Campus development. The buildings identified to be taken up for construction as first priority are the Directorate of Distance Education and 60 quarters of Professors/Associate Professors/ Assistant Professors along with associated services and approach roads in order to make these buildings functional and habitable. With completion of the DDE building, the University has shifted the Administration along with Finance and Examination wing to the campus from Jan 2015. The university has notified to shift six teaching departments, out of which two departments have already shifted viz., EVS and Educational Studies & other four Departments shall shift by the end of December, 2015 or so. Though pace of construction has not matched with the University's requirement and planning, yet efforts are being made to get the immediately required buildings completed before the revised time period of March 2016.

The Executive Council, on recommendations of the Finance Committee, has approved the budget estimates of the phase-I and sub-phase-I of the development of the University Campus in its meeting held on 29th June, 2013 for an amount of Rs. 1187.91 Crores and Rs. 116.29 Crores respectively. Accordingly, EPIL (approved PMC) was conveyed the approval to initiate the tendering process. M/s EPIL has floated the tender for the work of sub-phase-I and the lowest bidders. M/s Nagarjun Construction Corporation Ltd (NCCL) was adjudged as the lowest bidder

for sub-phase-I. The University, after seeking justification from the PMC, approved the contract.

The work is in progress and every effort is being made to complete the sub-phase-I within the revised timeline. The University has identified and prioritized the construction of such buildings and infrastructure out of the phase-I in order to make the Campus functional within a short span of time in commensuration with the availability of the funds. Tender for the Road Network and Utilities, vital for shifting to the campus has also been approved for allotment at a cost of Rs. 264.98 Cr. in favour of a reputed construction agency namely M/s SEW Infra Ltd. Hyderabad. The works for the Internal & External Electrification of the campus and University Guest House have also been finalized and allotted to M/s Anil Kumar & Co. Ghazibad at a cost of Rs. 43.99 Crores and M/s Percept Builders, Jammu at a Cost of Rs. 4.76 Crores respectively.

Apart from providing land free of cost, State Govt. is required to provide basic infrastructural needs of Access Road, Water Supply, and Power Supply up to the periphery of the University. These vital issues have not been given requisite attention so far and without these no sustained development can be visualized. University had a regular follow-up with the State Govt. through Chief Secretary, Planning Commissioner and concerned administrative heads but the same has also not met with success. The issue was also brought to the notice of Dr. Jitendra Singh, Union Minister, MOS (Independent Charge), Development of North Eastern Region, PMO (Personnel) and Dr. Nirmal Singh, Dy.CM State Govt. and Sh. Chander Prakash Ganga, local MLA and Minister for Industries and Commerce, for their kind intervention with regard to the fast tracking of the said infrastructure for basic amenities. The State Government has recently released funds of three crores each to the line

departments of PDD and PHE for supply of electricity and water to the University. Recently the DDE building and 06 quarters have been inaugurated on 16th Oct, 2015 by the Hon'ble Chief Minister Jenab Mufti Mohammad Sayeed in the presence of Dr. Nirmal Singh, Dy.CM State Govt. and Sh. Chander Prakash Ganga, local MLA and Minister for Industries and Commerce and it is proposed to complete the remaining Quarters and Guest House by March, 2016.

Status of Construction Work

The construction work started in Central University of Jammu from the session 2012. The pace of construction from April, 2015 to ending October, 2015 has been reflected in the table shown on next page.

Status of Construction Works in the Campus of the Central University of Jammu at Bagla ending October 2015

(Rs. in Crores)

S.No	Name of Work	Name of agency	Estimated Cost	Achievement			
				Ending March 2015		Ending October 2015	
				Financial (Upto date)	Physical	Financial (Upto date)	Physical
1.	DDE Building 60 Staff Quarters, Gate Complex and STP (Sub Phase I)	M/s Nagarjuna Const. Company Ltd. (NCCL)	116.28	43.06	40%	65.00	55.90% (DDE building & 06 Prof. Qrtrs inaugurated)
2.	Road Network (10.3 Kms)	M/s Southern Engineering Works (M/s SEW Infrac)	264.98	19.08	12%	83.52	31.52%
3.	Guest House	Percept Builders	4.76	1.70	38%	2.00	42%
4.	External Electrification	Anil Kumar & Co.	43.98	-	10%	9.44	21.46%
5.	Other Developmental Works including Professional Fees	Water Supply & Agencies	30	14.71	-	19.18	-
6.	Mobilization Advance to PMC for Agencies	CPWD	-	24.73	-	1.90	Work allocated to CPWD as Deposit Contribution; (under process of tendering)
7.	2 No's 100 Bedded Hostel for OBC Boys and Girls each (Partially funded by Ministry of Social Justice and Empowerment) Est. Cost 17.55, UGC Share 14.85 and Funding by MSJEV 2.70)		17.55	-	-	-	
	Total		477.55	103.28		181.04*	

Note: * Achievement during last six months:

a) Financial Rs 78 Cr

b) Physical inauguration of DDE & 06 faculty residences

Item No. 02

To consider confirmation of minutes of the 5th meeting of the Academic Council held on 22nd December, 2014.

Minutes of meeting of the Academic Council held on 22nd December, 2014 have been circulated among the members of the Academic Council vide No. CUJ/Regr./AC-Meet/2014/204-224 dated 09.01.2015. No comments/observations have been received from the members. The minutes as circulated may be confirmed.

Item No. 03

To consider the "Action Taken Report" in pursuance of the decisions taken in the Academic Council meeting held on 22nd December, 2014.

Action taken Report in respect of minutes of the meeting of Academic Council meeting held on 22nd December, 2014 in the Committee Room, Administrative Block, Central University of Jammu, Trikuta Nagar, Jammu.

S. No.	Item	Resolved	Action Taken
1.	Considered the report of the Vice-Chancellor about the developments since the last Meeting of the Academic Council held on 30 th June, 2014.	<i>Resolved to adopt the report of the Vice-Chancellor regarding the development activities of the University since the last meeting of the Academic Council, held on 30th June, 2014 and in view of the aforementioned deliberations, the same be placed on record. The report is annexed as Annexure-I.</i>	The report placed on record.
2.	Considered confirmation of the Minutes of the 4 th meeting of the Academic Council held on 30 th June, 2014.	<i>Resolved that the Minutes of the 4rd Meeting of the Academic Council held on 30th June, 2014, as already circulated vide letter No. CUJ/Regr/AC-Meet/2014/2537-2556 dated 11.07.2014, be confirmed. The minutes are annexed as Annexure – II.</i>	The Minutes placed on record.
3.	Considered the "Action Taken Report" in pursuance of the decisions taken in the Academic Council meeting held on 30 th June, 2014.	<i>Resolved that the "Action Taken Report" in pursuance of the decisions of the 4th Meeting of the Academic Council held on 30th June, 2014, be recorded. The Action Taken Report is annexed as Annexure – III.</i>	The report placed on record.

4.	<p>Considered confirmation of the action taken by the Vice-Chancellor in having adopted Courses No. MAMT-311 and IMPMAT-105 in the Department of Mathematics in anticipation of approval of the Competent Authority.</p>	<p><i>Resolved to confirm the action taken by the Vice-Chancellor in having:</i></p> <p><i>i. authorised introduction of course no. – MAMT 311 titled “Differential Geometry” in the 3rd Semester of M.A./M.Sc. Applied Mathematics as an elective course from the Academic Session 2014-15, and approving the syllabi and course contents thereof; and</i></p> <p><i>ii. authorised introduction of course IMPMAT-105 titled “Differential Manifolds” in the 1st Semester of Integrated M.Phil.-Ph.D. Programme in Mathematics for the Academic Session 2014-15.</i></p> <p><i>The syllabi and course contents are annexed as Annexure-IV & V respectively.</i></p>	<p>Notification No. 4-2(Math)/CUJ/Acad./2015/2319-2346 dated 26.02.2015 has been issued.</p>
5.	<p>Considered confirmation of the action taken by the Vice Chancellor in having approved syllabus of Integrated M.Sc. Computer Science-MCA programme for III, IV, V, VI semesters in anticipation of approval of the Competent Authority.</p>	<p><i>Resolved to confirm the action taken by the Vice Chancellor in having approved syllabi and course contents of Integrated M.Sc. Computer Science-MCA programme for III, IV, V, VI semesters in anticipation of approval of the Competent Authority as per Annexure-VI, VII, VIII and IX respectively.</i></p>	<p>Notification No. 4-7/MCA/CUJ/Acad./2015/2264-2291 dated 26.02.2015 has been issued.</p>

6.	<p>Considered confirmation of the action taken by the Vice Chancellor, in anticipation of approval of the Competent Authority, in having authorized the modification in the title of Course No: IMPHRM-102, title: "Contemporary Issues in People Management", in place of title: "Contemporary Issues in Public Management" and its continuation for the Academic Session 2014-15.</p>	<p><i>Resolved that the action taken by Vice Chancellor, in anticipation of approval of the Competent Authority, in having authorized the modification in the title of Course No: IMPHRM-102, title: "Contemporary Issues in People Management", in place of title: "Contemporary Issues in Public Management" for the Academic Session 2013-14 and its continuation for the Academic Session 2014-15, be confirmed.</i></p> <p><i>Resolved further that the title of Course No. IMPHRM-102 shall be "Contemporary Issues in Public Management" for future and the Department will draw the syllabi and course contents accordingly.</i></p>	<p>Notification No. 4-5/HRM/CUJ/Acad./2015/2292-2318 dated 26.02.2015 has been issued.</p> <p>Letter No. CUJ/Acad./20152348 dated 26.02.2015 has been sent to the Head, HRM & OB.</p>
7.	<p>Considered action taken by the Vice Chancellor in having authorized fee and other charges payable by the students of the University, in anticipation of approval of the Competent Authority and further to prescribe fee for re-registration for Ph.D. programme.</p>	<p><i>Resolved to confirm the action taken by the Vice Chancellor, in anticipation of approval of the Competent Authority, in having prescribed:</i></p> <p><i>i. the fee for re-registration of a student of Master Degree Programme who fails short of attendance or who has not completed the course as per Ordinance No. 4; as per Annexure-X; and</i></p>	<p>To be placed before the Executive Council in its forthcoming meeting.</p>

		<p>ii. <i>the fee for re-registration of a student of Integrated M.Phil.-Ph.D. Programme for completion of M.Phil. thesis in case he/she fails to submit the thesis within the prescribed time under Ordinance No. 6 as per Annexure-XI;</i></p> <p><i>and to recommend the same to the Executive Council for approval.</i></p> <p><i>Resolved further that the fee payable by a Ph.D. candidate for re-registration if his/her thesis is rejected by the majority of external examiners be recommended to the Executive Council for approval as per Annexure-XII.</i></p>	
8.	<p>Considered starting of new Schools and Departments of Studies in the Central University of Jammu from the Academic Session 2015-16 and 2016-17.</p>	<p><i>After detailed deliberations, Resolved to recommend to the Executive Council the starting of new Schools as follows:</i></p> <p><u>Academic Session 2015-16</u></p> <ul style="list-style-type: none"> • School of Law <p><u>Academic Session 2016-17</u></p> <ul style="list-style-type: none"> • School of Visual and Performing Arts <p><i>Resolved further to approve and recommend to the Executive Council the starting of new Departments as follows:</i></p> <p><u>Academic Session 2015-16</u></p>	<p>The item was deferred and new proposal is presented separately in Item No. 04.</p>

		<ul style="list-style-type: none"> • School of Law <ul style="list-style-type: none"> ➤ Department of Law • School of Knowledge Managements, Information and Media Studies <ul style="list-style-type: none"> ➤ Department of Library and Information Science • School of Life Sciences <ul style="list-style-type: none"> ➤ Department of Plant Sciences ➤ Department of Animal Sciences and Wildlife <p><u>Academic Session 2016-17</u></p> <ul style="list-style-type: none"> • School of Humanities and Social Sciences <ul style="list-style-type: none"> ➤ Department of Political Science • School of Languages <ul style="list-style-type: none"> ➤ Department of Hindi and Other Indian Languages • School of Visual and Performing Arts <ul style="list-style-type: none"> ➤ Department of Music & Musicology • School of Basic and Applied Sciences <ul style="list-style-type: none"> ➤ Department of Physics & Astronomical Sciences 	
9.	Considered starting of new Programmes of studies from the Academic Session 2015-16 and the scheme, syllabi and course thereof.	<i>Resolved to approve starting of new Programmes of studies from the Academic Session 2015-16 as per details given below and to approve the scheme, syllabi</i>	The item was deferred and new proposal is presented separately in item No. 04.

		<p>and courses thereof after incorporating corrections suggested by the worthy members.</p> <ol style="list-style-type: none"> 1. Department of Plant Sciences <ul style="list-style-type: none"> • Master's Degree Programme in Botany (M.Sc. Botany) along with scheme, syllabi and detailed course contents for First and Second Semesters, as per Annexure – XIII. 2. Department of Animal Sciences and Wildlife <ul style="list-style-type: none"> • Master's Degree Programme in Zoology (M.Sc. Zoology) along with schemes, syllabi and detailed course contents for First and Second Semesters, as per Annexure-XIV. 3. Department of Library and Information Sciences <ul style="list-style-type: none"> • Master's Degree Programme in Library and Information Science (MLIS) along with schemes, syllabi and detailed course contents for First Semester, as per Annexure-XV. 	
10.	Considered draft of degree formats for the Master's Degree & Research Degree Programmes run by the University.	Resolved that the degree formats for the Master's Degree & Research Degree Programmes run by the University as given below be	Recorded

		<p><i>approved as per specimen copies thereof at Annexures – XVI to XXIII.</i></p> <table border="1"> <thead> <tr> <th>S.N o.</th> <th>Degree</th> <th>Annexure</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Master of Arts (M.A.)</td> <td>XVI</td> </tr> <tr> <td>2.</td> <td>Master of Science (M.Sc.)</td> <td>XVII</td> </tr> <tr> <td>3.</td> <td>Master of Computer Applications (MCA)</td> <td>XVIII</td> </tr> <tr> <td>4.</td> <td>Master of Business Administration (MBA) TTM</td> <td>XIX</td> </tr> <tr> <td></td> <td>Master of Business Administration (MBA) HRM</td> <td>XX</td> </tr> <tr> <td>5.</td> <td>Master of Education (M.Ed.)</td> <td>XXI</td> </tr> <tr> <td>6.</td> <td>Master of Philosophy (M.Phil.)</td> <td>XXII</td> </tr> <tr> <td>7.</td> <td>Doctor of Philosophy (Ph.D.)</td> <td>XXIII</td> </tr> </tbody> </table>	S.N o.	Degree	Annexure	1.	Master of Arts (M.A.)	XVI	2.	Master of Science (M.Sc.)	XVII	3.	Master of Computer Applications (MCA)	XVIII	4.	Master of Business Administration (MBA) TTM	XIX		Master of Business Administration (MBA) HRM	XX	5.	Master of Education (M.Ed.)	XXI	6.	Master of Philosophy (M.Phil.)	XXII	7.	Doctor of Philosophy (Ph.D.)	XXIII	
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6.	Master of Philosophy (M.Phil.)	XXII																												
7.	Doctor of Philosophy (Ph.D.)	XXIII																												
11.	<p>Considered starting of part-time Ph.D. programmes for in-service Academic and Administrative Personnel in the School of Business Studies and the School of Basic and Applied Sciences.</p>	<p><i>Resolved to approve starting of part-time Ph.D. programmes for in-service Academic and Administrative Personnel in the Department of Tourism and Travel Management, the Department of HRM & OB and the Department of Computer Science and Information Technology from the Academic Session 2015-16.</i></p>	<p>The University had held series of meetings with HODs and Deans to deliberate on the new programmes to be started from the session 2016-17 and the said programme has been kept on hold.</p>																											
12.	<p>Considered starting of Integrated M.Phil.-Ph.D. programmes in the School of Life Sciences and the School of Basic and Applied Sciences.</p>	<p><i>Resolved to approve the starting of Integrated M.Phil.-Ph.D. programmes in the Department of Environmental Sciences and the Department of Computer Science and Information Technology from the Academic Session 2015-16.</i></p>	<p>The University had held series of meetings with HODs and Deans to deliberate the new programmes to be started from the session 2016-17 and the said programme has been kept on hold.</p>																											

13.	Considered prescribing the Convocation fee for award of Degree to the candidates. (Placed on the table)	<p><i>Resolved to recommend to the Executive Council the prescribing of fee for Convocation application, issue of degree before Convocation and degree in absentia as per Annexure-XXIV.</i></p> <p><i>Resolved, further that the fee to be charged as above be increased by 10% after every two Academic Sessions.</i></p>	To be placed before the Executive Council in its forthcoming meeting.
14.	Considered the proposal for starting Two-Year M.Ed. Programme of Study in lieu of One-Year Programme and Master of Arts in Education (Two-Year Programme), in the light of new NCTE Regulations from the Academic Session 2015-16. (Placed on the table)	<p><i>Resolved that the proposals for starting (i) Two-Year M.Ed Programme of Study in lieu of One-Year Programme in pursuance of the NCTE Regulations; and (ii) Master of Arts in Education (Two-Year Programme) from the Academic Session 2015-16 be approved.</i></p> <p><i>Resolved further that the relevant Ordinance be revisited/prepared and the complete scheme, syllabi and courses for the aforesaid programmes be provided.</i></p>	Letter No. CUJ/Acad./2015/2349 dated 26.02.2015 has been sent to the Head of Departments for necessary action

Item No. 04

To confirm the action taken by the Vice Chancellor in anticipation of the approval of the competent authority in having kept at abeyance some of the Courses approved by the Academic Council vide its 5th meeting, dated: 22nd December, 2014.

The Academic Council vide its 5th meeting dated 22nd December, 2014 approved to start the following Schools/Departments and programmes:

Academic Session 2015-16

- **School of Law**
 - Department of Law
- **School of Knowledge Managements, Information and Media Studies**
 - Department of Library and Information Science
- **School of Life Sciences**
 - Department of Plant Sciences
 - Master's Degree Programme in Plant Sciences (M.Sc. Botany)*
 - Department of Animal Sciences and Wildlife
 - Master's Degree Programme in Animal Sciences and Wildlife (M.Sc. Botany)*

Academic Session 2016-17

- **School of Humanities and Social Sciences**
 - Department of Political Science
- **School of Languages**
 - Department of Hindi and Other Indian Languages
- **School of Visual and Performing Arts**
 - Department of Music & Musicology
- **School of Basic and Applied Sciences**
 - Department of Physics & Astronomical Sciences

The University had held series of meetings with HODs and Deans to deliberate on the new programmes to be started from the session 2016-17. The UGC has allotted 21 programmes out of which 13 have already been started. The University as on date is running only two science departments. Eight new departments have to be started. A one day workshop was also held with National reputed experts where it was decided to give thrust to the following emerging areas of different streams:

Sl. No.	Programme	Department	School	Academic Session
1.	Five year Integrated course in Botany ✓	Department of Plant Sciences	School of Life Sciences	2016-17*
2.	Five year Integrated course in Zoology ✓	Department of Animal Sciences and Wildlife		
3.	Five year Integrated course in Chemistry ✓	Department of Chemistry and Chemical Sciences	School of Basic and Applied Sciences	2016-17*
4.	Five year Integrated course in Physics ✓	Department of Physics and Astronomical Sciences		
5.	Nanotechnology	Department of Nano Sciences and Materials		
6.	Supply chain Management ✓	Department of Marketing and Supply Chain Management	School of Business Studies	2016-17*
7.	Comparative Religions	Department of Comparative Religions & Civilizations	School of Humanities and Social Sciences	2016-17*
8.	Pharmacy (B.Pharm & M. Pharma)	College of Pharmaceutical Sciences	School of Medical & Applied Sciences	2016-17*

*To be started w.e.f. Academic Session 2016-17 or later as may be decided by the Vice Chancellor subject to availability of infrastructure facilities/faculty, etc.

Further, Department of Hindi has already been started w.e.f. Academic Session 2015-16.

As such the Department of Law, Department of Library and Information Science, Department of Political Science, Department of Music & Musicology will be taken up later.

Academic Council is requested to approve the action taken by the Vice Chancellor as detailed above.

Item No. 05

To confirm action taken by the Vice-Chancellor in having authorized adoption of the syllabi & courses of study of Master's Degree Programmes in anticipation of approval of the Competent Authority.

As per Ordinance No. 3, Clause 13, the detailed course outline shall be prepared by the Board of Studies and shall be approved by the Academic Council.

The Vice Chancellor in anticipation of the approval of the competent authority accepted the recommendations of the Board of Studies/ Dean of the concerned schools, and authorized adoption of the syllabi and courses of study, in order to facilitate teaching of the courses in Master's Degree Programmes of various departments as per details given below:

S. No	Programme of Study/ Department	Scheme for the Semester	Syllabus for the Semester	Academic Session	Annexure
1	M A/M.Sc - Applied Mathematics	Semester - IV	Semester - IV (MAMT- 421)	2014-15	I (Annex. page no. 1 to 2)
		Semester-I	Semester - I	2015-16, 2016-17, 2017-18	II (Annex. page no. 3 to 26)
		Semester - II	Semester - II	2015-16, 2016-17, 2017-18	
		Semester - III	Semester- III	2016-17, 2017-18, 2018-19	
		Semester - IV	Semester-IV	2017-18, 2018-19	
2	M.A-Sociology & Social Work	Semester - I, II, III, IV	Semester- I, II, III, IV	2015-16, 2016-17	III (Annex. page no. 27 to 89)
3	M.A-National Security Studies	Semester- I	Semester- I	2015-16	IV (Annex. page no. 90 to 112)
4	M. Sc.- Environmental Sciences	Semester - I, II, III & IV	Semester - I, II, III & IV	2015-16, 2016-17	V (Annex. page no. 113 to 166)
		Lab Courses	Semester - II (mevs-251) Semester- I, II & III (MEVS-151, 251 & 351)	2014-15 2015-16	VI (Annex. page no. 167)

5	M.A-Economics	Semester - IV	Semester - IV (MECO-403,404)	2013-14 2014-15	VII (Annex. page no. 168 to 172)
		Semester - I, II, III & IV	Semester - I, II, III & IV	2015-16	VIII (Annex. page no. 173 to 213)
6	M.A-English & Comparative Literature	Semester-I	Semester - I	2015-16	IX (Annex. page no. 214 to 223)
7	MBA-Human Resource Management	Semester - I, II, III & IV	Semester - I	2015-17	X (Annex. page no. 224 to 238)
8	MBA-Tourism and Travel Management	Semester- VI of MCA (I/D Course offered)	Semester - VI (MTTM-675)	2014-15	XI (Annex. page no. 239)
		Semester- I	Semester- I	2015-16 and 2016-17	XII (Annex. page no. 240 to 248)
9	MA-Public Policy and Public Administration	Semester- I, II, III & IV	Semester - I	2015-16	XIII (Annex. page no. 249 to 260)
10	M.Ed-Education	Semester - I, II, III & IV	Semester - I	2015-16	XIV (Annex. page no. 261 to 283)
11	Mass Communication and New Media	Semester - I, II, III & IV	Semester - I & II	2015-16	XV (Annex. page no. 284 to 296)
12	Computer Sciences and IT	Semester - I	Semester - I	2015-16	XVI (Annex. page no. 297 to 305)

These courses/syllabi are as per CBCS pattern of UGC and have been notified with the approval of the Vice Chancellor.

The action taken by the Vice Chancellor is submitted for approval by the Academic Council.

Item No. 06

To confirm action taken by the Vice-Chancellor in having authorized adoption of the syllabi & courses of study of Integrated M.Phil - Ph.D Programme in National Security Studies, Semester-I for the Academic Session 2015-16, in anticipation of approval of the Competent Authority.

As per Ordinance no 3, Clause 13, provides as under:

The Vice Chancellor in anticipation of the approval of the competent authority accepted the recommendations of the Board of Studies of the Department of NATIONAL Security Studies (NSS) and authorized adoption of the syllabi and courses of study, in order to facilitate teaching of the courses in Integrated M.Phil - Ph.D Programme in National Security Studies, Semester-I for the Academic Session 2015-16 as per the details given below:

Programme of Study	Scheme of Course	Detailed Course Contents	Academic Session	Annexure
Integrated M.Phil- Ph.D. National Security Studies	Semester-I	Semester-I	2015-16	XVII (Annex. page no. 306 to 314)

The action taken by the Vice Chancellor is submitted for approval by the Academic Council.

Item No. 07

To confirm action taken by the Vice Chancellor, in anticipation of approval of the Competent Authority, in having authorized the declaration of results of M.Phil Scholars for award of M.Phil degree.

Ordinance No.6 governing Award of Integrated M.Phil. – Ph.D. degree, Clause 37 provides that:

"The School Board after consideration of evaluation of course work, dissertation and performance of the candidate in viva-voce examination shall recommend, to the Academic Council, the award of M.Phil. degree".

Further, for successful completion of the M.Phil. Programme, a student must secure a CGPA of at least 5.0 points.

The Dean of the School concerned being the Chairperson of the School Board, and in anticipation of the approval of the School Board, recommended the declaration of results of M.Phil. scholars in their respective schools for the Academic Session 2012-13 and 2013-14. The Vice Chancellor, in anticipation of the approval of the Academic Council, accepted the recommendations of the Dean of the School concerned for declaration of the M.Phil. results as per details given below:

M.Phil. Results for Session 2012-13

1. Economics

S.No	Roll No	Regn No	Name & Parentage	CGPA
1	0210112	0210112	Tariq Ahmed Lone S/o Ab Samad Lone	6.0
2	0310112	0310112	Anjana Kumari D/o Ishwar Chand	6.25

2 Education

S.No	Roll No	Regn No	Name & Parentage	CGPA
1	0110412	0110412	Pooja Bhagat D/o Harnam Chand Bhagat	8.5

2	0210412	0210412	Jawaid Ahmad Ittoo S/o Mohd. Yousuf ittoo	8.25
3	0410412	0410412	Mohd. Haneef Kumar S/o Mohd. Shaban Kumar	7.62

3. Mathematics

S.No	Roll No	Regn No	Name & Parentage	CGPA
1.	0110312	0110312	Mohd Younus Bhat S/o Ab. Hamid Bhat	8.25
2.	0310312	0310312	Sreekanth K S/o Kunhiparan Godan	7.87
3.	0410312	0410312	Amit Paul S/o Nathi Ram	8.62
4.	0510312	0510312	Khalid Manzoor S/o Manzoor Ahmed Zargar	8.25

M.Phil Results for Session 2013-14

1. Economics

S.No	Roll No	Regn No	Name & Parentage	CGPA
1	0110113	0110113	Khursheed Hussain Dar S/o Ab Salam Dar	9.0

2. Education

S.No	Roll No	Regn No	Name & Parentage	CGPA
1	0110413	0110413	Gunjeet Mahiwal D/o Sh. Surinder Pal	7.62
2	0210413	0210413	Shivani Sharma D/o Sh. Naresh Chander Nad	8.62
3	0510413	0510413	Anshu Mali D/o Sh. Gulab Chand Nagotra	8.25

3. Human Resource Management

S.No	Roll No	Regn No	Name & Parentage	CGPA
1	0110713	0110713	Pailavi Bhagat D/o Sh.Vijay Kumar Bhagat	8.6
2	0210713	0210713	Javeed Ahmad Teeli S/o Gh Nabi Teeli	8.3
3	0310713	0310713	Vhatkar Sushil Kumar Shivaji S/o Sh.Vhatkar Shivaji Ramchandra	7.5
4	0410713	0410713	Sheeraz Ahmad Tantray S/o Abdul Hamid Tantray	8.5

4. Tourism & Travel Management

S.No	Roll No	Regn No	Name & Parentage	CGPA
1	0110613	0110613	Anil Kumar S/o Sh. Bagga Ram	7.87
2	0210613	0210613	Shuchita Bakshi D/o Sh. Sunil Bakshi	9.25
3	0310613	0310613	Aamir Ali Ansari S/o Abdul Hasey Ansari	7.12
4	0410613	0410613	Shaiki D/o Sh. Jagdish Singh Manhas	9.75
5	0510613	0510613	Asma Bashir D/o Bashir Ahmed Beig	8.62

5. Public Policy & Public Administration

S.No	Roll No	Regn No	Name & Parentage	CGPA
1.	0111013	0111013	Anjna Kumari D/o Sh. Ram Lal	8.87
2.	0311013	0311013	Suneha Kundan D/o Sh.Vijay Kumar	8.87
3.	0511013	0511013	Tsering Dorjay S/o Sh.Konchok Rigzen	8.62
4.	0611013	0611013	Taira Perveen D/o Mohd. Sadiq	9.0

6. English

S.No	Roll No	Regn No	Name & Parentage	CGPA
1	0210213	0210213	Anjum Tahir D/o Noor Mohd. Khan	7.5
2	0310213	0310213	Nasir Faried Butt S/o Faried Ahmad Butt	7.5
3	0410213	0410213	Nirmal Kumari D/o Sant Ram	6.87
4	0510213	0510213	Naseem Choudhary D/o Kalam Din Choudhary	8.12
5	0610213	0610213	Anuradha D/o . Darshan Kumar	7.75
6	05 M.Phil. Eng 2011	0051021 1	Sayima Irshad D/o Irshad Ahmad Jan	7.62
7.	0110213	0110213	Sonam Angmo D/o Tsering Angchok	8.5

The action taken by the Vice Chancellor is submitted for approval of the Academic Council.

The Academic Council is also requested to consider award of M.Phil. degree to the aforesaid scholars

Item No. 08

To confirm action taken by the Vice Chancellor, in anticipation of approval of the Competent Authority, in authorising enhancement of the remuneration rates for paper setters/external viva-voce examiners w.e.f. the Academic Session 2015-16.

The University Grants Commission (UGC) informed that Choice Based Credit System (CBCS) be implemented in the Central University of Jammu. Accordingly, the courses/syllabi have been approved by the Vice Chancellor conforming to the CBCS guidelines. However, the rates being paid earlier to the paper setters/viva-voce examiners were not lucrative enough and consequently the University found it difficult to attract good paper setters, viva-voce experts for M.Phil.-Ph.D. scholars. With a view to attracting good viva-voce examiners/experts, the Vice Chancellor, in anticipation of the approval of the Competent Authority, approved the enhancement of the remuneration rates w.e.f. Academic Session 2015-16 as shown below:

S.No.	Examination	Existing remuneration	Enhanced Remuneration
1.	Paper Setting for End-Semester Examination of PG Courses	Rs. 1000/- per question paper plus contingent expenses of Rs. 50/-	Rs. 2000/- per question paper plus contingent expenses of Rs. 100/-
2.	PG Viva Voce Examination	Rs. 100/- per candidate (subject to minimum Rs. 1000/- for a programme of study)	Rs. 250/- per candidate (subject to minimum Rs. 2000/- for a programme of study)
3.	PG: Project Report / Training Report / Field Work Report /Community lab Report	Rs. 200/- per candidate (subject to minimum Rs. 1000/- for a programme of study)	Rs. 250/- per candidate (subject to minimum Rs. 2000/- for a programme of study)
4.	M.Phil Thesis Evaluation	Rs. 1500/- Per Thesis	Rs. 2500/- Per Thesis

5.	M.Phil Viva Voce Examination	Rs. 1000/- Per Candidate	Rs. 1000/- Per Candidate
6.	Ph.D. Thesis Evaluation	Rs. 5000/- Per Thesis	Rs. 5000/- Per Thesis
7.	Ph.D. Viva Voce Examination	Rs. 2500/- Per Candidate	Rs. 2500/- Per Candidate

Accordingly, a notification in this regard has already been issued by the University which is at **Annexure XVIII** (Annex. page no. 315).

The action taken by the Vice Chancellor is submitted for approval of the Academic Council.

Item No 09.

To confirm action taken by the Vice Chancellor in anticipation of the approval of the competent authority in having authorised establishment of Department of Hindi & other Indian Languages from the Academic Session 2015-16.

Approval and the sanction of the requisite funds was received from University Grants Commission (UGC) to establish and start the Masters Degree programme in Hindi in the Department of Hindi and other languages w.e.f Academic Session 2015-16 vide their letter no: 15-18/2015 (Rajbhasha), dated: 27-02-2015.

The Vice Chancellor in anticipation of the approval of the competent authority authorised commencement of Academic activities in Department of Hindi & other Indian Languages and instituting PG level course in Hindi in the School of languages and constituted a Committee to prepare the Course Scheme and Syllabi of same.

Accordingly, the advertisement was published in the newspapers for making admissions to the said programme. The programme has commenced w.e.f. Academic Session 2015-16 and 11 No. of students have already been admitted to the M.A. Hindi programme.

The Vice Chancellor has also in anticipation of the approval of the Academic Council approved the courses, scheme placed at **Annexure XIX** (Annex. page no. 316 to 322).

The action taken by the Vice Chancellor is submitted for approval of the Academic Council.

Item No. 10

To confirm action taken by the Vice-Chancellor in authorising starting of new Programmes in B. Vocational (Tourism Management) and B. Vocational (Retail Management) w.e.f. Academic Session 2015-16.

The University Grants Commission vide letter no D.O.No.F.2-383/2014 (B.Voc.) dated 17-06-2014 has sanctioned Bachelor of Vocation (B.Voc) programmes to start two courses i.e. (1) Tourism Management (2) Retail Management from Academic Session 2015-16. The Vice-Chancellor in anticipation of the approval of the Academic Council authorised starting of these programmes in the University.

Accordingly, the scheme was notified in the newspaper for admission to B.Voc. Programmes. At present B Voc (Tourism Management) has 11 students and B. Voc (Retail Management) has 04 students.

The Vice Chancellor approved the course as per the guidelines of the UGC.

The action taken by the Vice Chancellor is submitted for approval by the Academic Council.

Item No. 11

To consider approving rates for External Examiners for evaluating the answer scripts of various Post Graduate courses for end semester examinations.

The University Grants Commission (UGC) informed that Choice Based Credit System (CBCS) be implemented in the Central University of Jammu. Accordingly, the Central University of Jammu with the approval of Vice Chancellor has implemented the Choice Based Credit System (CBCS) guidelines w.e.f Academic Session 2015-16 and the courses have been planned as per these guidelines. These guidelines, stipulate that 50% of the core courses should be set and evaluated by external examiners. In order to complete the work relating to evaluation, the University with the approval of Vice Chancellor, has decided in meeting of Heads & Deans to invite the paper setters/evaluators to the Central University of Jammu for timely completion of the evaluation work and to declare the results within the scheduled time. However, rates to be paid to these external examiners are not provided so far. It is, therefore, proposed that the external examiners may be paid the amount as shown below:

S. No.		Rate per Answer Script	TA/DA
1.	Answer script evaluated at Central University of Jammu	Rs.50/-	The external examiner shall be provided free boarding & lodging in addition to travel expenses.
2.	Answer script evaluated outside Central University of Jammu when external examiner do not visit the CUJ due to unavoidable circumstances.	Rs.30/-	The postal expenses shall be borne by the University.

Submitted for consideration and approval of the Academic council.

Item No. 12

To consider and recommend to the Executive Council, the panels of Experts for nomination on the Selection Committees for the teaching posts.

As per provisions of the Central Universities Act, 2009, Statute 18 (2) (as amended) the Selection Committee for the post of Professor, Associate Professor and Assistant Professor, among others, shall be constituted as per the extant UGC Regulations on the subject. The UGC in its Regulations 2010 (as amended) prescribed the composition of the Selection Committees for the post of Assistant Professor, Associate Professor and Professor. For the Selection Committee, three experts in the concerned subject are to be nominated by the Vice Chancellor out of panel of experts approved by the relevant statutory body of the University concerned.

The Academic Council may consider and recommend the panels of experts to the Executive Council for the Selection Committees for the post of Assistant Professor, Associate Professors and Professors in the following subjects:

1. Mathematics
2. Computer Sciences and Information Technology
3. Tourism & Travel Management
4. Economics
5. Environmental Sciences
6. English
7. Sociology and Sociology Work
8. Educational Studies
9. Human Resource Management & Organizational Behaviour
10. Mass Communication & New Media
11. Public Policy and Public Administration
12. National Security Studies
13. Hindi
14. Swami Vivekananda Chair
15. B.Voc

Item No 13

To confirm action taken by the Vice Chancellor in having authorised adoption of Choice Based Credit System (CBCS) as per UGC Guidelines.

As per Guidelines of UGC conveyed vide their letter no. F1-1/2014(Secy) dated 12th November, 2014, the Universities were advised to adopt Choice Based Credit System (CBCS) guidelines w.e.f. Academic Session 2015-16. The Vice Chancellor assigned the task to Prof. Lokesh Kumar Verma, Academic Coordinator for incorporating changes in the syllabi of courses/syllabi of different programmes in the University.

Consequently a series of meetings with Deans/HODs and two regional workshops organised by the Central University of Rajasthan and Central University of Kashmir. The Northern Region workshop was held at Jaipur, which was attended by Prof. Ashok Aima and Prof. Lokesh Kumar Verma, Academic Coordinator. The second workshop was organised by Central University of Kashmir which was chaired by Vice-Chairman of UGC. After attending the workshops the Academic Coordinator drafted the proposal which was discussed in the meeting of HODs and adopted a resolution for the scheme given in **Annexure-XX** (Annex page no. 323 to 338)

As such the University has adopted the scheme in all courses for changes in syllabi and scheme, examination and evaluation (Continuous Internal Assessment, Mid Semester Examinations and End Semester Examinations).

The main changes which have been made in the existing ordinance like change in design of paper setting, provision of moderation of question papers, evaluation by the external examiners who set papers, passing separately in internal (CIA and MSE) and External examination etc.

In view of the urgency, the Vice Chancellor approved the above said changes in anticipation of approval of competent authority so that UGC directions for adoption of scheme are complied with w.e.f. Academic Session 2015-16.

The Academic Council is accordingly requested to approve and recommend the adoption of the scheme to the Executive Council.

No.: 4-2/Maths/CUJ/Reg/2013/3761-86 Date: 14.5.15

NOTIFICATION

The Vice Chancellor, in anticipation of the approval of the Competent Authority, has approved the Syllabus in the MAMT-421, Title: Manifolds & Relativity Theory, introduced in M.Sc. Applied Mathematics, Semester-IV during Session 2014-15 in Mathematics (Enclosed as Annexure-I)


Registrar

Copy to:

1. All Deans of Schools,
2. All Heads of Departments,
3. Academic Coordinator,
4. DR (Academic)
5. AR (Academic)
6. AR (Examinations),
7. Staff Officer to the VC,
8. PS to Registrar,
9. Office Order file,
10. Guard file.

13

Course Title: Manifolds and Relativity theory
Duration of Examination: 3 Hours

Course Code: MAMT-421 Credits: 4
Maximum Marks: 100

Objective: The aim of this course is to introduce the concepts of Geometry of manifolds and its application to relativity theory.

Prerequisite: The prerequisite for this course is the basics of Differential Geometry, Linear Algebra, and Topology.

Unit 1

Topological manifolds, coordinates charts, stereographic projection, examples of topological manifolds: circle, sphere S^2 , real projective space RP^2 , special linear group $SL(2, R)$, differentiable manifolds, transition functions, examples of differentiable manifolds.

Unit-2

Vector field, tangent vector, tangent space, tangent bundle and its description with examples, pushforward map, Lie bracket and its properties, Jacobi identity, integral curve of a vector field, immersions, embeddings, submanifolds.

Unit 3

Christoffel symbols of first and second kind, covariant derivative of vector field, Geodesics, affine connection and its properties, parallel vector field, parallel transportation, torsion and symmetry.

Unit 4

Riemannian metric, applications of Riemannian metric to find area and volume, Riemannian manifolds, Riemannian connection, Riemannian curvature and its properties, Bianchi identity of first type, sectional curvature, Ricci curvature.

Unit 5

Einstein theory, Flat space and Lorentz metric, Einstein field equations, Energy-momentum tensor, spherically symmetric solution to field equation, affine connection for spherically symmetric source, Ricci tensor of spherically symmetric source.

Text book:

- (i) M. P. Do Carmo, Riemannian geometry, Birkhauser Boston.
- (ii) Introduction to general relativity, John Dirk Walecka, World Scientific publication.

Reference books:

- (iii) J. M. Lee, Introduction to smooth manifolds, Springer publication
- (iv) U.C. De and A. A. Shaikh, Differential Geometry of Manifolds, Narosa publication.
- (v) Theodore Frankel, The Geometry of Physics, Cambridge University press
- (vi) K. Yano & M. Kon, Structure on manifolds, Ser. Pure Math., World Scientific, Singapore, 1984.
- (vii) P.K. Nayak, Tensor Calculus and Differential Geometry, PHI Publication.

Head
Department of Mathematics
Central University of Jammu

P. Singh

Annexure Page: 2

Deep Singh 28/03/15



DEPARTMENT OF MATHEMATICS 560
CENTRAL UNIVERSITY OF JAMMU ANNEXURE - II

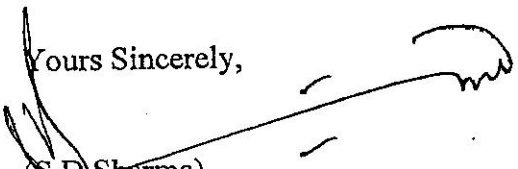
No: CUJ/TAB/Math/40/2015/360
Dated: 19.08.2015

To
The Registrar
Central University of Jammu
Jammu

Sir,

Please find enclosed herewith the minutes of the meeting of Board of Studies in Mathematics held on 31.07.2015 at 12:15P.M. in the committee Room , Temporary Academic Block, Central University of Jammu, approving the course structure (Choice Based Credit System) and detailed syllabi of courses offered in M.Sc. (Applied Mathematics) Semester I& II as per C.B.C.S. scheme . This is for your further necessary action please.

Yours Sincerely,


(S.D.Sharma)
HOD
Kalmi

ARC (A.S.S.)
24/8/15

Ms. Sharma
Please put up.
25/08/15

ALST
24/8

R2177
24/8



A meeting of Board of Studies in Mathematics was held on 31-07-2015 at 12:15PM in Committee Room, Temporary Academic Block, Central University of Jammu, Jammu.

The following were present:-

1. Prof. Lokesh Verma (Special Invitee)
2. Prof. S.D. Sharma (in Chair)
Head, Department of Mathematics, Central University of Jammu
3. Prof. D.S. Jamwal (Member)
University of Jammu
4. Prof. Rajneesh Kumar (Member)
Kurukshetra University
5. Dr. Pavinder Singh (Member)
Department of Mathematics, Central University of Jammu
6. Dr. Bhavana Arora (Member)
Department of CS&IT, Central University of Jammu
7. Dr. Deep Singh (Member)
Department of Mathematics, Central University of Jammu

The following decisions were taken:-

1. The members deliberated upon the Scheme of Choice Based Credit System from 1st to 4th Semester of M.Sc. Applied Mathematics. After thorough discussions, the members approved the scheme for all the semesters as under:-
 - i) 1st and 2nd Semesters for session 2015-16, 2016-17, 2017-18
 - ii) 3rd and 4th Semesters for session 2016-17, 2017-18.
2. The members also discussed the detailed syllabi of M.Sc. Applied Mathematics for 1st and 2nd Semesters in accordance with the Choice Based Credit System for sessions 2015-16, 2016-17, 2017-18 and approved them.
3. The members authorized the Head, Department of Mathematics to approve the panel of examiners of M.Sc. Applied Mathematics to be held in

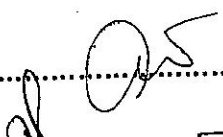
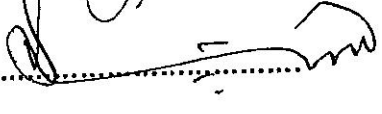
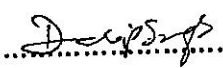
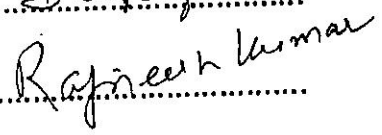

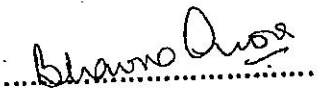
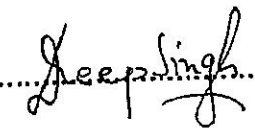
4. As far as issue of registration and allotment of supervisors to research scholars for Ph.D. Programme is concerned, the Board formulated a Sub-Committee of the following members to look into these cases and to approve the topics and supervisors.

- i) Prof. Lokesh Verma, (Chairman)
Academic Coordinator, Central University of Jammu
- ii) Prof. S.D. Sharma
Head, Department of Mathematics, Central University of Jammu
- iii) Dr. Pavinder Singh
Department of Mathematics, Central University of Jammu

The Board authorized the Sub-Committee to make recommendations to School Board.

5. The Board also authorized the Head, Department of Mathematics to take decision, if any, in consultation with staff of the Department which requires approval of Board of Studies prior to next meeting of Board of Studies and the same shall be reported in next meeting of Board of Studies for confirmation.

Meeting ended with a vote of thanks.

- 1..... 
- 2..... 
- 3..... 
- 4..... 
- 5..... 
- 6..... 
- 7..... 

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies-Mathematics, the Vice Chancellor, in anticipation to the approval of the Academic Council, has approved the Course Matrix/Scheme (1st, 2nd, 3rd and 4th semester) and Syllabus for the first and second semester students. The approved Course Matrix/Scheme is as follows:

SEMESTER-I (For examinations to be held in Dec. 2015, Dec.2016, Dec. 2017).

Course Code	Course Title	Credit	Total
CORE COURSES			
PGAMT1C001T	Real Analysis	4	100
PGAMT1C002T	Discrete Mathematics	4	100
PGAMT1C003T	Ordinary Differential Equations with Applications	4	100
PGAMT1C004T	Numerical Analysis	4	100
ELECTIVE-I (DISCIPLINE)			
PGAMT1E005T	Programming in C	4	100
FOUNDATION COURSE (Compulsory-I)			
PGAMT1F006T	Introduction to Set Theory	2	50
Total		22	550

SEMESTER-II (For examinations to be held in May 2016, May 2017, May 2018).

Course Code	Course Title	Credit	Total
CORE COURSES			
PGAMT2C001T	Topology	4	100
PGAMT2C002T	Modern Algebra with Applications	4	100
PGAMT2C003T	Complex Analysis	4	100
PGAMT2C004T	Optimization Techniques	4	100
ELECTIVE-II (DISCIPLINE)			
PGAMT2E005T	Partial Differential Equations	4	100
FOUNDATIONAL ELECTIVE-I (SKILL BASED)			
PGAMT2F006T	Introduction to Measure Theory	2	50
Total		22	550

SEMESTER-III (For examinations to be held in Dec. 2016, Dec. 2017, Dec. 2018).

Course Code	Course Title	Credit	Total
CORE COURSES			
PGAMT3C001T	Functional Analysis	4	100
PGAMT3C002T	Linear Algebra and MATLAB	4	100
PGAMT3C003T	Finite Fields and Coding Theory	4	100
ELECTIVE-III (DISCIPLINE)			
PGAMT3E004T	Applied Fourier Analysis	4	100

CENTRAL UNIVERSITY OF JAMMU

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

FOUNDATION ELECTIVE-II (SKILL BASED)			
PGAMT3F005T	Applied Statistics	4	100
PGAMT3C006P	MINOR PROJECT- To be completed in two semesters i.e Semester-III & IV and Project Report shall be evaluated at the end of Semester-IV	4	
INTERDISCIPLINARY (ELECTIVE)			
	Electives offered by other Departments	4	100
Total		28	600

SEMESTER-IV (For examinations to be held in May 2017, May 2018, May 2019).

Course Code	Course Title	Credit	Total
CORE COURSES			
PGMAT4C001T	Cryptography	4	100
PGMAT4C002T	Applied Operator Theory	4	100
PGMAT4C003T	Wavelets Analysis with Applications	4	100
ELECTIVE-IV (DISCIPLINE)			
PGMAT4E004T	Some Stochastic Models	4	100
FOUNDATION (Compulsory-II)			
PGHRM4F005T	Galois Theory	4	100
PGHRM4C006P	MINOR PROJECT- Work already done in Semester-III to be continued and Project Report will be submitted at the end of this Semester.	4	200
INTERDISCIPLINARY (ELECTIVE)			
	Electives offered by other Departments	4	100
Total		28	800

Registrar

8/9/15

Encl: Approved syllabus of 1st and 2nd semester

Copy to:-

1. Dean, School of Basic and Applied Sciences
2. Head, Department of Mathematics
3. DR (Examinations)
4. PS to VC
5. PA to Registrar

Course Title: Real Analysis

Duration of Examination: 3 hours

Course Code: PG AMT 1 COOIT
(Core Course)
Maximum marks: 100

Unit -1

- Euclidean Space \mathbb{R}^n , Open ball and open set in \mathbb{R}^n , Structures of open sets in \mathbb{R} , Closed sets, Adherent and accumulation points, Closure of a set, Derived set
- Bolzano's Weierstrass theorem, Cantor Intersection theorem, Lindeloff covering theorem, Heine-Borel theorem, Compactness in \mathbb{R}^n .

Unit-2

- Definition and existence of Riemann-Stieltjes integral, conditions for R-S integrability, properties of the R-S integral, Integration and differentiation.
- Fundamental theorem of calculus, Integration of vector valued functions, Rectifiable curves

Unit-3

- Sequences and series of functions, Point-wise and uniform convergence, Cauchy's criterion for uniform convergence.
- Weierstrass M-test, Abel's and Dirichlet's tests for uniform convergence, uniform convergence and continuity.

Unit -4

- Uniform convergence and Riemann-Stieltjes integration, uniform convergence and differentiation, Weierstrass approximation theorem
- Power series, uniqueness theorem for power series, Abel's and Tauber's theorems
- Functions of bounded variation, continuous functions of bounded variation



Unit-5

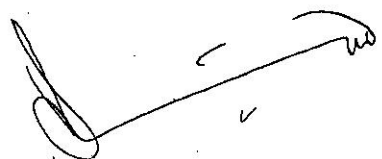
- Function of several variables, linear transformation, Derivative of a real valued rule function, Directional derivatives, chain rule, Partial derivatives, and interchange of the order of the differentiation
- Higher order derivatives, Taylor's theorem, Inverse function theorem, implicit function theorem, Jacobians, Extremum problems with constraints, Lagrange's multiplier method

Textbooks:

1. T M Apostol, Mathematical Analysis, 2nd Edition, Narosa Publishing House, 2002 (For Unit-1)
2. W Rudin, principles of Mathematical Analysis, 3rd Edition, McGraw-Hill International Editions, 1976

Reference books:

1. H L Royden and P M Fitzpatrick Real Analysis, 4th Edition, PHI Learning Private Limited, 2004
2. D Somasundram and B Choudhary, A First Course in Mathematical Analysis, Corrected Edition, Narosa Publishing House, 2011



PGAMT1C002T
Course Title: - Discrete Mathematics
(Core Course)
Course Credits: 4

Objective: The aim of this course is to make students to understand the basic concepts in Discrete Mathematics such as some counting principles, Boolean Algebras and its applications, Basic Graph theory and some of its applications.

A pre-requisite for this course an Elementary set theory and a course on Algebra at undergraduate level.

Unit-1

- Function, Types of functions, Pigeonhole Principle (Weak and Strong form) and its Applications,
- Recurrence relations: Introduction, Linear homogeneous recurrence relations with constant coefficients and its general solution, Exercises based on the topics.
- Partial order relation: Definition, Examples, Chains, Anti-chains, Equivalence relation: Definition, Examples and its properties,

Unit-2

- Lattice: Definition and Examples, Algebraic system defined by lattice, Principle of Duality, Basic properties of Algebraic systems
- Distributive and complemented Lattices, Boolean lattices and Boolean algebras, Uniqueness of finite Boolean Algebras
- Boolean functions and Boolean expressions, Normal form of Boolean expressions and simplification of Boolean expressions, Propositional Calculus, Design and Implementation of Digital Networks, Switching circuits.

Unit-3

- Graph: Definition and Examples, Basic properties of Graphs
- Euler Graphs, Hamiltonian Paths and Cycles
- Bipartite Graphs, Marriage Theorem

Unit-4

- Tree: Definition and Examples, Basic properties, Spanning tree, Minimal Spanning tree in a weighted graph, Greedy Algorithm for minimum-weight spanning tree, BFS and DFS algorithms to grow a spanning tree
- Planar graphs: Euler's Formula, Kuratowski two graphs: K_5 and $K_{3,3}$,

Unit-5

- Graph Colouring, chromatic number, Greedy Algorithm for vertex colouring, Four colour Conjecture,
- Directed Graphs, Trading problem, Networks: Network flow, max-flow min-cut theorem

Textbooks:

1. R A Brualdi, Introductory Combinatorics, 5th Edition, Prentice Hall.
2. C L Liu and D P Mohapatra; Elements of Discrete Mathematics, McGraw Hill, 1985.

Reference Books:

1. S M Cioaba and M Ram Murty, A first Course in Graph Theory, Trim series, Hindustan Book Agency.
2. Narsingh Deo, Graph Theory with Applications to Engineering and Computer Science, PHI, New Delhi, 2011.
3. Tremblay and Manohar, Discrete Mathematics Structures with applications to Computer Science, McGraw Hill, 1985.

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D. S. S. S.

Course Title: Ordinary differential equations with Applications

Duration of Examination: 3 hours

Course Code: PG AMT 1 C003T
(Core Course)

Maximum Marks: 100

Objective: This course is the source of most of ideas and theories which constitute higher analysis. The aim is to develop a strong background on finding solutions to linear differential equations with constant and variable coefficients with singular points and to study the existence and uniqueness of the solutions of first order differential equations.

A pre-requisite for this course is course on Calculus and differential equations at undergraduate level.

Unit-1

- Mathematical modelling by means of ordinary differential equations, Existence and uniqueness of solutions of initial value problems for first order differential equations, Picard's theorem(statement only), Picards Method of Successive Approximations, Singular solutions of first order ODEs, Lipschitz condition,
- Linear systems, Gronwall's Lemma, Linear dependence and independence of solutions, Wronskian

Unit-2

- Solutions of homogeneous linear system of first order ODEs with constant coefficients
- General theory of homogeneous and non-homogeneous linear ODEs, The General solution of the Homogeneous equation, the use of known solution to find another, Homogeneous equation with constant coefficients, Method of undetermined coefficients.

Unit-3

- Qualitative properties of solutions: Oscillations and the Sturm Separation Theorem, Sturm-Liouville boundary value problem, Sturm-Liouville equations, Eigen value problems

Unit-4

- Series solutions of non-autonomous systems: Second order Linear Equations, Ordinary points, Regular Singular points, Legendre and Bessel series, Frobenius method.

Unit-5

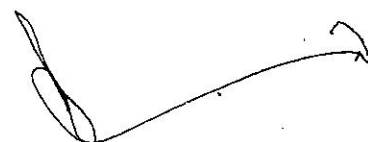
- Discrete dynamical systems, Stability of dynamical systems, Lyapunov exponential and asymptotic stability and their characterization

Textbooks:

1. G F Simmons, Differential equations with applications and historical notes, Tata McGraw-Hill Edition, 2003.

Reference books:

1. S L Ross, Differential equations, Blaisdell publishing company, First Edition, 1964.
2. G Birkhoff and G C Rota, Ordinary differential equations, Boston, 1962.
3. E A Coddington and N Levinson, Theory of Ordinary differential equations, McGraw-Hill, New York, 1955.
4. Saber N Elaydi, An introduction to Differential Equations, Springer-verlag, Second edition, 1995.
5. V I Arnold, Ordinary Differential equations, PHI, New Delhi, 1998.



Course Title: Numerical Analysis

Duration of Examination: 3 hours

Course Code: PG AMT 1 004T
(Core course)
Maximum Marks: 100

Objective: This course introduces basic techniques of numerical methods, Stress is given on computer based numerical solutions and Algorithms.

A pre-requisite for this course is course on Numerical Analysis at undergraduate level.

Unit-1

- Errors and Numerical solutions of algebraic equations, Concept of approximate numbers, significant digits, scientific notation, absolute and relative error.
- Normalized floating point numbers, Solution of algebraic equations using the method of iteration and Newton-Raphson method, Rate of convergence

Unit-2

- Solutions of systems of linear algebraic equations using Gaussian elimination and Gauss-Seidel methods, Matrix inversion, Jordan's Method, ill's conditioning and Pivoting, constructing an algorithm based on Gaussian elimination method.

Unit-3

- Finite differences, Newton's, Lagrange and spline interpolations.
- Different types of approximations: Least square polynomial approximation, Polynomial approximation by use of orthogonal polynomials, approximation with Chebyshev polynomials

Unit-4

Simpson's rules.

- Gaussian quadrature

Unit-5

- Numerical solutions of ODEs using Picard, Euler, Modified Euler and Runge-Kutta Methods of second and fourth order, Multistep Method-Milne method.

Textbooks:

1. M K Jain, Numerical Analysis for Scientists and Engineers, New age International Ltd. Publishing, 1992.

Reference books:

1. C E Froberg, Introduction to Numerical Analysis, Addison Wesley Publishing Company, Sixth Edition, 1981.
2. S S Sastri, Introductory Methods of Numerical Analysis, PHI, New Delhi, 1997.
3. E V Krishnamurthy and S K Sen, Computer based numerical Algorithms, East-West Press Pvt. Ltd. 1976.
4. S D Conte and Carl Deboor, Elementary Numerical Analysis: an algorithmic approach, McGraw Hill Company, 3rd Edition, 1981.
5. J D Faires and R Burden, Numerical Methods, 2nd Edition, Brooks/Cole Publishing Co., 1998.
6. E Hairer, E P Norsett and G Warner, Solving ordinary differential equations I and II, Springer series in Computational Mathematics 8, Springer Berlin, 1993.
7. Stoer and Burlisch, Introduction to Numerical Analysis

Objective: The aim of this course is to introduce the concept of programming and problem solving techniques using C language.

Unit-1

- C language: Programmer's model of a computer, Algorithms, Flow Charts, Pre-processors, Data types, Arithmetic and input/output instructions.

Unit-2

- Logical and Conditional Operators, Control structures, Functions, Arrays, Puppeting of strings, Structures, Pointers, Functions.

Unit-3

- File formatting, Algorithms and programs to analyze statistical data, Measure of location and dispersion, Sorting, Solving system of equations constructing inverse matrices and g-inverses.

Unit-4

- Numerical Algorithms using C:

1. Write a program to find the roots of the quadratic equation.
2. Write a program to find LCM and HCF of two numbers.
3. Write a program to calculate simple interest and compound interest and the difference between the two.
4. Write a program to receive a decimal integer and find its octal equivalent.
5. Any year is input through the keyboard. Write a program to determine whether the year is a leap year or not.

if all the three points fall on one straight line.

7. If the three sides of a triangle are entered through the keyboard, write a program to check whether the triangle is isosceles, equilateral, scalene or right angled triangle.

8. Write a program to print all the ASCII values and their equivalent characters using a while loop.

The ASCII values vary from 0 to 255.

9. Write a program to print all prime numbers from 1 to 300. (Hint: Use nested loops, break and continue)

10. Write a program to produce the following output

```

                1
            1      1
        1      2      1
    1      3      3      1
1      4      6      4      1
```

11. Write a function power (a, b) to calculate the value of a raised to b.

12. Write a recursive function to obtain the first 25 numbers of Fibonacci sequence.

13. Implement the Selection Sort and Bubble Sort algorithms for a given set of numbers.

14. Write a program that interchanges the odd and even elements of an array.

15. A five-digit number is entered through the keyboard. Write a program to obtain the reversed number and to determine whether the original and the reversed number are equal or not. (Palindrome)

Unit-5

• Numerical Algorithms using C:

1. Compute the mean, mode, median and standard deviation for a sample data set.
2. Write a program to find the sum and the difference of two matrices.
3. Write a program to find the trace of a given matrix.
4. Write a program to multiply two matrices.
5. Write a program to swap two numbers using call by value.
6. Write a program to swap two numbers using call by reference.
7. Write a program to sort a set of names stored in an array in alphabetical order.
8. Write a program to find factorial of a number using recursion.
9. Write a program to append the contents of one file at the end of another.
10. Write a program to read and write record in a file using structure.

Textbooks:

1. Henry Mullish & Hobert Loper, Sprit of C: An introduction to Programming, Jaico Publishers, Bombay.
2. B W Kernighan and D M Ritchie, C programming Language, Prentice Hall, Software series.

Duration of Examination: 2 Hours

Maximum Marks: 50

Objective: This is a foundation course in Mathematics useful for everybody working in any area of Mathematics. Pre-requisite for this course is undergraduate elementary logic and set theory.

Unit-1

The Axiom of Choice and some of its equivalent forms: Motivation and historical remarks, family of sets and Cartesian product of family sets, partial ordered sets, Hausdorff Maximality Principle, fixed point theorem (statement only), Zorn's lemma, applications of Zorn's lemma, well-ordering principle, equivalence of the above three concepts, Principle of transfinite induction.

Unit-2

Denumerable and non-denumerable sets: finite and infinite sets, equipotent of sets, examples and properties of denumerable and non-denumerable sets, cardinal numbers, ordering of the cardinal numbers, cardinal number of a power set, Cantor theorem, Schroder Bernstein Theorem (statement only), addition and multiplication of cardinal numbers, exponential of cardinal numbers, the continuum hypothesis and its generalization.

Unit-3

Ordinal Numbers, ordering of the ordinal numbers, addition and multiplication of ordinal numbers, set of ordinal numbers is well ordered, non-existence of a set of all ordinals, problems and exercises based on these concepts.

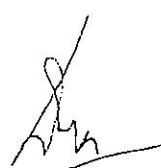
Text Books:

1. Shwu-Yeng T Lin, Set Theory with Applications, Mariner Pub. Co.: Enlarged 2nd Edition (1981)

Reference Books:

1. Paul R Halmos, Naive Set Theory, Springer-Verley New York Inc, 1974
2. Robert R. Stoll, Set Theory and Logic, W.H. Freeman and Co. 1963.



 P. Singh



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Semester-2

Course Title: Topology

Course Code: PG.AMT2.C001T
(Core Course)

Duration of Examination: 3 hours

Maximum marks: 100

Objective: This course aims at familiarizing the students with the basic concepts of Topology. A preliminary knowledge of real and complex analysis is essential.

Unit-1

- Topological Spaces: Definition and some examples, Interior, Closure, and Boundary of a set, Basis and Sub-basis, First and second countable spaces, Continuous function, Open and Closed Functions, Homeomorphism, Subspaces

Unit-2

- **Connectedness:** Connected and disconnected Spaces, Results on Connectedness, Connected subsets of real Line, Applications of connectedness, Path Connected Spaces, Locally connected and Locally Path connected Spaces

Unit-3

- Compact Spaces and Subspaces, Compactness and Continuity, Properties related to Compactness, One-Point Compactification, The Cantor Set.

Unit-4

- Finite Products, Arbitrary Products, Comparison of Topologies, Quotient Spaces
- Separation Axioms: T_0 , T_1 , and T_2 Spaces

Course code: PG AMT 2 C002T

(Core Course)

Course title: Modern Algebra with Applications Course credits: 4

Unit-1

- Groups, subgroups, normal subgroups, Quotient groups, Basic examples: Dihedral, Matrix and Permutation groups, Homomorphism, isomorphism theorems,
- Group action on set, Lagrange's theorem, Cayley's theorem, conjugacy, Class equation and its applications, Cauchy's theorem

Unit-2

- Sylow theorems, Simple groups, Direct sums, Structure theorem for finite abelian groups, Classification of abelian groups of a given order, Simplicity of $A_n (n > 5)$
- Automorphisms, Inner automorphisms, Computation of automorphism groups of \mathbb{Z}_n , \mathbb{Z} and S_3 .

Unit-3

- Normal and subnormal series, Composition series, Examples, Jordan-Hölder theorem, Solvable groups.
- Ring: Definition and Examples, Ideals: Prime and Maximal ideals, Examples, Quotient rings, Homomorphism, Isomorphism theorems

Unit-4

- Integral domain, Fields, The field of quotients of an integral domain, Characteristic of an integral domain, prime fields,
- Euclidean domains, $\mathbb{Z}[i]$ as Euclidean domain, Principal ideal domain and their basic properties.

Unit-5

- Polynomial Ring over \mathbb{Q} , Gauss Lemma, Eisenstein's criterion of irreducibility,
- Polynomial Rings over Commutative rings: Unique factorization domain, Unique factorization in polynomial rings.

Text Book:

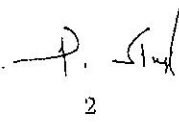
1. I N Herstein, Topics in Algebra, Wiley Eastern Ltd., Second Edition, New Delhi, 2011.

Reference books:

1. M Artin, Algebra, Prentice-Hall of India, Second Edition, 2011.
2. J B Fraleigh, A first course in Abstract Algebra (7th edition), Addison-Wesley, 2002.
3. N Jacobson, Basis Algebra, Vol I, Hindustan Publishing House, New Delhi.
4. N S Gopalakrishnan, University Algebra, New Age International(P) Ltd., Publishers, Second Edition: 1986, (Reprint: 2004)
5. I S Luther and I B S Passi, Algebra, Vol I-Groups, Vol II-Rings, Narosa Publishing House (Vol. I-1996, Vol. II-1999).
6. W A Adkins and S H Weintraub, Algebra An approach by module theory, Springer, 1999.









Course Title: Complex Analysis

Course Code: PGADMT 2nd COU3T
(Core Course)
Maximum-Marks: 100

Duration of Examination: 3 hours

Unit-1

Review of complex numbers, Stereographic projection, Chordal distance, Multi-valued functions, Branches of multi-valued functions, with special reference to $\arg z$, exponential functions, Logarithm function, power functions and phase factors. Analytic functions: Limit and continuity of complex functions, complex derivative, Singularities, Cauchy- Reinmann equations, Cauchy-Reinmann equations in polar form, Harmonic functions, Harmonic conjugate.

Unit-2

Line integrals, Piecewise smooth path, Jordan curve, Green's theorem, Independence of path, Anti-derivative, fundamental theorem of calculus, Mean value property, Strict maximum principal (real and complex version), ML-estimate.

Unit-3

Complex integration and analyticity: Cauchy's theorem, Cauchy Integral formula, Cauchy integral formulae for higher order derivatives.
Liouville's theorem, Cauchy's inequality, Morera's theorem, Goursat's theorem, complex form of Cauchy-Riemann equations.

Unit-4

Power series, radius of convergence, power series expansion of an analytic function: Taylor's expansion, Isolated singularities, Laurent Series. The residue calculus, Cauchy residue theorem, fractional residues, Jordan's lemma, Evaluation of integrals using residue theorem.

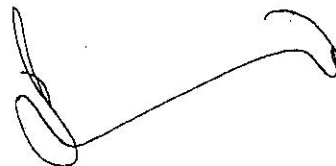
Conformal mappings, Mobius transformations, composition of two Mobius transformations Translations, Dilations, Inversion, The Schwarz lemma, Conformal Self-maps of the unit disk, Mappings of the unit disk and upper half plane, The Riemann Mapping theorem (Statement only).

Text-Books:

1. TW Gamelin, Complex Analysis, Springer-Verlag, New York Berlin Heidelberg 2001.

References:

1. Walter Rudin; Real & Complex Analysis, Tata Mc-Graw Hill, 2006
2. S. Ponnusamy, Foundations of Complex Analysis, Narosa Publishing House, 2005
3. J.W. Brown & R.V. Churchill, Complex variables and applications, Mc-Graw Hill International VIII-Edition, 2009
4. J.B. Conway, Function of One complex variable, Springer International Student Edition, 1980
5. L.V. Ahlfors, Complex Analysis, International Edition, McGraw Hill International Editions, 1979.



Course Title: Optimization Techniques

Course Code: ~~REG AMT 2~~ ¹²⁷ COO4T
(~~COO~~ COE course)

Duration of Examination: 3 hours

Maximum marks: 100

Unit-1

- Overview on operation research, techniques, tools, phases, limitations and applications in OR. Review of probability and statistics, Random Experiment, Random variable, Discrete and continuous probability distribution
- Linear programming-I (Graphical method) Formulation of a linear programming problem with different types of constraints, requirements, assumptions, merits and demerits, applications of LP, Graphical analysis, Graphical solution, Multiple, unbounded solution and infeasible problems and its applications
- Linear programming-II (Simplex method (SM)) Simplex Method: Principle, Computational aspect, SM with several decision variables. Two phase LP problem, M-method, multiple, unbounded solution, infeasible problems, Sensitivity and duality analysis in LP.

Unit-2

- Transportation Problem (TP): Structure and formulation of TP, Procedure for TP, Methods for finding initial solution and optimality, Unbalanced, maximization, degeneracy, transshipment in TP.
- Assignment Problem (AP): Approach, procedure and maximization, unbalanced and crew assignment problems.
- Network Analysis: Shortest path problem, minimum spanning tree problem, maximum flow problem, minimum cost flow problem, project planning and control with PERT and CPM

Unit-3

- Sequencing problems: Processing n-jobs through two, three, M machines, Processing of n-jobs through m machines.

Duration of Examination: 3 hours

Maximum marks: 100

Objective: This course is an important part of applied Mathematics for understanding the physical sciences, Engineering and Technology. A large number of physical phenomena occurring in Physics and Engineering can be formulated mathematically in the form of Partial Differential equations.

A pre-requisite for this course is the course on Ordinary differential equations.

Unit-1

- Formulation of first order partial differential equations: Derivation of PDE by elimination method of arbitrary functions, Solution of linear first order partial differential equations (Lagrange method), Integral surfaces passing through a given curve, The Cauchy Problem for first order PDE, Lagranges linear PDE and non Linear PDE of first order

Unit-2

- Compatible systems of first order partial differential equations, Charpits method for solving first order non linear Partial differential equations
- Classification of second order Partial Differential Equations, Canonical form: Elliptic, Parabolic and Hyperbolic PDE

Unit-3

- Laplace Equation and its derivation, Boundary value Problems, Properties of Harmonic functions: Spherical mean, Mean Value theorem, Maximum-Minimum Principle and its applications, Separation of variables, Dirichlet and Neumann problem for a rectangle



Unit-4

- Heat Equation: Boundary equations, Fundamental solutions of Heat equation, Dirac Delta function, Separation of variables method

Unit-5

- Wave Equation: Derivation of one dimensional wave equation and its solution by canonical reduction, Initial value problem of Cauchy's type; D'Alèmbert's solution, Vibrating string-variables separable solution, Boundary and initial value problems for two-dimensional wave equations-Eigen function method, uniqueness of solution for the wave equation

Text book:

1. K Sankara Rao, Introduction to partial differential equations, Prentice Hall of India, 2nd Edition, New Delhi, 2007:

Reference books:

1. Renardy and Rogers, An introduction to PDEs, Springer-Verlag, 1999.
2. Smoller, Shock Waves and reaction-diffusion equations, second edition, 1994.
3. Kevorkian, Partial Differential equations, Wadsworth and Brooks/ cole
4. F John, Partial differential equations
5. L C Evans, Partial differential equations, AMS, 1998.
6. B Folland, Introduction to partial differential equations.
7. D Gilbarg and N S Trudinger, Elliptic Partial differential equations of second order.
8. W A Strauss, Partial differential equations, An Introduction, Wiley, John and sons 1992.
9. B P Parashar, Differential and Integral equations, Oscar Publication

Course Type: Elective (Disciplinary)

Duration of Examination: 2 Hours

Annexure

Maximum Marks: 50

Objective: The aim of this course is to study general theory of measure and integration. The theory of measure has its origin in the idea of length, area and volume in Euclidean spaces. It is a pre-requisite course for Fourier Analysis and Wavelets and has lots of applications in functional analysis, Operator theory, integral equations, Probability theory and several branches of Physics.

Unit-1

- σ -algebra of sets, limits of sequences of sets, Generation of σ -algebras, Borel σ -algebras, Measure on a σ -algebra, Measurable spaces and measure spaces, Outer measures, construction of Measure by means of outer measure (statement only), Construction of outer measures by means of sequential covering class (statement only).

Unit-2

- Lebesgue measure on R , some properties of Lebesgue measure, Translation invariance of Lebesgue measure, Existence of non-Lebesgue measurable sets, Measurable functions, Operations with measurable functions (without proof), Equality almost everywhere, Sequence of measurable functions

Unit-3

- Lebesgue Integration, Integration of step functions, Approximation theorem (statement only), Lebesgue integral of non-negative functions, Lebesgue integral of measurable functions, Convergence a.e., Almost uniform convergence, Convergence in measure, Convergence in mean, Cauchy sequence in measure (only definitions).
- Statements of following theorems :
Fatous Lemma, Lebesgue monotone convergence theorem, Lebesgue dominated convergence theorem.

Text book:

1. J. Yeh, Lectures on Real Analysis, World Scientific, 2000.

Reference books:

1. M E Munroe, Measure and Integration, 2nd edition, Addison Wesley, 1971.
2. G De Barra, Measure theory and Integration, Wiley Eastern Ltd., 1987.
3. H L Royden, Real Analysis, 3rd edition, Macmillan, New York, 1988.

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Department of Sociology and Social Work
Central University of Jammu

ANNEXURE – III

Date: 24.04.2015

Minutes of the Board of Studies Meeting

Proceedings of the Board of Studies Meeting held on 24-04-15 in the Committee room of TAB, Central University of Jammu.

The following members were present:

➤ Professor L.S. Ghandi Doss	Chairman
➤ Professor R.B. S Verma	External Member
➤ Professor N. U. Khan	External Member
➤ Professor D. P. Singh	External Member
➤ Dr. Digvijoy Phukan	Member
➤ Dr. Nancy Mengi	Member
➤ Mr. Mohd. Uzair	Member

1. All the BoS members had a workshop on the draft syllabus on 23-4-2015 with other stakeholders in Jammu region to discuss and incorporate the relevant suggestions on the syllabus.
2. The syllabus and regulations governing the Master Degree Programme in Social Work (M. A. Social Work- for all semesters) were thoroughly scrutinised and approved for implementation with effect from Academic Session 2015-2016. The detailed syllabus along with the regulations is attached as Annexure-1.
3. The Board approved reservation of 05 seats under Deputation and Sponsored Category with a break up of 03 Seats for Sponsored Candidates and 02 seats for Candidates on Deputation. Such candidates will be given a relaxation of 5% marks in the minimum eligibility condition for admission to M. A. in Social Work. If the number of such applicants is more than the number of available seats, then the admission will be decided on the merit of the qualifying examination and such other conditions as stipulated in the regulations for the purpose.
4. In order for building the capacity of the practitioners in the area of Child Protection/ any other such area which the Department feels appropriate, the Board authorised the Department to initiate any such course.
5. The Board approved the introduction of following fee from the students of M. A. Social Work:
 - Lab Fee: at par with Science students
 - Skill Development Fee: Rs. 1000 per annum per student.
6. The Board of Studies also deliberated on Field work supervision and related issues, especially the conveyance to be used by the supervisors/ faculty members for visiting the respective field work agencies.

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Annexure Page: 27

Signature

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, Department of Sociology and Social Work, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus of 1st semester w.e.f 2015-16. The approved Course Scheme and Syllabus are as under:

SEMESTER-I

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
FOUNDATION COURSE						
PGSSW1F001T	Social Science Foundation for Social Work	4	25	25	50	100
PGSSW1F002T	Psychology for Social Work	4	25	25	50	100
CORE COURSES						
PGSSW1C003T	Social Work Profession	4	25	25	50	100
PGSSW1C004T	Theory and Skills of Working with Individuals	4	40	-	60	100
PGSSW1C005F	Field Work Practicum-I	8	-	-	-	200
Total		24				600


Registrar

Copy to:-

1. Dean, School of Humanities and Social Sciences
2. Head, Department of Sociology and Social Work
3. DR (Examinations)
4. AR (Acad.)
5. Staff Officer to VC
6. PA to Registrar

CENTRAL UNIVERSITY OF JAMMU

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

No: CUJ/Acad/S05/2015/814 - 820


Date: 30.09.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, Department of Sociology and Social Work, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus of 1st semester w.e.f 2015-16. The approved Course Scheme and Syllabus are as under:

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Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
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PGSSW1F001T	Social Science Foundation for Social Work	4	25	25	50	100
PGSSW1F002T	Psychology for Social Work	4	25	25	50	100
CORE COURSES						
PGSSW1C003T	Social Work Profession	4	25	25	50	100
PGSSW1C004T	Theory and Skills of Working with Individuals	4	40	-	60	100
PGSSW1C005F	Field Work Practicum-I	8	-	-	-	200
Total		24				600


Registrar

Copy to:-

1. Dean, School of Humanities and Social Sciences
2. Head, Department of Sociology and Social Work
3. DR (Examinations)
4. AR (Acad.)
5. Staff Officer to VC
6. PA to Registrar

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PGSSWIF001F SOCIAL SCIENCE FOUNDATION FOR SOCIAL WORK

Course Credits: 04
Maximum Marks: 100

Objectives

- To acquaint with basic social science concepts
- To gain scientific understanding of social problems
- To integrate social science concepts to social work theory and practice

Unit No.	Course Contents
Unit I	Sociological Perspectives and Concepts
	<ul style="list-style-type: none"> ▪ <u>Concepts in Sociology</u>: Society, Culture, Socialisation, Social Control, Social Change, Social Groups and Social Construction, Cultural Lag ▪ <u>Foundation of Society</u>: Social Structure and Sub Structure ▪ <u>Institutions for Socialisation</u>: Family, Marriage, Religion, Education, Mass Media, and Norms ▪ The application of sociological concepts in Social Work practice ▪ The application of social anthropological concepts in Social Work practice
Unit II	Social Institutions and Social Groups
	<ul style="list-style-type: none"> ▪ <u>Approaches to society</u>: Functionalist approach, Conflict/ Dialectical approach, Structuralism and Post-modernism ▪ <u>Social Stratification</u>: Marxist, Emile Durkheim, Weberian approaches (Brief Summary) ▪ <u>Power Structure</u>: Formal and Informal ▪ Dalits, Adivasis, Gender and minority groups: Situation analysis and dynamics of change
Unit III	Social Problems
	<ul style="list-style-type: none"> ▪ <u>Social Problems</u>: Evolution and Dimensions ▪ Analysing of social problems using sociological, economic and political concepts ▪ Concept of social deviance ▪ Social structure

	<ul style="list-style-type: none"> ▪ Illiteracy ▪ Casteism, Communalism, Racism, Terrorism and Ethnic Violence ▪ Problems of Youth: Addiction and Alienation ▪ Abuse of Children; Discrimination against Women and Elderly ▪ Unemployment and Poverty
Unit IV	Indian Economy
	<ul style="list-style-type: none"> ▪ Application of economic concepts to analyse local contexts (capital, distribution and consumption) ▪ <u>Overview of Indian Economy</u>: Pre-Globalization and Globalisation ▪ <u>Basic Economic Concepts</u>: Inflation, Deficit Financing, Stagnation, Balance of Payment ▪ Economic Growth and Equity in Development ▪ Human Development and Millennium Development Goals
Unit V	Polity and Governance
	<ul style="list-style-type: none"> ▪ <u>State and Nation</u>: Concept and Historical overview ▪ <u>Indian Constitution and Rule of Law</u>: Rights and Duties ▪ Good Governance, Transparency, Right to Information, Accountability, Charters, Citizen Report Cards ▪ <u>Decentralisation</u>: Urban Bodies and Panchayati Raj Institutions

Suggested Readings:

- | | |
|---|---|
| 1. Ahuja, R.
2014 | Social problems in India
Rawat publication |
| 2. Bakshi, P.M.
2013 | The Constitution of India
Universal Law Publishing |
| 3. Basu, D.D.
2013 | Introduction to the Constitution
Lexisnexis |
| 4. Haralambos, M. & Holborn, M.
2013 | Sociology: Themes and Perspectives
Collins Educational |
| 5. Kapila, U.
2004 | Indian Economy Since Independence
Academic Foundation |
| 6. Kothari, R.
1970 | Caste in Indian Politics
Orient Longmen |

D.S.A. 16

7. Leslie, B. and Lisa, H.
2009
E Governance Managing or Governing
Routledge
8. Mette, A.
2005
Governance
Atlantic Publishers
9. Reddy, S.
2006
Good Governance
IIPA
10. Shah, A.M.
1998
The Family in India: Critical Essays
Orient Longman.
11. Madan, G.R.
2012
Social Problems in India
Allied Publishers Pvt. Ltd.
12. Giddens, A.
2009
Sociology
Polity Press
13. G
Sociological Theory
McGraw Hill

L.S. R.

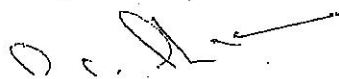
PGSSWIF002T : PSYCHOLOGY FOR SOCIAL WORK

Course Credits: 04
Maximum Marks: 100

Objectives

- Basic concepts and theoretical perspectives in psychology for social work
- Psychology perspective of human behaviour in cultural context
- Application of psychology for social work practice

Unit No.	Course Contents
	Human Growth and Development
Unit I	<ul style="list-style-type: none"> ▪ Psychology for Social Work Practice ▪ Life Span Perspective of Human Development: Developmental Tasks and Hazards in various Life Stages ▪ Social, Emotional and Cognitive Development in Developmental Stages
	Human Personality
Unit II	<ul style="list-style-type: none"> ▪ <u>Personality</u>: Concept and Types ▪ <u>Theories of Personality</u>: Psychoanalytic, Neo-Analytic/Ego, Biological, Behavioural, Cognitive, Trait, Humanistic and Interactionist ▪ Defense Mechanism
	Cognitive Psychology
Unit III	<ul style="list-style-type: none"> ▪ Sensation, Attention, Perception and Memory ▪ Motivation and Emotions ▪ Learning and Intelligence, Learning Disability ▪ Prejudices ▪ <u>Attitude</u>: Nature, Formation and Measurement ▪ Working towards Attitudinal Change
	Social Psychology
Unit IV	<ul style="list-style-type: none"> ▪ <u>Social Psychology</u>: Nature, Scope and Methods of Studying Social Behavior ▪ Social Perception, Schema, Schematic Processing, Attribution ▪ Public Opinion, Biases and Stereotyping ▪ Psychological Testing



	Abnormal Psychology
Unit V	<ul style="list-style-type: none"> ▪ Psychological Disorders: An Introduction ▪ Stress and Burn-out: Causal Factors and Management ▪ Therapy: Concept and Types ▪ Coping Strategies

Suggested Readings:

Loftus, C.T., King, R.A., Weisz, J.R. & Schopler, J. 1993	Introduction to Psychology McGraw Hill Education
Risra, G. 2011	Handbook of Psychology in India Oxford University Press
Thorlock, E. 2012	Developmental Psychology McGraw Hill Education
Wall, C. Lindzey, G. & Campbell, J.B. 1997	Theories of personality Wiley
Witth, E.E. & Kosslyn, S.M. 2007	Cognitive Psychology: Mind and Brain PHI Learning
Mason, I.G. & Sarason, B.R. 2011	Abnormal Psychology PHI Learning
Olson, R.A. 2011	Social Psychology Allyn and Bacon
Prasad, R.K. & Sharma, R. 2013	Social Psychology Atlantic Publishers
Prasad, D.M. 2013	Psychological and Social Instruments Concept Publishing Company
Prasad, N.K. & Seth, S.	The Psychological Realm: An Introduction Pinnacle Learning

Prasad

PGSSWIC003.T : SOCIAL WORK PROFESSION

Course Credits: 04
Maximum Marks: 100

Objectives

- To recapture nature and historical evolution of professional social work in Global and context
- To familiarise and internalise philosophy and core values of professional social work
- To introduce the approaches and areas of professional practice
- To critically evaluate assumptions, philosophy and ideals

Unit No.	Course Contents
Unit I	Conceptual Understanding
	<ul style="list-style-type: none"> ▪ <u>Professional Social Work</u>: Definition, Objectives, Assumptions, Misconceptions and Functions ▪ <u>Profession</u>, Characteristics of a profession and Social Work as a Profession ▪ <u>Basic Concepts</u>: Social Welfare, Social Development, Social Capital, Empowerment, Advocacy, Social Security, Social Justice, Social Policy ▪ Methods, Process and Levels of Social Work
Unit II	Social Work: Historical Perspective
	<ul style="list-style-type: none"> ▪ Evolution of Social Work in Europe and America ▪ Origin and Development of Social Work in India
Unit III	Philosophy and Values
	<ul style="list-style-type: none"> ▪ Evolution of Social Work Practice from charity concept to humanistic perspective ▪ Principles, Ethics and Values of Social Work ▪ <u>Professional associations of Social Work</u>: International, Regional and National
Unit IV	Social Work Practice: Approaches
	<ul style="list-style-type: none"> ▪ <u>Ideologies and Social Work Practice</u>: Marxian, Gandhian, Ecological, Spirituality, Feminist and Rights Perspective ▪ <u>Approaches to Social Work Practice</u>: Task-Centered, Systemic, Evidence-Based and Unitary Approach ▪ Radical Social Work and Social Action

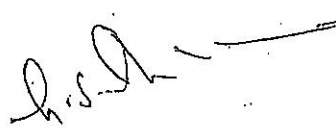
Social Work Practice: Areas, Scope and Thrust

Unit V

- Health and Mental Health, Occupational Social Work
- Family and child welfare, School Social Work
- Disability sector
- Social Defence
- International Social Work

Suggested Readings:

- | | |
|--|---|
| 1. Social work practice- A Generalist Approach
2010 | Johnson, L.C. & Yanca, S.J.
Pearson Education Inc. |
| 2. Ideologies and Social Work
2015 | Desai, M.
Rawat Publications |
| 3. Social work and Social Work Education
2011 | Gore, M.S.
Rawat Publications |
| 4. Social Work
2013 | Davies, M.
Wiley- Blackwell |
| 5. Social work- An integrated approach
2012 | Bhattacharya, S.
Deep and Deep Publications |
| 6. Social work skill- a practice Handbook
2009 | Trevithick, P.
Rawat Publications |
| 7. Social work values and ethics
1999 | Reamer, F.G.
Rawat Publications |
| 8. What is professional social work
2007 | Payne, M.
Rawat Publications |
| 9. An invitation to Social theory
2012 | Inglis, D.
Polity Press |
| 10. Fields of Social Work Practice
2010 | Gunjal, B.S.
Vishwas Prints |



PGSSW1C504T : THEORY AND SKILLS OF WORKING WITH INDIVIDUALS

Course Credits: 04
Maximum Marks: 100

Objectives

- To introduce social casework as a method of social work
- To learn the process application of social casework practice
- To understand the process of counseling
- To develop competencies and skills

Unit No.	Course Contents
Unit I	Social Casework: Concept
	<ul style="list-style-type: none"> ▪ <u>Social Casework</u>: Definition and Historical Development ▪ Scope and Principles of Social Casework ▪ <u>Social Case Work Process</u>: Intake, Study, Assessment (Diagnosis), Intervention (Treatment), Evaluation and Termination ▪ Use of Casework in Group work and Community Organization
Unit II	Social Casework Relationship
	<ul style="list-style-type: none"> ▪ Social Casework Techniques ▪ Use of Relationship, Transference and Counter Transference and their significance, Use of Authority ▪ <u>Culture aligned Social Casework Practice</u>: Spirituality, Fine Arts and Performing Arts ▪ <u>Client System</u>: Direct and Indirect Clients, Voluntary and Involuntary Clients, Hard-to-reach Clients, Target and Tangential Clients, Agreement or Contracting, Enabling and Empowering, Crisis Intervention
Unit III	Models of Social Casework: Summary
	<ul style="list-style-type: none"> ▪ <u>Models of Case Work Practice</u>: Problem Solving Model, Psycho-social Model, Functional Model, Socialisation Model, Developmental Model, Intervention Model, Social Behavioral Model, Communication Model, Client-Centered Model, Therapy Model, Cognitive Model, Ecological Model, Feminist Model, Existential Model, Task-Centred Model and Empowerment Model

	Social Casework Process Structure
Unit IV	<ul style="list-style-type: none"> ▪ <u>Supportive Techniques</u>: Observation, Interview, Home-Visit, Resource Mobilisation, Referral and Collateral Contacts ▪ <u>Problem Solving Techniques</u>: Verbal and Non-verbal, Reflective and Logical Discussion ▪ <u>Types and Formats of Recording</u>: Process, Narrative and Summary ▪ Use of Recording in Social Casework ▪ Supervision in Social Casework ▪ Understanding Self and Professional Self
	Social Casework in Different Settings
Unit V	<ul style="list-style-type: none"> ▪ <u>Casework practice in different settings</u>: Educational, Health, Career Guidance, Community, Correctional and Disability ▪ <u>Casework and Information Technology</u>: Tele-Help lines, Tele-care, Internet Chat room Assistance and Online Therapy

Suggested Readings:

- | | |
|--|--|
| 1. Hamilton, G.
2013 | Theory and Practice in Social Case work
Rawat Publications |
| 2. Mathew, G.
1993 | An Introduction to Social Case Work
TISS |
| 3. Upadhyay, R.K.
2014 | Social Case Work
Rawat Publications |
| 4. Perlman, H.H.
2011 | Social Case Work- A Problem Solving Approach
Rawat Publications |
| 5. Johnson, L.C. & Yanca, S.J.
2010 | Social work practice- A Generalist Approach
PHI Learning |
| 6. Biestek, F.
1961 | The Case Work Relationship
Allyn and Bacon |
| 7. Hollis, F.
1964 | Casework: A Psychosocial Therapy
McGraw Hill |
| 8. Ramakrishnan, P.K.
2013 | Social Work Counselling
Black Prints. |
| 9. R.L. Gibson, M.H. Mitchel | Introduction to Counseling & Guidance |

2014
10. Healy, K.
2012

PIII Learning Pvt. Ltd.
Social Work Methods and Skills
Palgrave MacMillan

K.S.D.

Rahya Suchani-Bagla (Distt. Samba, Jammu- 181143)

No: CUJ/Acad/S05/2015/949-54

Date: 3.11.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, Department of Sociology and Social Work, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus of 2nd, 3rd and 4th semester w.e.f 2015-16. The approved Course Scheme and Syllabus are as under:

SEMESTER-II

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGSSW2C001T	Theory and Skills of Working with Groups	4	25	25	50	100
PGSSW2C002T	Theory and Skills of Working with Communities	4	25	25	50	100
PGSSW2C003T	Research Methodology and Computer Applications.	4	25	25	50	100
PGSSW2C004T	Social Legislations	2	10	15	25	50
PGSSW2C005T	Social Justice and Human Rights	2	10	15	25	50
PGSSW2C006F	Field Work Practicum-II	8	-	-	-	200
Total		24				600

SEMESTER-III

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGSSW3C001T	Management of Development Organisations	4	25	25	50	100
PGSSW3C002T	Social Work Practice with Family and Children	4	25	25	50	100
PGSSW3C003F	Field Work Practicum-III	8	-	-	-	200
ELECTIVE COURSES						
PGSSW3E001T	Rural and Urban Community Development	4	25	25	50	100
PGSSW3E002T	Equity, Diversity and Inclusiveness	4	25	25	50	100
PGSSW3E003T	Social Policy and Social Development	4	25	25	50	100
INTERDISCIPLINARY COURSE						
	University-wide elective courses offered by other departments	4	25	25	50	100
Total		24				600

INTERDISCIPLINARY COURSE (to be offered to other departments)						
PGSSW3 I 001T	Life Skill Education	4	25	25	50	100

Handwritten mark

Rahya Suchani-Bagla (Distt. Samba, Jammu- 181143)

SEMESTER-IV

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGSSW4C001T	Health and Mental Health	4	25	25	50	100
PGSSW3C002T	Gender and Social Work	2	10	15	25	50
PGSSW4C003T	Social Work with Persons with Disability	2	10	15	25	50
PGSSW4C004T	Social Work with Older Persons	2	10	15	25	50
PGSSW4C005F	Field Work Practicum-IV	8	-	-	-	200
PGSSW4C006F	Field Work Practicum-V (Block Placement Internship)	2	-	-	-	50
ELECTIVE COURSES						
PGSSW4E001T	Sustainable Development, Environment and Livelihoods	4	25	25	50	100
PGSSW4E002T	Crime, Criminology and Penology	4	25	25	50	100
PGSSW4E003D	Dissertation	4	-	-	-	100
INTERDISCIPLINARY COURSE						
	University-wide elective courses offered by other departments	4	25	25	50	100
Total		28				700

INTERDISCIPLINARY COURSE (to be offered to other departments)						
PGSSW4I001T	Counselling	4	25	25	50	100

Registrar

Encl: As above

Copy to:-

1. Dean, School of Humanities and Social Sciences
2. Head, Department of Sociology and Social Work
3. DR (Examinations)
4. AR (Acad.)
5. Staff Officer to VC
6. PA to Registrar

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SYLLABUS: SEMESTER 2

PGSSW2C001T: THEORY AND SKILLS OF WORKING WITH GROUPS	
Course Credits: 04 Maximum Marks: 100	
Objectives	
<ul style="list-style-type: none"> ▪ To introduce social group work as a method of social work ▪ To map the process of group experience and personality development ▪ To develop competencies and skills for working with different groups in various practice settings ▪ To enable the students to work with group dynamics 	
Unit No.	Course Contents
Unit I	Concept and Formation
	<ul style="list-style-type: none"> ▪ <u>Social Groups</u>: Groups Definitions, characteristics, functions and group structure Identity, diversity and issues ▪ <u>Social Group Work</u>: Definition, objectives, scope, attributes ▪ Historical evolution of Social Group Work ▪ Principles and Values of Social Group Work
Unit II	Group Process and dynamics
	<ul style="list-style-type: none"> ▪ <u>Process of group formation</u>: Socio-psychological factors in group formation ▪ Nurturing 'We' feeling through purposeful group interaction, Team Building ▪ <u>Group Development</u>: Meaning, indicators, stages/phases ▪ Sub-Group Formation, Cliques, Individualisation in the Group ▪ <u>Techniques of Group Work</u>: Acceptance, Recognition, Loving, Sharing, Playing, Helping and Limiting ▪ <u>Programme planning in Group Work</u>: concept, principles, programme media, programme content, programme development process, resources for programmes
Unit III	Group Dynamics
	<ul style="list-style-type: none"> ▪ <u>Group Dynamics</u>: Intra and Inter-group Communication, Support and Conflict, Decision Making and Problem Solving ▪ Leadership ▪ <u>Models of Social Group Work Practice</u>: Remedial, Mediating or Reciprocal, Developmental, Social Goal Model and Consensus Model

	<ul style="list-style-type: none"> ▪ Therapeutic Group Work
Unit IV	Functions and Skills
	<ul style="list-style-type: none"> ▪ Recording, Evaluation and Termination in Social Group Work ▪ <u>Group Worker Roles</u>: Focusing on values in programmes and events - Enabler, stimulator, supporter, guide, educator, resource person, therapist and supervisor
Unit V	Group Work in Diverse Settings
	<ul style="list-style-type: none"> ▪ Structured application of group work in organisational settings ▪ Educational institutions ▪ Institutional setting-child. Family. Corrections, youth. Deviance ▪ Community ▪ Scope and limitations of group work practice in India

Suggested Readings:

- | | | |
|-----|---|---|
| 1. | Bhattacharya, S.
2008 | Social Work an Integrated Approach
Deep & Deep Publications |
| 2. | Charles, H. Z.
2009 | Social Work With Groups
Cengage Learning India |
| 3. | Corsini, R. J.
2004 | Current Psycho Therapies with Case Studies.
Wadsworth Publications |
| 4. | David, C., Douglas, R.G. & Mark, D.S.
2010 | Introduction To Group Work
Rawat Publication |
| 5. | Gravin, C. D., Lorraie M.G. (Ed.)
2007 | A Hand Book of Social Work with Groups
Rawat Publications |
| 6. | Konopka, G.
1983 | Social Group Work: A Helping Process
Prentice Hall International |
| 7. | Siddiqui, H.Y.
2008 | Group Work: Theories and Practices
Rawat Publication |
| 8. | Toseland and Rivas
1955 | An Introduction to Group Work Practice
Allyn and Bacon. |
| 9. | Trecker, H.B. 1972 | Social Group Work: Principles and Practices.
New York: Association Press |
| 10. | Wilson, G and Raylands, G.
1989 | Social Group Practices
Houghton Mifflin |

PGSSW2C002T: THEORY AND SKILLS OF WORKING WITH COMMUNITIES	
Course Credits: 04 Maximum Marks: 100	
Objectives	
<ul style="list-style-type: none"> • To understand and analyse community as a dynamic entity • To introduce community organisation as a method of social work • To develop competencies and skill to work with communities • To enable the students to apply participatory approach for community work 	
Unit No.	Course Contents
Unit I	Community: Concept and Dynamics
	<ul style="list-style-type: none"> ▪ <u>Community</u>: Concept, Definitions, Types - Rural, Tribal and Urban Community ▪ Mapping socio-economic changes in the current context ▪ Identity issues, Social Inclusion and Exclusion ▪ Community power structure, leadership and dynamics
Unit II	Community Organisation
	<ul style="list-style-type: none"> ▪ <u>Community Organisation</u>: Meaning, values, principles ▪ <u>Approaches to community organisation</u>: Indigenous and worldwide ▪ Steps in community organisation ▪ Models, Process, Techniques and Strategies ▪ Roles of Social Worker: Guide, Communicator, Expert, Councilor, Consultant, Model, Mediator, Enabler, Facilitator ▪ Skills in community work ▪ Community organisation for community development
Unit III	Community Participation and Mobilisation
	<ul style="list-style-type: none"> ▪ <u>People Participation</u>: Concept, Importance, Techniques of facilitating Participation ▪ Community Mobilisation and Advocacy in Rural and Urban Community ▪ Community Mobilisation of Marginalised groups ▪ Community Mobilisation for Disaster preparedness
Unit IV	Skills for Community Work

	<ul style="list-style-type: none"> ▪ Participatory Rapid/Rural Appraisal, Participatory Learning Approach. ▪ Resource Mobilisation, Building Community Leadership ▪ Conflict Resolution, Stakeholder Discussion and Negotiation ▪ Networking, Training and Capacity Development ▪ Recording in Community Work ▪ Best practices in community work: Case Studies
Unit V	Social Action
	<ul style="list-style-type: none"> ▪ <u>Social Action</u>: Concept, Principles, Strategies and Tactics ▪ <u>Models of Social Action</u>: Legislative, Sanction, Direct Physical and Conscientisation ▪ <u>Social Action and Social Movement</u>: Similarities and Differences ▪ <u>Social Movements</u>: Causes, Processes, and Outcomes, ▪ <u>New Social Movements</u>: Causes and Processes

Suggested Readings:

1. Freire, P. 1997 Pedagogy of the oppressed
New Delhi
2. Jodhka, S. 2013 Community and identities
Sage Publishers
3. Meenai, Z. 2007 Participatory Community work
Concept publications
4. Oomen T.K. 2015 Social Movements 1
Oxford University Press
5. Pyles, Loretta 2014 Progressive Community Organising
Routledge Publishers
6. Rao, M.S. 2000 Social Movements in India
Manohar Publishers
7. Ross, M G. 1967 Community Organization: Theory, Principles, and Practice
Harper & Row
8. Rothman, J. 1970 Three Models of Community Organization Practice: Strategies of
Community Organization
Columbia University Press
9. Siddiqui, H.Y. 1997 Working with Communities
Hira Publications
10. Singh, K.S. 2006 Tribal Movements in India
Manohar Publishers



PGSSW2003T: RESEARCH METHODOLOGY AND COMPUTER APPLICATIONS

Course Credits: 04
Maximum Marks: 100

Objectives

- To discern the importance of research in social work
- To acquaint students with the use of computer applications for research
- To develop analytical and report writing skills
- To acquaint student in the use of computer applications for data analysis

Unit No.	Course Contents
Unit I	Social Work Research <ul style="list-style-type: none"> ▪ <u>Scientific Method</u>: Meaning, Characteristics and Logical Sequence ▪ <u>Social Work Research</u>: Nature, Scope and Significance ▪ <u>Types of Research</u>: Quantitative, Qualitative and Mixed Method; Historical Research ▪ Ethics in Social Work Research
Unit II	Scientific Approach to Social Science Research <ul style="list-style-type: none"> ▪ <u>Research Design</u>: Phases and Types - Exploratory, Explanatory, Descriptive, Experimental and Case Study ▪ <u>Statistical Data</u>: Census, Sampling Methods ▪ <u>Tools of Data Collection</u>: Interview Schedule, Questionnaire ▪ Scales and Testing ▪ Collection of Data, Analysis, Interpretation and Discussion ▪ Report Writing, Case Record
Unit III	<ul style="list-style-type: none"> ▪ <u>Descriptive Statistics</u>: Measures of Central Tendency and Measures of Dispersion ▪ Correlation and Regression Analysis ▪ Tests of Significance- t-tests and Chi Square Tests
Unit IV	Qualitative Research Methods <ul style="list-style-type: none"> ▪ <u>Qualitative and Quantitative Research</u>: Similarities and Differences ▪ <u>Methods of Qualitative Research</u>: Observation, In-Depth Interview, Case Study, Focus Group Discussion ▪ Participatory Action Research ▪ Content Analysis

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Computer Applications

Unit V

- Introduction to various Computer-based Applications for Quantitative and Qualitative Analysis- MS Excel, SPSS
- Computer based Coding, Generation of Database, Data Entry, Preparation of Tables and Graphs
- Computation of Statistical Results

Suggested Readings:

1. Kumar, R. beginners 2011
Research Methodology: a step-by-step guide for
Sage Publications
2. Rubin, A. & Babbie, E. 2011
Methodology for Social Work Research
Cengage Learning
3. Laldas, D.K. 2014
Practice of Social Research
Rawat Publications
4. Silvevan, D. 2011
Qualitative Research
Sage Publications
5. G. Guthrie 2010
Basic Research Methods: An Entry to Social Science
Research
Sage Publications
6. Gupta, S.C. 2013
Fundamentals of Statistics
Himalaya Publishing House
7. Gaur, S.S. & Gaur, A.S. 2009
Statistical Methods for Practice and Research
Response Publishers
8. Flick, U. 2011
Introducing Research Methodology
Sage Publications
9. Srivastava, V.K. 2004
Methodology & Fieldwork
Oxford University Press
10. Freedman, D. & Pissan, R. Purves, R. 2009
Statistics
Viva Books Pvt. Ltd.



PGSSW 2004T : SOCIAL LEGISLATIONS	
Course Credits: 02 Maximum Marks: 50	
Objectives	
<ul style="list-style-type: none"> • To learn the purpose of social legislations and legal system in India • To acquaint with the legal mechanisms available for different vulnerable groups • To promote awareness on Rule of Law 	
Unit No.	Course Contents
Unit I	Concept and Nature of Social Legislation
	<ul style="list-style-type: none"> ▪ <u>Social Legislation</u>: Meaning and Impact of Social Reform Movement on Legislation ▪ <u>Indian Legal System and its Operational Instruments</u>: IPC, CrPC, CPC, RPC ▪ Social Legislations in Jammu and Kashmir
	Social Legislations Salient Features
Unit II	<ul style="list-style-type: none"> ▪ Legislations pertaining to Women in India ▪ Legislations related to Scheduled Castes, Scheduled Tribes, Bonded Labour, Migrant workers ▪ <u>Legislations related to Vulnerable Groups</u>: Persons with Disability, Child Labour, Workers in the Unorganised Sector, Commercial Sex Workers
	Citizen Centric Legislations
Unit III	<ul style="list-style-type: none"> ▪ Legal Aid, Legal Advocacy and Public Interest Litigation ▪ Consumer Protection Act (1986), Right to Information Act (2005) ▪ Role of Professional Social Workers in Legal Aid and Legal Literacy

Suggested Readings:

- | | |
|-------------------------|---|
| 1. Gangrade, K.D. | Social Legislations in India – Vol I
Concept Publishing Company |
| 2. Gangrade, K.D. | Social Legislations in India – Vol II
Concept Publishing Company |
| 3. Bakshi, P.M.
2013 | The Constitution of India
Universal Law Publishing |
| 4. Base, D.D.
2012 | Introduction to the Constitution of India
Lexis Nexis |

5. Universal's Legal Manual
2014
Criminal Manual
Universal Law Publishing
6. Clayton, M., & Williams, A. (eds)
2004
Social Justice
Blackwell Publishers
7. Singha, P.N.
2004
Industrial relations, trade unions and labour legislation
Pearson
8. Dubois, B. & Miley, K.K.
2002
Social Work: An Empowering Profession
Allyn and Bacon
9. Diwan, P. & Diwan, P.
2005
Family Law: Hindus, Muslims, Christians, Parsis and Jews
Allahabad Law Agency
10. Naib, S.
2013
The Right to Information in India
Oxford University Press

S. S. Naib

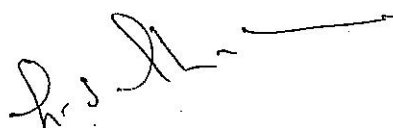
PGSSW2005T: SOCIAL JUSTICE AND HUMAN RIGHTS

Course Credits: 02
Maximum Marks: 50

Objectives

- To know the concepts of social justice and empowerment
- To interpret the context of human rights for various marginal groups
- To acquaint with the emergence of rights based perspective in social work practice

Unit No.	Course Contents
Unit I	Social Justice and Human Rights
	<ul style="list-style-type: none">▪ <u>Social Justice</u>: Concept and History▪ Social Justice as a core value of social work profession▪ <u>Human Rights</u>: Concept and history▪ Human Rights Declarations, Treaties and Conventions
Unit II	Development and Human Rights
	<ul style="list-style-type: none">▪ Development, Human Rights and Social Work▪ Human rights and marginalised in India and worldwide: (Children, Women, Minorities, Indigenous population, Refugees, Dalits, Persons with disability, Slum dwellers)▪ <u>Human Rights and Globalisation</u>: Labour; Development, Hunger, Poverty, Migrant workers and Labour rights.
Unit III	Human right issues and right based approach
	<ul style="list-style-type: none">▪ Human Rights and Protection Systems (The United Nations, National Human Rights Commission, International human rights agencies,▪ Human rights perspective in social work practice: ethnic sensitive practice, feminist practice, social work with diverse groups▪ Social work practice with victims of human rights violations▪ <u>Rights-based Approach</u>: Need for Rights-based Approach, History, Scope, Analysis, ethical issues involved



Suggested Readings:

1. Bakshi, P.M.
2013
The Constitution of India.
Universal Law Publishing
2. Base, D.D.
2012
Introduction to the Constitution of India
Lexis Nexis
3. Baxi, U.
2008
The Future of Human Rights
Oxford University Press
4. Mangibhai, J.P.
2014
Human Rights as Practice
Oxford University Press
5. Michael, G.
2013
Human Rights
Ashford Colour Press
6. The World Bank & OECD
2013
Integrating Human Rights into Development
World Bank
7. Reichert, E.
2003
Social Work & Human Rights: A Foundation for Policy and
Practice
Columbia University Press
8. SAHRDC
2014
Handbook of Human Rights and Criminal Justice in India
Oxford University Press
9. Clayton, M., & Williams, A.
2004
Social Justice
Blackwell Publishers
10. Mishra, L.
2011
Human Bondage
Sage India

L. S. A.

SYLLABUS: SEMESTER 3

PGSSW3C027: MANAGEMENT OF DEVELOPMENT ORGANISATIONS

Course Credits: 04
Maximum Marks: 100

Objectives

- To orient students to the basic concepts of management and administration.
- To develop skills in the formulation and management of development projects
- To acquaint students with the relevance of civil society and development organizations
- To enable students to design and operate development organizations.

Unit No.

Course Contents

Conceptual Understanding

Unit I

- Social Welfare Administration: Definition and Scope
- Related Concepts: Social Administration, Social Service Administration, Social Security Administration, Social Welfare Administration, Public Administration, Development Administration
- Social Welfare Administration in Public Organisations: MoSJE, MoWCD, CSWB

Principles of Administration

Unit II

- Policy Making, Planning, Organising, Staffing, Directing, Decision-making, Coordination, Communication, Reporting, Budgeting, Evaluation and Feedback
- Office Management: Budget Operation, Legal Compliances, Documentation, Filing and record maintenance, Ergonomics, Transparency and Accountability of the Development Organisation
- Fund Raising, Resource mobilization, Social Marketing

Civil Society and Development Organisations

Unit III

- Types of Development Organisations: Civil Society Organisations, Community Based Organisations, Peoples' Organisation, Voluntary Organisations, Non Governmental Organizations
- Development Organisations in the changing context
- Government Policy for the Voluntary Sector

Legal avenues for Formation of Development Organisations

Unit IV

- Organisational Planning: Development of Vision, Mission, Goals, Objectives and Structure

	<ul style="list-style-type: none"> ▪ <u>Legislative Framework</u>: The Societies Registration Act (1860), The Public Trust Act (1882), Section 25A of The Companies Act (1956), The Co-operative Societies Act (1912), Sections 12A and 80G of The Income Tax Act (1961) ▪ <u>Foreign Funding</u>: Application, Procedure and Foreign Contribution Regulatory Act (2010)
Unit V	Structure of Social Welfare Administration
	<ul style="list-style-type: none"> ▪ Administrative structures (GO)-Central, state and local levels ▪ Administrative structures of NGOs engaged in welfare and development services ▪ Organisation and management of institutional welfare services

Suggested Readings:

- | | |
|---|---|
| 1. Goel, S.L.
2010 | Social Welfare Administration
Deep & Deep Publications |
| 2. Kaushik, A.
2012 | Welfare and development administration in India
Academic Foundation |
| 3. Rao, T.
2000 | Office Organization and Management
Atlantic Publishers and Distributors |
| 4. Rao, M.F.T
2000 | Office Organisation and Management
Atlantic Publishers |
| 5. Banerjee, G.
2001 | Laws relating to foreign contribution in India
Commercial Law Publishers |
| 6. Eade, D.
2005 | Development, NGOs and Civil Society
Rawat Publications |
| 7. Sooryamoorthy, R. & Gangrade, K.D.
1989 | NGOs in India
Rawat Publications |
| 8. Chandra, S.
2007 | Non-Governmental Organizations: Structure, Relevance and Function
Kanishka Publishers |
| 9. Pawar, S.B., Ambedkar, J.B., & Shrikant, D
2004 | Non-Governmental Organizations and Development: The Indian Scenario
Rawat Publications |
| 10. Brown, W. A.
2015 | Strategic Management in Non-Profit Organisation
Jones & Bartlett Learning |

PASSW3C502.T: SOCIAL WORK PRACTICE WITH FAMILY AND CHILDREN

Course Credits: 04
Maximum Marks: 100

Objectives

- To learn the dynamics of families
- To analyse and design programmes to meet the challenges impacting family life
- To learn the important concepts in child welfare
- To map children in difficult circumstances and rights-based approach

Unit No.	Course Contents
	Concept and approaches
Unit I	<ul style="list-style-type: none"> ▪ <u>Family</u>: Importance, Structure, Functions, Types of families ▪ Stages of Family Life ▪ <u>Families in Transition</u>: Family Disorganisation and Family Problems Family Dynamics and family interaction patterns ▪ Systems theory framework to describe family ▪ Family welfare approaches, therapies and techniques ▪ Family Welfare Policy and Programmes
	Family Social Work
Unit II	<ul style="list-style-type: none"> ▪ Family case work ▪ Family life education ▪ Home management ▪ Life-Work Imbalance affecting Family Life ▪ Family Counseling ▪ Family Courts
	Child Development Concerns
Unit III	<ul style="list-style-type: none"> ▪ Introduction and definition of a child. ▪ Demographic characteristics of children in India ▪ Child Development needs ▪ Theories of social, psychological, moral and sexual development of children and adolescents ▪ <u>Approaches</u>: Child Centred Model, Behaviour Modification Model and Gestalt Process of Counselling

	<ul style="list-style-type: none"> ▪ <u>Child Labour: Causes and Legislative Support</u>
Unit IV	Children in Difficult Circumstances
	<ul style="list-style-type: none"> ▪ Children in crisis/Vulnerable/ "at risk" groups: street children, children with disabilities, trafficking of children, child beggars, child prostitution, children of migrant families, Dalit children, children and families with HIV/AIDS ▪ <u>Children in difficult circumstances</u>: Children as victims of conflicts, natural disasters, displacement, ▪ Children in conflict with law, children engaged in substance abuse, victims of child abuse and children in conflict zones
Unit V	Child Rights and Entitlements
	<ul style="list-style-type: none"> ▪ <u>International perspective on child protection</u>: UNICEF, UN Convention on Child Rights • <u>Legislative provisions for children in India (Salient features)</u>: PNDT Act, Child Labour Act, JJ Act, Child Marriage Act, Immoral traffic Act, Right to Education Act, POSCO Act • <u>Programmes and policies for child welfare</u>: SSA, ICDS, ICPS, CARA, NCPCR ▪ <u>Supportive services</u>: Foster Care, Shelter Homes, Observation homes, Child guidance clinics, Adoption, Sponsorship, School Social work, Family assistance, Community centres, Juvenile guidance bureaus, family counselling centres, child guidance clinics

Suggested Readings:

- | | |
|----------------------------|---|
| 1. Shah, A.M.
1998 | The Family in India
Orient Blackswan |
| 2. O' Loughlin, M.
2012 | Social work children & families
Sage Publications |
| 3. Davis, M.
2012 | Social work children & families
Palgrave Macmillan |
| 4. Zastrow, C.H
2013 | The practice of Social work
Cengage Learning |
| 5. Shah, A.M.
2014 | The households in India
Orient Blackswan |

6. Sleeter, C.

1998

School Education, Pluralism and
Marginality
Orient Blackswan

7. Das, S.

2010

Differential childhood
Concept Publishing Company

8. Unwin

2012

Effective Social Work with children and
families
Sage Publications

9. James

2012

Key concepts in childhood studies
Sage Publications

10. Walker

2012

Effective social work with children,
young people and families
Sage Publications

11. Harper

2012

Rescuing Railway children
Sage Publications

12. UNICEF

2014

The Infant and Child Mortality India
UNICEF

13. UNICEF

2012

Progress for Children
UNICEF

14. UNICEF

2013

Preventive Strategies for Child Protection
UNICEF

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PASSW3 E601T : RURAL AND URBAN COMMUNITY DEVELOPMENT	
Course Credits: 04 Maximum Marks: 100	
Objectives	
<ul style="list-style-type: none"> • To master the concept of Urban and Rural community development • To provide understanding of various challenges in developing urban and rural community • To develop an insight on the policies, programmes and interventions by Governmental and Non- Governmental Organisations 	
Unit No.	Course Contents
Unit I	Rural Communities
	<ul style="list-style-type: none"> ▪ Anthropological Perspectives of Rural and Tribal Community ▪ <u>The Village</u>: Anthropological and Social perspectives ▪ <u>Rural Society</u>: Caste, Class, Tribe; Power and Changing Dynamics ▪ <u>Rural Development</u>: History, Concept and Philosophy ▪ <u>Determinants of Rural Development</u>: Internal and External
Unit II	Rural Development and Interventions
	<ul style="list-style-type: none"> ▪ Poverty, Health, Sanitation, Migration, Employment, ▪ <u>Rural Mobilisation</u>: Concept, agrarian movements, Cooperatives, Green Revolution, White Revolution (Cooperative Approach) ▪ Panchayati Raj and Development Programmes (73rd Amendment) ▪ <u>Rural Development Policies and Programmes impact and analysis</u>: Selected case studies of the Government programmes: Livelihood, Education, Health, Skill Development, Sanitation, Land Acquisition ▪ <u>Rural Community Development</u>: Rural Credit and Rural Debt
Unit III	Understanding Urban Community
	<ul style="list-style-type: none"> ▪ Sociology of urban community, characteristics, types ▪ Urbanisation in India ▪ <u>Urbanisation in India</u>: Trends and patterns ▪ Urban planning: City and town planning, role of Urban Governance ▪ Slums: concept, factors contributing to urban poor and habitat programmes ▪ Multiculturalism and diversity

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	The Urban Poor
Unit IV	<ul style="list-style-type: none"> ▪ Housing, Health, Sanitation, Education and Livelihood ▪ Issues of rehabilitation and resettlement ▪ Urban poverty reduction and elimination ▪ Urban poor: Identity and location, Issues of citizenship, Urban basic services for the poor, Challenges and options for the urban poor
	Urban Community Development: Strategies and Interventions
Unit V	<ul style="list-style-type: none"> ▪ Urbanisation and Urban Development: Policies and Programmes, ▪ Urban Governance and Urban Bodies (74th Amendment) ▪ Public Private Partnership in Urban Development ▪ Urban Development Programme impact and analysis: National Urban Renewal Mission, Urban Infrastructure Development Scheme for Small & Medium Towns (UIDSSMT), North-Eastern Region Urban Development Programme (NERUDP), Pooled Finance Development Fund Scheme

Suggested Readings:

- | | |
|-----------------------------|--|
| 1. Arvind, K.
1999 | Social inequalities in rural areas
Anmol publications |
| 2. Bhattacharya, B.
2006 | Urban development in India.
Concept publishing company |
| 3. Blackshaw, Tony | Key concepts in Community Studies
Sage Publications |
| 4. Boraian, P.M.
2005 | Participatory rural appraisal
Concept publishing company |
| 5. Byrne, D.
2009 | Social Exclusion
Rawat Publications |
| 6. Chitrlekha
2012 | Ordinary People extraordinary violence
Routledge Publishers |
| 7. Dasgupta, A.
2011 | Minorities and the state
Sage Publications |
| 8. Desai, A. R. | Rural Sociology in India |

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- 2012 Popular Prakashan
9. Desai, T.K.
2013 A textbook of rural development
Arise Publishers
10. Katar, S.
2009 Rural development principles, policies and
management.
Sage publication
11. Margaret, L.
2006 Community development.
Rawat publication
12. Reddy, Sanjeev
2006 Good Governance
IIPA
13. Thudipara. Z.
2013 Urban community development.
Rawat publication

R.S.D.

PGSSW3E002T : EQUITY, DIVERSITY AND INCLUSIVNESS

Course Credits: 04
Maximum Marks: 100

Objectives

- To develop concern for the equity, inclusiveness and diversity in India.
- To understand Governmental and Non-Governmental efforts in empowerment and development of marginalised section in India.
- To understand the scope of social work intervention in working for marginalised sections

Unit No.

Course Contents

Equity and Inclusiveness

Unit I

- Concepts: Diversity, Equity and Inclusiveness
- Forms of social exclusion: Groups at the risk of being excluded- religious, racial, caste, gender, ethnic, class, regional, cultural, language, disabled, migrant and refugee
- Selective case study for anti-caste movements in India

Schedule Castes/Dalits

Unit II

- Politics of caste: Caste in Indian democracy and identity politics, social movements for anti-casteism
- Status of Dalits in India: Inequalities in access (Literacy, Health, Employment, Population, Sex Ratio)
- Contemporary Dalit Movements, Subaltern approach to study caste
- Constitutional Safeguards, Schemes for the Welfare/Development of Scheduled Castes in India: State sponsored schemes and Central Sponsored Schemes

Scheduled Tribes/Adivasis

Unit III

- Issues of Schedule Tribes/Adivasis in India: Marginalisation, Displacement, Class formation among tribal
- Constitutional Safeguards, Schemes for the Welfare/Development of Scheduled Tribes: State sponsored schemes and Central Sponsored Schemes
- Status of Tribal in India: Inequalities in access (Literacy, Health, Employment, Population, Sex Ratio)
- Poverty and the disparity between Adivasis and non Adivasis
- Contemporary Approaches to Tribal Empowerment, Role of Civil Society Organizations

Unit IV	Social Exclusion-Dimensions
	<ul style="list-style-type: none"> ▪ Minority-definitions, forms and debates: Numerical inferiority, Political relationship, Minorities and democracy ▪ Type and composition of minorities- religious, gender, caste and linguistic ▪ <u>Religious and ethnic Minorities</u>: Regional Concentration of minorities ▪ <u>Minorities in India</u>: Political Mobilisation, Participation in Public and Private Sectors, Diversity of the Minorities: Causes and Impact
Unit V	Social Exclusion: Religious, Cultural and Minorities
	<ul style="list-style-type: none"> ▪ <u>Poverty incidence of minorities</u>: Poverty elimination programmes for Minorities ▪ Gender: Issues of exclusion and inclusion ▪ <u>Disability and exclusion</u>: Inequalities in access ▪ Safeguards for Women and disabled ▪ LGBT

Suggested Readings:

- | | | |
|----|-----------------------|--|
| 1. | Byrne, David
2009 | Social Exclusion
Rawat Publications |
| 2. | Grusky, D. B.
2014 | Social Stratification: Class, Race And
Gender In Sociological Perspective
Westview Press |
| 4. | Kannan, P.
2008 | Scheduled Caste Welfare
APH Publishing Corporation |
| 5. | Kothari, R.
2014 | Politics In India
Orient Blackswan Private Limited |
| 6. | Lal, V.
2013 | Modern Indian society
Oxford university press |
| 7. | Pandey, R.
1997 | Minorities in India protection and
welfare
APH publishing corporation. |
| 8. | Rajan, I. S.
2011 | Migration, identity and conflict
Routledge publication |

9. Sharma, K.L.
2011

10. Tandon, R.
2007

Social Inequality In India
Rawat Publication

Citizen Participation and Democratic
Governance: In our Hands
Concept Publishing Company



PSSWB E 603T: SOCIAL POLICY AND SOCIAL DEVELOPMENT

Course Credits: 04
Maximum Marks: 100

Objectives

- Social policy concepts.
- Develop analytical and critical understanding to analyse and evaluate social policies and its impact
- To learn the relationship between policies programmes and development

Unit No.	Course Contents
Unit I	Conceptual framework
	<ul style="list-style-type: none">▪ <u>Social Policy</u>: Concept, objectives, Evolution of social policy in India (DPSP, Planning Commission / NITI Ayog)▪ <u>Approaches to social policy</u>: Welfare, development and rights based approach▪ <u>Models of Social Policy</u>: Residual welfare, unified, integrated, sectoral, industrial achievement and institutional redistributive model.▪ <u>Social Policy Formulation Process</u>: Contribution of research, interest groups, Public Hearing/Bal Panchayat/Pani Panchayat, Interest Groups and role of professional social worker
Unit II	Social Development and its indicators
	<ul style="list-style-type: none">▪ <u>Social Development</u>: Concept and Approaches▪ <u>Economic indicators</u>: per capita income, GDP/ GVA, GNP,▪ <u>Social Indicators</u>: MDG, UNDP, Poverty, Social inequality, population (size, distribution and growth)
Unit III	Social Policy in Social Sectors: Overview
	<ul style="list-style-type: none">▪ <u>Minority Sector</u>: SC, ST and OBC▪ <u>Social Sector</u>: Education policy, Public health policy, Social security policy, Youth policy, Labour welfare policy▪ <u>Ecology and Development Sector</u>: Sustainable livelihood policies, environment protection policy▪ Social safety nets- micro credit, PDS

Analysis of Social Policy

Unit IV

- Analysis- stages in policy analysis, gender analysis, cost benefit analysis, outcome analysis
- Tools for policy analysis- stakeholder mapping, stakes, role of institutions, role of constraints, Instruments for analysis- descriptive and inferential
- Construction of indicators
- Measurement of indicators; quantification of social issues, Case studies, Focused group discussion, Mixed methods
- Output and Outcome
- Evaluation of social policy and programmes- implementation, operation and practice, results and outcome, Process elements, stake holder analysis, participatory evaluation, Distributive impact of social policy
- Policy Change: reforms and timing, incentives and constraints

Social Development in the Changing Context

Unit V

- Human development Index
- Ecology and development: Industrialization and urban development , Population, poverty and development
- Alternative development strategies: Gender, participatory approach
- Role of state and Civil Society Organizations in social development, Citizen Initiatives

Suggested Readings:

- | | |
|--------------------------|---|
| 1. Spicker, P.
2010 | Social Policy
Rawat Publications |
| 2. Kalapagam, U.
2011 | Gender and Development in India
Rawat Publications |
| 3. Kannappan, P.
2008 | Schedule caste welfare
A P H Publishing Corp |
| 4. Hill, M.
2003 | Understanding Social Policy
Blackwell Publishing |
| 5. Drake, R.F.
2001 | The Principles of Social Policy
Palgrave. Publications |
| 6. Weimer, D.L.
1994 | Policy Analysis: Concepts and Practice
Prentice Hall |



7. Pimpley, P.N.
1989
Social Development Process & Consequences
Rawat Publications
8. Siddiqui, H.Y.
2004
Social Development in Indian Subcontinent
Rawat Publications
9. Hill, M. & Irving, Z.
2009
Understanding Social Policy
Wilcy- Blackwell
10. Spicker, P.
2010
Social Policies: Themes and Approaches
Rawat Publications
11. Mohanty, M.
2011
India Social Development Report 2010 (Edited)
Oxford University Press
12. Pathak, S.
2013
Social Policy, Social Welfare and Social Development
Niruta Publications

S.S.P.

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SYLLABUS: SEMESTER 4

PGSSW4C0017 : HEALTH AND MENTAL HEALTH

Course Credits: 04
Maximum Marks: 100

Objectives

- To familiarise with the changing concept of health as an aspect of social development.
- To orient learners to the field Medical & Psychiatric Social Work
- Institutional and non-institutional structures & Role of Social Work


Unit No.	Course Contents
Unit I	Concept of Health, Well-Being and Disease
	<ul style="list-style-type: none"> ▪ Health: Meaning, Dimensions and Determinants ▪ <u>Social context of health</u>: culture, social structure, poverty, geographical factors ▪ <u>Important concepts</u>: public health, community health, preventive medicine, social medicine, community medicine. ▪ Concept of Communicable and Non-Communicable Diseases: etiology, prevention and treatment ▪ <u>Nutrition and deficiency disorders</u>: causes, prevention and control
	Medical Social Work
	<ul style="list-style-type: none"> ▪ <u>Medical social work</u>: concept, history, scope ▪ Organization and Management of social work department in Hospitals
Unit II	<ul style="list-style-type: none"> ▪ Approaches in medical social work, team work, community health ▪ Intervention strategies with individuals, groups, family and community ▪ Role in the hospital- prevention of disease, management of patients, participation in treatment and discharge planning ▪ Concept of Rehabilitation and Follow-up
Unit III	Mental Health
	<ul style="list-style-type: none"> ▪ <u>Psychiatric social work</u>: definition, evolution, scope, components ▪ Concept of Mental Health ▪ <u>Neuroses and Psychoses</u>: signs, symptoms, diagnosis, prognosis and management -- ICD 10, DSM V ▪ Substance Abuse and Effects ▪ Psycho-physiologic disorders, personality disorders, organic psychiatric

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	conditions, mental retardation
	Legislative provisions for promotion of Mental Health
Unit IV	<ul style="list-style-type: none"> ▪ Day Care Centers, Community Mental Health centers, Half-way homes, Sheltered Workshops, Occupational therapy units ▪ National Mental Health Programme, District Mental Health Programme ▪ Mental Health Act, 1987 ▪ The Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act, 1995.
	Social Work Intervention
Unit V	<ul style="list-style-type: none"> ▪ Role of social worker in the context of medical and social work ethics ▪ Role of Social Worker in Health and Mental Health ▪ Team work and Boundary Management in Health and Mental Health ▪ Social support strategies: event centered support groups and network centered interventions ▪ Working with child guidance clinic, palliative care patients, terminally ill patients,

Suggested Readings:

- | | |
|-----------------------------|--|
| 1. Park, K.
2011 | Park's Textbook of Preventive and Social Medicine
Banarsidas Bhanot Publishers |
| 2. Golightloy, M.
2012 | Social work & Mental Health
Academic Foundation |
| 3. French, L.M.
1940 | Psychiatric Social Work
The Commonwealth Fund |
| 4. Sutherland, J.D.
2003 | Towards Community Mental Health
Routledge Publication |
| 5. Bartlett
1961 | Social work practice in the health field
National Association of social workers |
| 6. Park, K.
1977 | Social work with dying patients and the family
Columbia University Press |
| 7. Mechanic, D.
1968 | Medical Sociology- a selective view
Free Press |
| 8. Bhattacharya, S. | Social determinants of Health |



- 2010 Orient Blackswan
9. Zachariah, A.
2010 Towards a critical medical practice
Orient Blackswan
10. Moss
2012 Communication skills in Health and Social care
Sage Publications
11. WHO
2014 ICD 10
Optum360

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PGSSW3C027: GENDER AND SOCIAL WORK

Course Credits: 02
Maximum Marks: 50

Objectives

- Gender as a social construction.
- Analysis of gender in socio- environmental and political context.
- Current socio-legal protection and programmes for women
- Emerging trends in gender and development: National and Global context

Course Contents

Unit No.

Conceptual framework

Unit I

- Gender: Concept, Sex and Gender
- Gender Socialization in Families
- Gender roles – Androgeny
- Status of Women in India: position and status of Women in Indian society and different religions
- Theoretical Perspectives: Psychoanalytic Perspectives on Gender, Feminism, Conflict theory, Functionalist perspective

Gender analysis tools

Unit II

- Gender analysis tools (key concepts): Social Institutions and Gender Index (SIGI), Gender inequality Index, Gender Parity Index, Gender-related Development Index (GDI)
- International initiatives for women empowerment
- Role of women in economic development, Women and microfinance
- Women's participation in Political process: Panchayati Raj and Urban governance
- Role of mass media and technology in women's development

Legal and rights perspective

Unit III

Salient Features

- Rights against discrimination: Human rights, Constitutional rights, Marital rights
- 73rd and 74th amendments to the Constitution of India
- Divorce, Maintenance, Adoption, Guardianship & Property Rights
- Social legislations relating to women (*Salient features*): Dowry Prohibition Act

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	<p>1961, Immoral Traffic Prevention Act 1986, Commission of Sati (Prevention) Act 1987, Domestic Violence Act 2005, MTP & Prenatal diagnostic technique (PNDT) Act 1994, Indecent representation of women Act</p> <ul style="list-style-type: none"> ▪ Protection to women under CRPC ▪ Laws related to women's working conditions: Minimum wage act-1948, Equal remuneration Act-1960, Factories Act-1948. Juvenile Justice Act, Sexual harassment at work place Act, 2013
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Suggested Readings:

- | | |
|------------------------------|---|
| 1. Lingamurthy, N.
2007 | Towards Gender Equality
Serials Publications |
| 2. Domenelli, L.
2007 | Women and community action
Rawat Publications |
| 3. Price, L.S.
2009 | Feminist Frameworks
Aakar Books |
| 4. Kurane, A.
2012 | Issues in women's development
Rawat Publications |
| 5. Verma, S.
2010 | Gender, HIV and Social work
Rawat Publications |
| 6. Gandhi, A.
2006 | Women's work health & empowerment
Aakar Books |
| 7. Brenner, J.
2006 | Women and politics of caste
Aakar Books |
| 8. Radhakrishnan, S.
2012 | Appropriately Indian
Orient Blackswan |
| 9. Swaminathan, P.
2012 | Women and Work
Orient Blackswan |
| 10. Wadley, S.
2008 | Wife, Mother, Widow
Orient Blackswan |

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PG.SSW42003 SOCIAL WORK WITH PERSONS WITH DISABILITY

Course Credits: 02
Maximum Marks: 50

Objectives

- To make distinctive understanding of the theory and concepts related to Persons with Disability (PwD)
- To gain insight into the emerging needs and problems of PwDs vis-à-vis services programmes for them
- The nature of social work interventions with PwDs

Unit No.	Course Contents
Unit I	<p style="text-align: center;">Person and Disability</p> <ul style="list-style-type: none"> ▪ <u>Disability</u>: Causes, Assessment and Classification ▪ <u>Changes in the concepts of Disability</u>: Impairment-Handicap-Disability-Differently Abled ▪ <u>Incidence and Prevalence of Disability</u>: India and Global ▪ Needs and Challenges of Persons with Disability (PwD) ▪ <u>Models of Disability</u>: Charity Model, Bio-Medical Model, Functional Limitation Model, Social Model and Human Rights Model ▪ Concept of Universal Design and Universal Access ▪ Disability Etiquette
Unit II	<p style="text-align: center;">Legislative Empowerments Overview</p> <ul style="list-style-type: none"> ▪ Provisions in the Constitution of India for PwD ▪ <u>Legislations for PwD</u>: RCI Act (1992), PWD Act (1995), National Trust Act (1999) ▪ National Organisations, Policies, Programmes and Services for PwD in India ▪ Coverage of PwD in National Policies for Children, Health, Education, Women and Elderly ▪ <u>Disability Rights Movement</u>: Historical Perspective, Major National and International Milestones ▪ Disabled Peoples' Self Organisations ▪ Gender and Disability ▪ International Initiatives and UN Instruments on the Rights of PwD

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	Preventive and Community Based Rehabilitation
Unit III	<ul style="list-style-type: none"> ▪ Prevention of Disabilities at Primary, Secondary and Tertiary Level ▪ Changing International and National Perspectives and Approaches to Rehabilitation ▪ Technology and Rehabilitation of PwD ▪ <u>Community Based Rehabilitation</u>: Meaning, Scope, Basic Principles and Strategies ▪ Identifying trades, need for vocational training, Planning for placements and developing marketing linkages for PwD ▪ Inclusion of PwD in Education, Employment and Community Activities ▪ Culturally Competent Social Work Services for Prevention and Rehabilitation of PwD

Suggested Readings:

1. RCI
2014
Disability Development in India
Kanishka Publishers
2. Verma, R.K. & Verma, P.
2014
Disability Perspective in Rehabilitation
Kanishka Publishers
3. Ranganathan, S.
2014
Dyslexia and other Learning Disabilities
Kanishka Publishers
4. Ghai, A.
2015
Rethinking Disability in India
Routledge
5. Pandey, B. & Chirinar, P.
2005
Disability and the Law
HRLN
6. Singh, D
2014
Disability & Special Needs: Dimensions and Perspectives
Kanishka Publishers
7. Ranganathan, S.
2014
Guidelines for Children with Special Educational Needs
Kanishka Publishers
8. Davis, L. (Eds)
2006
The Disability Studies Reader
Routledge
9. Dr. Hemlata
2014
Technology for Inclusion of Persons with Disability
Kanishka Publishers
10. Muralidharan, V.
2014
Mentally Retarded and Intellectually Disabled
Kanishka Publishers

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PGSSW4 COURSE : SOCIAL WORK WITH OLDER PERSONS

Course Credits: 02
Maximum Marks: 50

Objectives

- To make distinctive understanding of the theory and concepts related to Older Persons
- To gain insight into the emerging needs and problems of older persons vis-à-vis services programmes for them.
- The nature of social work interventions with older persons

Unit No.	Course Contents
	Old Age
Unit I	<ul style="list-style-type: none">▪ <u>Defining Old Age</u>: Developmental, Biological, Social, Psychological and Cultural Perspectives▪ Psychological and Sociological Theories of Ageing▪ Demography of the Aged in India and its Implications▪ Culturally competent social work practice for Active Aging and Well-Being
	Issues of Older Persons
Unit II	<ul style="list-style-type: none">▪ Social, Psychological, Health and Economic Issues of the Older Persons▪ Changing Roles, Power and Status of Older Persons▪ Family and Community Care giving for Older Persons
	Care and Interventions
Unit III	<ul style="list-style-type: none">▪ MWPSA Act (2007), National Policy for Older Persons (1999)▪ Government Welfare Programmes & Schemes for Older Persons▪ Role of Not-for-Profit Organisations and Community Groups towards Older Persons▪ Management of Institutional Geriatric Care Services▪ Social Work Interventions in Hospice and Palliative Care

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Suggested Readings:

1. Nair, T.K.
2010
Old Age in an Indifferent Society
Niruta Publications
2. Jones. I.R. et al.
2008
Ageing in and Indifferent Society
Polity Press
3. Patel, S. & Gandotra, V.
2011
Ageing: An Interdisciplinary Approach
Rawat Publications
4. Dandekar, K.
1996
The Elderly in India
SAGE Publications
5. Bali, A.P.
2001
Care of the Elderly in India: Changing Configurations
Indian Institute of Advanced Study
6. Giri, V.M.
2013
Status of Elderly Women in India: A Review
Gyan Publishing House
7. Liebig, P.S. & Rajan, S.I.
2003
An Aging India: Perspectives, Prospects, and Policies
Routledge
8. HelpAge India
2015
State of Elderly in India 2014
HelpAge India
9. Raj Publications
2012
Elder Law in India
Bhatia, S.
10. Bose, A.
2008
Growing Old in India
BR Publishing Corporation

S.S.A.

PGSS034/ENVT: SUSTAINABLE DEVELOPMENT, ENVIRONMENT AND LIVELIHOODS

Course Credits: 04
Maximum Marks: 100

Objectives

- To understand the concept of development, sustainable development and environment protection
- To develop an insight into various linkages between social needs, problems, development issues, and policies.
- To explore the inter relatedness of human life, living organisms and environment

Unit No.	Course Contents
Unit I	<p style="text-align: center;">Development</p> <ul style="list-style-type: none"> ▪ Concept and definitions of development ▪ <u>History of development</u>: Feudalism, Capitalism, Socialism, Communism, Globalisation ▪ Theories of development ▪ Economic growth, Economic development and Social development ▪ Indicators of social development
	<p style="text-align: center;">Sustainable Development</p> <ul style="list-style-type: none"> ▪ Concept and definitions of sustainable development ▪ <u>History of sustainable development</u>: From struggle against poverty, illiteracy, environment, health to Millennium Development Goals ▪ Politics and issues in sustainable development ▪ Government programmes for sustainable development ▪ Ecology and environment: Definition & interlinkages ▪ Environment and Natural Resources
Unit III	<p style="text-align: center;">Definition, Typology & Issues of Environmental Problems</p> <ul style="list-style-type: none"> ▪ Interface between Development, sustainable development and Environment and ecology ▪ <u>Environmental degradation</u>: Causes and consequences; impact on marginalized groups and indigenous populations, Environment in the human rights perspective, Approaches of environmental conservation ▪ Creating awareness on Environment Development and its consequences ▪ Community-based environment actions ▪ Building Sustainable Communities

Unit IV	Environmental Concerns
	<ul style="list-style-type: none"> ▪ <u>Current Issues & Consequences of Environment</u>: Impact on Climate, Global Warming, Acid Rain, Green House Effect ▪ <u>Environmental Pollution</u>: Sources, Treatment, Prevention (Soil, Water, Air, Noise) ▪ <u>State of India's resources</u>: Land, water, air, forests, wildlife ▪ Unplanned urban growth and developmental projects
Unit V	Environmental Management and Development
	<ul style="list-style-type: none"> ▪ <u>Environment Protection in India</u>: Constitutional provisions, Policies and Programmes: Salient Features of Important Environmental Legislations ▪ Role of NGOs and People's Initiatives for Environment Protection ▪ Natural Resource Management, Common Property Resources, Traditional knowledge for environment protection ▪ Case studies of major environmental movements in India: Chipko Movement 1973, The Silent Valley Project, 1978, Jungle Bachao Andolan, 1980s, Navdanya Movement, 1982, Development Alternatives, 1983, Narmada Bachao Andolan, 1985

Suggested Readings:

1. Charak, P. & Mohan, S.
2012
Women and Development
Primus Books
2. Das, R.C., Barul, J.K. Sahu, N.C. & Mishra, M.K.
1998
The Environment divide: the Dilemma
Developing Countries.
Indus Publishing co.
3. Jana, M.M.
1991
Environmental Degradation and
Developmental Strategies in India.
Ashish Publications.

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4. Reid, D.E.
1995
Sustainable Development: An Introductory Guide.
Earthscan Publications.
5. Sheth, P.
1997
Environmentalism: Politics, Ecology and Development
Rawat Publications.
6. Wolpert L.
2007
Principles of Development
Oxford University Press
7. Egelston, Anne E
2013
Sustainable Development: A History
Springer
8. Kumar Hajira
2005
Social work and developmental issues.
Aakar books.
9. Ledwith Margaret
2006
Community development.
Rawat publication
10. Uma, M.
2007
Environmental Issues in India: a Reader
Longman



PGSSW4E002T : CRIME, CRIMINOLOGY AND PENOLOGY

Course Credits: 04
Maximum Marks: 100

Objectives

- To conceptualise criminology and penology.
- To critically analyze various institutional and non-institutional correctional services.
- To acquire practice skills in correctional setting.

Unit No.	Course Contents
Unit I	Crime and Criminology
	<ul style="list-style-type: none"> ▪ Criminology: Definition, Nature & Scope ▪ Overview of Criminal Behavior Theories: Classical and Neo-Classical Theories, Biological Theories, Psychogenic Theories, Social Learning Theories, Contemporary Theories and Feminist Theories ▪ Delinquency: Definition, Juvenile Delinquency ▪ Social Deviance: Concept and causes ▪ Concept of Crime, Social Defence and Penology ▪ Modern Crimes: Cyber Crimes- Frauds and Pornography, ▪ Sexual Harassment at work place, Rape, Incest, Acid Attack
Unit II	Institutional Correctional Services
	<ul style="list-style-type: none"> ▪ Correctional Institutions for Juveniles: Observation Home, Children Home, Juvenile Justice Board, Child Welfare Committee, Special Home and Borstal School ▪ Preventive programmes and methods of treatment of Juvenile Delinquency ▪ Correctional Institutions for Women: Vigilance Home, Protective Home and Open Prisons.
Unit III	Non-Institutional Correctional Services
	<ul style="list-style-type: none"> ▪ Community Based Programmes: Non-institutional Services - Adoption, Foster Care, Sponsorship, Child Guidance, ▪ Family Counselling, Crisis Intervention Centres, Helplines, Neighbourhood Mutual-Help groups. ▪ After care, intensive after care, reintegration and follow up

	Criminal Justice System
Unit IV	<ul style="list-style-type: none"> ▪ Criminal Justice System in India: Components, Processes and Perspectives-Police, Prosecution, Judiciary ▪ Prison Manuals (Salient Features) ▪ UN Standard Minimum Rules for treatment of prisoners and other standard settings ▪ Probation and Parole: Concept and Effectiveness ▪ Punishment: Meaning, aims, philosophy and theories of punishment ▪ Prisons: Types, Structure and Management; Types of prisoners Prison Reforms: Role of inquiry committees and commissions ▪ Concept of Open Prisons and Women's Prisons
	Crime Prevention
Unit V	<ul style="list-style-type: none"> ▪ <u>Crime Prevention</u>: Definition ▪ Primary, Secondary and Tertiary Crime prevention ▪ Role of Social Work in Prevention of crime and Juvenile Delinquency ▪ Role of Social Worker in Correctional Institutions ▪ Role of Social Work in Crime Prevention in Community setting and organizing Community Policing ▪ <u>Victim Services</u>: Programmes, Models and Role of Social Worker

Suggested Readings:

1. Ahuja, R. 2012	Criminology Rawat Publications
2. Ahuja, R. 2014	Social Problems in India. Rawat Publications
3. Akers, R. I. & Sellers, C. S. 2004	Criminological Theories Rawat Publications.
4. Bhattacharya, S.K. 2003	Social Defense-An Indian Perspective Regency Publications
5. Bhattacharya, S. K. 2000	Juvenile Justice -An Indian Scenario Regency Publications

- | | |
|--|---|
| 6. Carter, R.M., Glasser, D. & Wilkins, L.T.
1984 | Probation, Parole and Community Correction
Prentice Hall |
| 7. Chakrabarti, N. K.
1999 | Institutional Corrections
Deep & Deep Publications. |
| 8. Carney, L. P.
1980 | Corrections, Treatment & Philosophy
Prentice Hall. |
| 9. Deb, R.
1998 | Criminal Justice
The Law Book Company Private Limited. |
| 10. Paranjape, N.V.
2001 | Criminology and Penology
Central Law Publications |
| 11. Shah, S. P.
2014 | Street Corner Secrets
Orient Blackswan Private Limited |
| 12. Sharma, P. D.
1998 | Criminal Justice Administration
Rawat Publications |
| 13. Shah, G.
1999 | Crime and Criminology
Anmol Publications Pvt |
| 14. Siegel, L. J.
2000 | Criminology
Wadsworth Thomson Learning |
| 15. Siddique, A.
1993 | Criminology-Problems and Perspectives
Eastern Book Company |
| 16. Tripathy, P. C.
2000 | Crime against Working Women
APH Publishing Company |
| 17. Unnithan, N.P.
2013 | Crime and Justice in India
Sage Publications |

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PQSSW4E003D 3 DISSERTATION

Course Credits: 04
Maximum Marks: 100

Objectives

- To develop ability to conceptualise, formulate and conduct simple research projects.
- To develop ability for logical reasoning and critical analysis.
- To develop skills for use of library and documentation services for research.

Guidelines

1. Though Dissertation is scheduled in the Semester 4, the work process shall begin from the Semester 3.
2. The Department may propose a common area of research for all the students opting for Dissertation.
3. The student will be placed under the guidance of a faculty member for dissertation work. The student will be required to select area of the subject of his/her interest. Subsequently, the student is guided to prepare Questionnaire/interview schedule/ any other tools for systematic collection of data from a group of subjects.
4. The students have to do data collection during the vacation period between Semester 3 & 4.
5. After the completion of data collection, the student has to undertake data analysis.
6. The core content of the report may not be more than 100 typed pages and it should cover in general the following chapters.
7. General content outline of the dissertation:
 - I. Introduction
 - II. Review of Literature
 - III. Research Methodology
 - IV. Analysis and Discussion
 - V. Conclusion and Suggestions
 - VI. Bibliography and Appendices
8. One printed copy and one CD of the dissertation is to be submitted to the University for evaluation before the commencement of theory examination of semester 4.

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INTER-DISCIPLINARY COURSES

126

PGSSW31001T : LIFE SKILL EDUCATION

Course Credits: 04
Maximum Marks: 100

Objectives

- Provide orientation in life skills
- Introduce concepts and approaches of learning through structured games
- Impart knowledge of basic life skill for day to day living

Unit No.

Course Contents

Education and Life Skills

Unit I

- Life Skill: Definition and Importance
- Life Skill: Generic, Problem Specific and Area Specific
- Pillars of Education: Learning to Know, Learning to Do, Learning to Live Together, Learning to Be
- Learning throughout Life: Life Skills -- Communication Skills, Critical Thinking, Creativity, Empathy

Unit II

Thinking Skills

- Thinking: Nature, Elements of Thought, Types of Thinking, Concept of Formation and Reasoning
- Creative and Critical Thinking: Definition, Nature and Stages
- Problem Solving: Definition, Steps in Problem Solving, Factors influencing Problem Solving
- Decision Making: Definition, Need, Process and Consequences, Models of Decision Making, Goal Setting

Unit III

Learning about Self

- Assessment of Life Skill: Confidence and Self-Esteem, Looking at Self, Knowing oneself through Self-Esteem Video, Planning for Personal Growth, Appreciating Individual and Cultural Differences, Values, Goals, Assessing Needs vs Wants, Goal Fixing, Rights and Responsibilities
- Dealing with life situations
- Avoiding Substance Abuse

01 -

	Social and Negotiation Skills
Unit IV	<ul style="list-style-type: none"> ▪ <u>Self-Awareness</u>: Definitions, Types of Self, Self-Concept, Body Image, Self Esteem, Techniques for Self Awareness -- Johari Window, SWOT Analysis ▪ <u>Empathy</u>: Sympathy, Empathy and Altruism ▪ <u>Effective Communication</u>: Definition, Functions, Models and Barriers ▪ <u>Interpersonal Relationship</u>: Definition and Factors affecting Relationships
	Coping Skills
Unit V	<ul style="list-style-type: none"> ▪ <u>Coping with Emotions</u>: Definition, Characteristics and Types, Classification Wheel Model, Two-Dimensional Approach ▪ <u>Strategies of Coping</u> ▪ <u>Coping with Stress</u>: Definition, Stressors, Sources of Stress, General Adaptive Syndrome Model of Stress

Suggested Readings:

- | | |
|--|---|
| 1. Baron, B., Baron, A.R. & Donn, B.
2003 | Social Psychology
Prentice Hall |
| 2. Myers, G. D.
2007 | Social Psychology
Tata McGraw Hill |
| 3. Nair, A. R.
2010 | Life Skills Training for Positive Behaviour
RGNIYD |
| 4. Santrock, W. J.
2006 | Educational Psychology
Tata McGraw Hill |
| 5. Hereford, Z.
2007 | Essential Life Skills: A Guide for
Personal Development and Self- Realization |
| 6. World Health Organization
1999 | Partners in Life Skill Education: Conclusions from
a United Nations Inter-Agency Meeting
WHO |
| 7. Stella, C.

2005 | Critical Thinking Skills: Developing Effective
Analysis and Argument
Palgrave Macmillan Limited |
| 8. Delors, J.
1997 | Learning: The Treasure Within
UNESCO |
| 9. Nair, A. R.
2010 | Life Skills, Personality and Leadership
RGNIYD |
| 10. UNESCO
2005 | Quality Education and Life Skills: Darkar Goals
UNESCO |

185

PGSSW4E001T: COUNSELLING

Course Credits: 04
Maximum Marks: 100

Objectives

- To develop theoretical base for counselling theories.
- To acquire skills and techniques of counselling
- To develop knowledge about application of counselling in different settings.

Unit No.	Course Contents
Unit I	Conceptual framework
	<ul style="list-style-type: none"> ▪ <u>Counselling</u>: Definition, Professional nature, Historical development, Types. Counselling skills in institutional settings ▪ Qualities of a counsellor ▪ Ethical guideline
Unit II	Counselling Theories
	<ul style="list-style-type: none"> ▪ <u>Cognitive Therapies</u>: Psychoanalytic theory, Behavioural theory, REBT, Acceptance and commitment therapy (ACT), Cognitive analytic therapy (CAT) ▪ <u>Humanistic Therapies</u>: Reality theory, Existential therapy, Transactional analysis, Gestalt therapy, Person centered therapy, Solution-focused brief therapy, Psychosynthesis ▪ <u>Art as a Therapy</u>: Fine Arts and Performing Arts ▪ <u>Other Therapies</u>: Family system therapy, Multicultural and gender therapies, Group therapies, Psychosexual therapy, Mindfulness
Unit III	Counseling Process
	<ul style="list-style-type: none"> ▪ Purpose, Relationship establishment, focus on ethics ▪ Referred Problem, Defining the Problem, Psycho-social Factors causing the problem, Diagnosis and Planning Problem Solving Process. ▪ Counseling Program development and management ▪ Research for program improvement
Unit IV	Counselling Skills
	<ul style="list-style-type: none"> ▪ Communication skills ▪ Assessment skills using standardised tests ▪ Consultation skills

	<ul style="list-style-type: none"> ▪ Counselor as developmental consultant ▪ Role in prevention and wellness
Unit V	Area of Application
	<ul style="list-style-type: none"> ▪ <u>Family Settings</u>: Family and Marriage counseling, Gerontology counseling, Parenting counseling, Child and adolescent counselling ▪ <u>Individual counseling</u>: Educational counseling, Employment counseling, addiction counseling, HIV- Aids counseling, Stress management, Anxiety depression ▪ Special population counseling- women, abuse victims, gays and lesbians, people with disability, attempted suicide ▪ Use of information technology in counselling

Suggested Readings:

- | | |
|----------------------------------|---|
| 1. Ramkrishnan, P.K.
2013 | Social work counseling
Black Prints |
| 2. Gibson, R.K.
2008 | Introduction to counseling and guidance
Pearson Prentice Hall |
| 3. Prashantham, B. J.
1975 | Indian Case Studies in Therapeutic Counselling
Christian Counselling Centre |
| 4. Miller, S.
2012 | Counselling Skill for Social Work
Sage Publications India Pvt. Limited |
| 5. Riggel, S.
2012 | Using Counselling Skills in Social Work
Sage Publications India Pvt. Limited |
| 6. Rao, S.N.
1987 | Counselling Psychology
Tata McGraw Hill Publishing Company |
| 7. Gladding, S. T.
1996 | Counselling: A Comprehensive Profession
Prentice Hall |
| 8. Jones, R. N.
2013 | Introduction to Counselling Skills
Sage Publications |
| 9. Chung, R. & Bemak, F.
2012 | Social Justice Counselling
Sage Publications |
| 10. Biestek, F. B.
1957 | Case Work Relationship
Loyola University Press |

DEPARTMENT OF NATIONAL SECURITY STUDIES CENTRAL UNIVERSITY OF JAMMU ANNEXURE - IV

MINUTES OF THE MEETING OF BOARD OF STUDIES (BoS)

The second Board of Studies (BoS) meeting of the Department of National Security Studies was held on 9th May 2015 at the Temporary Academic Block (TAB), Central University of Jammu.


The following members were present:

- | | |
|-------------------------------|----------------|
| 1. Prof. Devanand | Chairman |
| 2. Dr. J. Jeganaathan | Member |
| 3. Prof. Pardhasaradhi | Member |
| 4. Dr. Utham Kumar Jamadhagni | Subject Expert |

The meeting began with a formal welcome note by the Chair and the agenda for the meeting were presented for consideration and approval.

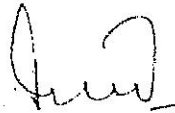
The following agendas were considered and:


1. Recommended the title of M.Phil. dissertation of Mr. Ranjan Sharma after thorough discussion of his synopsis. The approved title is: **ROLE OF JAMMU AND KASHMIR POLICE IN COUNTER-MILITANCY OPERATIONS IN JAMMU DIVISION, 1994-2004.**
2. Recommended the allotment of Dr. J. Jeganaathan as Supervisor for Mr. Ranjan Sharma.
3. Recommended the Titles of Ph.D. Theses of three Part Time Ph.D. candidates as given Annexure I.
4. Recommended the allotment of Dr. J. Jeganaathan as Supervisor for all the Part Time Ph.D. candidates as given in Annexure I (A).
5. Recommended the revised Syllabus of M.A. programme (Semester-I, Semester-II, Semester-III, Semester-IV and Semester-V(Elective Courses)) in National Security Studies as enclosed in Annexure II
6. Recommended the continuation syllabus of M.Phil-Ph.D Integrated programme as offered for Session 2014-15 to Session 2015-16 in National Security Studies as enclosed in Annexure II



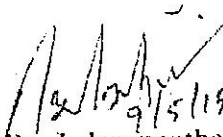
7. Recommended examiners for evaluation of thesis/dissertation and conduct of viva-voce examinations (Ordinance No. 6, Clause 16d) as given in **Annexure III**.
8. Recommended the implementation of course work for Part-Time Ph.D. programme as per UCC guidelines.
9. Recommended the constitution of Departmental Research Committee (DRC) to monitor the progress of research work in the department as given in **Annexure IV**.

The meeting concluded with a formal vote of thanks to the chair.


9/05/15
Prof. Devanand


9/5/15
Prof. Y. Pardhasaradhi


Dr. Utham Kumar Jamadhagni


9/5/15
Dr. J. Jeganaathan

CENTRAL UNIVERSITY OF JAMMU

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

No: 4-11/NSS/CUJ/Reg/2013/Acad/775

Date: 24.09.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, National Security Studies, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus of 1st semester, Master's in National Security Studies and 1st semester of Integrated M.Phil-Ph.D Programme for the Academic Session 2015-16. The approved Course Scheme is as follows:-

Master's in National Security Studies (SEMESTER-I)

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Mark
	CORE COURSES:					
PGNSS1C001T	India's Foreign Policy	4	25	25	50	100
PGNSS1C002T	Disaster Management and National Security	4	25	25	50	100
PGNSS1C003T	Disarmament and Peace Studies	4	25	25	50	100
	FOUNDATION COURSE					
PGNSS1F004T	Introduction to International Relations	4	25	25	50	100
PGNSS1F005T	Communication Skills Development (ELECTIVE)	2	25	25	50	100
Total		18				500

INTEGRATED M.PHIL-PH.D PROGRAMME (SEMESTER-I)

Course Code	Course Title	Credit	Teaching hours	Field work/Tutorial /Teacher-led activity hours	End Semester Exam	Total Marks
MPNSS1C001T	Research Methods in Security Studies	5	50	25	75	100
MPNSS1C002T	Theories of Security and Security Paradigms	5	50	25	75	100
MPNSS1C003T	Terrorism and Global Security	5	50	25	75	100
MPNSS1C004T	Conflict and Cooperation in South Asia	5	50	25	75	100
Total		20				400

Registrar

Encl: Approved syllabus

Copy to:-

1. Dean, School of National Security Studies
2. Head, Department of National Security Studies

Syllabus-Master Degree Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II, III or IV as the case may be

PG NSS 1 C, 001 T-INDIA'S FOREIGN POLICY

Course Objective

- To understand and explore the ideas of Indian Foreign Policy system
- Study the India's diplomatic security concern
- Examine India's relationship with major powers
- Analyse future trend of Indian Foreign Diplomacy

Course Contents

Unit - I Objectives, Principles, Determinants and Agencies

- Origin and Foundations of India's Foreign Policy: Ideology, Principles, Goals and Objectives
- Determinants of India's Foreign Policy: Internal and External
- Structures and Process of India's Foreign Policy (Parliament, PMO, MEA, Political Parties, Media)
- Transform and Continuity in India's Foreign Policy: Post-Cold War Era

Unit -II Security Concerns for India

- India's Security Policy: Evolution and Parameters
- India's Security Concerns: External and Internal
- India's Nuclear Policy: Shift from Peaceful Purposes to Weaponisation and Draft Nuclear Doctrine
- India's Energy Security: Role of Diplomacy

Unit -III India and Major Powers

- India and the United States: From Divergence to Convergence
- India and Russia: Changing Contours
- India and European Union: Opportunities and Challenges
- India and Asian Powers:
 - a) India and China: Conflict, Competition and Cooperation
 - b) India and Japan: Moving Towards Strategic Cooperation

Unit - IV International Affairs and Indian Foreign Policy

- Regions in India's Foreign Policy: South Asia, South East Asia and West Asia
- India and International Economic Regime: WTO, IMF and World Bank
- India and Climate Change: UN Framework and onward Developments
- India and Global South: G77, G20 and BRICS

Unit – V Indian Foreign Policy and Trends Analyses

- Past and Future Trends of Indian Foreign Policy
- Presentation
- Exercise

Suggested Readings:

1. Dr. V.P.Dutt (2007), "India's Foreign Policy - Since Independence", National Book Trust, New Delhi
2. Verinder Grover, Ed. (1992), "International Relations and Foreign Policy of India", Deep & Deep Publication, New Delhi
3. N.S.Sisodia & C.Uday Bhaskar, Ed. (2005), "Emerging India - Security and Foreign Policy Perspectives", IDSA, New Delhi
4. Ashutosh Sharma (2011), "The Shaping of India's New Foreign Policy", Vij Books, New Delhi
5. Rajiv Kumar, Sunil Khilnani and Siddharth Varadarajan (2014), Nonalignment 2.0 A Foreign & strategic policy for India in the 21 st century, Penguin Publication, New Delhi



Syllabus-Master Degree Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II, III or IV as the case may be

PGNSS1C002T-DISASTER MANAGEMENT AND NATIONAL SECURITY

Course objective

- To introduce students to basic concepts and types of disasters – natural and manmade disaster
- To discuss case studies of major disasters
- To enable students to know about the institutional mechanism for disaster management and mitigation in India

Course Contents

Unit – I Introduction

- Meaning and Concept of Disaster Studies
- Natural Disaster – Flood, Cyclones, Landslides, Avalanches, Earthquakes
- Man-made Disaster – Chemical, Nuclear, Biological and Industrial Disasters

Unit –II Case Studies of Disaster

- Hiroshima and Nagasaki
- India – Tsunami 2004, Bhopal Gas Tragedy, Uttarakhand
- Chernobyl and Fukushima

Unit –III Disaster Management

- Emergency Response and Mitigation
- Disaster Planning/ Preparedness
- Recovery, Relief and Reconstruction

Unit – IV Institutional Mechanism for Disaster Management in India

- Role of Armed Forces
- Central and State Government
- Role of Non Governmental Organisations

Unit – V National Disaster Management Authority

- Role of National Disaster Management Authority
- National Disaster Management Policy-Principles
- Disaster Funding Mechanism in India

Suggested Readings:

1. Rajeev Dasgupta (2007). 'Disaster Management and Rehabilitation'. New Delhi: Mittal Publication
2. Harsh K. Gupta (2003). 'Disaster Management'. Hyderabad: University Press
3. Modh, Satish (2010). 'Introduction to Disaster Management'. New Delhi: MacMillan
4. Ronald Eisler (2001). 'The Fukushima 2011 Disaster'. FL: CRC Press
5. David Elliott (2013). 'Fukushima: Impacts and Implications'. New York: Palgrave MacMillan

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Syllabus-Master Degree Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II, III or IV as the case may be

PGNSS1C003T - DISARMAMENT AND PEACE STUDIES

Course objective:

- To educate students on Disarmament Efforts.
- To understand the dynamics of disarmament after the Second World War.
- To elucidate the students on peace and its various mechanisms.

Unit - I: Introduction

- Definition of Arms Control and Disarmament
- Basic Concepts and their Relationship
- Nature and Scope of Arms Control and Disarmament

Unit - II: From Treaty of Westphalia to World War - II

- Efforts towards Disarmament from Treaty of Westphalia 1648 to the Outbreak of World War I
- Efforts towards Disarmament from World War I to the outbreak of World War II.
- Efforts towards the formation of the UNO.

Unit - III: UN and Disarmament

- Various agencies of the UN dealing with Disarmament and Arms Control.
- Major efforts till the Disarmament Decade.
- Causes and failures of Disarmament efforts.

Unit -IV: Disarmament Efforts-- Success Story

- Various disarmament treaties (CTBT, NNPT, FMCT)
- SALT I and II, CTBT, LWC, CWC, START and Outer Space Treaty.
- India's Contribution towards Disarmament and Global Peace

Unit -V: Peace Studies

- Introduction to Peace Studies
- Meaning and Definition of Peace
- Peace Making and Peace Building, Peace Keeping

Am

Suggested Readings:

1. Subramaniam, "K., *Nuclear Proliferation and International Security*", L
Delhi, 1986.
2. Sipri year book- www.sipri.org
3. Pande, S., "*Future of NPT*", Lancer, New Delhi, 1995.
4. -----, "*CTBT: India and the Nuclear Test Ban Treaty*", Cosmo,
1994,
5. Mistry, D., "*Containing Strategic Missile Proliferation*", University of
Press, USA, 2005.
6. Cohen, S.P., "*Nuclear Proliferation in South Asia: The Prospects for An*
Lancer, New Delhi, 1994.

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Syllabus-Master Degree Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II, III or IV as the case may be

PGNSC/F004/T-INTRODUCTION TO INTERNATIONAL RELATIONS

Course objective

- To introduce students to the study of international relations
- To develop understanding on the major themes of the subject

International relations

Course Contents

Unit – I Basic Tenets of International Relations

- Definition of State, System and Society
- Basic concepts of International Relations – Power, Identity and Interests
- History of international relations – World War I, II, Cold War & Post-Cold War

Unit –II Basics of International Relations

- Realism Vs. Idealism
- Traditionalism Vs. Behaviouralism
- Neo-realism Vs. Neo-liberalism
- Rationalism Vs. Reflectivism

Unit –III Foreign & Security Policy Decision-making Process

- National threat perception and misperception – the role of media and social media
- Decision-making process – political class, bureaucracy, business community and experts
- Impact of domestic politics on foreign policy

Unit- IV Power, Identity and Interests in International Relations

- Power in International Relations – hard power/soft power
- The relations of security to identity – radicalisation and homogenisation
- Defining national interest and its relation to security

Unit – V International Organisations

- The role and functions of United Nations (UN)
- WTO, IMF and World Bank
- Inter-governmental Organisations – IAEA and ICJ

Suggested Readings:

1. Andreas Osiander (2001), "Sovereignty, International Relations, a Myth", *International Organization*, Vol. 55, No. 2, pp. 251-287.
2. Donald E. Lampert, Lawrence S. Falkowski, Richard W. Mansbach "International System?" *International Studies Quarterly*, Vol. 22, No. 1, pp. 143-166
3. Howard L. Williams and Moorhead Wright, et.al. (ed.) (1993) *International Relations and Political Theory*, UBC Press: Canada
4. Martin Griffiths and Terry O'Callaghan et.al. (ed.) (2012), *International Relations: Key Concepts*, Routledge: New York
5. Morgenthau, H.J (1948), "Politics Among Nations", New York: Knopf



Syllabus-Master Degree Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II, III or IV as the case may be

PG NLS 1F005T – Communication Skills Development

Course objective

- To enable students to comprehend the concept of Communication
- To Enable students to build a repertoire of functional vocabulary
- To train students to summon words, phrase relevant to the immediate communication skills
- To train students in basic computer knowledge, this provides essential skills for the user to be adapted to any work environment.

Course Contents

Unit – I English Language Skills

- Simple Grammar, Nouns, Gender, Singular, Plural, Vocabulary, Phrase, Clause, Sentence, Tenses
- Spoken English Skills, Greeting, Self Introduction, Skills In Reading
- Writing Skills, Listening Skills, Conversation Skills

Unit –II Academic Communication Development Skills

- E-Mail-Reading And Writing, Letter and report Writing
- Body Language, Verbal and Non Verbal Communication
- Public Speaking, Interpersonal, Interactive and Presentation Skills

Unit –III Basic Computing Skills

- Introduction to Computers-Classification of Computers, Role of Computers in Society and Security
- Inside Computers- Software (Processing, memory) and Hard Ware (CPU, OS, DOS, Windows)
- Word Processing, File Management, Spread Sheets, Networks, Presentations, Data Base.

Am

Suggested Readings:

1. Sasikumar,V and P.V. Dhamija. (1993). *Spoken English: A Self-Learning Guide to Conversation Practice*. 34th Reprint. Tata McGraw-Hill, New Delhi
2. V. Syamala, (2002). *Effective English Communication for you*. Emerald Publications, Chennai.
3. Hewings, Martin. 1999. *Advanced English Grammar: A Self-Study Reference and Practice Book for South Asian Students*. Reprint 2003. Cambridge University Press, New Delhi
4. Introduction to Computers – Peter Norton, Tata McGraw Hill
5. Microsoft (2003) – Jennifer Ackerman Kettell, Guy Hat-Davis, Curt Simmons, McGraw Hill

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Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II as the case may be

MPNSS1C001T . RESEARCH METHODS IN SECURITY STUDIES

Course objective

- Assist students to better understand the structure of the scientific method and the fundamentals of research design.
- Facilitate students to develop empirical research designs, and formulate and test hypotheses by using scientific techniques
- Enable students to become more informed "critics" of social science and security studies literature.

Course Contents

Unit – I Introduction

- Basic assumptions of social science – theoretical and empirical research
- Conceptual foundations of research – concepts, definitions, logic, theory and models
- Basic elements of research in security studies – statement of research problems, unit of analysis, variables and hypotheses and information sources

Unit –II Qualitative Research Methods in Security Studies

- Historical research in security studies
- Case Studies and Comparative Case Studies
- Interviews and Fieldwork & Data Collection

Unit-III Basic Quantitative Research Methods

- Introduction to statistics – descriptive and inferential; Statistical decision theory
- Definition of probability; conditional probability: independent & dependent events.
- Internet survey and social media analysis

Unit- IV Methodological Critique in Security Studies

- Postmodernism – scientific knowledge vs. Narrative knowledge
- Post-structuralism – new approaches in security studies
- Critical security studies

Unit-V Thesis Writing in Security Studies

- Model synopsis – research proposal, review of literature and formulation of hypotheses
- Research design, Analytical techniques and Data gathering, analysis and presentation
- Research ethics – professional codes of ethics

Suggested Readings:

1. Carl G. Hempel; Paul Oppenheim (1948), "Studies in the Logic of Explanation", *Philosophy of Science*, Vol. 15, No. 2, pp. 135-175
2. Clive Seale (2008), *Social Research Methods: A Reader*, Routledge: London
3. Daniel M. Jones, Stuart A. Bremer and David J. Singer (1996), " Militarized Disputes 1816-1992: Rationale, Coding Rules, and Empirical Applications", *Conflict Management and Peace Science*, 15:163-213
4. Frankfort-Nachmias, Chava and David Nachmias (1996), *Research Methods in Social Sciences*, St.Martin's Press: New York
5. John Gerring (2004), "What Is A Case Study and What is it Good for?", *American Political Science Review*, Vol.98, No.2, pp.341-354

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Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II as the case may be

M PNSS1C002T-THEORIES OF SECURITY & SECURITY PARADIGMS

Course objective

- To familiarise students with various theoretical perspectives on security studies
- To introduce students to various security paradigms evolved in the recent past
- To facilitate students to develop theoretical understanding on security issues

Course Contents

Unit – I The Philosophical Foundation of Security Studies

- Machiavelli
- Kautalya & Sun Tsu
- Thucydides

Unit –II The First Great Debate (Pre-war period)

- Classic Realism Vs. Utopianism/Idealism
- Humanist Approach – Erasmus, Gandhi and Tolstoy
- Conservatism Vs. Liberalism

Unit–III The Second Great Debate (Post-war period)

- Traditionalism Vs. Scientism (Behaviourism)
- Neo-Realism and its variants – Offensive, Defensive, and hegemonic realism
- Rationalism in Security Studies

Unit- IV The Contemporary Debate

- Institutionalism Vs. Pluralism
- Neo-liberalism Vs. Neo-realism(structural realism)
- Methodological Individualism

Unit- V Critical Theory on Security Studies

- Post-modernism –critiques on security studies
- post-structuralism and the notion of security
- Feminism –Role of gender (women) in peace and conflict studies

Suggested Readings

1. Geoffrey Blainey (1973), "The Causes of War", New York: Free Press
2. Walt, Stephen, "Alliance Formation and the Balance of Power", *International Security*, 9(1985):3- 43.
3. Walt, Stephen, "The Renaissance of Security Studies", *International Studies Quarterly*, (1991):35-51.
4. Hans J. Morgenthau, (1948), "Politics Among Nations", New York: Knopf
5. Earle, Edward Mead (1943), *Makers of Modern Strategy: Military Thought From Machiavelli to Hitler*, Princeton University Press: New York
6. Williams, Paul D (2012), "Security Studies: An Introduction", London: Routledge

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Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II as the case may be

AN OVERVIEW OF THEORIES OF SECURITY

Course objective

- To familiarise students with various theoretical perspectives on security studies
- To introduce students to various security paradigms evolved in the recent past
- To facilitate students to develop theoretical understanding on security issues

Course Contents

Unit – I The Philosophical Foundation of Security Studies

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Unit-IV The Contemporary Debate

- Institutionalism Vs. Pluralism
- Neo-liberalism Vs. Neo-realism(structural realism)
- Methodological Individualism

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1. Geoffrey Blainey (1973), "The Causes of War", New York: Free Press
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3. Walt, Stephen, "The Renaissance of Security Studies", *International Studies Quarterly*, (1991):35-51.
4. Hans J. Morgenthau, (1948), "Politics Among Nations", New York: Knopf
5. Earle, Edward Mead (1943), *Makers of Modern Strategy: Military Thought From Machiavelli to Hitler*, Princeton University Press: New York
6. Williams, Paul D (2012), "Security Studies: An Introduction", London: Routledge

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Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
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Semester-I, II as the case may be

MPNSS10 COURSE TERRORISM AND GLOBAL SECURITY

Course objective

- To understand Concept, Causes and effect of global terrorism
- Educate the functioning of major international terrorist organisation and global counter terrorism measures
- Analyse of terrorism as a major challenge for national and international security

Course Contents

Unit – I An Introduction to Terrorism

- Terrorism – Meaning, Definitions & Concept
- Types of Terrorism - State Sponsored Terrorism, Cross Border Terrorism, Homegrown Terrorism, Political Terrorism
- Ideological perspectives and Main Causes of Terrorism (psychology, economy, culture etc.)

Unit –II Terrorism Around the Globe

- Terrorism in Asia (India, Neighbouring Nations and East Asia)
- Terrorism in West and Central Asia
- Terrorism in Europe and Africa
- Terrorism in North and South America

Unit –III Global Terrorist Organisations

- Major Terrorist Organisations at Global Level
- Main Aims and Objectives of Terrorist Groups
- Strategies Adopted by these Groups
- Strength and Activities of Terrorist Organisations

Unit – IV Global Response to Terrorism

- Role of International Organisations – United Nations, SAARC and others
- Bi/Multi-lateral Collaboration in counter terrorism
- Role of Media
- Role of Non-Governmental Organisations

Unit – V Approaches to Terrorism Research

- Terrorism and other form of violence
- Challenges on Terrorism Research (Bias-Unbiased views)
- Potential future trend of Global terrorism
- Exercise/presentation

Suggested Readings:

1. Aubrey, Stefan M. (2004), *The New Dimension of International Terrorism*, Zurich: VDF
2. Bhatt, Ashok (2007), *Global Terrorism*, New Delhi: Lotus Press
3. Freeman, Michael (2013), *Financing Terrorism: Case Studies*, New Delhi: Ashgate Publications
4. Kaur, Kulwant (2005), *Global Terrorism: Issues, Dimensions and Options*, New Delhi: Kanishka Publishers
5. Kay, Sean (2009), *Global Security in the Twenty First Century: The Quest for the Search for Peace*, USA: Rowman & Littlefield Publishers
6. Lutz, James M., Lutz, Branda J. (2013), *Global Terrorism*, New York: Rutledge

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**Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II as the case may be**

MPNSS1C:004T-CONFLICT AND COOPERATION IN SOUTH ASIA

Course objective

- To introduce students to the geo-political and geo-strategic significance of South Asia
- To teach students about the characteristics and challenges of peace and security in South Asia
- To enable students to analyse the prospects of cooperation in South Asia

Course Contents

Unit I - South Asia- An Introduction

- Geo-Strategic and Geo-Political Significance of the Region
- Characteristics of South Asia
- Contemporary Security Perspectives in South Asia

Unit II - Security Challenges in South Asia

- Causes and Course of Migration in South Asia
- Proliferation of Small Arms in South Asian Countries
- Energy Security in South Asia - Issues and Concerns

Unit III – Role of Non State Actors in South Asia

- Threats of Non State Actors to South Asian security – Ethnic Conflict and Insurgency
- Terrorism – Cross Border Terrorism and Nuclear, Chemical and Biological Terrorism
- Counter Measures to variety of Threats in South Asia

Unit IV - Cooperation in South Asia

- Role of Confidence Building Measures in South Asia
- Political, Economic and Security Cooperation in South Asia
- Concept, Genesis of SAARC – Prospects and Challenges

Unit V - Nuclear Security Issues in South Asia

- Nuclear Proliferation in South Asia
- Nuclear Deterrence and Non Proliferation Treaty (NPT)
- South Asia as a Nuclear Peace Zone

Suggested Readings:

1. P. R. Chari, Sonika Gupta (ed.), (2003), "Nuclear Stability in Southern Asia", New Delhi: Manas Publication
2. Partha S. Ghosh (1989), "Cooperation and Conflict in South Asia", New Delhi: Manohar Publications
3. Eric Gonsalves & Nancy Jetly, (1999), "The Dynamics of South Asia- Regional Cooperation and SAARC", New Delhi: Sage Publication
4. B. M. Jain, (1998), "South Asian Security Problems and Perspectives", Jaipur: Shree Publications
5. S. D. Muni & Anuradha Muni, (1984), "Regional Cooperation in South Asia", New Delhi: Sage Publication
6. Jasjit Singh, (1999), "Asian Security in the 21st Century". New Delhi: Knowledge World.

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DEPARTMENT OF ENVIRONMENTAL SCIENCES
CENTRAL UNIVERSITY OF JAMMU ANNEXURE - V

Minutes of the meeting of the Board of Studies of the Department held on 08.05.2015 in
Temporary Academic Block, Central University of Jammu

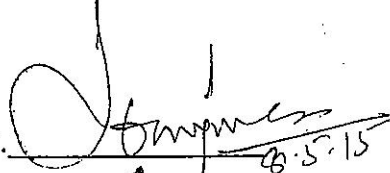
Following members were present:-

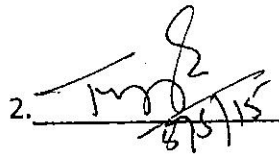
- | | | |
|-----------------------------|---|-----------------------|
| 1. Prof. H.S. Sehgal | - | Chairman |
| 2. Prof. Rajneesh K. Sharma | - | Member Expert |
| 3. Prof. R.K. Jindal | - | Member Subject Expert |
| 4. Prof. Devanand | - | Member |
| 5. Dr. G.K. Sehgal | - | Member |
| 6. Dr. Anita Singh | - | Member |
| 7. Dr. Pankaj Mehta | - | Member (Spl. Invitee) |

The members of the Board discussed different agenda items and decided as under:

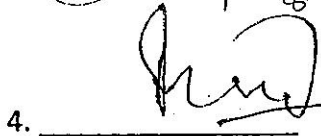
1. After thorough discussion the members of the Board recommended the scheme and syllabus of the 1st, 2nd, 3rd and 4th semester of MSc. Environmental Sciences Programme as given in Annexure 1 and Annexure 2 respectively.
2. The members of the Board authorized the Head of the Department of EVS to recommend the panel of experts for dissertation of 4th semester students and for practical examination.
3. After thorough discussion the members also recommended the scheme/syllabi of the Integrated M.Phil.-Ph.D. Programme as per CUJ ordinance.

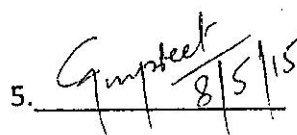
The meeting ended with vote of thanks to the chair.

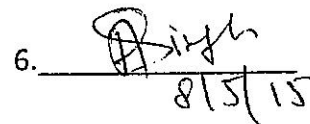
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8/5/15

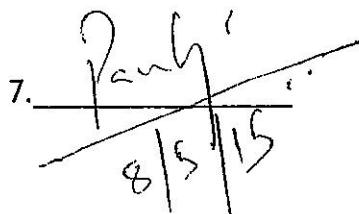
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8/5/20/15

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5. 
8/5/15

6. 
8/5/15

7. 
8/5/15

No: CUJ/Acad/S-11/2015 | 638

Date: 17.09.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, Department of Environmental Sciences, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus of 1st, 2nd, 3rd and 4th semesters. The approved Course Scheme and syllabus are as under:

SEMESTER-I (2015-16)

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGEVS1C001T	Environmental Chemistry	4	25	25	50	100
PGEVS1C002T	Principles of Ecology	4	25	25	50	100
PGEVS1C003T	Fundamentals of Earth Science	4	25	25	50	100
PGEVS1C004L	Lab Course-I	4	40	-	60	100
ELECTIVE COURSES (ANY ONE)						
PGEVS1E005T	Natural Resource Management	4	25	25	50	100
PGEVS1E006T	Solid Waste Management	4	25	25	50	100
PGEVS1E007T	Environmental Geoscience	4	25	25	50	100
FOUNDATION COURSES						
PGEVS1F008T	Environmental Awareness, Planning and Laws	2	12.5	12.5	25	50
Total		22				550

SEMESTER-II (2015-16)

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGEVS2C001T	Instrumentation and Analytical Techniques	4	25	25	50	100
PGEVS2C002T	Mountain Ecology	4	25	25	50	100
PGEVS2C003T	Energy Resources	4	25	25	50	100
PGEVS2C004L	Lab Course-II	4	40	-	60	100
ELECTIVE COURSES (ANY ONE)						
PGEVS2E005T	Biodiversity and its Conservation (pre-requisite PGEVS1E005T)	4	25	25	50	100
PGEVS2E006T	Energy from Wastes/By-products, and Biofuels (pre-requisite PGEVS1E006T)	4	25	25	50	100
PGEVS2E007T	Geochemistry (pre-requisite PGEVS1E007T)	4	25	25	50	100
FOUNDATION COURSES						
PGEVS2F008T	Mitigation and Management of Natural and Man-Made Disasters	2	12.5	12.5	25	50
Total		22				550

SEMESTER-III (2016-17)

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGEVS3C001T	Environmental Technology	4	25	25	50	100
PGEVS3C002T	Environmental Pollution and Control	4	25	25	50	100
PGEVS3C003T	Atmospheric Science and Climate Change	4	25	25	50	100
PGEVS3C004L	Lab Course-III	4	40	-	60	100
FOUNDATION COURSE						
PGEVS3F005T	Remote Sensing and GIS	2	12.5	12.5	25	50
INTERDISCIPLINARY COURSE						
PGEVS3I006T	Introduction to Ecology and Environmental Sciences	4	25	25	50	100
Total		22				550

SEMESTER-IV (2016-17)

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGEVS4C001T	Environmental Impact Assessment	4	25	25	50	100
PGEVS4C002T	Environmental Management System	4	25	25	50	100
PGEVS4C003T	Aquatic Ecosystems	4	25	25	50	100
PGEVS4C004D	Dissertation	8	-	-	200	200
FOUNDATION (ELECTIVE) COURSE						
PGEVS4F005T	Concepts of Ecotoxicology	2	12.5	12.5	25	50
INTERDISCIPLINARY COURSE (ANY ONE)						
PGEVS4I006T	Environmental Policies, Laws and Ethics	4	25	25	50	100
PGEVS4I007T	Current Environmental Issues and Concerns					
Total		26				650

Copy of the approved Syllabus of 1st-4th semesters is enclosed.

Registrar
17/9/15

Copy to:-

1. Dean, School of Life Sciences
2. All HODs
3. DR (Examinations)
4. AR (Acad.)
5. Staff Officer to VC
6. PA to Registrar

Applicable for the Academic year 2015-16

Subject Course Code No. **PGEVS1C001T**

Subject Course Title: Environmental Chemistry (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT-I: INTRODUCTION TO ENVIRONMENTAL CHEMISTRY

- 1.1 Law of thermodynamics- first, second and third
- 1.2 Enthalpy and Entropy
- 1.3 Adiabatic transformations
- 1.4 Chemical potentials
- 1.5 Gibbs Donnan equilibrium, phase equilibrium, Carnot's cycle

UNIT-II: FUNDAMENTALS OF ENVIRONMENTAL CHEMISTRY

- 2.1 Elements and organics and radionuclide in nature
- 2.2 Stiochiometry, Gibb's free energy
- 2.3 Chemistry equilibrium, chemical kinetics
- 2.4 Absorption, adsorption-isotherms, Vanderwal Forces, ion bonding.
- 2.5 Enzyme catalysis, Michaelis-Menten equation

UNIT-III: ATMOSPHERE CHEMISTRY

- 3.1 Major and trace gases in the atmosphere
- 3.2 Physical and chemical attributes of aerosols; sources, fate and sink of ambient aerosols
- 3.3 Thermo-chemical and photochemical reactions in the atmosphere
- 3.4 Tropospheric oxidation-reduction processes, smog formation; stratospheric and surface ozone, acid rain
- 3.5 Role of hydrocarbons, oxides of sulphur and nitrogen, halogens in the atmosphere; chemical speciation, particles, ions, and radicals in the atmosphere

UNIT-IV: CHEMISTRY OF AQUATIC ENVIRONMENT

- 4.1 Solubility of gases in water, carbonate system, Henry's Law Reactions
- 4.2 Oxidation-reduction potentials(ORP)
- 4.3 Chemistry of water and chemical reactions in aquatic environment
- 4.4 Concept of sediment and water oxygen demand-dissolved oxygen, BOD, COD
- 4.5 Water quality parameters

UNIT-V: SOIL CHEMISTRY

- 5.1 Physico-chemical characteristics of soil
- 5.2 Soil clays, organic carbon, humus and mineralization
- 5.3 Cation exchange capacity
- 5.4 Pathways of NPK
- 5.5 Soil acidity, salinity, sodicity

1. Mannahan, S.E. Environmental Chemistry. 9th Edition, CRC Press
2. Foth, H.D. Fundamentals of Soil Science. Wiley press
3. Gole, G.A. Text book of Limnology, Waveland Pr. Inc. Press
4. Sharma, B.K. and Kaur, H. Environmental Chemistry-Sharma & Kaur, Goel Publishing House
5. De, A. K. Environmental Chemistry, New Age International



Semester – I

Applicable for the Academic year 2015-16

Subject Course Code No: PG EVS1C002T

Subject Course Title: Principles of Ecology (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT-I: INTRODUCTION TO ECOLOGY

- 1.1 Aim and scope of Ecology
- 1.2 Concept of food chain, food web, ecological pyramids, trophic structure
- 1.3 Concept of primary and secondary productivity
- 1.4 Generalized model of energy flow, Shelford's law of tolerance, Liebig's law of minimum
- 1.5 Biogeochemical cycles: carbon, nitrogen, sulphur, phosphorus

UNIT-II: POPULATION ECOLOGY

- 2.1 Characteristics of population, evolutionary strategies r and k selection, attributes of population
- 2.2 Population growth vis-a-vis the concept of carrying capacity, 's' & 'j' shaped growth curve
- 2.3 Population interactions: positive and negative
- 2.4 Predator-prey relationship, Lotka –volterra equation
- 2.5 Population behaviour: Basic, regulatory, social and compensatory

UNIT-III: COMMUNITY CONCEPT AND ANALYSIS

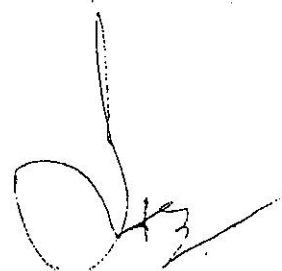
- 3.1 Concept of biotic communities, concept of niche, edge effect, keystone species, ecotypes, ecotone
- 3.2 Intra-community classification and the phenomenon of ecological dominance
- 3.3 Species diversity within community and measurement of diversity
- 3.4 Succession causes, trends and type of succession, climax community and types of climax

UNIT-IV: ECOSYSTEM

- 4.1 Structure and components of ecosystem
- 4.2 Major types of ecosystems: forest, grassland, lake, deserts, marine
- 4.3 Ecosystem stability, homeostasis, cybernetics, ecosystem regulation, Gaia hypothesis
- 4.4 Goods and services of ecosystems: supporting, provisioning, regulatory and cultural

Unit-V: BIOGEOGRAPHY

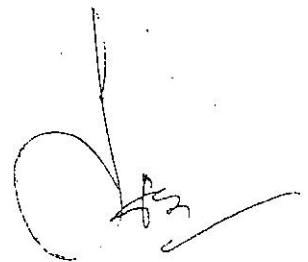
- 5.1 Concept of biogeography



- 5.3 Zoogeography realms of the world, fauna of oriental region
5.4 Floral and faunal peculiarities of Jammu and Kashmir an overview

REFERENCE BOOKS:

1. Smith, R.L. Ecology & Field Biology
2. Odum, E.P. Fundamentals of Ecology
3. Ricklefs, Principles of Ecology



Semester -I

Applicable for the Academic year 2015-2016

Subject Course Code No. **PG EVS1C003T**

Subject Course Title: Fundamentals of Earth Science (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours /Week: 4

UNIT I: INTRODUCTION TO ORIGIN OF EARTH

- 1.1 Introduction to various branches of Earth Sciences
- 1.2 General characteristics and origin of the Universe, Solar System and its planets
- 1.3 Primary differentiations of the earth and the formation of crust, mantle and core
- 1.4 Geodynamic elements of Earth: Mid Oceanic Ridges, trenches, transform faults and island arcs.

UNIT II: GEO-INVESTIGATION AND PETROLOGY

- 2.1 Earthquake and Distribution of earthquake belts
- 2.2 Volcanoes: Cause, types products and distribution
- 2.3 Introduction to geophysical methods of earth investigations
- 2.4 Plate tectonics, Mountain building, Formation of igneous, sedimentary and metamorphic rocks.

UNIT III: GEOMORPHOLOGY

- 3.1 Basic concepts of geomorphology
- 3.2 Introduction to global geomorphology and overview of Indian geomorphology
- 3.3 Minerals: definition and classification, physical and chemical composition of common rock forming minerals.

UNIT IV: ENGINEERING GEOLOGY

- 4.1 Geology vs. Engineering
- 4.2 Environmental considerations related to civil engineering projects
- 4.3 Construction materials
- 4.4 Geological hazards (landslides and earthquakes) their significance, causes and preventive/remedial measures.

UNIT V: HYDROGEOLOGY

- 5.1 Scope of hydrogeology and its societal relevance
- 5.2 Geological formations as aquifers, types of aquifers, geological classification of aquifers, springs
- 5.3 Groundwater occurrence in igneous, metamorphic and sedimentary rocks
- 5.4 Darcy's law and its validity. Groundwater provinces of India

REFERENCE BOOKS

1. Singh, S. 1998. Geomorphology. Prayag PustakBhavan, Allahabad.
2. Todd, D.K. Groundwater hydrology, 2nd Ed., John Wiley & Sons, N.Y.
3. Emiliani, C, 1992. Planet Earth, Cosmology, Geology and the Evolution of Life and Environment. Cambridge University Press.
4. Press and Siever, The Earth; W.H. Freeman
5. Skinner & Porter, The Dynamic Earth; Wiley

Semester – I

Applicable for the Academic year 2015-16

Subject Course Code No. PGEVS1C004L

Subject Course Title: Lab Course I (Core Course)

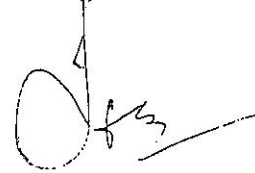
Duration of Examination: 6 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 8

Practical exercises based on courses MEVS-103, MEVS 105, MEVS 106 and MEVS 107/
MEVS 108/ MEVS 109



Semester – I

Applicable for the Academic year 2015-16

Subject Course Code No. **P4EVS1E005T**

Subject Course Title: Natural Resource Management [Elective (Discipline) Course]

Duration of Examination: 3

Hours Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: INTRODUCTION

- 1.1 Brief history of Natural resource management measures
- 1.2 Classification of Natural Resources
- 1.3 Approaches to Natural Resource Management
- 1.4 Understanding economy and ethics through sustainable development

UNIT II: AQUATIC RESOURCES

- 2.1 Classification of aquatic resources and its biota
- 2.2 Estimation of Planktons, benthos and nektons
- 2.3 Adaptation of aquatic organisms
- 2.4 Methods of sampling and analysis of aquatic water bodies
- 2.5 Trophic ecology of fishes: food habit analysis, trophic cascades, foraging connection through stable isotope ratio, fish deformities
- 2.6 Management of aquatic resources

UNIT III: MINERAL RESOURCES

- 3.1 Introduction, types and composition of minerals
- 3.2 Physical and chemical properties of minerals
- 3.3 Seven major classes of minerals: silicates, native elements, oxides, sulphides, sulphates, halides and carbonates
- 3.4 Extraction and processing of minerals and its environmental impacts
- 3.5 Mineral Conservation strategies

UNIT IV: BIOLOGICAL RESOURCES

- 4.1 Ecological principles for managing bio-resources
- 4.2 Microbial resources: forms and their importance in Industry
- 4.3 Forest resources and their management measures
- 4.4 Wildlife management: mortality factors, types of animal movements
- 4.5 Management and utilization of Marine bio-resources

UNIT V: LEGISLATION AND POLICY IN NATURAL RESOURCE MANAGEMENT

- 5.1 Natural resource management in India: Issues and solutions
- 5.2 Legislation for Natural resource Management in India
- 5.3 Coastal Zone Management and coastal Regulation Zones (CRZs)

Semester – I

Applicable for the Academic year 2015-16

Subject Course Code No. **PQ EVS 1 E 006 T**

Subject Course Title: Solid Waste Management [Elective (Discipline) Course]

Duration of Examination: 3

Hours Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: COMPOSITION OF SOLID WASTES

- 1.1 Sources and types of solid wastes
- 1.2 Composition of solid waste
- 1.3 Physical, chemical and biological properties of solid waste
- 1.4 Factors affecting solid waste generation rate

UNIT II: COLLECTION AND PROCESSING TECHNIQUES

- 2.1 Collection of solid wastes-Collection services,
- 2.2 Types of collection system, Transfer and transport.
- 2.3 Handling, separation and storage
- 2.4 Processing of solid waste: Shredding and pulverizing, baling, component separation

UNIT III DISPOSAL OF SOLID WASTE

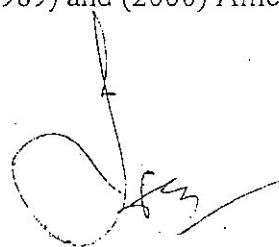
- 3.1 Dumping, land filling- site selection,
- 3.2 Leachate contamination, land filling methods
- 3.3 Design and operation of landfills occurrence and movement of gases and leachate in landfills
- 3.4 Treatments of leachates, land farming and deep well injection.

UNIT IV: WASTE MANAGEMENT

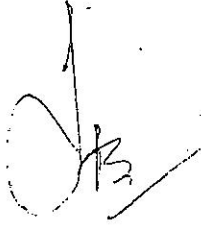
- 4.1 Sanitary Land filling, Recycling, Incineration
- 4.2 Composting, Vermicomposting, Energy recovery options from organic waste
- 4.3 Solid waste management plan, Municipal Solid Waste (Management and Handling) Rules, 2000
- 4.4 Hospital waste management, Biomedical Waste (Management and Handling) Rules, 1988
- 4.5 Fly ash management, Fly ash Management Rules, (1999)

UNIT V: HAZARDOUS WASTE MANAGEMENT

- 5.1 Sources and classification, Hazard communication,
- 5.2 Physico-chemical properties of hazardous waste needed in management.
- 5.3 Hazardous waste control, treatment and management
- 5.4 Hazardous Waste (Management and Handling) Rules (1989) and (2000) Amendments



1. George Tchobanoglous et.al., "Integrated Solid Waste Management", McGraw-Hill Publishers, 1993.
2. Solid Waste Management Manual CPCB, New Delhi
3. Environmental Hazards-Smith, Keith

A handwritten signature or set of initials, possibly 'J.B.', written in black ink. The signature is located in the upper right quadrant of the page, below the list of references.

Semester – I

Applicable for the Academic year 2015-16

Subject Course Code No. RQEVS1E007T

Subject Course Title: Environmental Geoscience [Elective (Discipline) Course]

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: EARTH PROCESSES

- 1.1 Brief geological history of the planet fundamental concepts
- 1.2 Primary differentiation and formation of core, mantle, crust, magma, generation, eruption and volcanoes
- 1.3 Formation and classification of rocks
- 1.4 Plate tectonics-sea floor spreading, mountain formation rock deformation and evolution of continents

UNI -II: SOIL

- 2.1 Weathering and soil formation
- 2.2 Soil profile
- 2.3 Soil classification
- 2.4 Soils of India
- 2.5 Ice sheets and fluctuations of sea levels
- 2.6 Volcanism: component and types of volcanoes, volcanic materials, processes and effects of volcanism

UNIT III: GEORESOURCES

- 3.1 Important ferrous and nonferrous metals, non-metallic and industrial minerals in India and in the world; mineral deposits through geologic time
- 3.2 Geo-indicators, resources and reservoirs
- 3.3 Mineral resources of J&K
- 3.4 Ocean as a new area for exploration of natural resources

UNIT IV: GEOLOGICAL AGENTS

- 4.1 Factors affecting landform development
- 4.2 Fluvial system: factors affecting stream erosion, deposition, erosional and depositional land form
- 4.3 Underground water system-water table, land forms formed through ground water action
- 4.4 Aeolian system: mechanism of wind erosion, erosional and depositional land forms
- 4.5 Glacial system: mechanism of glacial erosion, erosional and depositional land forms

UNIT-V: ENVIRONMENTAL GEOCHEMISTRY

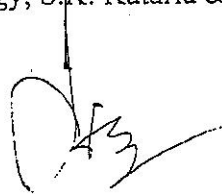
- 5.1 Atomic properties of elements. Periodic table and geochemical classification of elements

and biosphere

- 5.3 Introduction to mineral structures and compositions; thermodynamic classification of elements into essential, structural, major and trace elements
- 5.4 Mineral stability diagrams and controls on the chemistry of natural waters

REFERENCE BOOKS:

1. Press & Seiver, The Earth, Frank Press
2. Skinner & Porter, Dynamic Earth, Wiley
3. Krauskopf, Introduction to Geochemistry, Mc-Graw Hill
4. Parbin Singh, Engineering & General Geology, S.K. Kataria & Sons

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Semester – I

Applicable for the Academic year 2015-16

Subject Course Code No. **PG EVS 1 F 008 T**

Subject Course Title: **Environmental Awareness, Planning and Laws (Foundation Compulsory/ Ability Enrichment Course)**

Duration of Examination: 2 Hours

Maximum Marks: 50

Credits: 2

Contact Hours / Week: 2

UNIT-I: ENVIRONMENTAL AWARENESS

- 1.1 Environmental education: formal and in-formal methods; role of media in environmental awareness, role of NGOs, public participation in environmental movements
- 1.2 Current environmental issues, Stockholm Declaration, Earth summit, Vienna convention
- 1.3 Montreal Protocol, Kyoto Protocol, Agenda 21, Environmental ethics
- 1.4 Sustainable development-principles and practices in relation to economics and ecology

UNIT-II: ENVIRONMENTAL PLANNING

- 2.1 Basic concepts of environmental planning
- 2.2 Rain water harvesting
- 2.3 Coastal regulation zone management
- 2.4 Cost-benefit analysis-its relevance, concept of consumer surplus, willingness to pay and accept, travel cost approach, Hedonic price approach
- 2.5 A Case study

UNIT III: ENVIRONMENTAL LAWS

- 3.1 The Water (Prevention and Control of Pollution) Act, 1974
- 3.2 The Air (Prevention and Control of Pollution) Act, 1981
- 3.3 The Environmental Protection Act, 1986
- 3.4 Wild Life Protection Act 1972, 1991
- 3.5 Biological Diversity Act, 2002
- 3.6 Forest conservation Act, 1986

REFERENCE BOOKS:

1. Steie, G. Economics and Environment
2. Saxena, K.D. Environmental Planning, Policies & Programmes in India
3. Diwan, P. Environmental Administration and Law
4. Garg, V.K., Bishnoi, M.S., Malik, C.P. An introductory text of environmental policies and law

Semester – II

Applicable for the Academic year 2015-16

Subject Course code No. PG.EVS 2 C 001T

Subject Course Title: Instrumentation and Analytical Techniques (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Course Credits: 4

Contact Hours / Week: 4

UNIT I: BASIC ANALYTICAL TECHNIQUES

- 1.1 Standard protocol for sampling of air, water and soil for chemical analysis
- 1.2 Gravimetric analysis and Volumetric analysis
- 1.3 Collection and estimation of Phytoplankton, zooplankton and benthos
- 1.4 Principle, Structure and working of pH meter, Conductivity meter, Nephelometer,
- 1.5 Bomb calorimeter, Sound level meter

UNIT II: SEPARATION TECHNIQUES

- 2.1 Basics of Chromatography
- 2.2 Principles, procedure and applications of paper chromatography, thin layer chromatography and column chromatography
- 2.3 Gas chromatography: Principle, working and applications
- 2.4 High Pressure Liquid Chromatography HPLC: Principle, working and applications

UNIT-III: OPTICAL TECHNIQUES IN ENVIRONMENTAL ANALYSIS

- 3.1 Basics of microscopy
- 3.2 Components of optical microscopy and uses
- 3.3 Scanning Electron Microscopy (Principle, working and applications)
- 3.4 Transmission Electron Microscopy (Principle, working and applications)

UNIT IV: SPECTROMETRY

- 4.1 Basics of spectrometry
- 4.2 Absorption spectrometry: Principle, working and applications
- 4.3 Emission spectrometry: Principle, working and applications.

UNIT V: QUALITY ASSURANCE AND QUALITY CONTROL IN INSTRUMENTATION

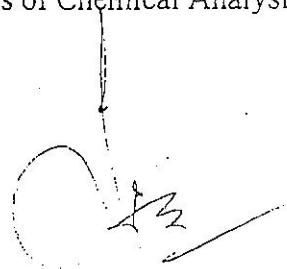
- 5.1 Performance characteristics of instruments (Static and Dynamic), uncertainties in performance parameters and their estimation
- 5.2 Accuracy, Precision and Error estimation
- 5.3 Calibration, method validation and control charts
- 5.4 QA/QC procedures

REFERENCE BOOKS:

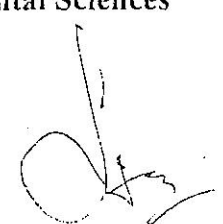
1. Sharma, B. K. Instrumental Methods for Chemical Analysis. Goel Publishing House Meerut, 24Ed, 2005
2. Sharma, B.K. Environmental Chemistry. Krishna Publishing, 12^{ed}, 2011

2012

4. James W. Robinson. Practical Handbook of spectroscopy. CRC press, 1991
5. Eric V Grave. Using the Microscope: A guide for naturalists. Dover publication, 1991
6. Chatwal, G.R and Anand, S. Instrumental Methods of Chemical Analysis 2011



Syllabus for the Masters Degree Programme in Environmental Sciences
Semester – II



Subject Course code No. **PG EVS 2 C002T**
Subject Course Title: **Mountain Ecology (Core Course)**
Duration of Examination: **2 Hours**
Course Credits: **4**

Maximum Marks: 100
Contact Hours / Week: 4

UNIT I: ORIGIN, TECTONICS AND CLIMATE

- 1.1 Mountain building processes-geosynclinals hypothesis and plate tectonic theory
- 1.2 Himalaya-origin and stages of deformation
- 1.3 Tecto-geomorphology-geomorphic markers of tectonic deformation; active tectonics and alluvial rivers; tectonic-climate interaction; landscape response to active tectonics.
- 1.4 Himalaya and the climate of the Indian sub-continent

UNIT II: MOUNTAIN ECOSYSTEMS

- 2.1. Mountain Ecosystems;
 - a) Forests
 - b) Grass lands
 - c) Lakes ,streams and Dams
 - d) Cold and arid deserts
- 2.2 Mountains and ecological adaptations of plants and animals
- 2.3 Effects of Relief, precipitation, and temperature on distribution of plants and animals

UNIT III: MOUNTAIN HYDROLOGY

- 3.1. Glaciers and Glacial morphology
- 3.2. Glacial landscapes-processes and various landforms
- 3.3. Mountain hydrology- surface flow and melt water discharge
- 3.4. Mountain ground water hydrology

UNIT IV: MOUNTAIN RESOURCES

- 4.1. Biological resources: plants and animals
- 4.2. Mineral resources: fossil fuels, metallic and non metallic minerals
- 4.3. Energy resources: hydro, wind and geothermal
- 4.4. Tourism potential of mountains

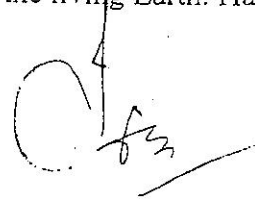
UNIT V: SOCIO ECONOMIC, CULTURAL AND ENVIRONMENTAL ASPECTS

- 5.1. Mountains as fragile systems
- 5.2. Role of tribal population in mountain protection
- 5.3. Deforestation, soil erosion and biodiversity loss
- 5.4. Climate change and mountains
- 5.5. Mountain hazards: landslides, avalanches, flash floods, cloud bursts.

BOOKS RECOMMENDED:

1. Jennifer Frick-Ruppert 2010 Mountain Nature- a Seasonal Natural History of the southern Appalachians. The University of North Carolina Press.
2. C. David Whiteman 2000 Mountain Meteorology- Fundamentals and Applications. Oxford University Press.

4. Kirk Johnson et al. 2005 Ancient Denevers: Sciences from past 300 million years of the Colorado Front Range. Fulcrum Publishing.
5. Ellen E Wohl 2000 Mountain Rivers. American Geophysical Union.
6. P. Tapponier 2006 Mountains: Masterworks of the living Earth. Harry N. Abrams Inc.



Semester – II

Applicable for the Academic year 2015-16

Subject Course Code No. **PQEVS 2 C 003T**

Subject Course Title: Energy Resources (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: INTRODUCTION TO ENERGY

- 1.1 Definition, forms and classification of energy
- 1.2 Measurement of energy
- 1.3 Indian and global energy resources
- 1.4 Pattern of energy consumption

UNIT II: RENEWABLE ENERGY RESOURCES -I

- 2.1 Source of Sun's Energy, solar spectrum, solar radiation, earth's energy balance, harnessing of solar energy
- 2.2 Wind energy; wind power, harnessing of wind energy, hybrid wind energy systems
- 2.3 Principles of hydroelectric power generation, ocean energy (tides, waves, currents)
- 2.4 Sources, harnessing methods and potential of geothermal energy

UNIT III: RENEWABLE ENERGY RESOURCES -II

- 3.1 Types and composition of biomass
- 3.2 Conversion processes; biomass gasification and biogas production
- 3.3 Production of biofuels (ethanol and bio-diesel)
- 3.4 Energy from landfill gas, distillery waste, Sewage, and paper mill waste
- 3.5 Biotoilets

UNIT IV: NON-RENEWABLE ENERGY RESOURCES

- 4.1 Coal; formation, types and reserves of coal; coal mining and utilization
- 4.2 Petroleum (oil and natural gas); formation and reserve of petroleum; Processing of crude oil
- 4.3 Nuclear energy; sources, fuels refining and enrichment, fuel cycle. Nuclear reactors for energy generation disposal and safety measures of radioactive wastes

UNIT V: CONSERVATION AND MANAGEMENT OF ENERGY

- 5.1 Environmental degradation due to energy production and utilization
- 5.2 Principles of energy conservation
- 5.3 Objectives and principles of energy management
- 5.4 Energy Audit: need, types, and methodology
- 5.5 Future energy options

REFERENCE BOOKS:

1. Craig. J.R., Vaughan. D.J., Skinner. B.J., Resources of the Earth: origin, use, and environmental impact, 2nd Ed. Prentice Hall, New Jersey.
2. Klee. G.A., Conservation of natural resources. Prentice Hall Publ. Co., New Jersey.

- Management for a sustainable future, 7th Ed. Prentice Hall.
4. Anjaneyulu. Y, Introduction to Environmental Science. B. S. Publications.
 5. D. Daniel Chiras, Environmental Science, 6th Ed., Jones and Bartlett Publishers.
 6. Mukherji Shormila, Fragile environment, Manak Publication Pvt. Ltd.



Semester – II

Applicable for the Academic year 2015-16

Subject Course Code - PG/EVS 2C004L

Subject Course Title: Lab Course II (Core Course)

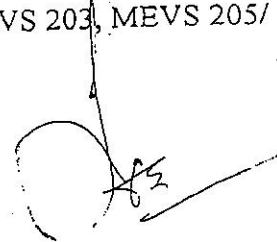
Duration of Examination : 6 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 8

Practical exercises based on the courses, MEVS-201, MEVS 202, MEVS 203, MEVS 205/
MEVS 206/ MEVS 207 and MEVS-208



Semester – II

Applicable for the Academic year 2015-16

Subject Course Code No. PG EVS 2 E 005 T

Subject Course Title: Biodiversity and its Conservation [Elective (Discipline) Course]

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: INTRODUCTION TO BIODIVERSITY

- 1.1 Introduction: Definition, History, Components and importance of Biodiversity
- 1.2 Biodiversity Climatic Zones, resources of India
- 1.3 Nomenclature and classification; International code of Zoological, Botanical (ICBN)); bacteria and viruses
- 1.4 An overview of classification of animals and plants
- 1.5 Biodiversity hotspots and their characteristic flora and fauna, threatened plants and animals of India

UNIT II: LEVELS AND TYPES OF BIODIVERSITY

- 2.1 Levels of Biodiversity (alpha, beta and gamma), gradients of biodiversity (latitudinal, altitudinal and insular)
- 2.2 Ecosystem diversity: Mangroves, coral reefs, wetlands and terrestrial
- 2.3 Species diversity: magnitude of biodiversity (global and Indian data), richness, evenness, loss of species, species diversity indices
- 2.4 Genetic Diversity : sub species, breeds, race, variety and genes. Variation in genes and alleles; consequences of monotypic culture practice (agriculture)

UNIT III: THREATS TO BIODIVERSITY

- 3.1 Threats to biodiversity:
 - a) Natural process (Mass extinction)
 - b) Anthropogenic processes : Habitat destruction, fragmentation
 - c) Exploitation and effect on target species
 - d) Land use and its impact
- 3.2 Ecosystem degradation influences on biodiversity (grassland, fresh water, coastal, agriculture)
- 3.3 Impact of non-native or invasive species
- 3.4 Population, metapopulation, extinction of local population, inbreeding; minimum viable population and extinction vortex.

UNIT IV: CONSERVATION BIOLOGY

- 4.1 Conservation history, practice and ethics
- 4.2 Insitu and exsitu conservation, Red data book (IUCN Red list category)
- 4.3 Gene bank (field gene bank and gene bank in India), seed bank, pollen, tissue and cryopreservation, sperm and egg bank, genomic resource bank).

species

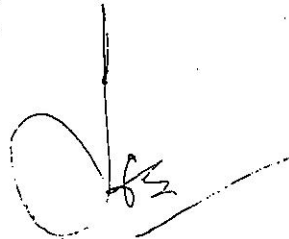
- 4.5 Bioprospecting (molecular techniques like RAPD, RFLP, AFLP, DNA sequencing)
- 4.6. Organizations involved in environmental conservation : CITES, IUCN, WWF, UNEP, GREEN PEACE

UNIT V: USE OF BIODIVERSITY

- 5.1. Indigenous knowledge and biodiversity use value: biodiversity use, Direct : food, medicine, industrial, recreational and ecotourism; indirect : biocultural, biomedicational, environmental modulation, ecosystem function, ecological services.
- 5.2. Case studies related to biodiversity conservation; honey bee, mushroom culture, neem tree, Tulsi.
- 5.3. Traditional use and ecological value of indigenous plants and animals

SUGGESTED READINGS:

1. Botkin, Daniel B . and Keller, Edward A . Environmental Science : *Earth as a Living Planet*. 6th ed. John Wiley & Sons, USA. 2007
2. Enger, E.D. and Smith, B.F Environmental Science: *A Study of Interrelationships*. 11th ed . Mc Graw Hill Inc, USA. 2006
3. Frankel, O.H. Brown A.H.D. and Burdon, J.J. *Conservation of Plant Diversity*. Cambridge University Press, UK. 1995.
4. Gadgil, Madhav and Rao, P.R.S. *Nurturing Biodiversity : An Indian Agenda*. Centre for Environment Education, Ahmadabad, India.
5. Meffe G.k. and C. Ronals Corrol (1994) *Principles of Conservation Biology*, Sinaur Associates, Inc. Sunderland. Massachusetts.



Semester – I

Applicable for the Academic year 2015-16

Subject Course Code No. PG EVS 2 E006T

Subject Course Title: Energy from Wastes/By-Products, and Biofuels [Elective
(Discipline) Course]

Duration of Examination: 3

Credits: 4

Hours Maximum Marks: 100

Contact Hours / Week: 4

UNIT I: ENERGY FROM WASTE

- 1.1 Introduction to waste to energy conversion: Waste to energy (WTE): An introduction
- 1.2 Environmental and social impacts of waste to energy (WTE) conversion plants
- 1.3 Recovery of energy from municipal solid waste and industrial waste,
- 1.4 Energy generation from waste: Refuse Derived Fuel (RDF)

UNIT II: CONVERSION OF BIOMASS TO ENERGY

- 2.1 Biochemical conversions of industrial waste and agro residues for energy generation
- 2.2 Anaerobic digestion- biogas production; types of biogas plant
- 2.3 Thermochemical conversions: sources of energy generation,
- 2.4 Environmental impacts of biochemical and thermochemical conversion

UNIT III: BIOMASS ENERGY

- 3.1 Sources of biomass energy, Petroleum plants, Energy plantation
- 3.2 Classification and generations of biofuel
- 3.3 Policy issues in biofuels, Indian Biofuel Programme
- 3.4 Advantages and disadvantages of biofuels, Recent Trends in biofuel production

UNIT IV: LIQUID BIOFUELS

- 4.1 Ethanol production from starch, sugar materials and lignocellulosic biomass
- 4.2 Ethanol and Biodiesel production from algae
- 4.3 Biodiesel fuel, origin, chemical and physical properties
- 4.4 Biodiesel production from Jatropha, cooking oil
- 4.5 Bio-methanol and dimethylether

UNIT V: GASEOUS AND SOLID BIOFUELS


- 5.1 Biogas and methane production from organic waste
- 5.2 Hydrogen production from organic waste and algae
- 5.3 Synthetic natural gas
- 5.4 Wood, charcoal, Briquetting; utilization and advantages of briquetting

REFERENCE BOOKS:



1999

2. Kothari, D.P., Singal, K.C. and Ranjan, R. 2008. Renewable Energy Sources and Emerging Technologies, Prentice hall, New Delhi.
3. Armstrong, F. and Blundell, B. K. 2007. Energy beyond oil, Oxford, New York.
4. Bhojvaid, P.P. 2007. Biofuels Towards a Greener and Secure Energy Future Teri Press, New Delhi.
5. Klinghoffer, N. and Castaldi, M. 2013. Waste to Energy Conversion Technology. Woodhead Publishig

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Semester – II

Applicable for the Academic year 2015-16

Subject Course Code No. PQEVS 2E007T

Subject Course Title: Geochemistry [Elective (Discipline) Course]

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: INTRODUCTION TO GEOCHEMISTRY

- 1.1 The history of Geochemistry, The periodic table, chemical bonding.
- 1.2 States of matter, and atomic environments of elements,
- 1.3 Geochemical classification and Mobility of elements.

UNIT II: GEOCHEMICAL CYCLES

- 2.1 The formation of solar system, the Earth in the solar system
- 2.2 Composition of the bulk Silicates, meteorites. Geochemical behaviour of selected elements like Fe, Ni, Si, Al etc.
- 2.3 Basic concept of biogeochemical cycling, concept of reservoirs and fluxes.

UNIT III: SOIL GEOCHEMISTRY

- 3.1 Thermodynamic classification of elements into essential, structural, major and trace elements
- 3.2 Partitioning of element during mineral formation; chemical reactions involving proton and electron transfers.
- 3.3 Factors controlling Soil formation, Soil major nutrients and Trace elements,
- 3.4 Effects of modern agriculture on soil geochemistry.

UNIT IV: GEOLOGICAL PROCESSES & GEOCHEMICAL SAMPLING

- 4.1 Sampling and Geochemical sample preparation.
- 4.2 Geological processes and their geochemical signatures,
- 4.3 Abundance of elements in the bulk earth, crust, hydrosphere, atmosphere and biosphere.

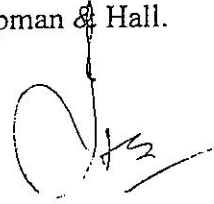
UNIT V: CHEMICAL WEATHERING & ISOTOPE GEOCHEMISTRY

- 5.1 Chemical weathering of rock-forming minerals,
- 5.2 Paleosols and past climate.
- 5.3 Health aspects of geochemistry in modern environment,
- 5.4 Radioactivity, decay of parent and growth of daughter nuclides and methods of radiometric dating,
- 5.5 Stable isotopes, their fractionation and application to paleoclimates.

BOOK REFERENCES

1. Faure, G (1998) Principles and Applications of Geochemistry. 2nd Edition Prentice-Hall, New Jersey

3. Mason, B (1986). Principles of Geochemistry. 3rd Edition, Wiley New York.
4. Holme (1992). Principles of Physical Geology. Chapman & Hall.

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SEMESTER - II

Applicable for the Academic year 2015-16

Subject Course Code No. **PG EVS 2 F 008T**

Subject Course Title: **Mitigation and Management of Natural and Man-Made Disasters**
(Foundation Elective/Skill Based course)

Duration of Examination: 2 Hours

Maximum Marks: 100

Credits: 2

Contact Hours / Week: 2

UNIT I: INTRODUCTION TO DISASTERS

- 1.1 Definition of a disaster; difference between a disaster and a hazard.
- 1.2 Natural disasters: Meaning and nature of natural disasters, their types and effects.
- 1.3 Man-made disasters: Meaning and nature of man-made disasters, their types and effects
- 1.4 Disaster management cycle

UNIT II: TYPES OF DISASTERS

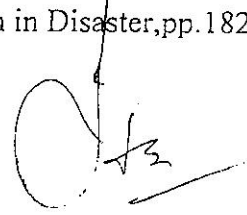
- 2.1 Geological disasters: Earthquakes- hazards and impacts, Richter scale and Modified Mercalli scale measurements, prediction and forecasting structural damage and its prevention; Tsunamis; Volcanoes
- 2.2 Geomorphic disasters: Landslides, falls, slides, debris flows, Slope stability analysis; Slope stabilization methods
- 2.3 Hydrological and meteorological disasters: Floods; Droughts and Famines; Cyclones
- 2.4 Space disasters
- 2.5 Man-made/Accidental Disasters: nuclear and chemical disasters, biological disasters, epidemics and disease outbreaks, fires (building fire; coal mine fire; forest fire; oil field fire, deforestation and desertification, transport accidents: road, rail, air, and sea accidents

UNIT III: HEALTH AND SOCIAL ISSUES ASSOCIATED WITH DISASTERS AND MANAGEMENT STRATEGIES

- 3.1 Major health and social issues: communicable and vector related diseases, environmental health challenges, physical, socio-economic and emotional impacts, most vulnerable groups to disasters
- 3.2 Pre-disaster management plan, personnel training, volunteer assistance, School based Programmes
- 3.3 Hazardous material, storing and handling, coping with exposure to hazardous materials
- 3.4 Education and public awareness about a) community based Initiatives b) Non Government Organizations (NGOs), regional and International organizations / donor agencies, methods of dissemination, c) Advantages and disadvantages of the community based approach
- 3.5 Emergency Management Systems; GIS applications

REFERENCE BOOKS:

1. Coppola P Damon, 2011, 2nd edition. Introduction to International Disaster Management, Butterworth-Heinemann Press.
2. Cuny, F. 2010. Development and Disasters, Oxford University Press.
3. Gupta Anil K, Sreeja S. Nair. 2011. Environmental Knowledge for Disaster Risk Management, NIDM, New Delhi.
4. Kapur Anu 2010: Vulnerable India: A Geophysical Study of Disasters, IAS and Sage Publishers, New Delhi.
5. IFRC, 2005. World Disaster Report: Focus on Information in Disaster, pp.182-225



Semester – III

Applicable for the Academic year 2016-17

Subject Course Code No. **PG EVS 3C001T**

Subject Course Title: Environmental Technology (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: TYPES OF MICROBES AND THEIR IMPORTANCE

- 1.1 Environmental microbiology: definition, concept, scope and importance
- 1.2 Classification and structure of microorganisms (Bacteria, virus and Fungi)
- 1.3 Microbes in agriculture : bio-fertilizers
- 1.4 Food microbiology - micro-organisms of food, microbes in food production, food spoilage – fish and meat, food poisoning and its prevention

UNIT II: MICROBES AND ENVIRONMENT

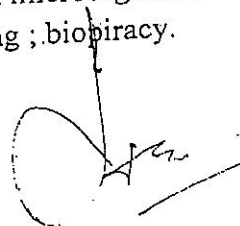
- 2.1 Microbial Methods: types of culture, techniques used in enrichment of culture, method of pure culture, preparation, maintenance and preservation of microbial culture, sterilization and disinfection,
- 2.2 Microbes and environment: role of microorganisms in natural system and artificial system; microbes and nutrient cycles
- 2.3 Microbial communication system; microbial fuel cells; prebiotics and probiotics; vaccines.
- 2.4 Microbiology of water, air and soil; environmental aspects of infectious diseases (water born diseases)

UNIT III: BASIC BIOTECHNOLOGY

- 3.1 Structures and function of DNA
- 3.2 Gene expression
- 3.3 Introduction to cloning and recombinant DNA technology/genetic engineering: restriction enzymes, cloning vectors, agarose and polyacrylamide gel electrophoresis, automated DNA sequencing, genome resources, PCR, environmental applications of genetic engineering.
- 3.4 Development of Genetically modified organisms GMOs (transgenic plants and animals); GMOs for human welfare; consequences of GMOs on environment; issues related to Bt cotton and Bt brinjal

UNIT IV: ENVIRONMENTAL BIOTECHNOLOGY

- 4.1 Environmental Biotechnology in Pollution Control.
- 4.2 Bioremediation: role of microbe, plants and GEMs.
- 4.3 Integrated system for biodegradation of PCBs, halogenated hydrocarbons , PAHs, pesticides and detergents; biodegradable plastics production from microorganisms.
- 4.4 Role of biotechnology in reclamation of wasteland; bioprospecting ; biopiracy.



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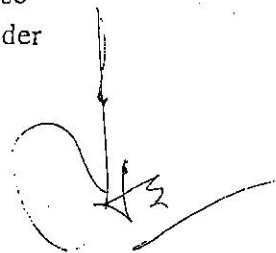
4.6 Development of gene probes for environmental remediation; biosensors.

UNIT V: NANOTECHNOLOGY AND GREEN TECHNOLOGY

- 5.1 Nanotechnology: Introduction, scope and applications.
- 5.2 Nanostructures and properties; metal nanoparticles; applications of nanoproducts.
- 5.3 Green technology: Introduction and tools, basic principles of Green technology; production of green technology based products; concept of Atom economy; Zero waste technology.
- 5.4 Biopolymers and bioplastics.

REFERENCE BOOKS:

1. Scragg, A.H., Environmental Biotechnology. Oxford University Press.
2. Rittmann, B. E. and McCarty, P.L., Environmental Biotechnology: Principles and applications. McGraw Hill.
3. Evans, G.M. and J.C. Furlong. Environmental Biotechnology: Theory and application. John Wiley and Sons Publication.
4. Microbiology 6th ed: Purohit, Agrobios
5. Global environmental Biotechnology : D. L. Wise
6. Methods in Biotechnology : Hans Peter Schmauder



Semester - III.

Applicable for the Academic year 2016-17

Subject Course Code No. **PG EVS 3C 002T**

Subject Course Title: **Environmental Pollution and Control (Core Course)**

Duration of Examination: **3 Hours**

Maximum Marks: **100**

Credits: **4**

Contact Hours / Week: **4**

UNIT I: INTRODUCTION

- 1.1 Air Pollution: Types, sources and classification of air pollutants
- 1.2 Effect of air pollution on plants, animals and human health.
- 1.3 General methods of control of air pollutants from mobile and stationary sources.
- 1.4 Air quality standards

UNIT II: WATER POLLUTION

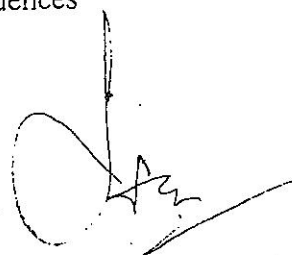
- 2.1 Water Pollution: Types, sources and classification
- 2.2 Industrial effluents characteristics of effluents from different industries (pulp and paper mills, oil exploration and refinery) water quality standards proposed by national and international agencies
- 2.3 Estuarine pollution, marine pollution, Eutrophication - causes, effects and control measures
- 2.4 Waste water characteristics-Domestic waste water, Sewage treatment: preliminary, primary, secondary and tertiary treatment; process description of aerobic and anaerobic processes: aerobic fixed film bed reactor, anaerobic fluidized bed reactor, Upflow Anaerobic Sludge Bed reactor (UASB)

UNIT III: NOISE AND RADIOACTIVE POLLUTION

- 3.1 Noise Pollution: types, sources, consequences; measurement of noise pollution, threshold hearing level and abatement measures
- 3.2 Radio-active Pollution: types, sources and consequences
- 3.3 Biological effects of ionizing radiation's: the interactions of radiation's with cells - various stages, somatic and genetic effect; maximum permissible dose
- 3.4 Parameters affecting the radiation monitoring - personal monitoring equipment's; Disposal and management of radioactive waste

UNIT IV: SOIL POLLUTION

- 4.1 Sources of soil pollution: industrial effluents, fertilizers, pesticides, heavy metals and waste disposal
- 4.2 Effects of soil pollutants on flora , fauna and ground water
- 4.3 Solid-waste Pollution: types, sources and consequences
- 4.4 Waste management practices

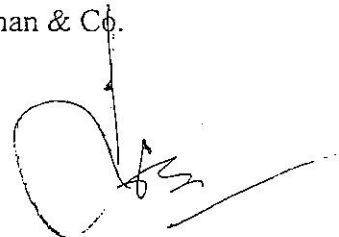


UNIT-V: THERMAL OIL and E-WASTE POLLUTION

- 5.1 Thermal pollution : sources, impact and control
- 5.2 Oil pollution ;sources of oil spillage and impact, factors effecting fate of oil spillage
- 5.3 E-waste : generation, sources, types and constituents; environmental consequences and management of E-waste
- 5.4 Bio indicators of Pollution

REFERENCE BOOKS:

1. Introduction to Environmental Engineering and Science- Gilbert M Masters.
2. Environmental Engineering –Peavy and Rowe. McGraw Hill.
3. Environmental Engineering-Gerard Kiely (Tata McGraw-Hill Publishing Company
4. De. A. K. Environmental Chemistry. New age International (P) Ltd., New Delhi, India.2000
5. Baird, S.K. Environmental Chemistry. W. H. Freeman & Co.



Semester – III

Applicable for the Academic year 2016-17

Subject Course Code No.: PG EVS 3C003T

Subject Course Title: Atmospheric Science & Climate Change (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: INTRODUCTION

- 1.1 Structure and composition of the atmosphere
- 1.2 The Earth's Radiative Energy Balance and the concept of radiative forcing
- 1.3 Atmospheric Stability
- 1.4 Cloud Formation and precipitation

UNIT II: FUNDAMENTALS OF METEOROLOGY

- 2.1 Weather versus Climate
- 2.2 Pressure Gradient Force, Coriolis Force, Centrifugal Force, Friction
- 2.3 Pressure Belts and Winds
- 2.4 Atmospheric circulation models

UNIT III: THE CLIMATE SYSTEM

- 3.1 Climate Classification (Koppen and Thornthwaite)
- 3.2 Monsoon, Western Disturbances
- 3.3 Jet Streams, El-nino and Southern Oscillation (ENSO)
- 3.4 Climate of India

UNIT IV: CLIMATE DYNAMICS AND CHANGE

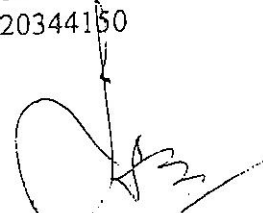
- 4.1 The Climate system and the factors responsible for climate change
- 4.2 Climate Variability, Global Dimming versus Global Warming
- 4.3 Aerosols and their role in climate change
- 4.4 Impact of climate change on important sectors, Adaptation and Mitigation Strategies for Climate Change

UNIT V: ATMOSPHERIC MODELLING

- 5.1 Factors across different time scales and their interaction of climate system
- 5.2 Elementary models, Numerical models, *Discretization*
- 5.3 Basic concepts of numerical weather prediction, climate modelling
- 5.4 Climate Equilibria, Climate Sensitivity and Feedbacks, Global circulation Models (GCM), IPCC report

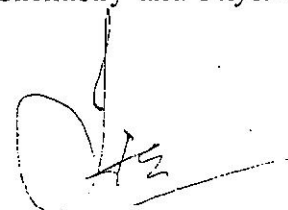
REFERENCE BOOKS:

1. Frederick K. Lutgens, Edward J. Tarbuck (2010): The Atmosphere: An Introduction To Meteorology, Phi (Prentice-hall New Arrivals), ISBN: 978-8120344150



Survey, 2nd Edition, Academic Press, ISBN: 978-0127329512

3. John H. Seinfeld, Spyros N. Pandis (2006): Atmospheric Chemistry and Physics. John Wiley & Sons Inc., ISBN: 978-0-471-72018-8

A handwritten signature or set of initials, possibly 'JHSP', written in black ink. The signature is somewhat stylized and includes a long horizontal stroke extending to the right.

Syllabus for the Masters Degree Programme in Environmental Sciences

Semester – III

Applicable for the Academic year 2016-17

Subject Course Code No. PG EVS 3 C 004 L

Subject Course Title: Lab Course III (Compulsory Course)

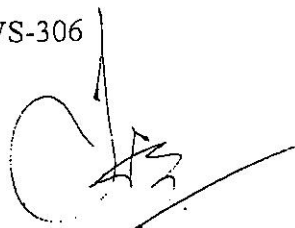
Duration of Examination: 6 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 8

Practical exercises based on courses, MEVS-302 to MEVS-306

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Semester – III

Applicable for the Academic year 2016-17

Subject Course Code - PG EVS 3 F 005T

Subject Course Title: Remote Sensing and GIS (Foundation Elective/ Skill Based Course)

Credits: 2

Maximum Marks: 50

Duration of Examination: 2 Hours

Contact Hours / Week: 2

UNIT I: REMOTE SENSING AND IMAGE INTERPRETATION

- 1.1 Remote Sensing – fundamentals, Platforms in remote sensing, Satellites and their characteristics
- 1.2 Basic principles, types, steps and elements of image interpretation.
- 1.3 Concept of digital image processing: Image enhancement techniques, Concept of Spatial Filtering and edge Enhancement
- 1.4 Concept of Supervised and unsupervised classification and classification accuracy assessment

UNIT II: FUNDAMENTALS OF GIS AND GPS

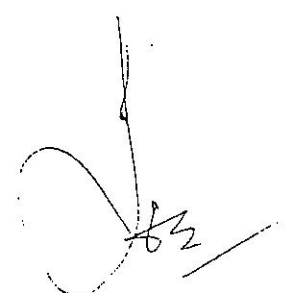
- 2.1 GIS concepts, Coordinate system and projections, GIS data modeling
- 2.2 Basic concepts of cartography, Data structures- vector and raster data
- 2.3 Data inputting, data storage, data editing, Hardware and Software requirement for GIS.
- 2.4 Basic principles of global positioning system (GPS). GPS measurements and accuracy of GPS

UNIT III: APPLICATION OF GIS AND REMOTE SENSING

- 3.1 Remote sensing based land use/land cover mapping.
- 3.2 Remote Sensing & GIS application in hazard zonation mapping.
- 3.3 Remote sensing of water resources, Drainage mapping, flood mapping.
- 3.4 Remote sensing application in forest cover mapping.

REFERENCE BOOKS:

1. Lillesand Kiefer Chipman: Remote sensing and Image interpretation, Willey
2. Stephen Wise: GIS Fundamentals (Second Edition), CRC Press
3. Robert A. Schowengerdt: Remote Sensing, Elsevier



Semester – I

Applicable for the Academic year 2016-17

Subject Course code No. **P4EVS3I006T**

Subject Course Title: Introduction to Ecology and Environmental Sciences [Elective
(Interdisciplinary) Course]

Duration of Examination: 3 Hours

Maximum Marks: 100

Course Credits: 4

Contact Hours / Week: 4

UNIT I: INTRODUCTION TO ECOLOGY

- 1.1 Introduction to Ecology and environmental sciences
- 1.2 Branches of ecology
- 1.3 Ecological factors
 - a) Abiotic
 - b) Biotic
 - c) Edaphic
- 1.4 Law of Minimum and law of Tolerance

UNIT II: COMPONENTS OF ENVIRONMENT

- 2.1 Atmosphere
- 2.2 Hydrosphere
- 2.3 Lithosphere
- 2.4 Biosphere and its components

UNIT III: INTRODUCTION TO ECOSYSTEM

- 3.1 Concept of Ecosystem
- 3.2 Energy flow in Ecosystem
- 3.3 Primary and secondary Productivity
- 3.4 Concept of Food chain, Food Web and Ecological Pyramids

UNIT IV: NATURAL RESOURCES AND THEIR CONSERVATION

- 4.1 Concept of Reserve and Resource
- 4.2 Classification of Natural Resources
- 4.3 Renewable and Non-renewable Resources: water, land, minerals, etc.
- 4.4 Resource management and Conservation

UNIT V: ENVIRONMENTAL ISSUES

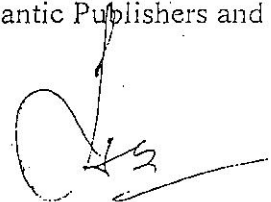
- 5.1 Global Warming and Climate change
- 5.2 Ozone Layer depletion and UV-Exposure
- 5.3 Deforestation
- 5.4 Acid Rain
- 5.5 Smog

REFERENCE BOOKS:

1. Kormandy, E.J. Concepts of Ecology. 4th Edition. PHI Learning, New Delhi. 2012

Learning India Private Limited, 2012

3. Subramanyam, N.S and Sabamurty, A.V.S 2nd Edition. Narosa Publishing House 2011.
4. Dash, M.C. Fundamentals of Ecology. 3rd Edition. Tata Mc Graw Hill 2011.
5. Vishwanathan Prasad. An introduction to Environment. Rawat Publications. 2012.
6. Vasudevan, Essentials of Environmental Science. Atlantic Publishers. 2011.
7. Tiwari, S.K. Environmental Science. Atlantic Publishers. 2011.
8. Karki, M.M.S. Concise Encyclopaedia of Environment. Atlantic Publishers and Distributors.



Semester-IV

Applicable for the Academic year 2016-17

Subject Course Code No. PG EVS 4C 001T

Subject Course Title: Environmental Impact Assessment (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT 1: EIA OVERVIEW

- 1.1 Historical account, Objectives of EIA, linkage between development and environment
- 1.2 Relationship of EIA to sustainable development
- 1.3 EIA in project planning and implementation
- 1.4 Environmental policy and regulatory guidelines regarding EIA in India
- 1.5, EIA notification.

UNIT 2: EIA PROCESSES

- 2.1 Assessment of environmental impacts: the EIA approach
- 2.2 Environmental impact of developmental projects
- 2.3 EIA processes, Components and techniques
- 2.4 EIA of major projects case studies (Thermal power plant, River valley project)

UNIT-3: BIODIVERSITY IMPACT ASSESMENT AND RISK ANALYSIS

- 3.1 Role of BIA in the existing EIA process
- 3.2 Identification, prediction, and evaluation of impacts on biodiversity
- 3.3 Restoration and rehabilitation technologies
- 3.4 Environmental risk: analysis, assessment and management.

UNIT-4: SOCIAL & HEALTH IMPACT ASSESMENT

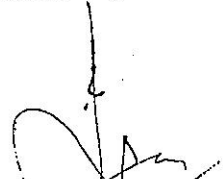
- 4.1 Impact of environment on health, Development framework and HIA analysis
- 4.2 Changing concept and approach in HIA
- 4.3 Overview and scope of Social Impact Assessment
- 4.4 Variables for SIA

UNIT-5: INTEGRATED IMPACT ASSESMENT (ENVIRONMENTAL, SOCIAL AND HEALTH)

- 5.1 Land use pattern and Land use policy of India, Urban and rural planning,
- 5.2 Concept of economic analysis, Scope for integrated approach in economic analysis
- 5.3 Cost benefit analysis and cost effectiveness analysis
- 5.4 Role and relevance of GIS techniques in EIA

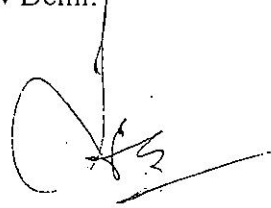
REFERENCE BOOKS:

1. Canter, L. W. and Graw, Mc, Environmental Impact Assessment, Hill Publication, New York.



John Wiley & Sons, New York.

3. Bathwal, R.R (1988) Environmental Impact Assessment, New age Publication
4. Clark, B. D., Bissel, B. D. and Watheam, P. EIA – A Biography.
5. D. P. Lawrence (2003) Environmental Impact Assessment: Practical Solutions to Recurrent Problems, John Wiley and Sons, New Delhi.

A handwritten signature or set of initials, possibly 'D.P.L.', written in black ink. The signature is stylized and appears to be written over the end of the fifth list item.

Semester – IV

Applicable for the Academic year 2016-17

Subject Course Code No. PG EVS 4 C 002 T

Subject Course Title: Environmental Management System (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT 1: OVERVIEW OF EMS

- 1.1 Environmental management system structure
- 1.2 Context of environmental management, overview of the state of the global environment
- 1.3 Introduction to EMS evaluation tool
- 1.4 Element and extent of application

UNIT 2: ISO-14000

- 2.1 Background
- 2.2 ISO-14000 series
- 2.3 Business and standards, ISO-14000 and world practices
- 2.4 ISO in developing World

UNIT-3: AUDITING

- 3.1 Scope and objectives
- 3.2 Standard for auditing, registration and implementing the audit
- 3.3 Procedures and benefits
- 3.4 Environmental auditing as a management tool and A Case study

UNIT 4: LIFE CYCLE ASSESSMENT (LCA)

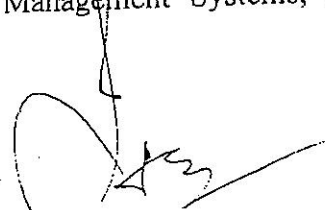
- 4.1 Components of LCA
- 4.2 Measuring environmental impact (Life cycle stages of product, boundaries, functional unit, benefits of LCA)
- 4.3 Strategic framework for LCA
- 4.4 LCA- a tool for sustainability and A Case study

UNIT 5: RECENT CONCEPTS OF CORPORATE EMS

- 5.1 ISO-14062 – corporate EM
- 5.2 Principles of clean production, packaging, sustainable procurement
- 5.3 Social responsibility and function of corporate houses
- 5.4 Eco-labeling, ecological and carbon footprints (ISO 14064-65) and A Case study

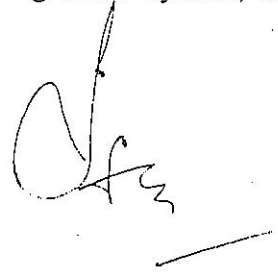
REFERENCE BOOKS:

1. Christopher S. and Mark Y. (2007) Environmental Management Systems, (third edition), Earthscan Publications



Hall.

3. Madu C.N. (2007) Environmental Planning and Management, Imperial College Press.
4. Kenneth M.M. (1999). Basic concepts in Environmental Management System, Boca Raton FL, Lewis

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Semester – IV

Applicable for the Academic year 2016-17

Subject Course Code No. . PG EUS 4C 003T

Subject Course Title: Aquatic Ecosystems (Core Course)

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: OVERVIEW OF AQUATIC ECOSYSTEMS

- 1.1 Introduction to freshwater, estuarine, and marine ecosystems
- 1.2 Status of global aquatic resources
- 1.3 Hydrological cycle
- 1.4 Primary and secondary aquatic productivity

UNIT II: FRESHWATER ECOSYSTEMS

- 2.1 Types of inland aquatic habitats
- 2.2 Physical, chemical and biological characteristics of lakes, reservoirs, wetlands, streams, and irrigation canals
- 2.3 Major freshwater communities- phytoplankton, zooplankton, nekton, neuston and benthos
- 2.4 Mineral cycles in freshwater ecosystems

UNIT III: MARINE ECOSYSTEMS

- 3.1 Major marine ecosystems of the world: classification of marine ecosystems, shallow and deep sea environment
- 3.2 Physical, chemical and biological characteristics of marine ecosystems
- 3.3 Major marine communities- plankton, nekton, neuston and benthos
- 3.4 Mineral cycles in marine ecosystems

UNIT IV: SPECIAL AQUATIC ECOSYSTEMS

- 4.1 Ecology of beaches, coastal dunes, cliffed coasts
- 4.2 Ecology of estuaries, coral reefs, mangroves, lagoons and salt marshes
- 4.3 Major communities of special aquatic ecosystems
- 4.4 Productivity of special aquatic ecosystems

UNIT V: CONSERVATION AND MANAGEMENT OF AQUATIC ECOSYSTEMS

- 5.1 Degradation of different aquatic ecosystems
- 5.2 Biology of polluted waters
- 5.3 Exotics in inland waters
- 5.4 Lakes and reservoir restoration

REFERENCE BOOKS:

1. Polunin, N. (2008). Aquatic Ecosystems: Trends and global Prospects. Cambridge University Press.

Reservoirs(3rd ed.).CRC Press.

3. R.S.K.Barens and K.H. Mann(2009).Fundamental of Aquatic Ecology.(2nd ed), Wiley Online Library.



Semester - IV

Applicable for the Academic year 2016-17

Subject Course Code No. **PGEVS 4C004D**

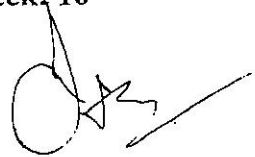
Subject Course Title: Dissertation (Core)

Duration of Examination: 12 Hours

Credit: 8

Maximum Marks: 200

Contact Hours / Week: 16

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Semester – IV

Applicable for the Academic year 2016-17

Subject Course Code. **PGEVS4 F005T**

Subject Course Title: Concepts of Ecotoxicology (Foundation Compulsory/ Ability Enrichment Course)

Credits: 2

Maximum Marks: 50

Duration of Examination: 2 Hours

Contact Hours / Week: 2

Unit I: INTRODUCTION TO ECOTOXICOLOGY

- 1.1 Principles and importance of Toxicology/ Ecotoxicology
- 1.2 Toxic chemicals in the environment and their effects: organic/ inorganic, radionuclides, and pesticides
- 1.3 Biological, chemical processes affecting toxic substances- bioaccumulation, biomagnifications
- 1.4 Mode of entry of toxic substances, biotransformation of xenobiotics, factors affecting xenobiotic action (Environmental, biological and nutritional)

Unit II: TOXICANTS AND HUMAN HEALTH

- 2.1 Toxicology, epidemiology and occupational health
- 2.2 Environmental carcinogens, mutagens and human adaptations
- 2.3 Acute and chronic effects of toxicants
- 2.4 Epidemiological issues- goiter, fluorosis, arsenic poisoning
- 2.5 Endocrine disrupting chemicals (EDCs)

Unit III: TOXICITY ASSAYS AND CASE STUDIES

- 3.1 Statistical concepts- LD₅₀, LC₅₀, concepts of dosimetry lethal, sublethal and chronic tests
- 3.2 Dose effect and dose response curves, Bioassays/ toxicity tests
- 3.3 Food toxicity and related case studies
- 3.4 Major toxicity incidents like Bhopal gas tragedy, Japan nuclear disaster, Minamata bay incident, Chernobyl nuclear disaster, Endosulphan toxicity in Kerala.

REFERENCE BOOKS:

1. Manhan, S.E. Environmental Chemistry. Lewis publishers, New York
2. Levin, S.A. Ecotoxicology : Problems and Approaches, Springer-Verlag New York, LLC.
3. Carson and Rachel. Silent Spring. Boston, Houghton Mifflin.
4. Botkin, D.B. and Keller E.A. Environment Science : Earth as a living planet, John Wiley & Sons Inc, New York.
5. Calow, P. handbook of Ecotoxicology, Vol. No1. Oxford, Blackwell Scientific publications

Semester – IV

Applicable for the Academic year 2016-17

Subject Course Code No. PG EVS 4 E 006 T

Subject Course Title: Environmental Policies, Laws and Ethics [Elective (Inter-disciplinary) course]

Duration of Examination: 3 Hours

Maximum Marks: 100

Credits: 4

Contact Hours / Week: 4

UNIT I: INTERNATIONAL EFFORTS FOR ENVIRONMENTAL PROTECTION

- 1.1 UN Conference on Human Environment, 1972
- 1.2 UN Conference on Environment and Development, 1992
- 1.3 UN Convention on Biological Diversity, 1992
- 1.4 UN Framework Convention on Climate Change, 1992
- 1.5 Kyoto Protocol, 1997 and Post Kyoto Developments
- 1.6 Sustainable Development : Salient features

UNIT II: ENVIRONMENTAL POLICIES AND ETHICS

- 2.1 National Environment Policy, 2006: Salient Features
- 2.2 National Action Plan on Climate Change, 2008
- 2.3 Environment Ethics with special reference to Ancient India
- 2.4 Environmental Movement in India

UNIT III: ENVIRONMENT PROTECTION AND LAW

- 3.1 Indian Constitution and Environment Protection
- 3.2 Judicial activism towards environment Protection
- 3.3 Environment Protection Act, 1986
- 3.4 Public Liability Insurance Act, 1991
- 3.5 National Green Tribunal Act, 2010

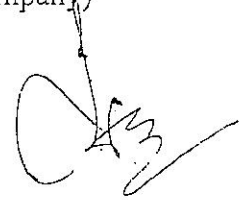
UNIT IV: POLLUTION ABATEMENT AND THE LAW

- 4.1 The Water (Prevention and Control of Pollution) Act, 1974
- 4.2 The Air (Prevention and Control of Pollution) Act, 1981
- 4.3 Hazardous Wastes(Management , Handling and Transboundary Movement) Rules, 2008
- 4.4 Municipal Solid Wastes (Management and Handling) Rules, 2000

UNIT V: NATURAL RESOURCES CONSERVATION AND LAW

- 5.1. Wildlife Protection Act, 1972: Relevant Features
- 5.2 Forest Conservation Act, 1986
- 5.3. Biological Diversity Act 2002.

1. S. Diwan and A. Roscencranj, Environmental Law and Policy in India, Oxford Pub.
2. P. Leelakrishan, Environmental Law in India, Butterworths Kladhira (2008)
3. P.S. Jaswal, Environmental Law (Pioneer Publications)
4. S. Lal Commentaries on Water, Air and Environmental Pollution
5. D.S. Senegar, Environmental Law, Transnational Publishers.
6. SC Shastri, Environmental Law in India (Eastern Book Company)

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Semester – IV

Applicable for the Academic year 2016-17

Subject Course Code No. PG EVS 4 I 007 T

Subject Course Title: Current Environmental Issues and Concerns [Elective
(Interdisciplinary) Course]

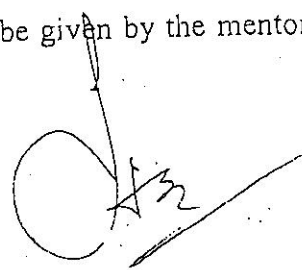
Duration of Examination: 3 Hours Maximum Marks: 100

Credits: 4

IV Semester students of any department, who may be on On-the-Job-Tranning, (OJT) may opt to undertake project work (course MEVES 476) in lieu of the elective course, MEVS 475 while on the OJT in a factory/industry/institution.

Course Contents:

The guidelines and detailed instruction to complete the Project will be given by the mentors allotted by the department.

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No: 4-8/EVS/CUJ/Rég/2013/Acad/357-363

Date: 20-08-16

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Head of the Department of Environmental Sciences, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Lab courses MEVS-151, MEVS-251 & MEVS-351 with the distribution of marks as shown below:

MEVS-251 (2014-15):

S.No	Semester		Total Marks
1	CIA (Continuous Internal Assessment)	Internal	100
2	Mid Semester		
3	End Semester		

MEVS-151, MEVS-251 & MEVS-351 (Session 2015-16 onwards):

S.No	Semester		Marks
1	CIA (Continuous Internal Assessment)	Internal	40
2	Mid Semester		
3	End Semester (External)		
4	Total		100


Registrar

Copy to:-

1. Dean, School of Life Sciences
2. Head, Department of EVS
3. Academic Co-ordinator
4. DR (Examinations)
5. PS to VC
6. PA to Registrar
7. ✓ Guard file
8. Office file

Bagla (Rahya Suchani)
District: Samba - 181143, Jammu

ANNEXURE - VII

F.No. 4-4/ECO/COS/Reg/2013/3787-3813

Date: 14.5.15

NOTIFICATION

The Vice Chancellor, in anticipation of the approval of the Competent Authority, has approved the Syllabus in the two courses, viz. Course Meco-403 (Economics of Education) and Course Meco-404 (Health Economics) (enclosed as Annexure-I & Annexure-II respectively) in Semester-IV for the students of Master's Degree Programme in Economics for Academic Session 2013-14 and 2014-15 as per the recommendations of the Board of Studies in Economics.


Registrar

Copy to:

1. All Deans of the Schools,
2. All Heads of the Departments,
3. Academic Coordinator,
4. DR (Academic),
5. AR (Academic),
6. AR (Examinations),
7. Staff Officer to the Vice Chancellor,
8. PS to Registrar,
9. Office Order file,
10. Guard File.

DEPARTMENT OF ECONOMICS
CENTRAL UNIVERSITY OF JAMMU

Course Title: Health Economics

Course Code: Meco-404

Unit-I: Health Economics-Scope and Significance

Health, Economics and Health Economics; Health Economics-Need for a separate discipline; Health care and Medicare; Health Care as an Economic Commodity; Types of Health Care: Preventive, Curative, Promotive; The Production of Health and Health Care; Health Indicators and Health Status of Individuals and Community.

Unit-II: Demand for and Supply of Health Care

The concepts of need, want and demand; Demand for health and health care-Health care as an input of health and Derived demand for health; Grossman Model of health and health capital-Consumption of and the Investment in Health Care; Asymmetric Information; Principal-Agent Problem in health Care; Supply Induced Demand; Main Supplier of Health Care-Health Care Manpower and medical institutions.

Unit-III: Market, Market Failure and the Role of Government in Health Care

Market for health care- Pharmaceutical Market, The Market for medical and paramedical manpower; limitations of health care market; The Market for Health Insurance; The Uncertainty and Health Insurance Market; alternative insurance mechanisms: Medicare, Medicaid; Inequity and Inequality in Health care. Externalities in Health Care, market failure and rationale for Government intervention in Health Care, Direct government intervention and sources of Health Finance, Role of private sector in health care.

Unit-IV: Economic Evaluation of Health Care and Health Care Programmes

Welfarist and Non-Welfarist approach; Principle of Economic Evaluation in Health Care- Cost-Benefit and Cost-Effective Analysis of Health Care, Measuring and Valuing Health Care Output; Economic Evaluation of Health Care Programmes; Model-Based Economic Evaluation-Using Multiple Sources of data, Decision Analysis, Markov Models; Dealing With Uncertainty and the Sensitivity Analysis.

Unit-V: Issues in Indian Health Sector

Health Care Delivery System in India ; Health Infrastructure in India; National Health Policies in India. Indian Pharmaceutical Market; Utilization and efficiency in Indian health care facilities; Trends and Patterns of India's Health care Financing; Household Health Expenditure and Burden of Diseases; Medical Malpractice in India; Health indicators of India and some other countries; Regional Variation in Health Outcomes in India.

RA

Basic Readings:

- Tolland, Sherman, Aller C. Goodman and Mivan Stano (1997), The Economics of Health and Health Care (Prentice hall, New Jersey)
- Morris S, Nancy D and Parkin D (2012), Economic Analysis in Health Care, Wiley India Pvt. Ltd.
- Phelps Charles .E (1997), Health Economics, Addison Wesley.
- Feldstein Paul J. (2011), Economics of Health Care, Cengage Learning
- GOI (1983) National Health Policy, Ministry of health and family welfare, New Delhi.
- World Bank (1994) Investing in People: The Health sector, Washington D.C.
- William, Jack (1999) Principles of Health Economics for Developing Countries, World Bank Institute Development Studies.
- World Development Report (1993), Investing in Health, The World Bank.
- Rout H.S and Prasant Panda (2007), Health Economics in India, New Century Publications.

RL

DEPARTMENT OF ECONOMICS
CENTRAL UNIVERSITY OF JAMMU

Course Title: Economics of Education

Course No. Meco-403

Unit-I) Human Capital Formation and Economic Development

Concepts of Human Capital, Historical roots of the Concept, Components of Human Capital-- Education, Health, On the Job Training, Labour Mobility and miscellaneous variables. Human Capital and Economic Development- Evidence from contemporary developed countries.

Unit-II) Education and Economic Growth

Education, Skill formation and labour productivity; Consumption-Investment controversy regarding expenditure in education; Cost of Education-Components of private cost and social cost; Opportunity cost of education; Benefits of education-direct and indirect benefits; Assessment of direct benefits---- correlation approach, residual approach, manpower-needs forecasting approach and returns approach; Rate of returns to investment in education; External benefits of education.

Unit-III) Market for Educated Manpower

Market for educated manpower-Earnings functions, market signalling theory and segmented labour market; Market failure and need for educational planning; Social choice and economic efficiency in allocation of resources; The role of private sector in education

Unit-IV) Wastage in Education

Wastage in Education- Concept. Wastage at various levels. Internal wastage- dropout and stagnation: evidence from developing countries. Wastage in Education among vulnerable sections. External wastages- educated unemployment in developing countries: causes and consequences. Economics of International migration of Human capital

Unit-V) Issues in Indian Educational Sector

Sources of educational finance in India; Inter sectoral resource allocation in Education, Incidence of Stagnation and Dropout in elementary education; Role of SSA and Mid-Day Meals in retention of students, Gender Issues in Indian education, Education of disadvantaged groups, Quantity vs Quality in Indian education, The role of technology in improving educational outcomes.

RL

Reading Lists

- Arrow .K.J., M.D. Intriligator (2006), Handbook of the Economics of Education; Elsevier publisher .
- Becker, G.S, (1964) Human Capital New York: University press.
- Becker, G.S, (1972)- Human Capital, NBER, New York.
- Blaug, M. (ed) (1968). Economics of Education selected Readings. Vol. 1 and 2 London: Penguin Books.
- Blaug, M.(1972)- An Introduction to Economics of Education, Cambridge University Press.
- Cohn, E. and Gesker (1990) T. G. The Economics of Education Oxford: Pergamon Press
- G.S.Parnes, Planning Education for Economic Social Development.
- George Pascharopoulos (1985)- Education for Development, Oxford University press, N.Y
- Hanushek.E.D, Jamison and L. Wessmann (2008) "Education and Economic Growth".
- Levin.H (1989) Mapping the Economics of Education. An Introductory Essay, Education Researcher.
- Majumdar, T. (1983) Investment in Education and social Choice, Cambridge, Cambridge University Press.
- Pascharopoulos. G. (ed) 1987 Economics of education Research and Studies Oxford, Pergamon Press.
- Psacharopoulos G. and Woodhall (1986). Education of Development Washington The World Bank.
- Shriprakash; Cost of Education (1996) New Delhi: Anamika Publishers and distributors.
- Spence, A.M (1974) Market Signalling: informational transfer in hiring and related screening processes. Cambridge: Harvard University Press.
- Tilak , J. B. G. (1987). The Economics of Inequality in Education New Delhi: Sage publications.
- Tilak J. B. G. (1989) Education and its Relation to Economic Growth Poverty and income distribution: past Evidence and Further Analysis washington D. C. The World Bank.
- Tilak J. B. G. (1994) Education for Development in Asia, New Delhi Sage publications.

Board of Studies Meeting in Economics to be held on 01/08/2015

AGENDA

The agenda for the Board of Studies meeting is as follows

- 1- Restructuring of Master's Degree Programme in Economics in the light of latest UGC Regulations to be effective from Semester I of MA Programme in Economics 2015-16 Batch.
- 2- Changes in the Syllabus of the existing Courses to be effective from Semester I of MA Programme in Economics 2015-16 Batch.
- 3- Approval of draft Syllabus of the new Courses included in the Master's Degree Programme in Economics 2015-16 Batch.
- 4- Approval of the Titles of Dissertations (M. Phil Level) of 5 Students of Integrated M. Phil-Ph. D Programme in Economics 2014-15 Batch.
- 5- Any other items with the permission of the Chair.

(R L Bhat)
Chairman
Board of Studies in Economics

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, Department of Economics, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus (1st, 2nd, 3rd and 4th semester) w.e.f 2015-16. The approved Course Scheme and Syllabus are as under:

SEMESTER-I

Course Code	Course Title	Credit	Total Marks
CORE COURSES			
PGECO1C001T	Microeconomic Theory	4	100
PGECO1C002T	Mathematics for Economics	4	100
PGECO1C003T	Statistical Methods	4	100
ELECTIVE COURSES (ANY ONE)			
PGECO1E004T	Classical Political Economy	4	100
PGECO1E005T	Economic History of India	4	100
FOUNDATION COURSES (Comp.)			
PGECO1F006T	Fundamentals of Computers	4	100
Total		20	500

SEMESTER-II

Course Code	Course Title	Credit	Total Marks
CORE COURSES			
PGECO2C001T	Microeconomic Theory and its Applications	4	100
PGECO2C002T	Macroeconomic Theory	4	100
PGECO2C003T	Econometrics	4	100
ELECTIVE COURSES (ANY ONE)			
PGECO2E004T	Public Economics	4	100
PGECO2E005T	Financial Institutions and Markets	4	100
PGECO2E006T	Environmental Economics	4	100
PGECO2E007T	Agricultural Economics	4	100
FOUNDATION COURSE			
PGECO2F006T	Computer Applications in Economics	4	100
Total		20	500

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SEMESTER-III

Course Code	Course Title	Credit	Total Marks
CORE COURSES			
PGECO3C001T	Theory of Cycles and Growth	4	100
PGECO3C002T	Theory and Issues in International Economics	4	100
PGECO3C003T	Research Methodology in Economics	4	100
ELECTIVE COURSES (ANY ONE)			
PGECO3E004T	Economics of Education	4	100
PGECO3E005T	Labour Economics	4	100
PGECO3E006T	Natural Resource Economics	4	100
PGECO3E007T	Mathematical Economics	4	100
INTERDISCIPLINARY COURSES (ANY ONE)			
PGECO3I008T	Gender and Development	4	100
PGECO3I009T	Money Banking and Finance	4	100
Total		20	500

SEMESTER-IV

Course Code	Course Title	Credit	Total Marks
CORE COURSES			
PGECO4C001T	Development Issues and Indian Economy	4	100
PGECO4C002D	Dissertation	8	200
ELECTIVE COURSES (ANY ONE)			
PGECO4E003T	Health Economics	4	100
PGECO4E004T	Energy Economics	4	100
PGECO4E005T	Industrial Economics	4	100
PGECO4E006T	Applied Econometrics	4	100
PGECO4E007T	Human Development	4	100
INTERDISCIPLINARY COURSES (ANY ONE)			
PGECO4I008T	Comparative Development Experience of India and China	4	100
PGECO4I009T	Rural Development	4	100
PGECO4I010T	World Economy		
Total		20	500

A copy of Approved Syllabus is enclosed.

Registrar
 17/9/15

Copy to:-

1. Dean,
2. Head, Department of Economics
3. DR (Examinations)
4. AR (Acad.)
5. Staff Officer to VC
6. PA to Registrar

Course Title: Microeconomic Theory

Objective: The main objective of this Course is to impart knowledge and understanding of the principles of economics that apply to the decision making at the micro level of an individual, firm or industry.

UNIT-I: Consumer Behavior

Demand Analysis---theory of utility & consumer's behavior. Indifference Curves & Consumer's Equilibrium. Price, Income & Substitution effects. Slutsky theorem. Compensated demand curves and their applications. Samuelson's theory of revealed preference. Hicksian revision of demand theory. Consumer choice of qualities- Lancaster's model; linear expenditure systems. Consumer's surplus ---Marshallian and Hicksian measures.

UNIT-II: Theory of Production

Production function: Concept, Elasticity of substitution; Homogeneity. Two-inputs production functions: Cobb Douglas Production Function, Constant Elasticity of Substitution; and Variable Elasticity of Substitution. Unbiased and biased technical change. Aggregate production function; Joint production function; Production function with multiple inputs.

UNIT-III: Theory of Costs

Traditional theory of cost : short run and long run costs (The envelope curve). Modern theories of costs – Short run and Long run costs (The L-Shaped scale curve) . Engineering cost curves : short run and Long run costs. The analysis of Economies of scale. Empirical evidences on the shape of costs . Derivation of cost functions from production functions

UNIT-IV: Perfect Competition, Monopoly & Monopolistic Competition:

Perfect Competition – short & long run equilibrium of the firm & industry. Monopoly--- short & long term analysis. Price discrimination. Monopoly Regulation. Monopolistic competition----Chamberlin approach: equilibrium of the firm & Group with product differentiation & selling costs. Theory of Excess Capacity.

UNIT-V: Classical Oligopoly & Theory of Games:

Non-collusive oligopolistic models of Cournot; Bertrand, Stackelberg, Chamberlin and Sweezy (Kinked demand curve); Collusive models of oligopoly. Elements of game theory: Concept of a game; Strategies – Simple and mixed; Two person zero sum game; Non-Zero Sum Game, Prisoner's Dilemma; Nash equilibrium, Value of a game; Saddle point solution.

Basic Reading List

1. Baumol, W.J. (1985): *Economic Theory and Operations Analysis*, Prentice Hall.
2. Henderson, J. and R.A. Quandt (1984): *Microeconomic Theory*, McGraw Hill, Tokyo.
3. Koutsoyiannis, A. (1980): *Microeconomic Theory*, MacMillan.
4. Lancaster, K. (1972): *Consumer Demand: A New Approach*, CUP, NY.
5. Layard, P.R.G. and A.A. Walters (1978): *Microeconomic Theory*, McGraw Hill, NY.
6. Sen, A. (1999): *Microeconomics: Theory and Applications*, OUP, ND.
7. Shepherd, R.W. (1970): *Theory of Cost and Production Functions*, Princeton Univ. Press, N.J.

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East-West Press.

9. Varian, H. (2000): *Microeconomic Analysis*, W.W. Norton, NY.

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Course Code: PGECO1C002T
Course Title: Mathematics for Economics

Objective: Since the discipline of economics has significantly developed in a mathematical frame during the last sixty years and helped the subject to become more concise, the objective of this course is to equip the students with basic mathematical tools for better understanding of economics. This course has been introduced to provide an insight into the importance of mathematical methods in economics and to apply a range of mathematical techniques to economic problems.

UNIT-I: Set Theory, Functions and Matrix Algebra

Set Theory: Concept of set and its operations; Relations and functions; Types of functions; Value of function at a point; Limit of a function- concepts and evaluation. Continuity of a function; Matrices: Elementary operations, Rank of matrix; Solution of simultaneous equations by matrix inverse method and cramer's rule; Linear Dependence and Independence of vectors; Characteristic roots and Eigen vectors; Cayley- Hamilton Theorem

UNIT-II: Differential Calculus

Rules of differentiation; differentiation of implicit, parametric, logarithmic and exponential functions; Partial and total differentiation; Homogeneous functions: properties of homogeneous functions and Euler's theorem; Maxima and minima of functions of one and two variables; Constrained maxima and minima of functions of two variables; Economic application of differentiation, partial differentiation and maxima and minima subject to constraints.

UNIT-III: Integral Calculus

Dynamics and integration; Rules of integration; Integration by Substitution, by parts and by partial fractions; Indefinite and definite integrals; Improper Integrals; Application of integrals in economics: Consumer surplus and producer surplus; Domar Growth Model.

UNIT-IV: Differential Equation and Difference Equation

Concepts, Solutions in case of variable separable, homogeneous differential equation, non-homogeneous differential equations, exact differential equation, linear differential equation of first order, linear differential equation of second order with constant coefficients; Difference equations: order and degree of difference equation, linear homogeneous difference equation with constant coefficients of first and second order, solution of non-homogeneous difference equation of first order; Applications: differential equations applied to market equilibrium, difference equations applied to market equilibrium; Cobweb model

UNIT-V: Linear Programming and Input-Output Analysis

Linear programming: Concept and formulation of LP problem, Solutions with Graphical and Simplex method, Applications of LPP, Dual formulation and interpretation; Input-Output Analysis: assumptions, technological coefficient matrix, closed and open I-O model, Hawkins-Simon conditions.

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Basic Reading List

1. Allen, R.G.D. (1967): *Mathematical Analysis for Economists*, Macmillan.
2. Budnick, F.S. (1993): *Applied Mathematics for Business, Economics and Social Sciences*, McGraw Hill.
3. Chiang, A.C. (2005): *Fundamental Methods of Mathematical Economics*, McGraw Hill, ND.
4. Dorfman, Samuelson and Solow (1958): *Linear Programming and Economic Analysis*, McGraw Hill; NY.
5. Henderson (2003): *Microeconomic Theory- A Mathematical Approach* (3e), McGraw Hill.
6. Hoy, Livernois, McKenna, Rees and Stengos (2004): *Mathematics for Economics*, Prentice Hall, ND.
7. Baumol, W.J. (1977): *Economic Theory and Operations Analysis*, Prentice Hall, ND.
8. Handry, A.T. (1999): *Operation Research*, Prentice Hall, ND.
9. Nicholson, R.H. (1986): *Mathematics for Business and Economics*, McGraw Hill, NY.
10. Samuelson, P.A. (2005): *Micro Economics* (18e), McGraw Hill, International Edition.
11. Takayama, A. (1974): *Mathematical Economics*, Dryden Press, Hinsdale, Ill.
12. Sydsaeter, Knut and Peter J. Hammond (2011): *Mathematics for Economic Analysis*, Pearson
13. Holden, K. and A.W. Pearson (2002): *Introductory Mathematics for Economics and Business*, Macmillan
15. Kandoi, Balwant (2011) : *Mathematics for Business & Economics with Applications (Vol 1)*, Himalaya Publishing House

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Course Title: Statistical Methods

Objectives: The main objective of the Course is to familiar students with various tools and techniques of Descriptive Statistics as well as Inferential Statistics to understand various economic phenomena and to analyse economic data.

Unit-I Descriptive Analysis of Data

Importance of Statistics in Economics; Sources and Limitation of Secondary Data; Need for Collecting Primary Data; Graphical Presentations of Data; Descriptive Statistics-Measures of Central Tendency, Measures of Dispersion, Skewness, Moments and Kurtosis.

Unit-II Correlation and Regression

Meaning, Assumptions and Limitations of Simple Correlation and Regression, Pearson's Product Moment Formula and Spearman's Rank Correlation; Concept of Least Squares and Lines of Regression; Method of Estimating Non-Linear Regression-Parabolic, Exponential, Geometric, Double Logarithm, Hyperbolic Functions, Gompertz and Logistics functions. Standard Error of Estimates, Partial and Multiple Correlations, Co-efficient of Determination

Unit -III Probability and Distribution

Probability theory --- Different Concepts and Approaches. Laws and Axiom of Probability. Conditional Probability and Concept of Interdependence; Baye's Theorem and its Applications; Concept of Random Variable. Probability Distribution: Bi-nominal, Poisson, and Normal.

Unit-IV Theory of Estimation and Hypothesis Testing

Concept of an Estimator and its Sampling Distribution. Proprieties of a Good Estimator; Formulation of Statistical Hypotheses - Null and Alternative; Types I and Types II Errors; Goodness of Fit ; Confidence Interval and Level of Significance ; Hypothesis Testing based on Z, t , F and Chi -Square Tests.

Unit- V Index Numbers, Time Series and Forecasting

Lasperes and Paasches index numbers, Chain Base Index Numbers, Fishers Test for Index Numbers. Time Series: Components, Approaches to Time Series, Estimation of Seasonal and Cyclical Variations. Forecasting: Types and Approaches to Forecasting, Forecasting Techniques.

Suggested Readings:

- 1- Freund J E and Ronald E. Walpole (1987), Mathematical Statistics 4e: Prentice Hall Englewood Cliffs, NJ
- 2- Mantzopoulos Victoria L (1995) ,Statistics for the Social Sciences: Prentice Hall, Englewood Cliffs, NJ..
- 3- Fleming Michael C. and Joseph G. Nellis (1996), The Essence of Statistics for Business 2e :Prentice Hall, Hemel Hempstead
- 4- Neil Weiss (1993),Elementary Statistics 2e: Addison Wesley, Reading, MA
- 5- Hogg Robert V (1978),Introduction to Mathematical Statistics: PE
- 6- Das N G (2008), Statistical Methods : Tata Mc-Graw Hill
- 7- Gupta S C and V K Kapur (1970),Mathematical Statistics:Sultan Chand and Sons
- 8- Gupta, S P (1978) ,Statistical Methods, Sultan Chand and Sons, Delhi.
- 9- Gupta C B (1957) ,An Introduction to Statistical Methods: Vikas Publishing House, Delhi
- 10- Monga G S (2010)'Mathematics and Statistics for Economists.: Vikas Publication House Pvt Ltd
- 11- Mood, A.M. and F.A. Graybill(1974) , Introduction to the Theory of Statistics: Tata Mc-Graw Hill
- 12- Wetherill, G.B (1970), Elementary Statistical Methods: Pitman London
- 13- Croxton E.E, Cowden, D.J (1955) Applied General Statistics. Prentice hall Inc
- 14- Gupta S C (1981), Fundamentals of Statistics: Himalaya Pub House

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Course Code: 140001

Course Title: Classical Political Economy

Objective: The Course aims to acquaint the student with the evolution of economic ideas. It will enlighten the students by exposing them to the works of leading classical economists. By studying through this Course student along with getting understanding of economic reasoning and analysis will get to know how modern economics evolved into its present form.

Unit-I: Predecessors of Classical Economics

Origin and growth of Political Economy; Mercantilism: Rise of Mercantilism and its main ideas; Physiocracy: The pre-conditions of the Industrial Revolution; Ideas of Natural Order and Net Product; Quesnay's Tableau Economique.

Unit-II: Adam Smith and his followers

Adam Smith, the invisible hand doctrine, Laissez faire; Ricardo's theory of value and distribution and rent; Malthus's theory of population and theory of under-consumption; Modern revival of classical political economy and interpretation (by Piero Sraffa), Ricardo-Malthus controversy over theory of gluts.

Unit -III: Classical Traditions

James Mill-wages, population, value; N W Senior- theory of value, Rent -abstinence and capital formation, theory of wages; J B Say- economic ideas- division of labour, distribution of wealth- basis of value, supply and demand; Frederic Bastiat - Value, theory of distribution, population; H C Carey- Value, Rent, capital, Profit, quality of life, theory of population .

Unit-IV: Critics of the Classical School

Sismondi commercial wealth, distribution- capital , use of machinery, over-production , economic crisis; Socialist Robert Owen -abolition of profit, equitable labour exchange; and the nationalist school - Friedrich List- theory of productive power, features of protection; Re-statement of the classical position: J.S. Mill-four prepositions and capital demand and supply bifurcation wage fund.

Unit -V: Restatement of Classical Tradition

Karl Marx - Organic composition of capital. Break down of capitalism, Marxian theories of value, surplus value, profit and crisis of capitalism. Disproportionality and under consumption; Essential differences between classical economics and Marxian economics

Basic Reading List

1. Haney L H (1977): History of Economic Thought, The Macmillian Publishing Co. Inc
2. Rohl Eric: History of Economic Thought
3. Gide and Rist: History of Economic Doctrine
4. Smith Adam: An Enquiry Into the Nature and Causes of Wealth of Nations

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5. Ricardo, David: On the Principles of Political Economy and Taxation
6. Hunt E.K. and Mark, Lautzenheier (2011) : History of Economic thought, PHI Learning Pvt. Ltd
7. Robert B. Ekelund, Jr. and Robert F. Herbert (1975): History of Economic Theory and Method, McGraw - Hill.
8. Samuels J. Warren, Jeff E. Biddle and John B. Davis (ed) (2003): A Companion to the History of Economic Thought, Blackwell.
9. Roncaglia Alessandro: The Wealth of Ideas, A History of Economic Thought, Cambridge.
10. Screpanti Ernesto and Stefano Zamagni: An Outline of the History of Economic Thought, Oxford.

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Course Title: Fundamentals of Computers

Objective: The main objective of the course is to initiate the students to the basics of computer, so that they are in a position to make its application in economic analysis.

Unit-1 Introduction of Computers

History of Computer, Definition, Evolution of Computer, Components of Computer Systems: Central Processing Unit (CPU), Input Devices, Output Devices, Memory and its Types, Storage Devices, Generation of Computer, classification of Computers, Uses of Computer, Computer Applications in different fields like Educational Institutes, Hospitals, Banks, Railways etc.

Unit-2 Data Representation

Representation of Characters in Computers, Representation of Integers and fractions, Hexadecimal and octal representation of numbers, Number System, Conversions, 1's complements of numbers, 2's complements of numbers, Addition/Subtraction of numbers using 2's complement notation.

Unit: 3 Computer Software and Operating System

Software and its types (Application Software, System Software), Operating System: Definition, types and functions, Operating System Examples (DOS, UNIX, Windows), Computer Languages: Machine, Assembly and High-Level Languages, Computer Language Translators: Assemblers, Compilers and Interpreters.

Unit: 4 Computer Networks and Data Communication

Computer Network and its Types (LAN, MAN, WAN), Network Topology (Bus, Star, Ring etc), Internet, its uses and impact (e.g. Cyber Crime, Cyber Security etc), WWW, Internet Protocol, IP Address and its classes.

Data Transmission Modes (Simplex, Half-Duplex, Full-Duplex), Transmission Media (wired/Wireless), Switching Techniques (Circuit, Packet, Message).

Unit-5 MS-word, Excel and Power-point

Introduction to MS-word and its features, Formatting text and paragraph, page formatting, Symbols, Footnotes, Endnotes, Pictures, Tables, Drawing Shapes.

Introduction to MS-Excel, cell referencing-Relative and Absolute, Entering data and formula, formatting cells, sorting and filtering data, formulas-mathematical, statistical and logical functioning.

Introduction to MS-Power point, slide layouts, slide design, task pane, slide show; slide transition, slide animation, customised show, rehearse timing.

Basic Reading List:

- 1- Sinha P K (1992): Computer Fundamentals, BPB Publications, New Delhi.
- 2- Raja Raman V (2010): Fundamentals of Computers, PHI, New Delhi.
- 3- Kerns (2005) Essentials of Microsoft Windows, Word and Excel, PHI, New Delhi.

Course Code: 14 EC0200011

Course Title: *Microeconomic Theory and its Applications*

Objective: The purpose of the course is to provide a comprehensive knowledge regarding the theories of the firm with more emphasis on the application of the microeconomic theory to various microeconomic issues. The Course equips the students with an in-depth knowledge of general equilibrium, welfare economics and the economics of uncertainty.

Unit-I Alternative Theories of the Firm

Marginalist Controversy; Baumol's Sales Maximization Model; Marris' Model of Managerial Enterprise; Williamson's Model of Managerial Discretion; Behavioral Theory of Firm (Model of Cyert and March); Full Cost Pricing Principle ; Limit Pricing Principle (Bains, Sylos-Labini, Modigliani)

Unit-II Theory of General Equilibrium

Walras Model ---- Properties ; Problems of existence , Uniqueness and Stability of General Equilibrium; Excess Demand Function approach to General Equilibrium Analysis; Modern Approach ; Input-Output and Linear Programming Model of General Equilibrium; Determination of Output and Price (only Static Open Models), General Equilibrium of Production, General Equilibrium of Consumption and General Equilibrium of Product mix.

Unit-III Welfare Economics

Concept of Welfare, Problems of Interpersonal Comparison; Measure of Social Welfare : GNP approach , Bentham's criteria, Pareto optimality criteria; Compensation principle. Social Welfare Function -Bergson, Grand Utility Function/Frontier, Welfare theorems, Theory of Second Best. Arrow's Impossibility Theorem.

Unit-IV Input Markets

Demand and Supply of inputs; Firm's and Industry's Input Demand curves under Perfect Competition; Monopsony and Monopoly in Input Markets; Bilateral Monopoly; Choice of Optimal Combination of Inputs; Product Exhaustion theorems-Euler's and Clark-Wicksteed-Walras Theorems. Elasticity of Factor Substitution and Relative share of inputs.

Unit-V Economics of Uncertainty

Distinction between Risk and Uncertainty, Individual Behaviour towards Risk , Expected Utility and Uncertainty Equivalence Approaches; Risk and Risk Aversion-Sensitivity analysis; Gambling and Insurance, Economics of Insurance , Cost and Risks , Risk Pooling and Risk Spreading; Mean-variance Analysis and Portfolio Selection; Efficient Market Hypothesis; Market with Incomplete Information , Search and Transaction Costs, Economics of information ---- Lemons problem. Public goods and Externalities

Suggested Readings:

Baumol, W.J. (1985): Economic Theory and Operations Analysis, Prentice Hall.

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Koutsoyiannis, A. (1980): Microeconomic Theory, MacMillan.

Lancaster, K. (1972): Consumer Demand: A New Approach, Cambridge University Press, NY.

Layard, P.R.G. and A.A. Walters (1978): Microeconomic Theory, McGraw Hill, NY.

Sen, A. (1999): Microeconomics: Theory and Applications, Oxford University Press, ND.

Shepherd, R.W. (1970): Theory of Cost and Production Functions, Princeton Univ. Press, N.J.

Varian, H. (2000): Intermediate Microeconomics: A Modern Approach (5e), Affiliated East-West Press.

Varian, H. (2000): Microeconomic Analysis, W.W. Norton, NY.

Mas-Colell, Michael D. Whinston, and Jerry R. Green (1995), Microeconomic Theory :Oxford University Press: New York

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Course Title: Macroeconomic Theory

Objective: The course aims to provide basic knowledge of various concepts of macroeconomics. Moreover students would be enabled to understand various macroeconomic conditions such as unemployment, inflation and growth and to understand how macroeconomic policies can be used to influence short-run macroeconomic conditions.

Unit-I: Income Accounting, Macroeconomic Model and Consumption- Income Relationship

Forms of Income Accounting-Social Accounting, Input Output accounting, Flow of Funds accounting and Balance of Payments accounting, Green Accounting

Classical Macroeconomic Model; Keynesian Model; Theories of Consumption: Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income Hypothesis, Life Cycle Hypothesis.

Unit - II: Investment Function and Changes in Income

Classical Theory of Investment, Keynesian Theory-Marginal Efficiency of Capital and Rate of Interest, Neo Classical Theory of Investment: Jorgenson model; Tobin's Q theory of investment; Principle of Acceleration; Stock Adjustment Principle; Theory of Multiplier.

Unit - III: Demand for and Supply of Money

Definition and Scope of Money; Role of Money in a Modern Economy; Demand for Money-Classical Theory, Keynesian Liquidity Preference Approach, Patinkin and Real Balance Effect; Contributions of Tobin and Baumol; Friedman's Restatement of Quantity Theory.

Supply of Money, Components and Sources of Money Supply, Theory of Money Supply and Money Multiplier, Determinants of Money Supply

Unit - IV: IS- LM Framework & Macroeconomics in an Open Economy

The IS-IM Model; Extension of IS-LM Model with Government Expenditure, with Labor Market and Flexible Prices; Relative Effectiveness of Monetary and Fiscal Policies.

Mundell-Fleming Model of an Open Economy.

Unit - V: Recent Developments in Macroeconomics

Inflation and Unemployment; Phillips Curve Analysis; Tobin's Modified Phillips Curve; Natural Rate of Unemployment Hypothesis; Rational Expectations Hypothesis and New Classical Macroeconomics; Real Business Cycle Theory; New Keynesian Macroeconomics.

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Basic Reading List

1. Ackley Gardener (1978): Macro Economic Analysis. New York: MacMillan
2. Shapiro, Edward (1988): Macroeconomic Analysis, New Delhi: Galgotia Publications Pvt. Ltd
3. Surrey, M.J.C.(ed)(1976): Macroeconomic Themes. London Oxford University Press
4. Evans, MK (1969): Macroeconomic Activity. Harper and Row publishers
5. Muller, M G (ed) (1966): Readings in Macroeconomics.
6. Jha, Raghbindra (1991): Contemporary Macroeconomic Theory and Policy. Wiley Eastern Ltd, New Delhi
7. Dornbusch, R.S. Fischer and Startz (2004): Macroeconomics. Tata Mc-Graw Hill
8. Froyen, Richard T (2005): Macroeconomics; theories and policies. Pearson
9. Branson, W.H (1972): Macro Economic Theory And Policy. New York: Harper and Row
10. Romer, D. L (1996): Advanced Macroeconomics. New York: McGraw-Hill.
11. Allen, R.G.D (1968): Macroeconomic theory-----A Mathematical Treatment. London: MacMillan
12. Blanchard, O.J and S.Fischer (1989): Lectures on Macroeconomics. Cambridge Mass: M.I.T Press
13. Branson, H. William (2006): Macroeconomics: Theory and Policy. AITBS Publishers

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Course Code: PGEC02C0031

Course Title: Econometrics

Objective: During the last half century or so the understanding of the subject of Economics has significantly shifted from a pure logical reasoning to empirical testing which has helped in developing new theories or refining the existing ones. As such, the thrust of the Course is to initiate the students to various econometric tools and techniques for the understanding of theoretical issues in an empirical setting.

UNIT-I: Introduction to Regression Analysis

Nature and Scope of Econometrics, Methodology of Econometrics, Simple Linear Regression model, Assumptions of Classical Linear Regression Model, Estimations through- The Methods of Ordinary Least Squares and Maximum Likelihood, Properties of Estimators- Gauss Markov Theorem, Hypothesis Testing, Concepts and derivation of R^2 , Interpretation of Econometric model.

UNIT-II: Extensions of Two-Variable Linear Regression Model and Multiple Regression Analysis

Regression through Origin; Scaling and Measurement; Different Functional Forms of Regression Models: Semi Log Models, Double-Log model, Reciprocal Model, Parabolic and Hyperbolic models, Exponential models; Multiple Regression Model: Equation Forms and Matrix Forms; Concept of R^2 and Adjusted R^2 , Tests of Hypothesis, confidence intervals for OLS estimators.

UNIT-III: Problems in Regression Analysis

Multicollinearity, Auto-correlation and Heteroscedasticity: their Causes, Tests, Consequences and Remedial measures; The Problem of Specification error.

UNIT-IV: Econometric Models with Qualitative Variables and Dynamic Econometric Modelling

Dummy variable Regression Models; Qualitative Response models: LPM, Logit, Probit and Tobit. Autoregressive and Distributed -Lag models: Koyck, PAM, Almon model; Instrumental Variables;

UNIT-V: Simultaneous-Equations Models and Time Series Analysis

Introduction to Simultaneous Equations Model; Simultaneous Equation Bias, Identification Problem; Rules of identification-order and rank conditions; Estimation of Simultaneous-equation models: ILS and 2SLS, Introduction to Time Series Analysis; Stochastic Process, Stationary and Non-Stationary Process; Tests of Stationarity: Graphical, ACF and Unit Root tests (Dickey-Fuller test and Augmented Dickey- Fuller test), ARMA and ARIMA and Forecasting.

Suggested Readings

1. Gujarati, D.N. et al. (2012), Basic Econometrics (5th Edition), McGraw Hill, New Delhi.
2. Kmenta J. (1997), Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
3. Koutsoyiannis, A. (1997), Theory of Econometrics (2nd Edition), The Macmillan Press Ltd., London.

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4. Krishna, K.S. (ed.) (1977), *Econometric Applications in India*, Oxford University Press, New Delhi.
5. Maddala, G.S. (Ed.) (1993), *Econometric Methods and Applications* (2 Vols.) Aldershot U.K.
6. Theil, H. (1981), *Introduction to Econometrics*, Prentice Hall of India, New Delhi.
7. Intrilligator, M.D. (1978), *Econometric Methods: Techniques and Applications*, Prentice Hall, Englewood Cliffs, New Jersey.
8. Johnston, J. (1991), *Econometric Methods*, McGraw Hill Book Co., London.
9. Chow, G.C. (1983), *Econometrics*, McGraw Hill, New York.
10. Greene (2000), *Econometric Analysis*, 4th Ed., Pearson Education, Delhi.
11. Dougherty, C. (2007), *Introduction to Econometrics*, 3rd Edition., Oxford University Press, New Delhi.
12. Woolwidge Jeffery (2009): *Introductory Econometrics: A modern Approach*, 5th Edition, South-Western Cengage Learning.

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Course Code: PYE02E0041
Course Title: Public Economics

Objective: This Course encompasses a host of topics including market failures, externalities, and the creation and implementation of government policy. Public economics builds on the theory of welfare economics and is ultimately used as a tool to improve social welfare.

UNIT I: Public Economics and Public Goods Theory

Nature and scope of Public Economics; Different types of Goods: Public, Private, Club and Merit Goods; Market failure- nature and causes ; Role of Government in the provision of goods;; Theory of Public Goods: Voluntary Exchange Theory, Lindahl process; Free rider problem; Externalities.

UNIT II: Theories of Resource Mobilization

The prior-savings approach, Keynesian approach, Quantity theory of internal resource mobilization.

Tax and Non Tax Resources; Benefits and Ability to Pay Approaches to Taxes; Deadweight Losses; Excess Burden; Trade off Between Equity and Efficiency; Shifting and Incidence of Tax; The Partial and General Equilibrium Analysis- the Harberger model; Theory of Optimal Taxation.

UNIT III: Theories of Public Expenditure

Theories of public expenditure- Pure, Wiseman- Peacock and Wagner ; Empirical evidence on public expenditure theories; Public Sector Pricing - Pricing of Public Utilities. Concept, measurement and magnitude of subsidies.

UNIT IV: Theories of Public Debt

Public Debt: Sources of Public Debt; Burden Controversy of Public Debt – Classical Theory, Modern Theory, Buchanan Thesis, Secondary Burden of Public Debt; Public Debt and Inflation; Redemption of Public Debt and Debt management. Issues related to public debt sustainability.

UNIT V: Budgeting Fiscal policies and Evaluation of Public Investment Projects

Budget -types of budget; Structure of Central Government Budget; Performance and Programme Budgeting system (PPBS)- Rationale of PPBS; Zero based Budgeting, Theory of fiscal policy with special reference to India.
Project evaluation: Cost Benefit Analysis, Shadow Pricing, Discount Rate.

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Reading List

1. Cullis John & Philip Jones (2009): *Public Finance & Public Choice- Analytical Perspectives 3rd Ed.*, Oxford University Press
2. Hindrinks Jean and Gareth D. Myles (2007): *Intermediate Public Economics*, Prentice-Hall of India.
3. Rao Govinda M. And Mihir Rakshit(Ed.), *Public Economics Theory and Policy: Essays in Honor of Amaresh Bagchi*, Sage.
4. Thirlwall A. P. 9th Edition: *Economics of Development*, Palgrave MacMillan
5. Martin Feldstein, A.J. Auerbach: *Handbook of Public Economics*, North Holland
6. Musgrave, R.A. (1959): *The Theory of Public Finance*, Tata McGraw Hill, ND
7. Hyman, D.N. (2007): *Public Finance: A Contemporary Application of Theory to Policy*, Thomson Asia Pvt. Ltd., Singapore.
8. Jha, Raghbendra (1987): *Modern Theory of Public Finance*, Wiley Eastern; Delhi.
9. Friedman, A. (1986): *Welfare Economics and Social Choice Theory*, Martins Nijhoff, Boston.
10. Mishan, E.J. (1987): *Cost-Benefit Analysis: An Informal Introduction*, George Allen and Unwin, London.
11. Ulbrich, H. (2004): *Public Finance in Theory and Practice*, Thomson Asia Pvt. Ltd., Singapore.
12. Jha Raghbendra (1998): *Modern Pubic Economics*, Routledge
13. Howard Michael (2001): *Public Sector Economics for Developing Countries*, University of the West Indies Press
14. Mugrave R A and P B Mugrave (2004): *Public Finance in Theory and Practice* ,Tata Mc- Graw Hill.

Course Code: PYEC03C0021

Course Title: Theory and Issues in International Economics

Objective: The broad objective of the Course is to provide on the one hand theoretical understanding of discipline of international economics and the other hand to make students familiar with the major economic issues at global and regional level.

UNIT - I Theory of International Trade

Basis for International trade-Absolute Advantage, Comparative Advantage and Opportunity cost ;Heckscher-Ohlin theory and its Empirical tests, Stolper-Samuelson theorem, Rybczynski Theorem.

Equilibrium and Disequilibrium in the Balance of Payments; Adjustment Process under Fixed Exchange and Flexible Exchange rates; Expenditure Reducing and Exchange Switching Policies; Policy for Achieving simultaneous Internal and External Equilibrium under Alternative Exchange rate Régimes. Foreign Exchange Markets and Exchange rate determination ;

UNIT -II Trade Interventions

The Political Economy of Protectionism, Partial and General Equilibrium of Tariff in a Small country and in a large country; The Optimum tariff; Non- Tariff trade barriers and the New Protectionism; Effective and optimum rates of tariffs - their measurement, impact and welfare implications ; The Quotas; Economic Effects of Tariffs and Quotas on various macroeconomic variables;

UNIT- III Trade and Growth

Trade as engine of growth; static & dynamic gains from trade; Measurement of gains from trade and their distribution; Hypothesis of secular deterioration of terms of trade and policy implications for less developed countries; Prebisch, Singer and Myrdal

Economic Growth and International Trade; Imperfect Competition and International Trade. Labour growth and Capital Accumulation over time. Export Led Growth. The East Asian Miracle. WTO- functions, Role, WTO and developing countries.

UNIT - IV International Monetary System and Economic Integration

Operation and Evolution of the Bretton Woods System ; Collapse of Bretton Woods system ; Operation of the Present Monetary System; Reform in the present International Monetary System, Problems with present exchange rate arrangements. Conditionality Clause of IMF and World Bank ; IMF and World Bank from the point of view of developing countries and India.

Economic Integration: Custom Union and free trade areas ; Static and Dynamic benefits from custom union ; Regional Groupings in Globalization --- Euro Zone and ASEAN.

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UNIT- V Contemporary Issues in International Economics

International Capital Flows. International Debt Crisis, Financial crisis in emerging Market Economies ; Asian crisis of 1997, Global Financial crisis of 2008, Euro Zone crises 2010. Washington Concensus and New International Economic Order

Suggested Readings

- Barro J. Robert, Jong-Wha Lee Cost and Benefits of Economic Integration In Asia, Oxford University Press
- Bhagwati, J. (Ed.) (1981), International Trade : Selected Readings, Cambridge University Press, Massachusetts
- Borkakoti, J.; International Trade- Causes and Consequences ; First Edition ; Palgrave Macmillan
- Carbaugh ; Global Economics ; Thirteenth Edition ; Cengage Learning.
- Chacholiades, Miltiades; International Economics 1st Edition; Tata McGraw Hill Education (India) Private Limited
- Cherunilam; Francis ; International Economics; Fifth Edition ; Tata McGraw Hill Education (India) Private Limited
- Greenway, D. (1983), International Trade Policy, Macmillan Publishers Ltd., London.
- Godstein, M. (1998), The Asian Financial Crisis : Causes and Systematic Implication, Institute for International Economics, Washington, D.C.
- Joshi, Rakesh Mohan ; International Business ; First Edition ; Oxford University Press
- Kenen, P.B. (1995), Economic and Monetary Union in Europe, Cambridge University Press, U.K
- Kenen, P.B. (1994), The International Economy, Cambridge University Press, London
- Krugman, P.R. and M. Obstfeld, International Economics, Theory and Policy, Glenview, Foresman
- Lowenfeld Andreas F; International Economic law ; Second Edition ; Oxford Publications
- Mannur H.G. ; International Economics ; 2nd Revised Edition ; Vikas Publishing House.
- Paul R. Krugman, Maurice Obstfeld International Economics : Theory and Policy, Pearson Education Inc.
- Pugel A Thomas, International Economics ; 13th edition; Tata McGraw Hill education pvt.Ltd.
- Rajan, Ramkishan S and Gopalan, Sasidaran and Hattari, Rabin ; Crisis, capital flows and FDI in Emerging Asia ; Oxford University Press.
- Salvatore, D. , International Economics, Prentice Hall, Upper Saddle, NJ, New York
- Soderston, Bo , International Economics, The Mcmillan Press Ltd. London.
- Soderston, Bo , Geoffrey Reed, International Economics, The Mcmillan Press Ltd. London
- Toussaint, Eric and Millet, Damien ; Debt, The IMF and The World Bank ; Aakar Books.

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Course Code: PGECO3C0031
Course Title: Research Methodology in Economics

Objective: The Course aims at providing basic knowledge regarding the planning and organisation of research and the tools and techniques used in social science research with special reference to Economics. It prepares the students for designing of questionnaires; collection, analysis and interpretation of data and writing of a research report.

UNIT - I: Introduction to Research

Meaning and Objectives of Research, Research in Social Science with Special Reference to Economics; Objectivity and Limitations in Social Science Research; Ethics in Social Science Research. Types of Research: Pure, Applied, Exploratory, Descriptive, Diagnostic, Evaluation and Action Research. Research Methods versus Methodology, Review of Literature, Selection of a Problem for Research, Formulation of the Selected Problem: Developing title, building a conceptual model, defining the objectives of the study, setting of investigative questions, formulation of hypotheses, operational definition of concepts and delimiting the scope of the study.

Unit - II: Sampling and Data Collection

Census and Sample Survey, Sampling Design: Probability and Non-Probability Sampling Methods, Sample Size, Sampling and Non Sampling Errors.

Data Requirement for Research; Sources of Data: Primary and Secondary Sources; Methods of Collecting Primary Data: Observation, Experimentation, Simulation, Interviewing, Panel Method, Mail Survey, and Projective Techniques. Tools for Data Collection: Construction of Schedules and Questionnaires, Sources of Secondary Data in India.

Unit - III: Measurement, Scaling Techniques and Processing of Data

Concept of Measurement, Levels of Measurement: Nominal, Ordinal, Interval and Ratio. Sources of Error in Measurement. Characteristics of Research Tools: Reliability, Validity and Objectivity. Scales in Research: Rating and Attitudinal Scales.

Processing Operations: Editing, Coding, Classification and Tabulation. Problems in Processing, Construction of Frequency Table.

Unit-IV: Testing of Hypotheses

Basic Concepts Concerning Testing of Hypotheses, Testing of Hypothesis: Parametric and Non -Parametric Tests – Standard Test of Hypothesis: Z test, t test, F test and Chi square test. Sign Test, Rank Sum Test, Kruskal-Wallis or H Test. Analysis of Variance (ANOVA) and Analysis of Co-variance (ANOCOVA), Linear Regression Model- Estimation of Parameters and Tests of Significance.

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Unit-V: Report Writing and Presentation of Results

Meaning and Purpose of a Research Report, Types of Research Reports: Technical Report, Popular Report, Interim Report, Summary Report, Research Abstract and Research Article. Planning Report Writing, Research Report Format, Documentation: Footnotes and Bibliography.

Suggested Readings

- Kothari, C.R. *Research Methodology-Methods and Techniques*, New Age International.
- Raiyani, J. *Research Methodology-Theory and Techniques*, New Century Publications
- Kumar, Ranjit. *Research Methodology*, Sage Publications
- Bryman, Alan. *Social Research Methods*, OUP
- Daniel P Sam and Aroma G Sam, *Research Methodology*, Kalpaz Publications.
- Nachmias, D., and Nachmias C. *Research Methods in Social Sciences*, St. Martin's Press, New York
- Krishnaswami, O R., and Ranganatham M. *Methodology of Research in Social Sciences*, Himalaya Publishing House
- Gupta, S. P. *Statistical Methods*. Sultan Chand & Sons, New Delhi.
- Das, N. G. *Statistical Methods*, Tata Mc-Graw Hill
- Reddy, R. J. *Research Methodology*. APH Publishing Corporation, New Delhi
- Gujarati, D.N. *Basic Econometrics*, 4th Edition. Tata McGraw-Hill Publishing Company Ltd, New Delhi.
- Koutsoyiannis, A. *Theory of Econometrics*, 2nd Edition. Palgrave, New York
- Dougherty, C. *Introduction to Econometrics*, 2nd Edition. Oxford University Press, New York.
- Wooldridge, J. M. *Introductory Econometrics*, 3rd Edition. Thomson South Western, New Delhi

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Course Code: PGEC03E0041

Course Title: Economics of Education

Objective: The aim of the Course is to analyse the investment attributes of expenditures incurred in education by various stakeholders for the purpose of increasing the labour productivity and to assess the role of education in the growth, development and social transformation of a developing economy.

Unit-I) Human Capital Formation and Economic Development

Concepts of Human Capital; Historical roots of the Concept, Components of Human Capital-- Education, Health, On the Job Training, Labour Mobility and miscellaneous variables. Human Capital and Economic Development- Evidence from contemporary developed countries.

Unit-II) Education and Economic Growth

Education, Skill formation and labour productivity; Consumption-Investment; controversy regarding expenditure in education; Cost of Education-Components of private cost and social cost; Opportunity cost of education; Benefits of education-direct and indirect benefits; Assessment of direct benefits---- correlation approach, residual approach, manpower-needs forecasting approach and returns approach; Rate of returns to investment in education; External benefits of education.

Unit-III) Market for Educated Manpower

Market for educated manpower-Earnings functions, market signalling theory and segmented labour market; Market failure and need for educational planning; Social choice and economic efficiency in allocation of resources; The role of private sector in education

Unit-IV) Wastage in Education

Wastage in Education- Concept. Wastage at various levels. Internal wastage- dropout and stagnation: evidence from developing countries. Wastage in Education among vulnerable sections. External wastages- educated unemployment in developing countries: causes and consequences. Economics of International migration of Human capital

Unit-V) Issues in Indian Educational Sector

Sources of educational finance in India; Inter sectoral resource allocation in Education, Incidence of Stagnation and Dropout in elementary education; Role of SSA and Mid-Day Meals in retention of students, Gender Issues in Indian education, Education of disadvantaged groups, Quantity vs Quality in Indian education, The role of technology in improving educational outcomes.

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Reading Lists

- Arrow, K.J., M.D. Intriligator (2006), Handbook of the Economics of Education; Elsevier publisher.
- Becker, G.S, (1964) Human Capital New York: University press.
- Becker, G.S, (1972)- Human Capital, NBER, New York.
- Blaug, M. (ed) (1968). Economics of Education selected Readings. Vol. 1 and 2 London: Penguin Books.
- Blaug, M.(1972)- An Introduction to Economics of Education, Cambridge University Press.
- Cohn, E. and Gesker (1990) T. G. The Economics of Education Oxford: Pergamon Press
- G.S.Parnes, Planning Education for Economic Social Development.
- George Pascharopoulos (1985)- Education for Development, Oxford University press, N.Y
- Hanushek.E.D, Jamison and L. Wessmann (2008) "Education and Economic Growth".
- Levin.H (1989) Mapping the Economics of Education. An Introductory Essay, Education Researcher.
- Majumdar, T. (1983) Investment in Education and social Choice, Cambridge, Cambridge University Press.
- Pascharopoulos. G. (ed) 1987 Economics of education Research and Studies Oxford, Pergamon Press.
- Psacharopoulos G. and Woodhall (1986). Education of Development Washington The World Bank.
- Shriprakash, Cost of Education (1996) New Delhi: Anamika Publishers and distributors.
- Spence, A.M (1974) Market Signalling: informational transfer in hiring and related screening processes. Cambridge: Harvard University Press.
- Tilak, J. B. G. (1987). The Economics of Inequality in Education New Delhi: Sage publications.
- Tilak J. B. G. (1989) Education and its Relation to Economic Growth Poverty and income distribution: past Evidence and Further Analysis washington D. C. The World Bank.
- Tilak J. B. G. (1994) Education for Development in Asia, New Delhi Sage publications.

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Course No. PG'EC03I008T
Gender and Development

Objective: This interdisciplinary programme focuses on providing the students a thorough understanding of economic and social processes that shape the contemporary global world and their gendered outcomes. This course is designed to prompt an exploration of common behaviours' and attitudes towards gender differences.

UNIT I : Women and Labour Markets

Concept of women's work. Valuation of productive and non-productive work; Visible and invisible work; Paid and unpaid work; Economically productive and socially productive work. Gender sensitive National Income estimation. Women in Labor Market. Factors affecting female entry in labour market. Gender and wage differentials.

UNIT II: Women, Work and Decision-Making

Female work-participation rate and their Economic status in developing countries. Impact of technological development and modernization on women's work participation in various sectors. Factors affecting decision making by women: Property rights, Access to and control over economic resources, assets; Power of decision making at household and community level.

UNIT III : Social Security of Women

Social security of women: Entitlements ensuring economic independence and risk coverage, Access to credit and insurance markets. Role of voluntary organizations and self-help groups in providing social security. Schemes for safety net for women. Need for female labour unions.

UNIT IV: Gender Development Policy in India

Mainstreaming gender into development policies. Gender sensitive governance; Paradigm shifts from women's well being to women's empowerment. Democratic decentralization (panchayats) and women's empowerment in India, National Commission of Women, Committee on the Elimination of Discrimination Against Women (CEDAW). National policy for the empowerment of women (2001). Introduction to Gender budgeting.

UNIT V: Gender Issues in India

- i) Employment and Livelihood Issues;
- ii) Gender Differences in Education and Health
- iii) Falling Child Sex Ratio
- iv) Discrimination in household distribution of food and other amenities
- v) Women and Household Decision Making;

Basic Reading List:

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1. Biswal, Tapan(2006), Human rights, Gender and Environment, Viva Books Pvt Ltd.
2. Hopper, Paul. (2012), Understanding Development, Polity Press.
3. Menon, Nivedita (1999), Themes in Politics; Gender and Politics in India, Oxford University Press.
4. Mohanty, (2007, Women and Political empowerment Functions, Institute of Social Science
5. Pal, Bharti, Bholanath, Vasuler (2011), Gender and Decimation (Health, Nutritional Status and Role of women in India, Oxford University Press.
6. Ray Raka (2012), Handbook of Gender, Oxford University Press
7. The World Bank (2012), Gender, Equality and Development.

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Course Code: PGEC03I009T

Course Title: Money Banking and Finance

Objective: The last few decades have seen a remarkable evolution in the institutions that comprise modern monetary system. The objective of this paper is to provide students an overview of the Indian banking system and an understanding of the theory and practice of monetary policy.

UNIT -I: Money

Concept of Money, Types and Functions of Money, Demand for Money, Money creation, Money Supply, Components and Determinants of Money Supply, Measures of Money Supply in India, Factors affecting Money Supply in India.

UNIT-II: Commercial Banking System

Concept of Commercial Banking, Functions of the Commercial Banks, Borrowing and lending activities of the commercial banks, Deposit Mobilisation, Nationalisation of banks, Commercial Banking Structure in India.

UNIT -III :The Central Banking System

Concept of Central Banking, Functions of the Central Bank, Borrowing and lending activities of the Central bank, the Central Bank of India, Monetary Policy of the Reserve Bank of India, Control of Currency by the Reserve Bank of India, The Reserved Money(RM), Control of Credit by the Reserve Bank of India, Short Term Liquidity Management.

UNIT -IV: Money And Capital Markets

The composition of the Money Market, Features and Defects of the Money Markets, The Reform of the Money Market, the Composition of the Capital Market, Development Financial Institutions(DFIs), Non-Banking Finance Companies (NBFCs), Money and Capital Markets in India.

UNIT -V:Institutional Financing

Evolution of Institutional Financing, Classification of Institutional Financing, All India Development Financial Institutions, Investment Institutions, Specialised Financial Institutions, State level Institutions, A Critical Appraisal of the Industrial Financing Institutions.

Basic Reading List

1. Rakshit, Mihir (2011); Money and Finance in the Indian Economy; Oxford University Press.
2. Datt, Rudder and Sundharam, K.P.M (2012); Indian Economy; S.Chand
3. Khatkhate, Deena(2009); Money, Finance, Political Economy; Academic Foundation
4. Misra, S.k. and Puri, V.K.(2013); Indian Economy; Himalaya Publishing House.
5. Kapila, Uma; Indian Economy; Academic Foundation

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Course Code: PG.EC03C0011

Course Title: Theory of Cycles and Growth

Objective: The objective of this Course is to offer a comprehensive understanding of the medium-term and long-term macro dynamics right from 1940s down to 2010.

Unit – I Linear and Non-Linear Models of Trade Cycles

Samuelson's Interaction between Multiplier and Accelerator. Hicksian theory of Cycles. Kaldor's model of Cycles. Goodwin's Non-Linear Model. Kalecki's Theory of Cycles and Dynamics of a Capitalist Society.

Unit – II Trade Cycle Theory and Counter Cyclical Measures

Recent developments in business cycle theory. Political Business Cycles. International transmission of Cycles. The Effect of Cycles ---- income – employment Effect and Balance of Payments Effect. Stabilization Policy. Counter - Cyclical measures and macroeconomic policy

Unit – III Theory of Growth

Classical Theory of Growth. Harrod's theory of growth. Domar's Shifting Equilibrium model. Harrod – Domar model and contemporary developing economies. Essentials of Neo Classical Growth Theory.

Unit – IV Neo Classical and Cambridge Models of Growth

Meade's Theory of Growth. Solow Model. Mrs. Joan Robinsons theory of Capital Accumulation. Kaldor's theory of Growth. Cambridge criticism of neo-classical analysis of growth. Second Generation Cambridge Economists and Growth Theory ---- Passenetti Model..

Unit – V Recent Developments in Growth Theory

Endogenous Growth. Romer Model. Golden rule of accumulation: Uzawa's Two – Sector Growth model. Production Function approach to determinants of growth. Growth Accounting: Technical progress – embodied and disembodied technical progress; Concept of learning by doing. AK models. Optimal savings and Ramsay's rule.

Suggested Readings

Robinson, Joan (1956): The Accumulation of capital, Mac-Millan

Evans, M K (1969) : Macroeconomic activity, Harper and Row

Bober, Stanley (1968): The Economics of Cycles and Growth, New York: John, Wiley and Sons.

Hicks, J R (1950): A Contribution to the Theory of Trade Cycle, Oxford

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Course Code: PGECO4C001T

Course Title: Development Issues and Indian Economy

Objective: The main objective of this Course is to make the students aware about the interdependence between the evolution of the development economics as a sub discipline of economics and Indian development experiences.

Unit - I) Factors Inputs and Economic Development

Quantity and quality of Human Resource in development process, Human capital & economic development, Role of capital & technology in development process.
Labour supply in India, labour productivity – a case study of Indian IT industry, Savings and Investment in India, R &D and transfer of technology in India.

Unit-II) Poverty, Inequality & Development

Poverty: Concepts and Measurement. Poverty Line. Inequality and its measurement; Lorenz curve, Kuznets ratio, Ginni coefficient. Inequality, income and growth- The inverted-U hypothesis.

Poverty Incidence in India; Trends in Income Distribution Pattern in India; Assessment of Poverty alleviation programmes with special reference to MNEGRA and JRY.

Unit-III) Human Development

Concept of Human development: Measures of Human development –HDI, GDI & related indices; Role of Education, health and nutrition in Human development; Gender in Human development. Gender gap-Women and Education

Elementary Education & Public Health in India; Social Welfare Measures, Food Security and PDS; Social Security legislation and its critical appraisal .

Unit-IV) Environment

Development and Environment; Environment and Market Failure; Need for Environmental Valuation; Environmental Regulation -- Need & Measures –emission charges and pollution permits.

Indicators and incidence of environmental degradation in India; Environmental laws. Air & Water Pollution; Joint Forest Management, Environment and NGO's in India

Unit-V Political Institutions and Role of State

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Government failure and Corruption, State ownership and regulation: Corruption and development; Emergence of Parallel economy and its development consequences.

Corruption and Issues of good Governance in India: Transparency; Minimalist role of government; Competitive policy.

Suggested Readings:

UNDP: Human Development Report: Oxford, Various Issues

Planning Commission (2011): India Human Development Report : Oxford

Chakarvaty, S (1987), Development Planning: Oxford

World Bank ,World Development Report, Oxford. Various Issues

Todaro, M P & S C Smith (2009), Development Economics

Duane Chapman (1999): Environmental Economics: Theory, Application, and Policy, Prentice Hall

Nick Hanley, Jason Shogren, Ben White (2012): Introduction to Environmental Economics, Oxford University Press

Ulaganathan Sankar (2001): Environmental Economics, Oxford University Press

Partha Dasgupta, Karl-Göran Mäler (2000) The Environment and Emerging Development Issues Volume I & II, Oxford University Press

India Social Development Report (2010), The land Question & the marginalized : Oxford University Press

Council for Social Development (2011), India Development Report, Oxford University Press

Jalan, Bimal (1996), India's Economic Policy: Preparing for the 21st century: Viking

Jalan, Bimal (2006), The Future of Indian Politics, Economics & Governance, Penguin

Ray, Devraj (1998), Development Economics : Oxford University Press

Drez J & A Sen (2002) , Indian Development and Participation : Oxford University Press

Sen Amartya (1984), Resources, Values and Development : Oxford University Press

Jayaraj D & S Subramanian (2010): Poverty, Inequality and Population, Oxford University Press

World Bank (2011), Perspectives on Poverty in India : Oxford University Press

Kumar, C Raj (2011): Corruption and Human Rights in India: Comparative Perspectives on Transparency and Good Governance : Oxford University Press

Kolstad Charles D (2000), Environmental Economics: Oxford

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World Bank (2011), *Poverty and social exclusion in India*: Oxford

Thirlwall, A.P.(1999) : *Growth and Development*, Macmillan, London,

Ghatak S (1995) , *An Introduction to Development Economics*: Routledge

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Course Code: K4 6004 0002
Course Title: Dissertation

Objective: The objective of the Course is to initiate the students to empirical economic research on a prescribed research issue in an identified area of study by taking them out of their classroom so as to have a feel of ground reality; make them to collect primary data with the help of a questionnaire designed for the purpose; and analyze & interpret the data for deriving meaningful conclusions having policy implications.

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Course Code: 140040000
Course Title: Health Economics

Objective: The aim of Health Economics is to explore the concern of economics with human health and analyze the economic sense in health care production and demand. The broad objective of the Course is to promote a better understanding of the economic aspect of health care problems so that corrective health policies can be proposed and designed.

Unit-I: Health Economics-Scope and Significance

Health, Economics and Health Economics; Health Economics-Need for a separate discipline; Health care and Medicare; Health Care as an Economic Commodity; Types of Health Care: Preventive, Curative, Promotive; The Production of Health and Health Care; Health Indicators and Health Status of Individuals and Community.

Unit-II: Demand for and Supply of Health Care

The concepts of Need, want and demand; Demand for health and health care-Health care as an input of health and derived demand for health; Grossman Model of health and health care; Capital-Consumption of and the Investment in Health Care; Asymmetric Information; Principal-Agent Problem in health Care; Supply Induced Demand; Main Supplier of Health Care- Health Care Manpower, medical institutions.

Unit-III: Market, Market Failure and the Role of Government in Health Care

Market for health care- Pharmaceutical Market, The Market for medical and paramedical manpower; limitations of health care market; The Market for Health Insurance; The Uncertainty and Health Insurance Market; Inequity and Inequality in Health care. Externalities in Health Care, market failure and rationale for Government intervention in Health Care, Direct government intervention and sources of Health Finance, Role of private player in health care.

Unit-IV: Economic Evaluation in Health Care and Health Care Programmes.

Welfarist and Non-Welfarist approach; Principle of Economic Evaluation in Health Care- Cost-Benefit and Cost-Effective Analysis in Health Care, Measuring and Valuing Health Care Output; Economic Evaluation to Health Care Programmes; Model-Based Economic Evaluation-Using Multiple Sources of data, Decision Analysis, Markov Models; Dealing With Uncertainty and the Sensitivity Analysis.

Unit-V: Issues in Indian Health Sector

Health Care Delivery System in India ; Health Infrastructure in India; National Health Policies in India. Indian Pharmaceutical Market; Utilization and efficiency in Indian health care facilities; Trends and Patterns of India's Health care Financing; Household Health

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Expenditure and Burden of Disease, medical malpractice in India; Health indicators of India and some other countries; Regional Variation in Health Outcomes in India.

Basic Readings:

A. J Culyer and J. P Newhouse (2000) Handbook of Health Economics, Vol. 1 & 2, NH Elsevier.

Folland, Sherman, Aller C. Goodman and Mivan Stano (1997), The Economics of Health and Health Care; Prentice hall, New Jersey.

Morris S, Nancy D and Parkin D (2012), Economic Analysis in Health Care, Wiley India Pvt. Ltd.

Phelps Charles .E (1997), Health Economics, Addison Wesley.

Feldstein Paul J. (2011), Economics of Health Care, Cengage Learning

GOI (1983) National Health Policy, Ministry of health and family welfare, New Delhi.

World Bank (1994) Investing in People: The Health sector, Washington D.C.

William, Jack, *Principles of Health Economics for Developing Countries*, World Bank Institute Development Studies, 1999.

World Development Report, *Investing in Health*, The World Bank, 1993.

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Course Code: . PGEC04E007T
Course Title: Human Development

Objective: The main objective of the course is to make the students aware about the latest and all inclusive understanding of development and to initiate them to the new dimensions which till recently were not included in main stream development economics. The Course will also deal with the issue of quantifying development so as to monitor the pace of development and required interventions particularly in the context of contemporary developing countries.

UNIT – I : Concept, Scope and Significance of Human Development.
Concept and Scope of Human Development. Human Development and Human Resource Development. Dimensions of Human Development. Emergence of new dimensions --- Freedoms and Securities, Happiness and Human Rights. Human Development as a new paradigm of Development.

UNIT –II: Human Development Index
Measuring Human Development. Construction of HDI. UNDP Human Development Index. Changing Methodology of HDI. Study of Latest (2011) Methodology. Other UNDP Indices (GDI, GEM, HPI-I and HPI-II). Their Construction and Significance.

UNIT – III: Human Development and Economic Growth
Alternative paradigms of Development. Human Development and Economic Growth: Cross Country Evidence. Evidence from Indian States. Translating Human Development into Economic Growth. Linkages between Human Development and Economic Growth --- the role of Social Policy.

UNIT – IV: Poverty and Human Development
Concept and Measurement of Poverty. New Dimensions : Income Poverty and Human Poverty; Poverty of Capabilities. Analyses of Human Poverty Index. Poverty, Human Development and Economic Growth ---- the linkages

UNIT – V: Human Development Issues in India
a) Poverty and Inequality
b) Low Literacy and Poor Quality of Elementary Education
c) Health and Food and Nutritional Insecurity
d) Vulnerable Sections
e) Corruption and Poor Governance

Basic Reading List:

1. Human Development Report, UNDP, various issues
2. National Human Development Report. GoI, Planning Commission, New Delhi

TR

3. Sen, Amartya, "Reflections on Human Development", New York, Oxford University Press
4. Fukuda-parr, and A K Shiva Kumar (eds.), Readings in Human Development, Oxford University Press
5. Hopkins, Micheal: "Human Development Revisited: A New UNDP Report", World Development.
6. Kitti P and Sauwalak, "Gross National Happiness: the Development of Indicators". Bangkok: Public Policy Development Office.
7. India Human Development Report, NCAER, 1999.
8. Nubler, H T, "Flaws of Human Development Index", Intereconomics, vol. 26.
9. Ram, F, Chandra Shekhar and S K Mohanty., "Human Development: strengthening District Level vital statistics in India", IIPS Mumbai
10. Sagar A D and A Najam "The Human development Index: A Critical Review", Ecological Economics, Vol. 25
11. A Sen "Development as Freedom" Oxford University Press, New Delhi.
12. Streeten, Paul, "First Things First: Meeting basic Needs in Developing Countries", Oxford University Press
13. Hopper, Paul (2012), "Understanding Development", Polity Press

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- Muller, M G(ed)(1967): Readings in Macroeconomics, New York
- Sen, Amartya (ed) (1970): Growth Economics, Penguin
- Kaldor, Nicholas(1980): Essays on Economic Stability and Growth, Holmes & Meier Publishers
- Solow, Robert (1956): Growth Economics
- Robert J Barro and Xavier Sala-i-Martin (ed) (2002) : Economic Growth, Cambridge University Press
- A. P. Thirlwall (2003) : The Nature of Economic Growth: An Alternative Framework for Understanding the Performance of Nations
- Hendrik Van den Berg (2012) : Economic Growth and Development
- Torben Andersen (1994) : Endogenous Growth
- Roy Choudhary, K C: Classical theory of Economic Growth
- Daron Acemoglu (2004): Recent Developments in Growth Theory
- Luigi L. Pasinetti, Robert M. Solow (Eds.) (1994): Economic Growth and the Structure of Long-term Development (International Economic Association)

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Course Code: PG-EC04 EOL 01

Course Title: World Economy

Objective: As the distance between the nation states is shrinking with their boundaries becoming increasingly blurred, we rarely see things from the perspective of a single entity. Economies of the world are closely interlinked through many channels and therefore it is imperative to have a global perspective. In this context the course is designed to equip the students with an understanding of the basics of the world economy, its functioning and reactions to major changes and shocks.

Unit-I: INTRODUCTION TO WORLD ECONOMY

An overview of the world economy; Major economies of the world, Income and Income Growth of World Economy during the last two decades. Linkages in the Major Economies-Trade, Investment and Capital Flows, Major Economic Groups.

Unit-II: WORLD ECONOMY: THE DEMOGRAPHIC DIMENSION

Recent Trends in world population

Birth Rate, Death Rate, Infant Mortality Rate, Child Mortality Rate, Total Fertility Rate, Life Expectancy at birth in US, UK, Germany, France, Japan, China, India, Sri Lanka, Australia and Bangladesh.

Unit -III: AGRICULTURE AND INDUSTRY IN THE WORLD ECONOMY

Main food producers of the world; Trends in the production of main food crops; World food security.

Main Industrial Economies of the World; Role of industrial development in the growth of major world economies.

UNIT-IV: WORLD TRADING SYSTEM

Trends in the international trade; Main trading nations of the world; Role of international trade in the growth and development of Major World Economies. Emergence of WTO. Role of WTO in World Economy.

UNIT-V: INTERNATIONAL MONETARY SYSTEM

International Monetary Fund: Functions, Working and its Role

World Bank: Functions, Working and its Role

Global Financial Crisis and its impact on World Economy.

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Suggested Readings:

World Bank, World Development Report, Oxford. Various Issues

Human Development Report, various issues

Trade and development report, various issues

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Central University of Jammu
Department of English

ANNEXURE - IX

NO: CUJ/ENG/05(i)/2015/459

Dt: 3/9/2015

The Assistant Registrar
Central University of Jammu
Jammu

Sub: Revised Syllabus & Scheme as per UGC guidelines and CBCS pattern

Ref. No. : 4-3/Eng/CUJ/Reg/2013/368 Dt: 19/8/2015

Sir,

Please refer to the letter regarding the structure of the reframed syllabus which is in accordance with CBCS pattern. Please find attached the revised structure as requested by you. These changes will be submitted for rectification in the next School Board meeting. Kindly accept this in anticipation of approval by the said Board of Studies.

Yours sincerely,

Nandini Bhattacharya

(Prof. Nandini Bhattacharya)
Head, Department of English

Prof. Nandini Bhattacharya
Professor and Head
Dept. of English
CENTRAL UNIVERSITY OF JAMMU
Department of English
Jammu

3/9/15
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Ms. Mrs.
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4/9/15
04/09/15

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Head of the Department of English & Comparative Literature, the Vice Chancellor, in anticipation to the approval of the Academic Council, has approved the Course Matrix/Scheme and Syllabus for the First semester students for the Academic Session 2015-16. The approved Course Matrix/Scheme is as follows:

SEMESTER-I

Course Code	Course Title	Credit	Total Marks
CORE COURSES			
PGECL1C001T	Poetry (14 th -20 th century)	4	100
PGECL1C002T	Drama (16 th -20 th century)	4	100
PGECL1C003T	Literary Criticism (Western)	4	100
PGECL1C004T	Fiction (18 th -20 th century)	4	100
FOUNDATION COURSE			
PGECL1F005T	Cultural Background to English Literature	4	100
Total		20	500

Registrar

10/9/15

Encl: Approved syllabus of 1st semester

Copy to:-

1. Dean, School of Languages
2. Head, Department of English & Comparative Literature
3. DR (Examinations)
4. PS to VC
5. PA to Registrar

Semester I


Course No: PG ECL 1 C 001 T
Title of the Course: Poetry (14th to 20th century)

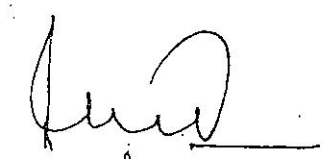
Course Objective:

- This course gives an overview of British poetry as it evolves from the fourteenth to twentieth century.
- The course introduces the students to poetry as a genre.
- It introduces students to major British poets and how they constitute the historical and critical tradition of British poetry.

Course Content

Unit 1.	Chaucer: "Prologue" (<i>Canterbury Tales</i>) Shakespeare: Five Sonnets (18, 24, 73, 94, 110)
Unit 2	John Milton: <i>Paradise Lost</i> Book I and Book IV John Donne: "The Canonization" and "Death be not Proud"
Unit 3	Wordsworth: "Tintern Abbey" and "Ode on Intimations of Immortality" Keats: "Ode to a Nightingale" and <i>Hyperion</i>
Unit 4	Robert Browning: "Porphyria's Lover" Eliot: <i>The Wasteland</i>
Unit 5.	W. H. Auden: "In Memory of W.B. Yeats" W.B. Yeats: "A Prayer for My Daughter" Seamus Heaney: "Digging"


Nandini Bhattacharya 13/7/2015


Subhojit

Semester I


Course No. . *PQECL1C002T*

Title of the Course: Drama (16th to 20th Century)

Course Objective: The course is designed to:

- Teach the students about evolution of drama and acquaint them with critical terminologies evolving from Greco-roman critical domain.
- acquaint them with major plays and playwrights in Britain.
- acquaint them with features and dramatic trends of each age.
- introduce them to shifts in theoretical positions in chronological and spatially differentiated cultural terms.

	Course Content
Unit 1	Poetics. Terms: <i>Tragedia, Comos, Hamartia, Peripetia, Anagnorisis, Tragic hero, Plot, Catharsis, Denoument, Unities, Ethos, Mythos, humour, satire.</i> Christopher Marlowe: <i>The Tragical History of Dr. Faustus</i>
Unit 2	William Shakespeare: <i>Twelfth Night</i> William Shakespeare: <i>King Lear</i>
Unit 3	John Webster: <i>Duchess of Malfi</i> Ben Jonson: <i>Volpone</i>
Unit 4	Sheridan: <i>The Rivals</i>
Unit 5	T.S. Eliot: <i>Murder in the Cathedral</i> G.B Shaw: <i>Pygmalion</i>



Nandini Bhattacharya

13/7/15

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Semester I

Course No. 1 : PG ECL 1 C003T

Title of the Course: Literary Criticism (Western)

Course Objective:

- The course will acquaint students with theories/ interpretation of literature and genealogies of literary criticism issuing from Graeco-Roman critical domain.

Course Content

Unit 1	Extracts from Plato Aristotle Horace Longinus	<i>The Republic</i> (Chapter 10)/ <i>Ion</i> <i>Poetics</i> <i>Ars Poetica</i> <i>On The Sublime</i>
Unit 2	Philip Sidney Alexander Pope	<i>The Defense of Poesy</i> <i>Essay on Criticism</i>
Unit 3	Wordsworth Coleridge	<i>Preface to Lyrical Ballads</i> <i>Biographia Literaria</i> (Chapters XII, XIII, XIV and XVII)
Unit 4	Matthew Arnold	<i>The Study of Poetry</i> "Function of Criticism in the Present Time"
Unit 5	T.S Eliot I.A Richards	"Tradition and Individual Talent" "Metaphysical Poets" "Hamlet" "The Two Uses of Language" "Four Kinds of Meaning" from <i>Principles of Literary Criticism</i>

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Nandini Bhattacharya

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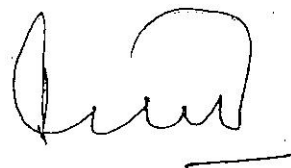
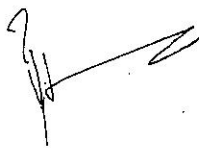
Course No.: PG-ECL1C004T Semester I
Title of the Course: Fiction I (18th to 20th Century)

Course Objective:

- 1) The course acquaints students with the novel as a genre
- 2) The course acquaints students with theories regarding its rise in the 18th century in Britain and social contexts.
- 3) The course acquaints students with formal components such as plot, character, and representation of thought; point of view
- 4) The course acquaints students with an overview of its development within certain modes such as epistolary, historical, picaresque, through 18th and 19th centuries.

Course Content

Unit I	Ian Watt: "Introduction" <i>Rise of the novel</i> Mikhail Bakhtin: <i>Dialogic Imagination: Four Essays</i> Daniel Defoe: <i>Robinson Crusoe</i>
Unit II.	Jane Austen: <i>Northanger Abbey</i> Mary Shelley: <i>Frankenstein</i>
Unit III	Charlotte Bronte: <i>Jane Eyre</i> Charles Dickens: <i>David Copperfield</i>
Unit IV	Lewis Carroll: <i>Alice's Adventures in Wonderland</i> E.M. Forster: <i>A Passage to India</i>
Unit V	Virginia Woolf: <i>Mrs. Dalloway</i> John Fowles: <i>French Lieutenant Woman</i>



Nandini Bhattacharya
13/7/15

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Semester I

Type of Course: Foundation Course

Course Code: PG ECL1F005T

Title of the Course: Cultural Background to English Literature

Course Objective: This Foundation Course is meant to acquaint the students with the important movements in the history of English Literature.

Course Content

Unit 1. **Medieval Literature:**

Definition, Scope and Relevance

Key Terms: Epic, Courtly Romance, Chivalric Romance (Arthurian literature), Allegory, Ballad, Exemplum, Satire, Heroic Couplet Fabliau, Debate, Dialogue and Dream vision, Gothic (Architecture to Literary Reception), Lyric, Lollardism, Miracle Play, Morality Play. Cultural Background: (The Norman Conquest, Idea of crusade, The Hundred Years of War, Early seeds of class-society, The Black Death, Peasant Uprising, Feudalism, Catholic Christianity/ "Age of Faith" (Religious authority and dissent), Women question.

Renaissance

Definition, Scope and Relevance

Key Terms: Humanism, Reformation, Vernacular Literature, Blank Verse, Elizabethan Drama, new literary genres (the essay, the Sonnet, the Spenseian stanza)Key Figures: the University Wits, Shakespeare, Marlow, William Kyd, Edward Spenser, Montaigne, John Donne

Cultural Background : Humanism (Studia Huminitatis, Humanitas, Humanista), Humanism as new education, medical humanists, Interpretation of classical world by Renaissance humanists, Plutarch and the Classical Revival, Boccaccio, Machiavelli (*The Prince*), Erasmus (*Education of a Christian Prince*), Jean Bodin (*Six Books on the Commonwealth*), Ariosto, Leonardo Da Vinci, The Great Plague (1348-50), The invention of the movable type (1450s), The Territorial Monarchies (Spain, France and England), Princedoms, monarchies and oligarchies or republics, The institution of the Ambassador, Renaissance and Aristotelian Science (Nicolaus Copernicus and Galileo Galilei), The Gregorian Calender, heightened interaction between patron and artist, Three translations of the Bible (William Tyndale, Geneva Bible and King James Bible)

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Prof. *Nandini Bhattacharya*
(Professor of English)

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Unit 2	<p>Restoration Period Definition, Scope and Relevance Key Terms: Restoration of monarchy, restoration of theatre; Comedy of Manners; Political satires; Doctrinal Poems; Heroic tragedy; Formalism; The English Epic; Appropriateness and Correctness Cultural Background : The Protectorate; Restoration of Charles II; Fall of Commonwealth; Venner Rebellion; Religious Settlement; Glorious Revolution; Royal Society</p> <p>Augustan/Neoclassical Definition, Scope and Relevance Key Terms: Augustan age; the epic in translation, mock-epic, Heroic Couplet; Periodical essay; Parody; Fables ; Novel; Picaresque novel; Epistolary novel Cultural Background: Civil War, Restoration of monarchy, experiments in theatre and stage,; Rediscovery of the Classical texts</p>
Unit 3	<p>Romanticism Definition, Scope and Relevance Key Terms: Imagination, Intuition, Idealism, Inspiration, Individuality, Romantic notions: <i>Emotions Recollected in Tranquillity, Willing Suspension of Disbelief, Egoistic Sublime, Negative Capability</i>. Subjectivity, Supernaturalism, Senses, Nature.</p> <p>Cultural Background: European War (1793) between France and England, French Revolution (1798), The Reform Bill (1832), (Slavery) Emancipation Act (1833), Factory Act (1833), Education Act (1833), Poor Law Amendment Act (1834), Municipal Corporations Act (1834), Impact of revolutions on society and man; Poverty, Countryside and Common Man. Shift from stiff classicism (regimentation, regulation, authority) to romanticism (individuality, informality, freedom).</p>
Unit 4	<p>Victorianism Definition, Scope and Relevance Key Terms: Industrialization, Condition of England Question, Domesticity, Fallen Woman, Angel in the House, Education and school system, Darwinism, Psychiatry, Canonical literatures, the novel, non-canonical/popular literature/children's literature, Science fiction, adventure narratives, crime and detection. Cultural Background: Empire, colonization, racism, evolutionary theories, science and technology, Printing Press, patriarchy, women's emancipation, popular, working class cultures, rise of bourgeois.</p>
Unit 5.	<p>Modernism and Post Modernism</p> <p>Modernism Definition, Scope and Relevance Key Terms: Dialect, Flashback, Flaneur, Foreshadowing, Alienation, Disillusionment</p>

Naveeni Shetty

22/9/15
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Cultural Background: Urbanization, Technisization, End of Empire, Decolonization, Atomization, Wars, Mythologizing and archetypes; return to religion and structures, Nationalism.

Postmodernism

Definition, Scope and Relevance

Key Terms: Aporia, Aura, Cyberspace, Cyborg, Hypertext, Technicization, Differend, Dystopia (dystopic), Ethnicity, *future antérieur*, Fashion, Historiographic Metafiction, Incommensurability, Indeterminacy, Intertextuality, Irony, Late Capitalism, Nostalgia, Pastiche, Parody, *petits récits*, phrase regimens, Rhizome, Schizophrenia, Secondary Orality, Self-Reflexivity, Simulacrum, (simulacra), Spatiality, Sublime, Virtual Reality, Post-Structuralist, , Historical vs. Neo-Avant-Garde, , Spectacle, Textuality/ closure/ Non-closure, Derive, Kitsch, Simulacrum, Discursive, Curatorial, Transformation, Fetishism, Sublimation, Modernism and Autonomy, Entropy, Obsolescence, Artisanal.

Cultural Background: Neo-colonialism, Globalization, Multiculturalism, Cosmopolitanism, Multilingualism, Terrorism, Religious Fundamentalism, Lacan and post-Freudianism, Posthumanities, Nativism, Cultural Identity.

N. Mehra Shukla

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AM. 24/7/15
(Dr. M. A. Afzal Farooq)

AM 24/7/15

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Mehra

No: 4-3/Eng/CUJ/Reg/2013/ 636

Date: 17-09-2015

CORRIGENDUM

Reference Notification: 4-3/ENG/CUJ/Reg/2013/Acad/575-579

Dated: 10.09.2015

The Course Code in respect of Course title "Fiction (18th - 20th Century)" in the Course Scheme of 1st semester, Department of English as communicated vide Notification No: 4-3/ENG/CUJ/Reg/2013/Acad/575-579 under reference above may be read as PGECL1E004T in place of "PGECL1C004T".

The rest of the contents of the Notification remain unchanged.

Notified copy

[Signature]
Registrar

Copy to:-

1. Dean, School of Languages
2. Head, Department of English & Comparative Literature
3. DR (Examinations)
4. Staff Officer to VC
5. PA to Registrar



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DEPARTMENT OF HUMAN RESOURCE MANAGEMENT & OB
CENTRAL UNIVERSITY OF JAMMU ANNEXURE - X

No: CUJ/HRM&OB/2015/563-
Dated: 29-05-2015

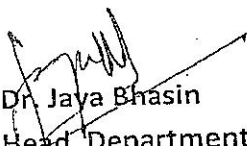
The Registrar
Central University of Jammu
Jammu.

Sir,

This is in reference to the Board of Studies meeting held on 28-05-2015 (minutes attached). With reference to this kindly approve the course structure and syllabus in anticipation for the next Academic Session 2015-16.

Thanking You

Yours Sincerely,


Dr. Jaya Bhasin
Head, Department of HRM & OB

forward for n-a-bp

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29/5/15

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Dr. Mrs. Nikas
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CENTRAL UNIVERSITY OF JAMMU

No: CUJ/HRM & OB/2015/528
Dated: 27-05-2015

MINUTES OF MEETING

Board of Studies Meeting was convened on 28-05-2015 in Committee Room, TAB, Central University of Jammu at 11a.m.

Members Present:

- 1) Prof. Deepak Raj Gupta, Dean School of Business Studies, Central University of Jammu
- 2) Prof M I Haque, Dean Business Studies Aligarh Muslim University *M I Haque*
- 3) Mr. Subash Jagota, CEO Global Solutions, (Industrial Representative) *Subash Jagota*
- 4) Dr. Jaya Bhasin, Head, Department of HRM & OB *Jaya Bhasin*
- 5) Dr. Neelika Arora, Assistant Professor, Department of HRM & OB *Neelika Arora*
- 6) Prof. Dinesh Sharma IIT, Mumbai (Special Invitee) *Dinesh Sharma*
- 7) Prof. Manoj Kumar IIM, Lucknow (Ex) currently with FLAME University, Pune. *Manoj Kumar*
- 8) Dr. Mohammed Naveed Khan, Faculty of Management Studies & Research, Aligarh Muslim University. *Mohammed Naveed Khan*
- 9) Ms. Anjali Pathania, Assistant Professor, Department of HRM & OB *Anjali Pathania*
- 10) Mr. Gowhar Rasool, Assistant Professor, Department of HRM & OB *Gowhar Rasool*
- 11) Mr. Asif Ali, Assistant Professor, Department of HRM & OB *Asif Ali*
- 12) Dr. Shahid Mushtaq, Assistant Professor, Department of HRM & OB *Shahid Mushtaq*

1. Approved the Course Structure and Syllabus of MBA (HRM) with reference to Choice Based Credit System. CIS Compulsory in Fourth Semester and Elective in the Third Semester. Also HOD is authorized for bifurcation of Compulsory and Elective Foundation Course. The final syllabus will be mailed to members BOS for final approval.
2. Finalized the list of External Examiners for final semester M.Phil Scholars.
3. Approved the minutes of DRC with reference to finalizing of titles and supervisors of M.Phil I semester research scholars
4. Proposed Centre for Spiritual Intelligence and Organizational Leadership in collaboration with ISOL, New Delhi (Prof. Sunita Singh Sengupta, FMS, Delhi University) for certification, Diploma, Courses and SDP's approved.
5. Video Conferencing among CUJ and CUHP of one course that each of the faculty/department is best was suggested by Prof. Yogendra Verma. The guest Lecture can also be shared through Video conferencing, he suggested.
6. Mentorship Programme for all semesters MBA (HRM) was approved.
7. Friday Club Activities to be included in Curriculum was approved.
8. Panel of Paper Setters for 1st & 3rd Semesters Examination approved.
9. Approved the existing Course Structure of Integrated M.Phil PhD Programme for the current Academic Session. Further it was suggested that a paper on Teaching Methods /Management Pedagogy be introduced from next Academic Session.
10. The chair is authorised to make necessary changes if required and report in the next BOS meeting.



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DEPARTMENT OF HUMAN RESOURCE MANAGEMENT & OB
CENTRAL UNIVERSITY OF JAMMU

No: CUJ/HRM & OB/ 2015/505-
Dated: 19-05-2015

MINUTES OF MEETING

Meeting for finalizing the topics of Research for M Phil Batch 2014-15 was convened on 18/05/2015 in Committee Room, TAB , Central University of Jammu at 5p.m.

Members Present:

- 1) Prof. Ashok Aima, Hon'ble Vice Chancellor (In the chair)
- 2) Dr. Jaya Bhasin
- 3) Dr. Neelika Arora
- 4) Ms. Anjali Pathania
- 5) Mr. Gowhar Rasool
- 6) Mr. Asif Ali
- 7) Dr. Shahid Mushtaq

Ashok Aima

Neelika 21/5
Anjali Pathania 19/5/15
Gowhar Rasool
Asif Ali
Shahid Mushtaq 19/05/15

Following titles were finalised:

S.No.	Supervisor	Research Scholar	Title
1.	Prof. Ashok Aima	Minakshi Rana	Organisational interventions and Talent Retention : A Study of Select Telecom Companies
2.	Prof. Ashok Aima	Surekha Phakwrya	Cross Cultural Interventions: A Study of work commitment among Combined Defence Services Personnel
3.	Dr. Jaya Bhasin	Manvi Gupta	Spiritual Intelligence among college students- A case study of select institutions
4.	Dr. Neelika Arora	Neeraj Dhiman	Impact of Psychological capital on turnover intentions-A study among Health professionals
5.	Dr. Jaya Bhasin & Dr. Shahid Mushtaq	Bharti Sujan	Potential Appraisal and Succession Planning- An empirical study of select banks in Haryana

It was further decided that the final synopsis presentation will be scheduled on 28th May, 2015. The meeting ended with formal vote of thanks.

Neelika
Asif
Shahid
Manvi
Asif
Asif
Asif

CENTRAL UNIVERSITY OF JAMMU

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

No: 4-6/HRM/CUJ/Reg/2013/Acad/570

Date: 9.09.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies-HRM, the Vice Chancellor, in anticipation to the approval of the Academic Council, has approved the Course Matrix/Scheme (1st, 2nd, 3rd and 4th semester) and Syllabus for the First semester students for the Academic Session 2015-17. The approved Course Matrix/Scheme is as follows:

SEMESTER-I

Course Code	Course Title	Credit	Max. Marks
CORE COURSES			
PGHRM1C001T	Organisation Behaviour	4	100
PGHRM1C002T	Human Resource Management	4	100
PGHRM1C003T	Quantitative Techniques	4	100
PGHRM1C004T	Managerial Economics	4	100
PGHRM1C005T	Management Accounting	4	100
PGHRM1C006V	Viva Voce	2	50
FOUNDATION COURSE			
PGHRM1F007T	Foundation I (Communication for Professional Excellence-I)	2	50

SEMESTER-II

Course Code	Course Title	Credit	Max. Marks
CORE COURSES			
PGHRM2C001T	Marketing Management	4	100
PGHRM2C002T	Financial Management	4	100
PGHRM2C003T	Research Methodology	4	100
PGHRM2C004T	Operations Management	4	100
PGHRM2C005T	Business Law	2	50
PGHRM2C006T	Informational Technology Management	2	50
PGHRM2C007V	Viva Voce	2	50
FOUNDATION COURSE			
PGHRM2F008T	Foundation II (Communication for Professional Excellence II)	2	50

SEMESTER-III

Course Code	Course Title	Credit	Max. Marks
CORE COURSES			
PGHRM3C001T	Strategic Management	4	100
PGHRM3C002Tr	Summer Training	2	50
PGHRM3C003T	Organisational Development	2	50

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

ELECTIVE (ANY FOUR)			
PGHRM3E005T	Retail Management	2	50
PGHRM3E006T	Consumer Behaviour	2	50
PGHRM3E007T	Compensation & Reward Management	2	50
PGHRM3E008T	Power Ethics & Politics	2	50
PGHRM3E009T	Competency Mapping	2	50
PGHRM3E010T	Translational Analysis	2	50
PGHRM3E011T	Psychometric Testing	2	50
PGHRM3E012T	Advance Man Power Planning	2	50
INTERDISCIPLINARY (Any 01) OFFERED			
PGHRM3I013T	Social Enterprise Management	4	100
PGHRM3I014P	Project on Business Plan	4	100

SEMESTER-IV

Course Code	Course Title	Credit	Max. Marks
CORE COURSES			
PGHRM4C001T	Team Building & Leadership	2	50
PGHRM4C002T	Cross Culture Management	2	50
PGHRM4C003T ✓	Viva Voce	2	50
ELECTIVE (ANY FOUR)			
PGHRM4E004T	e-Marketing	2	50
PGHRM4E005T	Advertising Management	2	50
PGHRM4E006T	Learning Organisation	2	50
PGHRM4E007T	Strategic Human Resource Management	2	50
PGHRM4E008T	Personal Growth & Self Management	2	50
PGHRM4E009T	Measurement in HR	2	50
PGHRM4E010T	Legal Framework in HR	2	50
PGHRM4E011T ✓	Training & Development	2	50
INTERDISCIPLINARY (Any 01) OFFERED			
PGHRM4I012T	Soft Skills and Personality Development	4	100
PGHRM4I013T	Project on Digital Marketing	4	100

In addition to above, the Vice Chancellor, in anticipation to the approval of the Academic Council, has also approved the Course Structure of Integrated M.Phil-Ph.D for the current Academic session with addition of a paper on Teaching Methods/Management Pedagogy from the next Academic session as suggested by BoS.

Registrar


Encl: Approved syllabus for 1st semester

Copy to:-

1. Dean, School of Business Studies
2. Head, Deptt. of HRM&OB
3. DR (Examinations)
4. Staff Officer to VC
5. PA to Registrar

Syllabus MBA -Human Resources Management
For the academic year 2015-17

1st -Semester

Course No. PGHRM1C001T
Course Title: Organisational Behaviour
Maximum Marks: 100

Contact Hrs/Week: 4 Hrs
Credit: 04
Duration of Examination: 3 Hrs

Objective:

- Providing the students a conceptual framework for understanding, analyzing and predicting behavior
- Helping them to understand OB in Indian context
- Familiarizing about the challenges and opportunity for OB
- Helping the students to gain an understanding of dynamics of complex work situations.

Unit I: Foundations of Organizational Behavior

The nature and functions of an organization; meaning and systematic study of O.B; contribution of behavioral sciences to O.B.; developing contingency model of O.B; OB in a global perspective; Challenges and opportunities in OB.

Unit II: Individual Dimensions in Organizational Behavior

Nature of human behavior; Personality; meaning; theories and determinants; Values, attitudes and job satisfaction; Perception process.

Unit III: Foundations of Learning and Motivation

learning process; Theories of learning; content theories of motivation(brief discussion) ; Process theories of motivation; Reinforcement and motivation; An integrative model of motivation; Motivational techniques for Indian managers.

Unit IV: Group and Interpersonal Dimensions

Formation, classification, stages and group dynamics; Group decision making; teams and team work; transactional analysis; conflict management.

Unit V: Organizational Dimensions

Leadership, Organizational culture; Work stress; Organizational change; Organizational development.

Suggested Readings

1. Robins, S.P. and Sanghi, S.: Organizational Behavior, ed. xi, Pearson-Education, New Delhi.
2. Sakaran, U., Organizational Behavior, TMH, N. Delhi.
3. Newstrom J W and K Davis: Organizational Behavior: Human Behavior at Work, ed. v, New Delhi: Tata McGraw.
4. F. Luthans: Organizational Behavior, ed. vii, PHI, New Delhi.
5. L.M. Prasad: Organization Theory and Behavior, HPH, New Delhi.
6. Mullins L. J.: Managemesnt and Organizational Behavior, Pearson- Education, N. Delhi.

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Syllabus MBA -Human Resources Management
For the academic year 2015-17

1st -Semester

Course No. P.G.HRM1C002T
Course Title: Human Resource Management
Maximum Marks: 100

Contact Hrs/Week: 4 Hrs
Credit: 04
Duration of Examination: 3 Hrs

Objective

- To familiarize the students with concepts and functions of Human Resource Management.
- To help the students in identifying problems related to People Management.
- To acquaint the students with different strategies applied in management of human resources & develop an understanding of contemporary issues in the HRM

Unit I Introduction to Human Resource Management

Human Resource Management: Concept, Nature, Functions and Significance of People Management in an organization; Evolution of HRM, Indian Scenario and HRM, Challenges faced by HRM

Unit II Manpower Management

Human Resource Planning: Steps, Factors; Job Analysis: Job Description & Job Specification; Recruitment: Steps, Sources & Methods of Recruitment, Selection: Stages in Selection Process, Selection Tests, Reliability & Validity in Selection, Induction: Objectives, Procedure and Techniques, Succession Planning

Unit III Training and Development

Training: Purpose & Principles, Training Need Analysis, Methods of Training, Executive Development: Need, Techniques of Management Development, Promotions: Types; Transfers: Purpose, Procedure, Separation: Resignation, Dismissal, Suspension, Retrenchment, Lay-off

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14/08/15







UNIT IV Compensation, Benefits and Performance Management

Job Evaluation: Objectives, Methods: Quantitative & Non Quantitative, Compensation: Objectives, Factors, Components, Benefits, Performance Appraisal: Process, Methods- Traditional & Modern, Problems

Unit V Industrial Relations & Employee Welfare

Industrial Relation: Objectives, Nature, Scope, Preventive & Settlement Machinery, Trade Unions: Objectives, Functions, Classification, Problems, Grievance: Forms, Causes, Collective Bargaining: Process, Quality of Work Life, Employee Engagement: Levels, Building Blocks

Note:

- ❖ Teaching Pedagogy besides classroom teaching will essentially include simulation, case studies, role plays and games.
- ❖ Teaching-learning Process will involve 20% input from those who have demonstrated excellence in the area i.e. Practitioner's view will be incorporated.

Reference Books and Suggested reading

- ❖ Armstrong, M. Armstrong's Handbook of Human Resource Management Practice, Kogan Page
- ❖ Dessler, G. , Human Resource Management, Pearson Education ,13th Edition
- ❖ DeCenzo, D. A., & Robbins, S. P. (2010). Fundamentals of Human Resource Management, John Wiley & Sons.
- ❖ E. Schuster Human Resource Management, Concept ,Cases and Readings, PHI
- ❖ Fisher, Schoenfeldt and Shaw, Managing Human Resource, Cengage Learning
- ❖ Lata & Nair Personnel Management & Industrial Relations ,S. Chand
- ❖ Mamoria, C. B., Rao, V. S. P., Personnel Management, Himalya Publishing House, New Delhi
- ❖ Monoppa & Saiyadain, Personnel Management, Tata McGraw Hill, New Delhi.
- ❖ Pattanayak, B., Human Resource Management. PHI (EEE)
- ❖ Sengupta, D., Human Resource Management. Biztantra

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Syllabus MBA -Human Resources Management
For the academic year 2015-17

Course No. PG HRM1C003T
Course Name: Quantitative Techniques
Maximum Marks: 100

Contact Hrs/Week: 4Hrs
Credit: 04
Duration of Examination: 3 Hrs

Objective

The objective of this course is to equip the participants with the relevant tools and techniques for applications in solving Managerial Problems. The Focus of this course will be on application of quantitative methods in business situations

Unit-I

Management Science: Concept and Importance, Introduction to Descriptive Statistics, Probability Simple decision problems under certainty risk and uncertainty, Criteria for decision under uncertainty, Criteria for decision making under Risk, Decision trees

Unit-II

Linear programming; Formulation of problems; Graphical method, Simplex Duality in linear programming; Sensitivity Analysis, Fundamentals of Calculus, Working with excel.

Unit-III

Transportation model; North West Corner Method, Least Cost Method, Vogel's Approximation Method, Stepping Stone method, MODI Method, Application of Transportation Model, Transshipment Problems, Assignment Model: Hungarian Method

Unit-IV

Introduction to Project Evaluation and Review Technique and Critical Path Method, Network Construction, Analysis of Critical Path, Time-Cost trade off: Crashing, Analysis Planning and scheduling Project costs, Controlling project costs

Unit-V

Introduction to Game theory, Two person Zero sum Game, Minimax Maximin Strategies, Saddle point and Mixed Strategies, Simulation for business: Monte Carlo Method, Application of Simulation in Business Situations.

Reference Books and Suggested Readings:

- > Quantitative Techniques in Management, Vohra, N.D, McGraw Hill, Publishing House 3rd Edition
- > Operation Research (Quantitative Techniques in Management), Kapoor, V.K. Sultan Chand Publications 8th Edition
- > Operations Research An Introduction, Taha Hamdy Pearson Publications 8th Edition
- > Introduction to Operations Research, Hiller Frederick & Gerald Lieberman Tata McGraw Hill Publications 8th edition
- > The Management Scientist Anderson , David R Dennis J. Sweeney & Thomas A Williams Cengage publishers 2nd Edition

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Syllabus MBA -Human Resources Management
For the academic year 2015-17

1st -Semester

Course No. : PGHRMC004T
Course Title: Managerial Economics
Maximum Marks: 100

Contact Hours /Week: 4 Hrs
Credit: 04
Duration of Examination: 3 Hrs

Objective

The objective of this course is to acquaint the participants with concepts and techniques used in Micro-Economic Theory and to enable them to apply this knowledge in business decision making. Emphasis is given to changes in the nature to business firms in the context of globalization.

UNIT 1

Managerial Economics: Meaning nature and scope of managerial economics Role of Micro and Macro-Economic Analysis in formulation of Business Policies .Demand Analysis; Demand and Law of Demand, Determinants of demand on demand functions, Change in demand elasticity of demand degrees measurement of price elasticity of demand –total expenditure method proportionate method point elasticity method and Law of Supply.

UNIT2

Utility and Indifference curve approaches meaning, Law of Diminishing marginal rate of substitution properties of indifference curve, Markets: meaning characteristics, types of markets perfect and imperfect .

UNIT 3

Price line consumer's equilibrium conditions of consumer's equilibrium income substitution and price effect . Production function, Short run and long run, cost and output analysis; General Theory of price determination, role of time elements in price determination.

UNIT 4

National Income, GDP & Other Measures of National Income. Price Indices- CPI/PPI.Aggregate Demand and Supply. Inflation: Concept, Theories and Application. Role of major financial institutions & markets in India

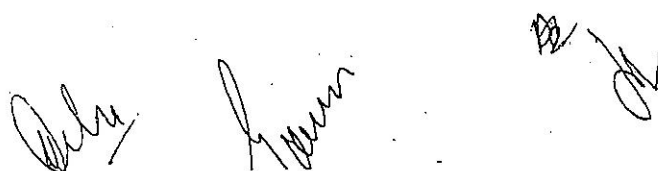
UNIT 5

Fiscal and Monetary Policies -Conceptual, Business Fluctuations and Trade Cycles Theories and Its Relevance In Business Decisions. Role of IMF, World Bank in the economic restricting of countries

- Teaching Pedagogy besides classroom teaching will essentially include simulation, case studies, role plays and games.
- Teaching-learning Process will involve 20% input from those who have demonstrated excellence in the area i.e. Practioner's view will be incorporated.

Reference Books and Suggested reading

- Buamol William J & Alan.S.Blinder, Microeconomics Principles & Policy, Thomson South Western ,2007
- Mankiw.N.Gregory, Principles Of Microeconomics ,Cengage Learning ,South Western 2006



- Pindyck Robert.S, Rubinfeld & Mehta, Microeconomics, Pearson 2006
- Mankiw.N.Gregory, Economics Principles and Applications, Cengage Learning 2007
- Samuelson .Pual A. & William B.Nordhaus, Economics, Tata Mac Graw Hill, 2005
- Boyes William And Micheal Melvin, Text Book Of Economics, Biztantra, 2005
- Samuelson William F. & Stephan, G.Marks, Managerial Economics, Wiley 2008

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Syllabus MBA -Human Resources Management
For the academic year 2015-17

1st -Semester

Course No. **PGHRM1C005T**
Course Title: Management Accounting
Maximum Marks: 100
Hrs

Contact Hrs/Week: 4 Hrs
Credit: 04
Duration of Examination: 3

Objective

The basic objective of this course is to enable the management students to impart knowledge of accounting concepts and techniques and also to develop skills in utilizing the accounting and financial information in the process of managerial decision-making.

Unit-I

Introduction

Financial Accounting-Concept, importance and scope. Accounting as an information system. Accounting concepts, conventions and Generally Accepted Accounting Principles (GAAP). Golden Rules for Accounting, Preparation of Journal, Ledger Entries and Trial Balance. Trail Balance Adjustments

Unit-II

Final Accounts

Concepts and methods of Depreciation including Straight line method, Diminishing balance method, Units of activity and Sum of digits Method
Preparation of Final Accounts—Manufacturing Account, Trading & Profit and Loss Account and Balance sheet. Adjustments in final accounts.

Unit-III

Management Accounting and Financial Analysis : Management Accounting- Concept, need, importance and scope. Horizontal and vertical analysis of Financial Statements Financial Analysis – Ratio Analysis : Liquidity Ratio Analysis , Profitability Ratio Analysis, Activity Ratio Analysis & Solvency Ratio Analysis; Preparation of Funds Flow statement and Cash Flow statement. Difference between Fund Flow and Cash Flow.

Unit-IV

Cost Accounting – Concept, need, importance and scope. Preparation of Cost Sheet with element wise classification of various costs.
Budgeting : Objective , Advantages , Disadvantages, Budgetary Control, Types : Cash Budget, Production Budget , Sales Budget and Zero Based Budgeting.

Unit-V

Marginal and Standard Costing
Marginal and absorption costing – their difference. Concept & utility of CVP analysis in business decision making.
Standard costing and Variance Analysis – Material Variance and Labour Variance. Material & Labour mix Variances.

Note:

Teaching Pedagogy besides classroom teaching will essentially include simulation, case

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studies, role plays and games.

Teaching-learning Process will involve 20% input from those who have demonstrated excellence in the area i.e. Practitioner's view will be incorporated.

Reference Books and Suggested Readings

- A Textbook of Accounting for Management, Maheshwari S.N, Maheshwari S.K., Sharad K. Maheswari, Vikas Publication , New Delhi
- Management Accounting: Text Problems & Cases, M Y Khan, P K Jain, McGraw Hill Education (India) Private Limited.
- J.S. Accounting Principles, Anthony R.N. and Reece, 6th ed., Homewood, Illinois, Richard D. Irwin, 1995.
- Accounting for Management Text and Cases, Bhattacharya, S.K. and Dearden J., New Delhi, Vikas Publication House, 1996.
- Financial Accounting, Heitger, L.E. and Matulich, Serge, New-York, Mc-Graw Hill, 1990.
- Management Accounting, Hingorani, N.L. and Ramanathan, A.R., 5th ed., New Delhi, Sultan Chand, 1992.
- Principles of Financial and Management Accounting, Financial and Managerial Accounting, Horngren, Charles, etc., Englewood Cliffs, New Jersey, Prentice Hall Inc., 1994.
- Financial and Management Accounting. Needles, Belverd, etc., Boston, Houghton Mifflin Company, 1994.

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Syllabus MBA -Human Resources Management
For the academic year 2015-17

1st -Semester

Course code: PG.HRM1F007T

Contact Hours/Week: 2Hrs

Course Title: Communication for Professional Excellence - I Credit: 02

Maximum Marks: 50

Duration of Examination: 3 Hrs

Objectives

- Understand nuances of interpersonal and organizational communication
- Gain clarity about themselves and their career goals so that they may excel in forms of communication used in employment screening.
- Learn key elements of verbal and non verbal communication important for them in their professional life
- Appraise various forms of organizational communication they are likely to encounter in their work life
- Develop speaking skills for various purposes in corporate situations.
- To understand and appropriately apply modes of expression, i.e., descriptive, expositive, narrative, scientific, and self-expressive, in oral communication.
- To participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding.

UNIT-I Elements of Communication

Organizational Communication: Communication Process, Functions of Communication, Direction of Communication, Barriers of Effective Communication, Cross Cultural Issues in Communication

UNIT-II Oral Communication

Effective listening- Meaning, relevance and scope, listening skills, Barriers to effective listening, Nonverbal communication – Role of body language, Kinesic, Proxemic, Haptic and paralinguistic communication, Designing and delivering winning presentations, crisis communication

UNIT-III Interpersonal Communication

Negotiating Business agreements, Communicating effectively in teams, Johari Window, Principles of Neuro linguistic programming, Etiquette advantage in communication.

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Case studies related to entire topics are to be taught

Note:

- ❖ Teaching Pedagogy besides classroom teaching will essentially include simulation, case studies, role plays and games.
- ❖ Teaching- Learning Process will involve 20% input from those who demonstrated excellence in the area i.e. Practioner's view will be incorporated.

Reference Books and Suggested Readings:

- Krizan, Merrier, Logan, Williams, Effective Business Communication, Cengage Learning
- Carol, M. Lehmann, Debbie D. Dufrene, Business Communication, Cengage Learning
- Bovee Courtland L. and Thrill, John V. Business Communication Today, Tata McGraw Hill, New York, Taxman Publications
- Lesikar, Raymond V and Peitit, John D. (1994), Business Communication: Theory and Application, Richard D. Irwin Inc. Ilinios
- Bell, Smith, Management Communication, Wiley Publications
- Hurlock, Elizabeth, B., Personality Development, Tata McGraw Hill
- Pareek, Uday Understanding Organisational Behaviour, Oxford Publication
- Romila Reddy, NLP for Dummies
- Joseph O' Conner- NLP Workbook: A Practical Guide to achieving Results you want
- P.E. Merlevede- 7 Steps to Emotional Intelligence

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No: 4-6/TTM/CUJ/Reg/2013/Acad/ 463-469

Date: 26-08-15

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Head of the Department of TTM, the Vice Chancellor, in anticipation of approval of the Academic Council, has approved the course code- MTTM-675, entitled "ICT and Tourism" for MCA-6th Semester students for the academic session 2014-2015.


Registrar


Copy to:-

1. Dean. _____
2. Head _____
3. Academic Co-ordinator
4. DR (Examinations)
5. PS to VC
6. PA to Registrar
7. Guard file
8. Office file



CENTRAL UNIVERSITY OF JAMMU

DEPARTMENT OF TOURISM AND TRAVEL MANAGEMENT

ANNEXURE - XII

Minutes of the meeting of Board of Studies held on 20.05.2015 in Temporary Academic Block, Central University of Jammu.

Following members were present:

- | | |
|--|-----------------------------|
| 1. Prof. Deepak Raj Gupta
Head of Department of Tourism & Travel Management | Chairman |
| 2. Prof. Sandeep Kulshretha
Director I/C and Chairman (Academics),
Indian Institute of Tourism & Travel Management (IITTM) Gwalior | Member
(Expert) |
| 3. Prof. Mohinder Chand Dhiman
Department of Tourism & Hotel Management
Kurukshetra University, Kurukshetra | Member
(Subject Expert) |
| 4. Prof. P. S. Manhas
Director, School of Hospitality and Tourism Management
University of Jammu, Jammu. | Member
(Expert) |
| 5. Prof. H. S. Sehgal
HOD, Environmental Sciences | Member |
| 6. DR. Amit Gangotia
Assistant Professor | Member |
| 7. Dr. Bharati Gupta
Assistant Professor | Member
(Special Invitee) |
| 8. Mr. Ranjit Kumar Raman
Assistant Professor | Member
(Special Invitee) |

The members of the committee discussed different agenda items. Following are the recommendations with respect to different agenda items:-

1. After threadbare discussion the members recommended the scheme and syllabus of the 1st semester of MBA (TTM) as given in Annexure I for the session 2015 - 2016 and 2016 - 2017.
2. The members recommended the continuation of syllabi of 3rd and 4th semesters of MBA (TTM) programme as recommended for session 2014 - 2015 to the session 2015 - 2016.
3. The members recommended the panel of experts for the evaluation of M.Phil thesis as submitted by the supervisors as given in Annexure II - a, b, c.
4. The members recommended the allotment of supervisors for M.Phil students for the session 2015 - 2016 as given in Annexure III.

The meeting ended with vote of thanks to the chair.

1. 20.5.15.	2. _____
3. Prof. Mohinder Chand Dhiman	4.
5. 20.5.15	6.
7. 20.5.15	8.


No: 4-6/TTM/CUJ/Reg/2013/Acad/ 548-63

Date: 04-09-15

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Head of the Department of TTM, the Vice Chancellor, in anticipation to the approval of the Academic Council, has approved the Course Matrix/Scheme and Syllabus for the First semester students for the academic session 2015-16 & 2016-17. The approved Course Matrix/Scheme is as follows:

Course Code	Course Title	Credit	Total
	CORE COURSES		
PGTTM1C001T	Management Process and Organizational Behaviour	4	100
PGTTM1C002T	Tourism Concepts and Principles	4	100
PGTTM1C003T	Tourism Geography and Destination Knowledge	4	100
PGTTM1C004T	Statistics for Management	4	100
PGTTM1C005T	Travel Agency Management and Tour Operations	4	100
PGTTM1C006P	Seminar Course	2	50
PGTTM1C007V	Viva Voce	2	50
	FOUNDATION COURSE		
PGTTM1F008T	Communication for Professional Excellence	4	100
	Total	28	700


Registrar
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Encl: Approved syllabus

Copy to:-

1. Dean, School of Business Studies
2. All Heads of the Departments
3. DR (Examinations)
4. PS to VC
5. PA to Registrar
6. Guard file
7. Office file

COURSE CODE:	PGTTM1C001T
COURSE TITLE:	MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOUR
COURSE OBJECTIVES:	To give the basic understanding about the management functions and process so as to develop a managerial aptitude, To comprehend the different components of organizational behavior so as to develop the confidence of working with diverse organizations.
UNIT-1	INTRODUCTION TO MANAGEMENT: Management: Meaning, nature, scope and importance of management. Functions of management, management roles, levels of management and management skills, corporate social responsibility, ethics and values in management. Evolution of management thought.
UNIT-2	MANAGEMENT FUNCTIONS: PLANNING, ORGANISING, STAFFING, DIRECTING AND CONTROLLING Planning: Meaning, nature and importance, planning process, types of planning, measures of effective planning barriers of effective planning, Management by Objectives (MBO). Decision making: meaning, types and process. Organising: Meaning, organisation structure, forms of organisation structure, power, authority, accountability, centralisation and decentralisation. Staffing: Meaning, Manpower planning, job analysis, selection, training and development. Directing: Meaning, nature, scope and principle of direction, motivation, leadership and communication. Controlling: Meaning, Importance, process, types of control, essentials of effective control and control techniques.
UNIT-3	INTRODUCTION TO ORGANISATION BEHAVIOUR Concept and importance of organization behaviour; contributing disciplines; models of OB; Challenges and opportunities for OB; Diversity in organizations. Attitudes and Job Satisfaction, Motivation concepts and Application, Conflict and Negotiation, Stress Management.
UNIT-4	ATTITUDES, EMOTIONS, MOODS, PERSONALITY, VALUES AND PERCEPTIONS Main components of attitudes, major job attitudes, basic emotions and moods, OB application of emotions and moods. Personality and its models, personality trait relevance to OB. Importance of values, perception and factors influencing perception, link between perception and individual decision making.
UNIT-5	GROUP BEHAVIOUR & HRM : Defining and classifying groups, stages of group development, group decision making and group properties. Types of teams and creating effective team, Definition of organization culture, functions of organization culture, creating and sustaining organization culture, learning of organization culture, Forces for organization change, resistance to change, approaches to manage organizational change. The Evolving Role of HRM in the tourism industry, Human Resource Planning (HRP), Job/Role Analysis, Recruitment & Selection, Orientation & Placement, Conflict and Stress management, Importance of Discipline and Counseling in Tourism.
REFERENCES	<ul style="list-style-type: none"> o The Essentials of Management : Kuntz o Principles and practices of Management : L.M.Prasad o Fundamentals of OB : Slacum /Hellriegel o Organisational Behaviour : Stephen P. Robbins, Timothy A. Judge, Neharika Vohra o Emotionomics ;Leveraging Emotions for Business Success by Dan

COURSE CODE:	PCTTM1C0027
COURSE TITLE:	TOURISM CONCEPTS AND PRINCIPLES
COURSE OBJECTIVES:	This course shall introduce learner to tourism's growth and development. The course also highlights the role of tourism as an economic intervention and its significance in economy. Course discusses the global nature of tourism, tourism product and emerging trends in tourism industry. It is also important to appreciate the future of tourism.
UNIT-1	Tourism; an overview: Elements, Nature and Characteristics of Tourism; Typology of Tourism; Classification of Tourists; Approaches to the study of Tourism; Historical Development of Tourism; Major motivations and deterrents to travel; Present trends in Domestic and International tourism.
UNIT-2	Tourism Industry Structure and Components: Attractions, Accommodation, Activities, Transportation, F&B, Shopping, Entertainment, Infrastructure and Hospitality; Emerging areas of tourism: Rural, Eco, Medical, MICE, Heritage, Cultural, Ethnic, and Sustainable Tourism; Ideals of Responsible Tourism; Alternate Tourism: Case Studies on International Tourism.
UNIT-3	Tourist Transportation: Rent-a-car Scheme, Major Railway Systems of World, (Euro Rail and Antrak), General information about Indian Railways, Rail tours in India: Palace-on-Wheels, Royal Orient, Deccan Odyssey, Toy Trains etc, Indrail Pass: Tourism Planning- Planning Process, Levels of Tourism Planning, Importance of Planning.
UNIT-4	Positive and Negative Impacts of Tourism; Tourism Area Life Cycle (TALC); Doxey's Index; Demonstration Effect; Push and Pull Theory; Tourism System; Mathieson and Wall Model & Leiper's Model; Stanley Plog's Model of Destination Preferences; Demand and Supply in tourism; MNC's in Tourism Industry.
UNIT-5	Tourism Organizations: Role and Function of Tourism Organizations: WTO, ICAO, PATA, IATA, FHRAI, UFTAA, ASTA, ITDC & JKTDC; Travel industry fairs - ITB, WTM, SMTV, FITUR, PATA TRAVEL MART.
REFERENCES:	Basics of Tourism, Krishan K. Kamra & Mohinder Chand, Kanishka Publishers, 2004. Tourism Principles & Practices, Sampad K. Swain & Jitendra M. Mishra, Oxford University Press, 2013. Basics of Tourism Management, Suddendu Narayan Misra & Sapan K. Saudual, Excel Books, 2nd Edition (2009). Tourism Concepts & Practices, John R. Walker & Josielyn T. Walker, Pearson, 1st Edition (2011). The Business of Tourism Concepts & Strategies, A.K. Bhatia, Sterling Publisher.

COURSE CODE:	DGTTM1C003T
COURSE TITLE:	TOURISM GEOGRAPHY AND DESTINATION KNOWLEDGE
COURSE OBJECTIVES:	Geography is the basic edifice of tourism. The knowledge of geography shall give an extra edge to the students in designing the itineraries for the travellers, suggesting them various destinations to the clients for their travel etc.
UNIT-1	Importance of geography in Tourism, IATA Areas, Factors affecting global and regional tourist movements; demand and origin factors, destinations and resource factors. Contemporary trends in international tourist movements.
UNIT-2	Europe : -The main tourism resources (Man-made, Physical & Symbiotic), Factors which makes Europe a leading Continent in terms of Tourist Arrivals & Tourism Receipts)
UNIT-3	America : -The main tourism resources (Man-made, Physical & Symbiotic) of North America ,South America and Latin America
UNIT-4	Africa & Australia : -The main tourism resources (Man-made, Physical & Symbiotic), Factors which effects the growth and development of tourism in Africa
UNIT-5	Asia : -The main tourism resources (Man-made, Physical & Symbiotic), The factors effecting the growth and development in Asian Region, A case study of India
REFERENCES:	<p>Boniface, B.G. and Chris Cooper, <i>The Geography of travel and Tourism</i> Oxford: Butterworth Heinemann.</p> <p>Hall C.M. and Stephen, J. Page, <i>The Geography of tourism and recreation. Environment, place & space</i>, London: Routledge.</p> <p>Pearce Douglas, <i>Tourism Today: A Geographical Analysis</i>; New York: Longman.</p> <p>Singh R.L., <i>India- A Regional Geography</i>, Varanasi: National Geographical Society of India</p> <p>Seth P.N., <i>Successful Tourism Management</i>, Sterling Publisher: New Delhi</p> <p>Sarina Singh et. al., <i>India</i>, Lonely Planet Publications</p>

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Course Code	PGTMM1C004T
Course Title	STATISTICS FOR MANAGEMENT
Objective	To give the students the basic knowledge of statistical techniques and develop fundamental understanding of the application of the technique with special focus on tourism management.
UNIT - I	Statistics meaning, Significance. Data and its utility. Measures of central Tendency. Meaning – Mean, Partition values, Mode. Advantages and disadvantages of mean, median and mode. Calculation – Mean, Median, Quartile, Decile and percentile. Mode – Grouping methods. Discussion Objective type questions / test. Case study.
UNIT – II	Measures of Dispersion – Meaning, Significance, Range, Quartile Deviation, Standard Deviation, Absolute and Relative Measures of Dispersion. Advantages, Limitations – Skewness. Relating the concept in tourism. Discussion Objective type questions / test. Case study.
UNIT – III	Simple correlation – Meaning, Importance, Types, Karl Pearson's Method, Probable error, its utility. Significance of Correlation. Coefficient of determination, Spearman's Rank Correlation. Relating the concept in Tourism. Discussion Objective type questions / test. Case study.
UNIT – IV	Regression – Meaning, Significance, Regression equation, Developing Regression equations, Regression Coefficients, Properties of Regression Coefficients, Standard Error of Estimate. Forecasting and approximate prediction intervals, Difference between Correlation and Regression. Relating the concept in Tourism. Discussion Objective type questions / test. Case study.
UNIT – V	Time series - Meaning, Significance. Various components of time series, their significance. Least square method (odd number of elements), Least square (even number of elements) for calculating Trend, Method of moving averages. Calculating Seasonal Index – Method of simple averages and moving average method. Relating the concept in Tourism. Discussion Objective type questions / test. Case study.
References	<ul style="list-style-type: none"> • Gupta S.P – Statistical Methods – Sultan Chand & sons. • Reddy C.R – Quantitative Methods of Management – Himalaya Publishing House. • Gupta S.C – Fundamentals of Statistics. • Levin R.I & Cubia D.S – statistics for Management.

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Dr. S. K. Das

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COURSE CODE:	PGTTMCO05T
COURSE TITLE:	TRAVEL AGENCY MANAGEMENT AND TOUR OPERATIONS
COURSE OBJECTIVES:	Travel Agency Mgt. is the basis for understanding the modus operandi of a travel and tour company. It shall substantiate the students with the basic practical inputs about the various procedures involved in handling the operations of a travel agency. Further the objectives of the course are to acquire an in-depth knowledge about the Tour Operation Management and to become familiar with the Tour Operation Techniques and strategies required for successful handling of Tour Operation Business.
UNIT-1	Travel Agency: Concept, History and growth of Travel Agency business; Emergence of Travel Intermediaries in India; Types of travel agency; Linkages of travel agency business; Modern concept of travel agency business; Case Study of American Express
UNIT-2	Tour Operation: Concept, History and Growth of Tour Operation business; Differentiation between Travel Agency and Tour operation Business; Types of Tour Operators; Forms of Organization, Departments and its functions; Reservation and Cancellation procedures for Tour related services-Hotels, Airlines, Cruise liners, Car rentals and Rail travel. Commission Structures from Suppliers of Service; Case Study of SITA.
UNIT-3	Setting up travel agency/tour operation business: Market research, sources of funding-TFCI, Comparative study of various types of organization- proprietorship, partnership, private limited and public limited, Government rules for getting approval, IATA rules, regulation for accreditation, Documentation, RBI Regulations for Tour Operators; MEA regulations for tour operators; Sources of earning: commissions, service charges etc
UNIT-4	Travel Agency/Tour Operation business and Information and Communication Technology: Concept of e-travel agencies and e-tour operators. Itinerary preparation, important considerations for preparing itinerary, costing, packaging and promotion. Case study of expedia.com, makemytrip.com.
UNIT-5	Travel Trade Organizations: International Air Travel Association, American Society of Travel Agents, Universal Federation of Travel Agents Association, Pacific Asia Travel Association, Travel Agents Association of India, Indian Association of Tour Operators, India Convention Bureau.
REFERENCES:	Mohinder Chand, <i>Travel Agency Management</i> , Anmol: Delhi Chunk, James, Dexter & Boberg, <i>Professional Travel Agency Management</i> . Prentice Hall Publication Fay Betsy, <i>Essentials of Tour Management</i> , New Jersey: Prentice Hall Publication. Negi J.M., <i>Travel Agency and Tour Operation: Concepts and Principles</i> , New Delhi: Kanishka Publishers & Distributors. Stevens Laurence, (1990), <i>Guide to Starting and Operating Successful Travel agency</i> ; Delmar Publishers, Inc. New York.

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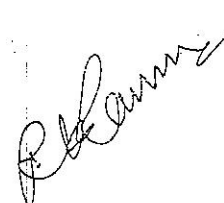

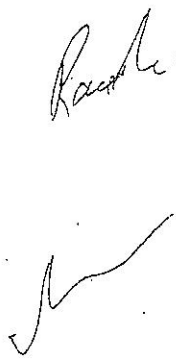
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COURSE CODE:	PGTTM1C006P
COURSE TITLE:	SEMINAR COURSE
COURSE OBJECTIVES:	<ul style="list-style-type: none"> ➤ Students will be provided internal mentors (from within the faculty) and external mentors (from corporate - local). ➤ Corporate mentors will give them assignments and guide them from professional angle and internal mentors will help them to have conceptual clarity to develop the assignment. ➤ Every fortnight internal and external mentors will meet to review the progress and guide the students and take inputs from the external mentors. It will continue throughout the semester. ➤ At the end of the semester students will make presentations on the said assignment and will be evaluated by the external examiners. <p>The basic idea of the course is to develop professional attitude of the students in Tourism Management.</p>

COURSE CODE:	PGTTM1C007V
COURSE TITLE:	VIVA -VOCE
COURSE OBJECTIVES:	Students will be EVALUATED by the EXTERNAL EXAMINER on the basis of their learnings in the semester



 K. S. Manoj
 P. S. Manoj

COURSE CODE:	PgTMM1P008T
COURSE TITLE:	COMMUNICATION FOR PROFESSIONAL EXCELLENCE
COURSE OBJECTIVES:	The primary objective of business communication is to introduce the student to various forms of written and oral communication that are necessary in real-life business situations, perfecting verbal and non-verbal communication skills.
UNIT-1	Communication Fundamentals: Importance of Communication, Business Communication in today's world, The Communication Process & Communication Channels, Barriers to Communication, Verbal & non-verbal communication.
UNIT-2	Oral and Written Communication: Elements of Good Oral Communication, Speaking and Listening Skills, Professional use of the telephone, Effective presentation skills.
UNIT-3	Professional Speaking – Speaking skills – reiteration of concepts- Group Discussion with evaluation- Debate Presentation with evaluation- Jam/ Extempore- Mock Interview and Meetings with evaluation-. Dealing with difficult people – role play based on behavioral patterns- Case Studies and SWOT analysis- Hot Seat with evaluation
UNIT-4	Customer care: Importance of Customer Care in Service Industry, Effective customer care, Managing customer complaints & negotiating with the customer, Handling Interpersonal Conflict, Counseling skills.
UNIT-5	Personality Development: Basic traits of personality - dress, gestures and manners, Self evaluation and development- identification of strengths and weaknesses, Overcoming hesitation and fear of facing the public, Corrective and developmental exercises - confidence building, team building exercises, role plays.
REFERENCES:	Murphy, H.A. and Peck, C.E.(2006) Effective Business Communications , New Delhi: Tata McGraw Hill. Sharma R.C. and Mohan K. (2005) Business Report Writing and correspondence, New Delhi: Tata McGraw Hill. Peanre, C.G. (2007) Principles of Business Communications. Communication in Tourism and Hospitality - Lynn Vander Wagen, Hospitality Press Pty, Ltd. Organizational Communication - Patricia Hayes Andrews and Richard T. Herschel, A.I.T.B.S. Publishers and Distributors (Rgd). Interpersonal Skills for Travel and Tourism - Jon & Lisa Burton - Longman Group Ltd.

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Central University of Jammu

DEPARTMENT OF PUBLIC POLICY AND PUBLIC ADMINISTRATION ANNEXURE - XIII

101

Minutes of the Meeting Board of Studies

The meeting of BOS of the Department was held on 1st October 2015 at 10:30 am. The following members were present in the meeting.

1. Prof. R. L. Bhat
2. Prof. Ajmer Singh Malik
3. Dr. Rouchi Chaudhary
4. Mr. G. Durga Rao
5. Dr. Govind Kumar Inakhiya
6. Mr. Mohit Sharma

- Chairman *RL*
 Member *A Malik*
 Member *Chaudhary*
 Invitee *G. Durga Rao*
 Invitee *Govind*
 Invitee *Mohit*

Following are the decisions taken after threadbare discussion:

- Item No. 1 Revised Course Matrix for PPPA 1st, 2nd, 3rd & 4th semesters as per CBCS was considered and recommended as per Annexure I.
- Item No. 2 Revised Syllabus for 1st semester for PPPA as per CBCS was considered and recommended as per Annexure II.
- Item No. 3 Research Supervisors for Ph.D Scholars of 2013-14 were considered and recommended as per Annexure III.

1. Prof. R. L. Bhat
2. Prof. Ajmer Singh Malik
3. Dr. Rouchi Chaudhary
4. Mr. G. Durga Rao
5. Dr. Govind Kumar Inakhiya
6. Mr. Mohit Sharma

- Department of Public Policy and Public Administration
 Central University of Jammu, Jammu.
- Chairman *RL*
 Member *A Malik*
 Member *Chaudhary*
 Invitee *G. Durga Rao*
 Invitee *Govind*
 Invitee *Mohit*
- 11/10/2015

(University Orders Ref -No. CUJ/Regr/Brs/2014/7207-7217 Dated 18th March 2014- As per the ordinances governing academic matters (Ordinance No.13-Page 81, Ordinances Governing Academic and Administrative Matters, Central University of Jammu)

The second meeting of BOS of the Department of Public Policy and Public Administration was held on 9th May 2015 at 9.00am at TAB, CUJammu. The following members were present in the meeting.

	Signature
1. Prof. Y. Pardhasaradhi	Chairman <i>[Signature]</i>
2. Dr. Rouchi Chaudhary	Member <i>[Signature]</i>
3. Prof. D. Ravindra Prasad	Member <i>[Signature]</i>
4. Prof. A.Venkatraman	Member <i>[Signature]</i>
5. Prof. Ajmer Singh Malik	Member <i>[Signature]</i>
6. Mr.G.Durga Rao	Invitee <i>G. Durga Rao</i>
7. Dr.Govind Kumar Inakhiya	Invitee <i>[Signature]</i>
8. Mr.Mohit Sharma	Invitee <i>[Signature]</i>

Resolutions:

The following Resolutions were approved by the BOS.

- BOS 2.1. Confirmed the minutes of the First Board of Studies held on 25th April 2014.
- BOS 2.2 Approved the research topics of M.Phil. Scholars of 2013-14.
- BOS 2.3 Approved the supervisors for M.Phil. Scholars of 2013-14.
- BOS 2.4 Approved for ~~6/12~~ ^{6/12} months extension period for M.Phil. Scholars of 2013-14 from ~~May 2015 to July 2015~~ to ~~September 2015~~ *June 2015*
- BOS 2.5 Approved the research topics of M.Phil. Scholars of 2014-15.
- BOS 2.6 Approved the supervisors for M.Phil. Scholars of 2014-15.
- BOS 2.7 Approved the Allied Subjects:
- BOS 2.8. Authorized the Head to identify the list of Journals for Publication.
- BOS 2.9 Authorized the Head to identify Examiners and Evaluators.
- BOS 2.10 The meeting ended with a vote of thanks to the Chair.

[Signature]
9/5/2015

G. Durga Rao
9/5/15
[Signature]
09/05/15

[Signature]
9/5/15

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9/5/2015
[Signature]
9/5/15

CENTRAL UNIVERSITY OF JAMMU

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

No: 4-10/PPPA/CUJ/REG/2014/898-903

Date: 20.10.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies; Department of Public Policy and Public Administration, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus (1st, 2nd, 3rd and 4th semester) for the Academic Session 2015-16. The approved Course Scheme and Syllabus are as under:

Semester-I

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGPPA1C001T	Introduction to Public Policy	4	25	25	50	100
PGPPA1C002T	Introduction to Governance	4	25	25	50	100
PGPPA1C003T	Administrative Thinkers-I	4	25	25	50	100
ELECTIVE COURSES (ANY ONE)						
PGPPA1E001T	Indian Constitution, Social Justice and Administration	4	25	25	50	100
PGPPA1E002T	Rural Governance	4	25	25	50	100
FOUNDATION COURSE (Compulsory)						
PGPPA1F001T	Introduction to Public Administration	4	25	25	50	100
Total		20				500

Semester-I

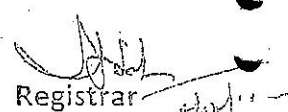
Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGPPA2C001T	Administrative Thinkers-II	4	25	25	50	100
PGPPA2C002T	Human Resource Administration	4	25	25	50	100
PGPPA2C003T	Comparative Public Administration	4	25	25	50	100
ELECTIVE COURSES (ANY ONE)						
PGPPA2E001T	Civil Services in India	4	25	25	50	100
PGPPA2E002T	Urban Governance	4	25	25	50	100
PGPPA2E003T	E-Governance	4	25	25	50	100
FOUNDATION COURSE (Skill Based)						
PGPPA2F001T	Statistical Methods and Computer Applications	4	25	25	50	100
Total		20				500

Semester-III

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGPPA3C001T	Public Policy-Concepts and Models	4	25	25	50	100
PGPPA3C002T	Public Financial Governance in India	4	25	25	50	100
PGPPA3C003T	Research Methodology	4	25	25	50	100
ELECTIVE COURSES (ANY ONE)						
PGPPA3E001T	Public Policy Analysis	4	25	25	50	100
PGPPA3E002T	Globalization and Public Policy	4	25	25	50	100
PGPPA3E003T	Law, Ethics and Governance	4	25	25	50	100
PGPPA3E004T	Engaged Policy and Governance	4	25	25	50	100
INTERDISCIPLINARY COURSE						
PGPPA3I001T	Local Governance in India	4	25	25	50	100
Total		20				500

Semester-IV

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGPPA4C001T	Social Policy: State, Market and Society	4	25	25	50	100
PGPPA4C002D	Public Policy Clinic/Governance Lab Dissertation	4	25	25	50	100
PGPPA4C003T	Measuring Governance	4	25	25	50	100
ELECTIVE COURSES (ANY ONE)						
PGPPA4E001T	Public Policy: Case Studies	4	25	25	50	100
PGPPA4E002T	Innovation in Governance	4	25	25	50	100
PGPPA4E003T	Public Sector: Issues and Innovations	4	25	25	50	100
INTERDISCIPLINARY COURSE						
PGPPA4I001T	E-Government	4	25	25	50	100
Total		20				500


Registrar
20/11/2024

Encl: Approved syllabus for 1st semester

Copy to:-

1. Dean, School of Humanities & Social Sciences
2. Head, Dept. of PPPA
3. DR (Examinations)
4. Staff Officer to VC
5. PA to Registrar

SEMESTER - I

PGPPA1C001T: INTRODUCTION TO PUBLIC POLICY (Core Course)

Course Objective

The field of public policy has assumed considerable importance in response to the increasing complexity of the government activity. The advancements of technology, changes in the social organization structures, rapid growth of urbanization added to the complexities. The study of Public Policy aspires to provide an in-depth understanding of the ills prevailing in the society and aids to identify the solutions for them. Public policy is an important mechanism for moving a social system from the past to the future and helps to cope with the future. The main objective of this foundation course is to provide an opportunity to the student to learn the basic areas of public policy on the largest gamut of its canvas.

UNIT- I: Introduction:

- a) Nature, Scope and Importance of Public Policy
- b) Evolution of Public Policy and Policy Sciences
- c) Public Policy and Public Administration

UNIT- II: Approaches to Public Policy Analysis

- a) The Process Approach
- b) The Logical Positivist Approach
- c) The Phenomenological Approach
- d) The Participatory Approach and Normative Approach

UNIT- III: Theories and Process of Public Policy Making

- a) Theories and Models of Policy Making
- b) Perspectives of Policy Making Process
- c) Institutions of Policy Making

UNIT- IV: Policy Implementation and Evaluation

- a) Concept of Policy Implementation
- b) Techniques of Policy Implementation
- c) Concept of Policy Evaluation
- d) Constraints of Public Policy Evaluation

UNIT- V: Globalization and Public Policy

- a) Global Policy Process
- b) Transnational Actors: Impact on Public Policy Making
- c) Impact of Globalization on Policy Making

Select References

Anderson J.E., (2006) Public Policy-Making: An Introduction, Boston, Houghton
 Bardach, Eugene (1977), The Implementation Game: What Happens After a Bill Becomes a Law, Cambridge, MA: MIT
 Bergerson, Peter J. (ed.), (1991), Teaching Public Policy: Theory, Research and Practice, Westport, RI: Greenwood Press
 Birkland Thomas A., (2005), An Introduction to The Policy Process: Theories, Concepts, And Models of Public Policy Making, Armonk: M.E. Sharpe
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 Dror, Y., (1989), Public Policy making Re-examined, 2nd ed., San Francisco, Chandler.
 Dye Thomas (2008), Understanding Public Policy, Singapore, Pearson Education
 Hill Michael, (2005), The Public Policy Process, Harlow, UK; Pearson Education, 5th Edition.
 Howlett, Michael, and M. Ramesh, (1995), Studying Public Policy: Policy Cycles and Policy Subsystems, OUP, Toronto.
 Jones, C.O., (1970), An Introduction to the Study of Public Policy, Belmont, Prentice -Hall,
 Lerner, D. and H.D. Lasswell (eds.), (1951), The Policy Sciences, Stanford, Stanford University Press. Lindblom, C.E., and E.J., Woodhouse, (1993), The Policy making Process, 3rd ed., New Jersey., Prentice - Hall. McCool, Daniel C. (ed.), (1995), Public Policy Theories, Models, and Concepts: An Anthology, NJ: Prentice-Hall.
 Moran Mitchel and Robert Goodin, (2006), The Oxford Handbook of Public Policy, Oxford University Press, New York.
 Nachmias, David, (1979), Public Policy Evaluation: Approaches and Methods, New York: St. Martin's Press.
 Jay M. Shafritz (ed) (1998), International Encyclopedia of Public Policy and Administration, Westview Press

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G. Durga Rao *Shankar* *(Signature)*

SEMESTER - I
PGPPA1C002T: INTRODUCTION TO GOVERNANCE (Core Course)

Course Objective

The term governance has made an impressive career in a number of disciplines concerned with regulation, order and law. The word 'Governance' appears in diverse academic disciplines. At general level, governance refers to theories and issues of social coordination and the nature of all patterns of rule. The theories of governance have changed the understanding of various concepts of state and its institutions. New jargon of words emerged into the social science literature with different connotations. In this background, the present course is aimed to provide an in-depth understanding of the basic tenets and trends of Governance.

UNIT - I: Introduction

- a) Definitions, Issues and Controversies
- b) Reinventing Government
- c) Reforming Institutions: The State, Market and Public domain

UNIT - II: State and Governance

- a) Origin and types of State
- b) Democratic State and Democratic Administration
- c) Neo-Liberalism and Rolling Back State
- d) Governance as Government

UNIT - III: Citizen and Governance

- a) Rule of Law and Human Rights
- b) Accountability
- c) Participation
- d) Representation

UNIT - IV: Techniques of Governance

- a) Openness and Transparency
- b) Citizen Charter
- c) Social Audit

UNIT - V: Emerging Trends

- a) Public and Private Governance: An Overview
- b) Market, Civil Society
- c) Information and Communication Technology

Select References:

- Bell, S., and Hindmoor, A. (2009) Rethinking Governance: The Centrality of the State in Modern Society, Cambridge: Cambridge University Press.
- Bell, Stephen and Andrew Hindmoor. (2009) Rethinking Governance: The Centrality of the State in Modern Society. Cambridge: CUP.
- Bevir, Mark (2009), Key Concepts in Governance, Sage, London.
- Bevir, Mark, ed. (2010) The Sage Handbook of Governance. Thousand Oaks, CA: Sage Publications.
- Bovaird, Tony and Elke Löffler, eds. (2009) Public Management and Governance Second Edition. London: Routledge.
- Farazmand, Ali and Jack Pinkowski, eds. (2006) Handbook of Globalization, Governance, and Public Administration. London: CRC/Taylor & Francis.
- Hajer, Maarten, and Hendrik Wagenaar (2003) "Introduction." In Deliberative Policy Analysis: Understanding Governance in the Network Society, ed. Maarten A. Hajer and Hendrik Wagenaar. Cambridge, UK: Cambridge University Press.
- Kjaer, A (2004) Governance. Cambridge, UK: Polity Press.
- Kooiman, Jan ed. (1993) Modern Governance: New Government-Society Interactions. London: Sage.
- Kooiman, Jan. (2003) Governing as Governance. London: Sage.
- Morrison, Donald (1945), "Public Administration and the Art of Governance." Public Administration Review 5:1: 83-87.
- Andrews, Matt. (2010) "Good Government Means Different Things in Different Countries." Governance: An International Journal of Policy, Administration, and Institutions 23:1:7-35.
- Osborne, Stephen P., ed. The New Public Governance? Emerging Perspectives on the Theory and Practice of Public Governance. London: Routledge.
- Peters, B. Guy (1996) The Future of Governance: Four Emerging Models, pp. 1-20.
- Peters, B. Guy, and Jon Pierre (1998) "Governance without Government?: Rethinking Public Administration." Journal of Public Administration Research and Theory 8 (2): 223-43.

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SEMESTER-I

PGPPA1C003T: ADMINISTRATIVE THINKERS-I (Core Course)

Course Objective

A theory, to be useful, should accurately describe a real world event or phenomenon. The validity of any theory depends on its capacity to describe, to explain and to predict. Theory in public administration means to present evidence through definitions, concepts, and metaphors that promote understanding. The chronological narration of administrative theory from oriental thought through classical and human relations school helps the student to grasp the eclectic prescription. The presentation of the individual thinker and their struggle for the search of knowledge would be an inspiring episode.

UNIT I: Administrative Theory:

- a) Significance and importance of theory
- b) Evolution and Emerging Trends in Administrative theory
- c) Oriental Thought: Kautilya and Sun Tzu

UNIT II: Administrative Structure and Process:

- a) Henri Fayol- Foundations of Management
- b) Frederick Winslow Taylor- Scientific Management
- c) Luther Gulick and Lyndall Urwick- Science of Administration

UNIT III : Classical Thought: Bureaucracy:

- a) Max Weber – Bureaucracy
- b) Karl Marx – State and Bureaucracy
- c) Samuel Krislov and Donald Kingsley- Representative Bureaucracy

UNIT IV: Social System Thought:

- a) Mary Parker Follett – Constructive Conflict and Leadership
- b) Elton Mayo – Human Relations Movement
- c) Chester Barnard – Formal and Informal Organizations and Functions of Executive

UNIT V: Writers on Administration:

- a) Robert Dahl – Problems of Science of Administration
- b) Dwight Waldo – The Administrative State and Future of Public Administration
- c) Robert T. Golembiewski – Public Administration as Developing Discipline

Select References:

- Baker R J S (1972), Administrative Theory and Public Administration, Huthinson, London
- Barnard, Chester(1969), The Functions of Executive, Cambridge, Harvard University Press
- Donald Menzel and Harvey White (eds) (2011). *The State of Public Administration: Issues, Challenges and Opportunity*. New York: M. E. Sharpe.
- Frank Marini, (1971). *Towards a New Public Administration: The Minnowbrook Perspective*, Chandier Publications, University of Columbia.
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- Golembiewski, Robert T, (1977). *Public Administration as a Developing Discipline*, Marcel Dekkar.
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- Henry Fayol, (1957). *General and Industrial Management*, Issac Pitman, London.
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- Jay M. Shafritz (ed) (1998); *International Encyclopedia of Public Policy and Administration*, Westview Press
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- Waldo, Dwight (1968), *The Study of Public Administration*, Random house, New York
- White, Jay D. and Guy B. Adams (1994), *Research in Public Administration: Reflections on theory and Practice*, Sage.

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SEMESTER-I

PGPPALE001T: INDIAN CONSTITUTION, SOCIAL JUSTICE AND ADMINISTRATION
(Elective Course)

Course Objective

The Constitution of India defines the basic objectives and functioning of the government. It has provisions for bringing about social change and defining the relationship between individual citizen and the state. It lays out certain ideals that form the basis of the kind of country that we as a citizens aspire to live in. An in-depth analysis of various basic areas of constitution is the main objective of this inter disciplinary course. This helps the students to strengthen their understanding of Indian constitution and functioning of government.

UNIT 1: Indian Constitution:

- a) Nature of the Constitution Salient features - Preamble
- b) Fundamental Rights, Directive Principles - Fundamental Duties
- c) Amendments of the Constitution: Procedure for Amendment- Emergency Provisions

UNIT II: Centre - State Relations and Local Self Government

- a) Distinctive features of Indian Federation
- b) Legislative, Administrative and Financial relations between the Union and the States
- c) Decentralization Experiments in India - 73rd and 74th Amendments and their implementation

UNIT III: State Government

- a) Governor, Chief Minister and Council of Ministers
- b) Secretariat and Directorates
- c) Changing Nature of District Administration and the role of District Collector

UNIT IV: Accountability & Control

- a) Legislative, and Executive Control
- b) Judicial control and Judicial Review
- c) Right to Information Act

UNIT V: Social and Welfare Administration in India

- 1) Reservations for SC, ST and Backward classes
- 2) National SC and ST Commission; Women's Commission
- 3) Minorities Commission and Human Rights Commission.

Select References:

- Avasthi and Avasthi (2002), Indian Administration, Laxmi Narain Aggarwal, Agra.
Basu, D.D. (2000), Introduction to the Constitution of India, Wadhwa and Company, New Delhi.
Fadia and Fadia, Indian Administration (2012), Sahitya Bhavan Publications, Agra.
Granville Austin (1999), The Indian Constitution - Corner Stone of a Nation, OUP, New Delhi.
Maheswari, S.R. (2001), Indian Administration, Orient Blackswan, Hyderabad
Pylee, M.V (2009), An Introduction to the Constitution of India, Vikas, New Delhi
Ramesh K. Arora and Rajni Goyal (2002), Indian Public Administration, Vishva Parkashan, New Delhi.
Sathe, S.P. (2002), Judicial Activism in India, New Delhi: Oxford University Press.
Subash C. Kashyap (1989), Indian Polity: Retrospect and Prospect, Allahabad University Alumni Association, National Public House
Subash C. Kashyap (2010), Indian Constitution: Conflicts and Controversies, Vitasta,
The Constitution of India, Government of India, 2009.
Tummala K. Krishna (1996), Public Administration in India, Allied Publications, New Delhi.

SEMESTER-I

PGPPA1E001T: INDIAN CONSTITUTION, SOCIAL JUSTICE AND ADMINISTRATION
(Elective Course)

Course Objective

The Constitution of India defines the basic objectives and functioning of the government. It has provisions for bringing about social change and defining the relationship between individual citizen and the state. It lays out certain ideals that form the basis of the kind of country that we as citizens aspire to live in. An in-depth analysis of various basic areas of constitution is the main objective of this inter disciplinary course. This helps the students to strengthen their understanding of Indian constitution and functioning of government.

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- c) Right to Information Act

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- 3) Minorities Commission and Human Rights Commission.

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- Avasthi and Avasthi (2002), Indian Administration, Laxmi Narain Aggarwal, Agra.
Basu, D.D. (2000), Introduction to the Constitution of India, Wadhwa and Company, New Delhi.
Fadia and Fadia, Indian Administration (2012), Sahitya Bhavan Publications, Agra.
Granville Austin (1999), The Indian Constitution – Corner Stone of a Nation, OUP, New Delhi.
Maheswari, S.R. (2001), Indian Administration, Orient Blackswan, Hyderabad
Pylee, M.V (2009), An Introduction to the Constitution of India, Vikas, New Delhi
Ramesh K. Arora and Rajni Goyal (2002), Indian Public Administration, Vishwa Parkashan, New Delhi.
Sathe, S.P. (2002), Judicial Activism in India, New Delhi: Oxford University Press.
Subash C. Kashyap (1989), Indian Polity: Retrospect and Prospect, Allahabad University Alumni Association, National Public House
Subash C. Kashyap (2010), Indian Constitution: Conflicts and Controversies, Vitasta.
The Constitution of India, Government of India, 2009.
Tummala K. Krishna (1996), Public Administration in India, Allied Publications, New Delhi.

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SEMESTER-I

PGPPA1E002T: RURAL GOVERNANCE (Elective Course)

Course Objective:

Rural development has always been an important issue in all discussions pertaining to economic development, especially of developing countries, throughout the world. Although millions of rural people have escaped poverty as a result of rural development in many Asian countries, a large majority of rural people continue to suffer from persistent poverty. The term rural development connotes overall development of rural areas to improve the quality of life of rural people. As a discipline, it is multi-disciplinary in nature, representing an intersection of agriculture, social, behavioural, engineering and management sciences. The main objective of this course is to sensitize students to major issues and challenges in the rural sector and to provide an opportunity to systematically study these issues in the field.

UNIT I: Introduction

- Democracy, Development and Decentralization
- Rural Development: Perspectives
- Rural Policies and Strategies in India
- Rural Development and Panchayath Raj

UNIT II: Rural Institutions - Panchayat Raj

- Panchayat Raj in India - An Evaluation
- Reforms in Panchayat Raj (73rd CAA and after)
- Panchayat Raj in Jammu & Kashmir
- e-Panchayats

UNIT III: Resources and Development

- Rural Credit and Cooperatives
- Self - Help Groups
- Technical Assistance in Rural Governance

UNIT IV: Rural Development Programmes and Agencies

- Rural Development Programmes: IRDP, SGSY & MGNREGA
- Governance in Tribal and Scheduled Areas
- Village Administration: Stake Holder Committees

UNIT V: Issues in Rural Governance

- Land Reforms
- Rural Unrest: Caste, Class and Gender
- Governing Elite and Rural Social Change
- Bureaucracy

Select References:

- Chambers, Robert (1998), Rural Development: Putting the Last First, Harlow: Longman.
- Deaton, Angus and Valerie Kozel (eds.) (2005), The Great Indian Poverty Debate, Macmillan India Ltd., New Delhi.
- Sengupta Chandan and Stuart, Corbridge (eds) (2010), Democracy, Development and Decentralisation in India, Routledge, New Delhi.
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- Deshpande, R.S. and Saroj Arora (eds) (2010), Agrarian Crisis and Farmer Suicides, Sage, New Delhi.
- Dreze, Jean, and Reetika Khera (2011), The Battle for Employment Guarantee, Oxford University Press, New Delhi.
- Fraser, Thomas G. (ed) (2013), India's Rural Transformation and Development: Issues, Processes and Direction, Suryodaya Books, New Delhi.
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- Palanithurai, G. and R Ramesh (2011), Globalization and Rural Development, Jain Books, New Delhi
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- Tankha, Ajay (2012), Banking on Self-Help Groups: Twenty Years On, Sage, New Delhi.
- The World Bank (2010), Of Taps & Toilets: Evaluating Community Demand - Driven Projects in Rural India, The World Bank, South Asia Region, Washington, D.C.
- Tiwari, Ramesh Kumar (2011), Human Rights and Law: Bonded Labour in India, Cambridge

SEMESTER-I

PGPPA1F001T: INTRODUCTION TO PUBLIC ADMINISTRATION (Foundation Course)

Course Objective

The importance of public administration derives from its crucial role in the governing of a society. All the great human events in history were probably achieved by what we today would call public administration. Organization and administrative practices in collective or public settings are as old as civilization. This foundation course is set to analyze the transformations in public administration with emphasis on current initiatives and emerging challenges in the field. Students are introduced to the study of public administration in a fast changing environment of globalized phenomenon.

Unit I: Introduction

- a) Meaning, Nature, Scope and importance of Public Administration
- b) State and Evolution of Public Administration and present status
- c) Politics & Administration Dichotomy - Woodrow Wilson and F.J. Goodnow
- d) Globalization and Public Administration

Unit II: Principles of Public Administration

- a) Division of Work and Coordination
- b) Hierarchy, Unity of Command and Span of Control
- c) Delegation, Centralization and Decentralization
- d) Line and Staff

Unit III: Approaches

- a) Classical Approach
- b) Human Relations and Behavioural Approach
- c) Ecological Approach

Unit IV: Concepts of Public Administration

- a) Administrative Planning
- b) Leadership and Supervision
- c) Communication and Public Relations

Unit V: Emerging Trends

- a) Public Accountability and Social Accountability
- b) New Public Administration : Minnowbrook I, II & III
- c) New Public Management
- d) Public Administration in Transition

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Central University of Jammu

DEPARTMENT OF PUBLIC POLICY AND PUBLIC ADMINISTRATION

Annexure - III

Consider and Recommendation of the research supervisors for Ph.D Scholars of 2013-14 batch.

Roll. No	Name of the Candidate	Research Supervisor
0111013	Ms. Anjana Kumari	Dr. Rouchi Chaudhary
0311013	Ms. Suneha Kundan	Dr. Govind Kumar Inakhiya
0511013	Mr. Tsering Dorjay	Dr. Govind Kumar Inakhiya
0611013	Ms. Taira Perveen	Dr. Rouchi Chaudhary

Recommended

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21/10/2015

G. Durga Red

Department of Public Policy & Public Administration
Central University of Jammu, Jammu

Authorizing the Head of the Department for taking decisions regarding matters that need urgent attention.

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G. Durga Red

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Agenda for School Board (School of Education) Meeting to be held on 13-07-2015

- Reporting the cases of three M.Phil. candidates of Integrated M.Phil.-Ph.D. for the award of degree for the session 2012-13.
- Approval of Courses of M.Ed. Programme (Two years) to be introduced from the session 2015-16.
- Approval of Courses of 1st Semester of Integrated M.Phil.-Ph.D. Programme for the session 2015-16.
- Approval of the topics for research work and supervisors of the M.Phil. students of Integrated M.Phil.-Ph.D. Programme of the session 2014-15.
- Approval of the panel of experts as external examiners for evaluation of thesis of the students of Integrated M.Phil.-Ph.D. Programme of the session 2013-14.
- Approval of the topics for research work and supervisors of Ph.D. scholars of Integrated M.Phil.-Ph.D. Programme of the session 2012-13.
- Approval of the panel of experts for evaluation of Dissertations and Viva-Voce examination of M. Ed. students of the session 2014-15.
- Approval of the paper setters and evaluators of the theory courses of M.Ed. Programme for the session 2015-16.
- Authorization to the Chairperson, School Board to approve any other issue arising prior to next meeting.
- Any other item, if any, with the permission from the convener.

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(Prof S.K. Yadav)

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(KIRAN)

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CENTRAL UNIVERSITY OF JAMMU
 Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

No: CUJ/Acad/S05/2015/894-97

Date: 20.10.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, Department of Education, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus (1st, 2nd, 3rd and 4th semester) for the Academic Session 2015-16. The approved Course Scheme and Syllabus are as under:

Semester-I

Course Code	Course Title	Credit	L:T:P	Total Marks
CORE COURSES				
PGEDU1C001T	Philosophical Perspectives in Education	4	3:1:0	100
PGEDU1C002T	Learner and Learning Process	4	2:1:1	100
PGEDU1C003T	Methodology of Educational research	4	3:1:0	100
ELECTIVE COURSES (ANY ONE)				
PGEDU1E001T	Elementary Education	4	3:1:0	100
PGEDU1E002T	Pedagogics in Teaching	4	3:1:0	100
PGEDU1E003T	History of Indian Education	4	3:1:0	100
FOUNDATION COURSE				
PGEDU1F001Tr	Skills in Teaching	2	0:0:2	50
Total		18		450

Semester-II

Course Code	Course Title	Credit	L:T:P	Total Marks
CORE COURSES				
PGEDU2C001T	Sociological Perspectives in Education	4	3:1:0	100
PGEDU2C002T	Teacher Education	4	3:1:0	100
PGEDU2C003T	Statistics in Education	4	2:1:1	100
ELECTIVE COURSES (ANY ONE)				
PGEDU2E001T	Secondary Education	4	3:1:0	100
PGEDU2E002T	Mental Health and Hygiene	4	3:1:0	100
PGEDU2E003T	Educational Administration and Financing	4	3:1:0	100
PGEDU2E004T	Guidance & Counselling	4	3:1:0	100
FOUNDATION COURSE				
PGEDU2F001Tr	Communication Skill and Expository Writing	2	0:0:2	50
PGEDU2F002F	Internship-cum-Field Experience	2	0:0:2	50
Total		20		500

CENTRAL UNIVERSITY OF JAMMU

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

Semester-III

Course Code	Course Title	Credit	L:T:P	Total Marks
CORE COURSES				
PGEDU3C001T	Educational Technology	4	3:1:0	100
PGEDU3C002T	Inclusive Education	4	3:1:0	100
PGEDU3C003T	Current Trends in Education	4	3:1:0	100
FOUNDATION COURSES				
PGEDU3F001L	Information and Communication Technology	2	0:0:2	50
PGEDU3F002P	Writing Research Proposal	2	0:0:2	50
PGEDU3F003F	Internship -cum-Field Experience	4	0:0:4	100
INTERDISCIPLINARY				
	Inter-disciplinary Course	4		100
Total		24		600

Semester-IV

Course Code	Course Title	Credit	L:T:P	Total Marks
CORE COURSES				
PGEDU4C001T	Comparative Education National and International Perspectives	4	3:1:0	100
PGEDU4C002T	Curriculum Studies	4	3:1:0	100
PGEDU4C003T	Measurement and Evaluation in Education	4	2:1:1	100
FOUNDATION COURSES				
PGEDU4F001D	Dissertation	4	0:0:4	100
PGEDU4F002V	Viva-voce	2	0:0:2	50
INTERDISCIPLINARY				
	Inter-disciplinary Course	4		100
Total		24		600
Grand Total		84		2100

The examination scheme for each paper of 1st semester will be as follows:

Examination Scheme			
CIA	MTE	ETE	Total Marks
25 Marks	25 Marks	50 Marks	100 Marks

Registrar

Encl: Approved syllabus for 1st semester

Copy to:-

1. Head, Deptt. of Education
2. DR (Examinations)

DEPARTMENT OF EDUCATIONAL STUDIES
Central University of Jammu

M.Ed. (Two Years Programme)

Semester-I

Course Code: PGEDU1C001T

Course Title: PHILOSOPHICAL PERSPECTIVES OF EDUCATION

Total Credits: 4 (Four)

Maximum Marks:100

Lecture;Tutorial;Practical: 3:1:0

Objectives:

On completion of this course the students will be able to:

- Understand the nature of education as a discipline/an area of study and interdisciplinary approach.
- Understand the relationship between education and philosophy.
- Understand the concept and nature of philosophy.
- Critically examine issues related to educational philosophy.
- Explain the contribution of Western schools of philosophy towards education.
- Explain the contribution of Indian schools of philosophy towards education.
- Examine critically the concerns arises from vision of school education and teacher education and also the vision of great educators.
- Reflect on the multiple contexts in which the school and teacher education institutions are working.
- Discuss the emerging dimensions of education and philosophy.

Teaching and examination scheme:

Teaching Scheme (Unit wise Division of Teaching Sessions)				Total (L+T+P)	Examination Scheme			
Unit	L	T	P		CIA	MTE	ETE	Total Marks
I	12	4	0	16	25 Marks	25 Marks	50 Marks	100 Marks
II	12	4	0	16				
III	14	4	0	18				
IV	18	6	0	24				
V	12	4	0	16				
Total	68	22	0	90				

Legends: L- Lecture, T-Tutorial/Teacher Guided Student Activity, P- Practical; C-Credit;
 CIA-Continuous Internal Assessment, MTE-Mid Term Examination and ETE-End Term Examination

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Course Contents

Unit I- Theoretical Perspectives of Education

- Concept and aims of modern education with special reference to Delor's Commission (UNESCO, 1996) and child centric and life centric education
- Interdisciplinary nature of education and relationships with disciplines/subjects such as philosophy, psychology, sociology, economics, anthropology etc. connecting knowledge across disciplinary boundaries to provide a broad framework for insightful construction of knowledge.
- Procedure of bridging gap in the process of knowledge construction between:
 - Content knowledge and Pedagogy knowledge
 - School knowledge and out of the school knowledge
 - Experiential knowledge and empirical knowledge

Unit II- Philosophical Perspectives

- Philosophy: concept, nature, role of philosophy in education
- Philosophical foundation of education- need and relevance.
- Branches of philosophy and their educational implications
- National values as enshrined in the Indian Constitution and their educational implications.

Unit III- Western Schools of Philosophy

- Western schools of Philosophy and their significance to education.
- Idealism, Naturalism and pragmatism with special reference to Epistemology, Metaphysical and Axiological aspects and their educational implications.
- Realism, Existentialism and Marxism with special reference to Epistemology, Metaphysical and Axiological aspects and their educational implications.
- Analysis and synthesis of the thoughts of great educators like Ivan Illich, John Dewey and Paulo Friere.

Unit IV- Indian Schools of Philosophy

- Indian schools of Philosophy and their significance to education.
- Sankhya and Vedanta with reference to the concept of knowledge, reality and values and their educational implications.
- Buddhism, Jainism and Islamic traditions with reference to the concept of knowledge, reality and values and their educational implications.
- Analysis and synthesis of thoughts of great educators like Gandhi, Tagore, Vivekananda and Shri Aurobindo.

Unit V- Modern Philosophies

- Concept and nature of Modern Philosophy
- Difference between the traditional and modern philosophy
- Logical analysis & Logical empiricism and their educational implications
- Positive relativism & Dialectical Approach and their educational implications

Transaction Mode

(1) Observational studies-Observation of various instructional situations in real classrooms, various activities in the school, the role of teachers etc; (2) Seminar- reading- presentation by students on selected themes individually and collectively leading to discussion; (3) Library readings on selected themes followed by group discussions ;(4) Study of documents & references and reflective interaction with the peer group.

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Sessional Work: The students have to undertake following activities:

- Readings of original texts of Rabindranath Tagore/M.K. Gandhi/Sri Aurobindo/John Dewey etc.
- Presentation and group discussion on linkage of various theoretical concepts of philosophy with pedagogy and practices.
- Assignments based on self-study on identified themes such as policy perspectives and status of education with special reference to philosophical perspectives.
- Critical analysis the contribution of Western and Indian schools of thought with special reference to epistemology, metaphysics and axiology followed by seminar procedure.
- Critically examine the concerns arises from vision of school education and teacher education and also the vision of great educators.

References:

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Shrivastva, K.K. (2009). *Philosophical Foundations of Education*, New Delhi: Kanishka Publications.

Winch, C. (1986). *Philosophy of human learning*. London: Routledge.

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**Department of Educational Studies
Central University of Jammu**

**M. Ed. Programme
Semester-I
Syllabus**

Course Code: PGEDU1C002T

Course Title - LEARNER AND LEARNING PROCESS

Credits Equivalent: 4 Credits

Total Hours: 90

Lecture/Tutorial/Practice: 2:1:1

Max. Marks: 100

Objectives

On completion of this course the students will be able to:

- understand how children learn framework ;
- critically analyze the process of learning from the point of view of Cognitive Psychology and the implications of constructivist learning ;
- visualize multiple dimensions and stages of learner's development and their implication on learning ;
- understand the learner in terms of various characteristics ;
- learn the factors affecting learner's environment and assessment ;
- conceptualize a framework for understanding and evaluating teaching-learning situation as well as the method of analyzing and reflecting upon learning episodes ;
- conceptualize the needs of the Learners and the process of learning as visualized in NCF, 2005.
- visualize the brief epistemological frame of major curricular areas.

Teaching Scheme (unit wise Division of teaching sessions)					Examination Scheme			
Unit No.	L	T	P	C	CIA	MTE	ETE	Total Marks
I	09	4	1	14	25 Marks	25 Marks	50 Marks	100 Marks
II	09	4	3	16				
III	10	4	0	14				
IV	09	4	4	17				
V	10	4	6	20				
TOTAL	47	20	14	81	25 Marks	25 Marks	50 Marks	100 Marks

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Unit IV- Management of Learning Framework: Psychological Bases

- Motivation in Learning: Intrinsic and Extrinsic Motivation, Maslow's Need Hierarchy, Approaches to Motivation- Humanistic Approach, Cognitive Approach with Reference to Attribution Theory of Weiner.
- Principles of Classroom Management in Psychological Contexts.
- Use of learning resources: Individualized Learning and Group Learning.

Unit V- Personality and Mental Health

- Personality: Concept, Structure and Dynamics of Personality.
- Theories of Personality: Allport, Cattell, Freud, Adler, Jung, Roger
- Measurement of Personality: Projective and Non-Projective Techniques.
- Mental Health and Adjustment: Concept and Mechanism of Adjustment, Conflict, Complexes, Defense Mechanism.

Transaction Mode

(1) preparation of reflective diaries and discussion (2) Seminar reading-presentation by students on selected themes individually and collectively (3) Library readings (4) Study of documents and references, (5) Lectures (6) Group Discussions (7) Practical work.

Sessional Work:

The students may undertake any one of the following activities:

- Assignments based on self-study on identified themes such as policy perspectives and status of education of socio-economically disadvantaged children of India/of a particular State, vision of school education in India, process of socialisation of the child, critical analysis of the ways in which schooling, teaching-learning and curriculum contribute to social inequality, young children and social policy etc and presentation in a seminar.
- Observation and preparation of a reflective diary and interaction in a group.
- Critical analysis of learning situation in schools and out of the schools/preparing reflective diaries, interpretation, analysis, reflection on observation and finally presentation in a group.
- Design/suggest activities for enhancing the quality of learning through the application of the content studied.

References:

- Ambron, S.R (1981) *Child development*, Holt, Rincehart and Winston, New York.
- Anderson, J.R. (1983). *Rules of the mind*. Hillsdale, NJ: Erlbaum
- Anderson, J.R. (1983). *The architecture of cognition*. Cambridge, MA: Harvard University Press.
- Barry and Johnson (1964) *Classroom Group Behaviour*, New York: Macmillan.
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- Bruner, J.S. (1990) *Acts of meaning*. Cambridge, M.A.: Harvard University Press.
- Bruner, R.F. (1978). *Psychology Applied to Teaching*. Boston: Houghton Mifflin.

DEPARTMENT OF EDUCATIONAL STUDIES
Central University of Jammu

Programme: M.Ed. (Two Years)

Semester-I

Course Title :Methodology of Educational Research
Course Code: PGEDU1C003T

Credits-4 (L-3;T-0;P-1)

Objectives

On completion of this course, the students will be able to:

- describe the nature, purpose, scope, areas, and types of research in education;
- explain the characteristics of quantitative, qualitative and mixed research;
- select and explain the method appropriate for a research study ;
- conduct a literature search and develop a research proposal;
- explain a sampling design appropriate for a research study;
- explain tool design approaches and procedure for collection of data; and to
- explain the importance of documentation and dissemination of researches in education

Teaching Scheme (Sessions)*				Total (L+T+P)	Examination Scheme			
					CIA	MTE	ETE	Total Marks
Unit	L	T	P	C	25 Marks	25 Marks	50 Marks	100 Marks
I	11	4	0	15				
II	10	4	0	14				
III	12	4	0	16				
IV	9	3	0	12				
V	12	4	0	16				
	54	19	0	73	25 Marks	25 Marks	50 Marks	100 Marks

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must, failing which a student may not be permitted to appear in examination.

Course Content

Unit I- Research in Education: Conceptual Issues

- Source of knowledge, the scientific approach to the knowledge generation: basic assumptions of science, scientific method
- Educational Research: Meaning, nature, Kinds of educational research: basic & applied research, evaluation research and action research, and their characteristics.
- Areas of educational research, Ethical Considerations in Education Research

Unit II- Planning the Research

- Review of the literature: purpose and resources- conducting the literature search using databases and internet, Identification and conceptualization of research problem: Problem selection(sources, characteristics), statement of problem, purpose, and research questions in qualitative and quantitative research.
- Identification of Variables and Formulation of Hypotheses : Sources of deriving hypotheses, characteristics of a good hypotheses, criteria for accepting or rejecting hypothesis.
- Preparation of a research proposal: framework of the research proposal and strategies for writing the research proposals.

Unit III- Methods of Research

- Historical research-meaning, significance, steps, primary and secondary sources of information, external and internal criticism of the sources.
- Descriptive research: meaning, significance, types (Survey studies, Correlational studies & developmental studies).
- Experimental research: nature, significance, variables in experimental research - independent, dependent and confounding variables; ways to manipulate an independent variable, purpose and methods of control of confounding variables, experimental designs ,threats to experimental validity-internal & external.
- Qualitative approaches of Research: Meaning, nature; Brief description of approaches-Phenomenology, Ethnography, Case studies, Grounded theory.

Unit IV- Sampling

- Concept of population and its types- sample, sampling unit, sampling frame, sample size, sampling error, representative and biased sample.
- Random sampling techniques: simple random sampling, systematic sampling, stratified random sampling, cluster sampling, and multi-stage sampling, determining the sample size when using random sampling, multi-phase sampling.
- Non- random sampling techniques, convenience sampling, purposive sampling, quota sampling and snowball sampling.

Unit V- Data Collection and Report Writing

- Meaning, types, characteristics and uses of following data gathering tools :
 - > Questionnaires;

- Interview;
 - Observation;
 - Rating Scale;
 - Socio-metric techniques.
- Research report writing: concept, significance, various approaches in research report writing, characteristics of a good research report, steps and layout of a research report.
 - Dissemination of research findings- characteristics of a good research paper, writing a research paper, oral presentation, publishing the research papers in research journals and documents.

Sessional work: the students may undertake any one of the following activities:

- ✓ Identification of variables of a research study and classification of them in terms of functions and levels of measurement
- ✓ Preparation of a sampling design given the objectives and research questions/hypotheses of a research study
- ✓ development of a research proposal on an identified research problem
- ✓ preparation, try out and finalization of a tool

Transaction mode

Lecture-cum-discussion, brain storming, group discussion, presentations; panel discussions; seminar presentations, research exercises.

References

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DEPARTMENT OF EDUCATIONAL STUDIES

Programme: M.Ed. (Two Years)

Semester-I

Course Title: ELEMENTARY EDUCATION

Course Code: PGEDU1E001T

Total Credits- 4

Maximum Marks:100

Lecture; Tutorial; Practical: 3:1:0

Objectives

On completion of this course the students will be able to:

- Explain the concept and importance of elementary education in India.
- Gain insight and reflect on the historical development of elementary education in India.
- Illustrate the concept of education for all.
- Critically examine the various government initiatives in elementary education.
- Critically examine the quality concern in elementary education.
- Role of community participation in development of elementary education.
- Understand the roles and responsibilities of teachers and teacher educators at elementary level.
- Use various methods of teaching for transacting the curriculum at elementary schools level.
- Critically examine the role and contribution of various regulating bodies and support institutions for improving quality of teacher's education,
- Reflect on the issues and problems related to teacher education at elementary level in the country.

Teaching Scheme (unit wise Division of teaching sessions)					Examination Scheme			
Unit No.	L	T	P	C	CIA	MTE	ETE	Total Marks
I	5	5	0	20	25 Marks	25 Marks	50 Marks	100 Marks
II	4	5	0	19				
III	12	5	0	17				
IV	13	4	0	17				
V	13	4	0	17				
TOTAL	67	23	0	90	25 Marks	25 Marks	50 Marks	100 Marks

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Course Content

Unit I: Conceptual Framework of Elementary Education with Special Reference to UEE

- Elementary Education: concept, aims and importance in modern India
- Historical development of elementary education before and after independence of India.

- Universalization of elementary education (UEE): Concept, universal access, universal enrolment, universal retention, out of school children, drop out and factors affecting the process of Universalization of elementary Education in India.

Unit II: Government and Legislative Initiatives Education for All (EFA) in India

- Education for All (EFA): Concept, goals, challenges for EFA.
- Legislative and Government initiative for development of elementary education in India: Constitutional provisions, National Policy on Education (1986), Operation Blackboard and Alternative & Innovative Education, Ramamurthy Committee Report, POA (1992), District Primary Education Programme (DPEP), Sarva Shiksha Abhiyan (SSA).
- The Right of Children to Free and Compulsory Education Act, 2009: norms and standards, equity and social inclusion, role of community and civil society.

Unit III: Elementary Teacher Education in India

- Teacher Education at elementary level: Importance, programmes and perspectives.
- Teacher Education at elementary level in India after Independence: National Policy on Education (1986) & Teacher Education, NCFTE (1998) and NCFTE (2009) recommendations.
- Pre-service and In-service elementary teacher education: concept, nature, objectives, scope, quality concerns and modes.

Unit IV: Quality Concerns in Elementary Education

- Quality concerns in Elementary Education: concept of quality, assessment of quality, factors affecting quality and learning achievement.
- School based practicum and internship: concept, planning, organization and evaluation of school based practicum and internship.
- Role of concerned agencies in the context of elementary teacher education: DIETs, SCERTs, NCERT, NUEPA/NIEPA, and NCTE.

Unit V: Emerging Issues and Concerns in Elementary Education

- Participation and role of community & civil society in development of elementary education.
- Evaluation, monitoring and supervision of elementary education.
- Research priorities in elementary education.

Transactional mode

The course would be transacted through participatory approach including group discussion; self study; seminar/presentations by students etc.

Sessional work: The students may undertake any one of the following activities:

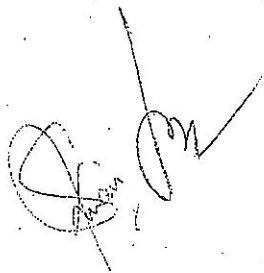
- ✓ Organisation and participation in group discussion on norms developed by NCTE for recognition of teacher education Institutions.
- ✓ Preparation of assignments on different topics along with presentations.
- ✓ Interaction with the faculty of elementary teacher education institutions to ascertain their roles and responsibilities.
- ✓ Interaction with the faculty of elementary teacher education institutions to ascertain the strategies they use for their professional development.
- ✓ Preparation of a plan based on any model of teaching for teaching any topic/concept included in the curriculum.
- ✓ Writing paper for Seminar presentation on any core issue persisting in Elementary

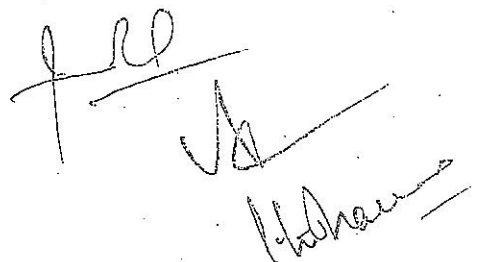
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DEPARTMENT OF EDUCATIONAL STUDIES

Central University of Jammu

Programme: M.Ed. (Two Years)

Semester-I

Course: Pedagogics in Teaching

Course code: PGEDU1E002T

Credits-4 (L-3;T-1;P-0)

Objectives

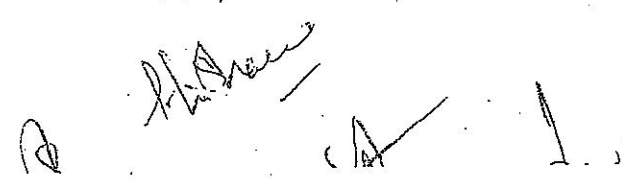
On completion of this course, the students will be able to:

- understand the concept of Pedagogics and its significance in the context of the latest trends in the field of teaching and learning ;
- understand the principles, maxims of successful teaching and the different methods of teaching ;
- comprehend the need and importance of various devices of teaching and apply these to make teaching-learning process. more effective;
- point out and illustrate the difference between teaching and learning and their relationship between the two;
- elaborate different levels of teaching learning process and organize teaching by employing the latest trend concerning to these levels.

Teaching Scheme (Sessions)*				Total (L+T+P)	Examination Scheme			
Unit	L	T	P		CIA	MTE	ETE	Total Marks
I	12	4	0	16	25 Marks	25 Marks	50 Marks	100 Marks
II	11	4	0	15				
III	12	4	0	16				
IV	12	3	0	15				
V	13	4	0	17				
	60	19	0	79	25 Marks	25 Marks	50 Marks	100 Marks

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must, failing which a student may not be permitted to appear in examination.



COURSE CONTENTS

Unit-I

- Meaning and Scope of Pedagogics of Education.
- Components of teaching, Teaching as Science and Art, Relationship between Teaching and Learning.
- Phases of Teaching, Variables of Teaching

Unit-II

- Meaning and importance of behavioural objectives, Writing behavioural objectives for different subjects (Hindi, English and Social Studies), difference between educational and instructional objectives.
- Principles and Maxims of successful Teaching,
- Organizing Teaching at Memory level, Understanding level and Reflective level- procedures and approaches

Unit-III

- Methods of Teaching :Meaning, importance, procedure, advantages and limitations of (a) inductive method (b) deductive method (c) project method (d) Analytic, and (e) Synthetic method. (f) Brainstorming (g) Case Discussion.
- Concept and Significance of Individualized and Cooperative Teaching-Language Laboratory, Tutorials, Keller's Plan (PSI), Computer Supported Collaborative Learning (CSCL).
- Mastery learning: Concept, basic elements, components and types of mastery learning strategies

Unit-IV

- Teaching devices: Oral communication, exposition, explanation, narration, description, illustrations, questioning, homework, textbooks and reference books.
- Fixing devices: Drill, review, recapitulation and repetitive practice.
- Communication Media: Concept, types and functions of audio, visual and audio-visual media. Innovations in communication media.

Unit-V

- Evaluation in Teaching :Concept of evaluation, relationship between Teaching and Evaluation. Types of Evaluation (formative and Summative).
- Method of Evaluation through Essay type, Objective Type and Oral Method. Comparative merits and demerits of different methods of evaluation.
- Latest trends in Evaluation :CBCS,Rubrics, Online Evaluation

Transaction mode

Lecture-cum-discussion, brain storming, group discussion, presentations; panel discussions; seminar presentations, research exercises.

A. Sharma

Professional work: the students may undertake any one of the following activities:

- ✓ Preparation and presentation of slides (ppt) for teaching any topic of the school subjects;
- ✓ Identification and presentation of appropriate teaching devices on the basis of the teaching points or the content area selected out the school curriculum;

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A. Sharma

J.P.

V. S.

DEPARTMENT OF EDUCATIONAL STUDIES
Central University of Jammu

Programme: M.Ed. (Two Years)

Semester-I

Credits-4 (L-3:T-1:P-0)

Course Title : HISTORY OF INDIAN EDUCATION

Course Code : PGEDUIE003T

Objectives

On completion of this course, the students will be able to:

- describe the growth and development of Indian education system during Ancient, Medieval and British period ;
- describe the growth and development of Indian education system in the post-Independence Period;
- Critically evaluate the recommendations of various commissions and committees on Indian Education during pre and post independence era.

Teaching Scheme (Sessions)*				Total (L+T+P)	Examination Scheme			
Unit	L	T	P		CIA	MTE	ETE	Total Marks
I	10	4	0	14	25 Marks	25 Marks	50 Marks	100 Marks
II	10	4	0	14				
III	13	4	0	17				
IV	10	3	0	13				
V	15	4	0	19				
	58	19	0	77	25 Marks	25 Marks	50 Marks	100 Marks

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must, failing which a student may not be permitted to appear in examination.

Course Content

Unit-I : Education in Ancient India

- Vedic Period
- Post-Vedic Period (Upanishad Age)
- Brahmanical System
- Buddhist Period
- Ancient Centres of Learning

Unit-II : Education in Medieval India

- Islamic Education
- Islamic Centres of Learning
- Growth of Muslim Education in the Sultanate Period
- Growth of Education under the Mughals

Unit-III : Education in British India

- Earlier Missionary and Non-Missionary Efforts in the Development of Education
- Controversy between the Orientalists and Anglicists on Education
- Brief Overview of Progress of Education:
 - ❖ Wood's Despatch of 1854
 - ❖ Hunter Commission, 1882
 - ❖ Curzon's Educational Policy
 - ❖ Gokhale's Resolution on Indian Education (1911 and 1913)
 - ❖ Hartog Committee Report, 1929
 - ❖ Wardha Scheme of Education, 1937
 - ❖ Sargent Report, 1944

Unit-IV : Education in Post Independent India (Part-I)

- University Education Commission (1948-49)
- Secondary Education Commission (1952-53)
- Education Commission (1964-66)

Unit-V : Education in Post-Independent India (Part-II)

- ❖ National Policy on Education, 1986
- ❖ Revised National Policy on Education, 1992
- ❖ Yashpal Committee Report(Learning Without Burden, 1992-93)
- ❖ National Curriculum Framework(2005)
- ❖ National Knowledge Commission Report on School Education and Higher Education; 2006-2009

Sessional work: the students may undertake any one of the following activities:

- ❖ Critical analysis of development of education system during one of the periods (mentioned below) through written assignment and finally presentation in a group
 - Education in Ancient India
 - Education in Medieval India
 - Education in British India
 - Education in Post Independent India

- ❖ Critical appraisal of any policy documents(as mentioned below) by giving reflections in the context of present Indian Scenario of educational development at different levels :
 - ❖ National Policy on Education, 1986
 - ❖ Revised National Policy on Education, 1992
 - ❖ Yashpal Committee Report(Learning Without Burden, 1992-93)
 - ❖ National Curriculum Framework(2005)
 - ❖ National Knowledge Commission Report on School Education and Higher Education, 2006-2009

Transaction mode: Lecture-cum-discussion, brain storming, group discussion, presentations, panel discussions and seminar presentations.

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DEPARTMENT OF EDUCATIONAL STUDIES
Central University of Jammu

Programme: M.Ed. (Two Years)

Semester-I

Course Title: Skills in Teaching
Course Code: PGEDU1F001Tr

Credits-2 (L-0:T-0:P-2)

Presentation of Teaching Skills: Each student shall prepare list of all skills identified so far under micro-teaching. Each student shall also be required to prepare and present three micro-lessons based on any three micro teaching skills (Explanation, Questioning, Reinforcement, Stimulus Variation and Use of Blackboard) in two teaching subjects in simulation. Each student shall work under a teacher for practice sessions and prepare a file for each of the lesson delivered. The assessment of the presentation and performance of each student will be made by an Internal Committee to be constituted by H.O.D.

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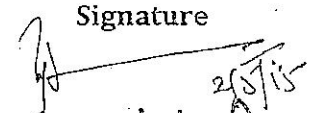
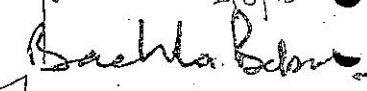
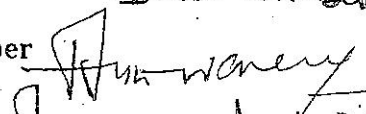
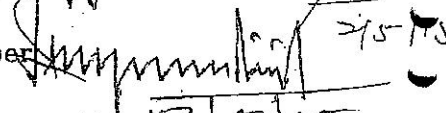
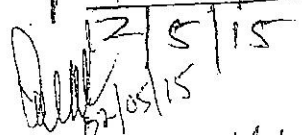
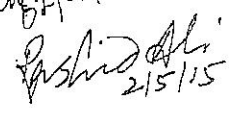
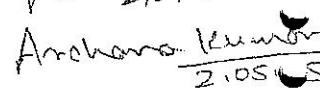
Department of Mass Communication and New Media

Central University of Jammu, Jammu ANNEXURE – XV

Prof. Y. Pardhasaradhi
I/C Head

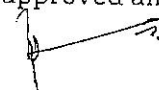
(University Orders Ref -No. CUJ/Regr/Brs/2014/7377-7400 Dated 09th May 2014- As per the ordinances governing academic matters (Ordinance No.13-Page 81, Ordinances Governing Academic and Administrative Matters, Central University of Jammu)

The second meeting of BOS of the Department of MCNM was held on 2nd May 2015 at 9.00am. The following members were present in the meeting.

	Signature
1. Prof. Y. Pardhasaradhi	Chairman  2/5/15
2. Dr. Bachha Babu	Member 
3. Prof. J. Jethwaney Indian Institute of Mass Communication, New Delhi	Member 
4. Prof. Shambhunath Singh Director, School of Journalism and Mass Communication IGNOU, New Delhi	Member  2/5/15
5. Prof. K. Narender Osmania University, Hyderabad	Member  2/5/15
6. Mr. Rashid Ali	Special Invitee  2/5/15
7. Ms. Archana Kumari	Special Invitee  2/5/15

Resolutions:

The following Resolutions were approved by the BOS.

1. The syllabi of the third and fourth semester courses have been approved and enclosed herewith.
2. The revised syllabi of the first and second semester courses have been approved and enclosed herewith.
3. The syllabi of the Integrated M.Phil and Ph.D course ^{titles} have been approved and enclosed herewith. 
4. The list of the Allied Subjects to MCNM has been approved
5. The list of the Journals for publication has been approved
6. The list of Examiners and Evaluators for MCNM has been approved
7. The meeting ended with a vote of thanks to the Chair.

CENTRAL UNIVERSITY OF JAMMU

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

No: 4-28/MCNM/CUJ/Reg/2014/918-921

Date: 21.10.2015

Notification

It is hereby notified for the information of all concerned that on the recommendations of the Board of Studies-Department of Mass Communication and New Media, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme of 1st, 2nd, 3rd and 4th semester and syllabus of 1st and 2nd semester for the Academic Session 2015-16. The approved Course Scheme is as follows:

SEMESTER-I

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGMCM1C001T	Mass Communication and Concepts & Theories	4	25	25	50	100
PGMCM1C002T	Print Media: Reporting and Editing	4	25	25	50	100
PGMCM1C003T	Contemporary Issues and Concerns in Media	4	25	25	50	100
ELECTIVE COURSES						
PGMCM1E001T	Effective Communication	4	25	25	50	100
FOUNDATION COURSES						
PGMCM1F001T	Introduction to Journalism	2	12.5	12.5	25	50
Total		18	112.5	112.5	225	450

SEMESTER-II

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGMCM2C001T	Media Laws and Ethics	4	25	25	50	100
PGMCM2C002T	Broadcast Journalism	4	25	25	50	100
PGMCM2C003T	Advertising and Corporate Communication	4	25	25	50	100
ELECTIVE COURSES						
PGMCM2E001T	Media Management	4	25	25	50	100
FOUNDATION COURSES						
PGMCM2F001T	New Media & Digital Journalism	2	12.5	12.5	25	50
Total		18	112.5	112.5	225	450



CENTRAL UNIVERSITY OF JAMIVU

Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

SEMESTER-III

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
	CORE COURSES					
PGMCM3C001T	Advanced New Media	4	25	25	50	100
PGMCM3C002T	Communication Research	4	25	25	50	100
PGMCM3C003T	Development Communication	4	25	25	50	100
	ELECTIVE COURSE					
PGMCM3E001T	Integrated Marketing Communication	4	25	25	50	100
	INTERDISCIPLINARY COURSE					
PGMCM3I001T	Online Communication	4	25	25	50	100
Total		20	125	125	250	500

SEMESTER-IV

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
	CORE COURSES					
PGMCM4C001I	Internship and Media Product	4				100
PGMCM4C002D	Dissertation	8				200
PGMCM4C003T	Media Discourse	4	25	25	50	100
	ELECTIVE COURSE (Any one)					
PGMCM4E001T	Freelance Journalism	4	25	25	50	100
PGMCM4E002T	Film Appreciation	4	25	25	50	100
PGMCM4E003T	Television Production	4	25	25	50	100
	INTERDISCIPLINARY COURSE					
PGMCM4I001T	Media Writing	4	25	25	50	100
Total		24	100	100	200	600
Grand Total		80				2000

Encl: Approved syllabus of 1st to 2nd semester

Copy to:-

1. Head, Department of Mass Communication and New Media
2. DR (Examinations)
3. Staff Officer to VC
4. PA to Registrar

Registrar

26/10/20

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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER – I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM1C001T: Mass Communication: Concepts and Theories

Credits: 04

Total Lecture Hours: 40

Max Marks: 100

Exam Duration: 3 Hours

Course Objective

The theories and models constitute the most fundamental aspect of mass communication as an interface between normative and empirical. Communication has graduated from the simplest to the most complex form; therefore, this course brings in thorough scrutiny of prevalent theories and inculcates critical thinking in students to measure up to the reality of the world which keeps renewing itself conceptually, technologically and practically. Through the course, students will be exposed to broader contextualization of theoretical frameworks into practicability and employability.

Unit 1: Introduction to Communication

Conceptualizing Communication
History of Communication
Forms and types of Communication
Communication as Science, Social Science and Arts

Unit 2: Theories and Models of Communication

Development of Communication Models
Important models of Communication
Relationship between Models and Theories
Use of Communication theories and Models

Unit 3: Media Effects Theories

Lasswell's Chain of Communication
Agenda Setting and Social Functions of Media
Cultivation, Uses and Gratification and Two-Step Flow
McLuhan's Understanding of Media

Unit 4: Critical Theories

Hegemony, Althusser' ISA & Chomsky's Manufacturing Consent
Hall's Encoding and Decoding & Ideology of News
Benjamin's Mechanical Reproduction & Adorno's Culture Industry
William's Cultural Form & Habermas' Public Sphere

Unit 5: Semiotics and Communication

Discourse of signs and meaning
Lacan's Symbolic Order
Barthes' Image, Music and Text
Derrida's Deconstruction

Reading List:

1. Mass Communication Theory: An Introduction by Denis Mcquail
2. Mass Communication in India by Keval J. Kumar
3. Critical Terms for Media Studies by WJT Mitchell & Mark B.N. Hansen
4. Setting the Agenda: The Mass Media and Public Opinion by Maxwell McCombs
5. Critical Media Studies: An Introduction by Brian L. Ott & Robert L. Neck
6. Political Economy of Communication in India by Pradip Ninai Thomas
7. Media Studies: The Essential Resource by Sarah Casey Benyahia, Abigail Gardner, Philip Rayner & Peter Wall
8. The Basics of Communication: A relational Perspectives by Steve Duck, David T. McMahan
9. The Dynamics of Political Communication: Media & Politics in Digital Age by Richard M. Perloff
10. Key Themes in Media Theory by Dan Laughley

Anshu Kumar

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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER – I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM1C002T : Print Media: Reporting and Editing
Credits:04

Total Lecture Hours: 40

Course Objective

Considered as the 'mother' of journalism, print media is the 'nerve' of our society despite the world has undergone technological revolution with a 'claim' that print media may give way to other forms of journalism. But like always, print is flourishing and supplying news every day. For reporting and editing, we simply hark back to print. This course is set to provide students with understanding of news and skills related to news writing, reporting and editing. Also the structure of newsroom and its various functionaries are studied in this core course.

Max Marks: 100

Exam Duration: 3 Hours

Unit 1: Concept and Process of News

Evolution and definition of News
Relationship between Information and News
Elements of News and News Gathering Process
Changing Concept of News

Unit 2: News writing and Reporting

Structure of News
News writing process
Organising the News Story
Types of reporting: Based on Beats and Bureau

Unit 3: Concept and Process of Editing

Editing: Role, Objectives and Importance
Editorial values
Challenges of editing
Process of Copy Editing

Unit 4: Editing Tools and Techniques

Editing Process: News selection and Placement
Management of News flow
Editing symbols
Editorial vocabulary

Unit 5: Structure of News Room

News room, news flow and editing system
Newsroom Structures of Print, Electronic and New Media
Structure of News Bureau
Editorial functionaries

Reading List

1. The Journalists Handbook by M.V. Kamath.
2. Editing: A Handbook for the Journalist by George. T.J.S.
3. Editing for Print by Rogers, Geoffrey.
4. Subediting: A Hand book of Modern Newspaper Editing & Production by Hodgson, F.W.
5. Editing the Small Magazine by Ferguson, Rowena.
6. Elements of Style by Strunk, William (Jr.).
7. Writing by George A. Hough.
8. Reporting and Editing by Jan R. Hakemulder, Fay A.C. de Jonge and P.P. Singh.
9. Economist Style Book
10. PTI Style book

D

Archana Kumar

at Am

Basu

RL

Prashant Ali

Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER - I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM1C003T: Contemporary Issues and Concerns in Media
Credits:04
Total Lecture Hours: 40

Max Marks: 100
Exam Duration: 3 Hours

Course Objective

As a most illustrated performative text of society, media shapes much of the society. Globalisation and shrinking of the world have given new dimensions and fresh outlooks to analyse contents and functioning of media. Market and ethics are often at loggerheads with each other. How media structures and is structured, become an interesting area of critical discussion. This course is set to orient the students in the similar direction.

Unit 1: Public Opinion

Public opinion and Democracy: James Bryce and Walter Lippmann
Media culture and cultural product
Media organization, media content and effect of market
Cultural integration and cultural pollution

Unit 2: Media Ownership

Media Ownership Patterns
Concentration in Media: Duopoly, Oligopoly and Monopoly
Cross Media Holding and its regulation
Political alliance of media

Unit 3: Politics, Economics and Sociology of News

Making Sense of News, Paid news syndrome
Fragmentation of audience
Journalism: Issues and Contemporary Debates
Future of News and Journalism

Unit 4: Media, War and Conflict

Conflict: external and internal
Local, national and international media during conflict
National Media and challenges of Conflict Reporting
Peace Journalism

Unit 5: Media and Society

Human Rights and Media
Media and Gender, Religion, Culture
Media and Ecology

Reading List

1. The Society of the Spectacle by Debord, G.
2. People, Society and Mass Communications by Dexter, Lewis A. & David M White. eds..
3. Media and Cultural Studies: Keyworks by Durham, Meenakshi G and Douglas M. Kellner
4. Introduction to Communication Studies by Fiske, John.
5. Power, truth, strategy by Foucault, M.
6. Production of Culture/ Cultures of Production by Gay, P. du ed.
7. Culture, Communication and Political Economy by Golding, P and Murdock, G
8. Capitalism and Communication: Global Culture and the Economics of Information by Garnham, Nicholas.
9. Media and Conflict: Framing Issues, Making Policy, Shaping Opinions Hardcover by Eytan Gilboa (Editor).
10. Narrating The Nation: Representations in History, Media and the Arts by Ed. Stefan Berger, Linas Eriksonas, Andrew Mycock.

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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER – I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM1E004T: Effective Communication

Credits:04

Total Lecture Hours: 40

Max Marks: 100

Exam Duration: 3 Hours

Course Objective

Effective communication has been the key goal of hitherto existing society and market. From sages of ancient times to the 'Gurus' of existing socio-political scenario, good communication skills have contributed exponentially to the making of their persona. Keeping the need and aspirations of the time, this interdisciplinary course aims to equip learners with all tools and techniques of effective communication and presentation skills.

Unit I: Introduction to Communication

Concept and functions of Communication

Types and components of communication

Channels and Media of Communication

Barriers to effective communication

Unit II: Aesthetics of Oral Communication

Formal and Informal Speaking

Oral Rendition: Literary and Non-literary Text

Art of Impromptu and Group Communication

Art of Anchoring, Presentation

Unit III: Aesthetics of Written Communication

Basics of Writing: Literary and Non-literary

Writing: Reportage, Summary, Notes, Speeches

Creative Writing

Writing for speaking

Unit IV: Technology and Communication

Quark Express and Newspaper Design

Art of Photography and its components

Writing for Radio and TV

Basic Technical Skills for Radio and TV

Unit V: Digital Communication & New Media

Introduction to New Media

Understanding Text and Hypertext

Basics of Webpage Designing

Writing on Digital Platform

Reading List

1. Public Speaking by Osborn, Michael and Suzanna Osborn
2. The Art of Listening by McGregor, Graham and White. R.S
3. Human Communication -- The Basic Course by Devito A. Joseph
4. How to Speak without Fear, *Goyel Saab* by Natalie Rogers
5. Communication at Work by Alessandra. T & Hunsaker, P
6. The Conscious Communicator; making communication work in the workplace by Breanan, J
7. Peak Performance the art of Communication by Charles, K
8. Communicating for Change: connecting the workplace with the marketplace by D'Aprix, R
9. Corporate Conversations: A guide to crafting effective and appropriate internal communication by Holtz, S
10. Mastering Communication and culture: Readings in the codes of human interaction by Stanton N

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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER - I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM1F005T: Introduction to Journalism

Credits: 02

Total Lecture Hours: 30

Course Objective

This course provides the basic skeleton of mass media as an academic discipline as well as a profession. Supplemented with detailed enquiry on the workings of various media forms and their historical contexts, the course provides deeper understanding of journalism and various implications in colonial and postcolonial setting. Also, the course seeks to orient students to the practices of journalism as well as to arm them with key perspectives of journalism.

Max Marks: 50

Exam Duration: 3 Hours

Unit 1: Journalism: Concept, Purpose and Functions

- Elements of Journalism
- Normative theories of press
- Press-Freedom and Accountability
- Journalism in Changing Times

Unit 2: Types of Journalism

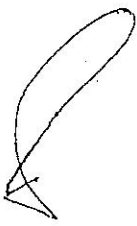
- Mainstream Journalism
- Alternative Journalism
- Citizen Journalism
- Yellow Journalism

Unit 3: History of Mass Media in India

- History and Development of News Media: Print Media, Radio, T.V
- First and Second Press Commission: Main findings
- Prominent journalists in India
- Media in Jammu and Kashmir

Reading List:

1. Journalism in India by Rangaswami Parthasarthy.
2. History of Indian Journalism by J. Natrajan.
3. India's Newspaper revolution: Capitalism, Politics and the Indian Language Press by Kumar Baghchi.
4. Colonialism and Its Forms of Knowledge: The British in India by Cohen, B.
5. Empire and Information by Bayly, C.A.
6. Imprint of the Raj: How fingerprinting was born in colonial India by Sengoopta, C.
7. Transmitters and Culture: The colonial roots of Indian broadcasting by Lelyveld D.
8. The Gramophone comes to India: Indian Music and the West by Farrell, G.
9. The Press in India: A new History by Raghavan, G.N.S.
10. Mass communication in India by Kevai J. Kumar.



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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER – I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM2C001T: Media Laws and Ethics

Credits: 04

Total Lecture Hours: 40

Max Marks: 100

Exam Duration: 3 Hours

Course Objective

Media, being the fourth pillar of democracy, follows certain basic principles in order to adhere to the norms of the society. In absence of it, media often faces an anarchic situation rupturing societal fabric therefore, it's mandatory for the media professionals to have the knowledge of laws and ethics which regulate media. This course aims to empower the future media practitioners for fearless journalism by discerning their rights and limitations as a journalist.

Unit 1: Introduction to Media Laws

Media Laws: Rational, Principles and Evolution

Normative Theories of Media Laws

Media Laws in the Age of Globalization

Media Economy and Media Laws

Unit 2: Indian Constitution: Key Features

Federal system of Governance

Fundamental Rights and Duties

Directive Principles of State Policy

Various Bodies of Democracy and Media

Unit 3: Laws and Provisions related to Journalism and Media

Freedom of Speech and Expression,

Important Acts and Laws related to Media :-

- Working Journalist Act
- Press Council Act
- Prashar Bharti Act
- IT Act

Unit 4: Media Regulation

Debates and Controversies related to Media Regulation

Regulation of Broadcast, Press and Web

State Regulation, Self-Regulation, Co-Regulation

Press Ombudsman: Readers Editor

Unit 5: Media Ethics

Principles of Ethics

Journalistic Values: Concept, Importance and Debates

Journalists Code of Conduct

Media Ethics and Role of Different Media Organizations

Reading List

1. Television in India: Satellites, Politics and Cultural Change. Ed. by Nalin Mehta.
2. Freedom of Press: Under the Indian Constitution by BR Sharma.
3. Introduction to the Constitution of India by DD Basu.
4. Makers of Modern India, Ed. by Ramachandra Guha.
5. Press Laws and Media Ethics by Anil K. Dixit.
6. Law of the Press by DD Basu.
7. The Muzzled Press by KS Padhy.
8. Journalistic Ethics by PK Menon.
9. Indian Journalism: Keeping it Clean by Alok Mehta.
10. When News was New by Terhi Rantanen.

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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER - I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM2C002T: Broadcast Journalism
Credits: 04
Total Lecture Hours: 40

Max Marks: 100
Exam Duration: 3 Hours

Course Objective

This course gives a broad overview of journalism in the electronic media. Students will learn all technical and theoretical skills to produce radio and television news stories. There is much hands-on learning, including exercises in news writing, anchoring and reporting. This fast-paced course also explores interview styles, media laws, editorial writing, and on-camera performance. With increasing number of television channels and radio stations, there is no dearth of opportunities for the new comers in this field. This course is set to prepare students to make a place for them in this exciting and glamorous field.

Unit 1: Broadcast Journalism

- Introduction to Electronic Communication
- Characteristics of Broadcast Communication
- Defining News in audio visual terms
- Grammar, Content and Techniques of audio visual Production

Unit 2: Broadcast writing

- Understanding spoken word language
- Writing Broadcast Copy
- Writing to audio & visuals
- Editing Broadcast Copy

Unit 3: Broadcast Reporting

- Field work, Beats, Specialised Reporting and Formats
- Sources, Wire Services, Distribution
- Types & Techniques of Broadcast Interviews
- Covering press conferences, press briefings, political campaigns and speeches

Unit 4: Radio News Production

- Fundamentals of sound
- AM, FM, Community Radio, Satellite Radio
- Audio Equipment & Editing Software
- Audio studio setup

Unit 5: TV News Production

- ENG and EFP
- Basics of Camera and Voice Training
- TV Equipments and Editing Software
- TV Studio Setup

Reading List

1. Making Media: Foundations of Sound and Image Production by Jan Roberts-Breslin
2. Radio Production by Mc Liesh Robert
3. Broadcast News Producing by B Schultz
4. The Art of Interviewing for Television, Radio & Film by Iry Broughton
5. Writing for Broadcast Journalists by Rick Thompson.
6. News: reporting and Writing by Alfred Lawrence Lorenz & John Vivian
7. Broadcast Journalism by Boyd Andrew
8. News production: Theory and Practice by Machin, David & Niblock, Sarah
9. Political Economy of Communication in India by Pradip Ninan Thomas
10. Television Production Handbook by Herbert Zettl.

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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER – I (As per Choice Based Credit System), Academic session:- 2015-2016)

PGMCNM2C003T: Advertising and Corporate Communication

Credits: 04

Total Lecture Hours: 40

Course Objective

- To introduce principles of advertising and corporate communication;
- To understand the relevance of advertising and CC teaching in journalism;
- To look at the symbiotic relationship of advertising, CC and media.

Max Marks: 100
Exam Duration: 3 Hours

Unit 1: Principles and major models of Advertising

Advertising as an ingredient of marketing mix

Consumer behavior, Models of advertising

Laws and ethics in advertising

Professional bodies in advertising

Unit 2: Ad agency structure and functioning

Various specialist departments' revenue models

Media neutrality – finding other forms of compensation than media commissions

Creativity remaining as the core function of ad business

Creativity process

Unit 3: Brand management

Principles of brand management

How brands have evolved from being products

Brand positioning

Media as brands

Unit 4: Corporate communication

The evolution of corporate communication – PR perspective

Organizational Communication

Role of CC in OC; Publics in CC

Various media for internal and external use

Unit 5: CC Tools and Strategies

Government relations; Advocacy

Corporate Social Responsibility

Institutional Advertising

Creating corporate identity/ corporate image management

Reading List:

1. Advertising Management by J. Jethwaney & Shruti Jain.
2. Fundamentals of Copy & Layout by Albert Book and Dennes Schiel.
3. Advertising: Concept and Copy by Felton George.
4. Advertising by Design by Landa Robin.
5. Visual Communication, Images with Messages by Lester Paul Martin.
6. Brand power by Subrouto Paul (ed).
7. Brand Positioning: Strategies for Competitive Advantage by Sengupta, Subrato.
8. The craft of copy writing by Valladares (JD).
9. Corporate Communication- Principles and Practice by Jaishri Jethwaney.
10. Corporate communication for managers by Pitman Jackson.

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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER - I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM2E004T: Media Management

Credits: 04

Total Lecture Hours: 40

Course Objective

With the changing trend in the media industry, the role of editors is being replaced by that of managers. Instead of having a manager from hardcore management background, it is better to train people for handling media with the knowledge of intricacies of media industry. It is with this objective that the course on media management has been designed with inputs from management stream. This course also deals with economics of media and regulations and recommendations against concentration in media industry.

Max Marks: 100

Exam Duration: 3 Hours

Unit I: Media Management

Concept and theories of Management

Organizational Behaviour

Human Resources in Media

Complexities of Managing Media and ethics

Unit 2: Media Economics

Overview of economics of Media industry

Economics of Scale, Economics of Scope

Budgeting in Media

Economics of Convergence

Unit 3: Media Ownership

Ownership patterns in Media

Organizational structure of Media organizations

Ownership of Media and Objectivity

Owners of various media organizations

Unit 4: Media Expansion

Cross Media Expansion and Mono Media Expansion

Horizontal and Vertical Integration

Diagonal Integration in Media

Recent Mergers and Expansion in Media Industry

Unit 5: Media Concentration and Regulations

Monopoly, Oligopoly in Media Industry

TRAI Regulations

SEBI Regulations, PCI and Editor's Guild recommendations

Various Reports on Media Concentration

Reading List:

1. Media Economics: Theory and Practice by Alexander, A. et al.
2. Media Ownership: The economics and politics of convergence and concentration in the UK and European Media by Doyel, G.
3. Understanding Media Economics by Doyel, G.
4. Media Firms: Structures, Operations and Performance by G. Picard, R. G.
5. The Culture Industry: Enlightenment as Mass Deception by Adorno, T.W. and Horkheimer, M.
6. Culture, Communication and Political Economy by Golding, P and Murdock, G.
7. McQuail's Mass Communication Theory by McQuail, Denis.
8. The Political Economy of Communication: Rethinking and Renewal by Mosco, V.
9. The Indian Media Business. Fourth Edition by Khandekar, V. Kohli.
10. A Lucknow Boy by Vinod Mehta

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Syllabus for the Master's Degree Programme in Mass Communication and New Media (MCNM)
SEMESTER – I (As per Choice Based Credit System, Academic session:- 2015-2016)

PGMCNM2F005T: New Media and Digital Journalism

Credits: 02

Max Marks: 50

Total Lecture Hours: 30

Exam Duration: 3 Hours Course Objective

This course aims to examine the impact of new digital technologies on all spheres of life and arm students with fresh perspectives on the newer role of the media. The course surveys new modes of communication which are faster, easier and cheaper. Journalism has also kept pace with such revolution and extended itself to this new digital platform in the form of convergence. This course is set to offer the techniques and skills required for new media and digital journalism.

Unit 1: Components of New media

Basic information related to computer

Basic component of network, server, work station, modem

Internet in India: development, future and challenges

Prominent news portal and search engine

Unit 2: New Media

New Media: Concept, Characteristics and Nature of medium

Digital Divide

New Media and Convergence

New Media and future of traditional Mass Media

Unit 3: Social Networking

Social Networking Sites and Journalism

Facebook, Instagram, Blogging

Social Messaging and Journalism: Twitter phenomenon

Phenomenon of Wikileaks

Reading List

1. Introduction to Information Technology by Turban, Rainer, Potter
2. Web Journalism: Practice and Promise of a New Medium by James Glenn
3. Online Journalism: Principles and Practices of News for the Web by James C. Frost.
4. Digitizing the News: Innovation in Online Newspapers.
5. Blog: Understanding the Information Reformation That's Changing the World by Hugh Hewitt.
6. Journalism in the 21st Century: Online Information, Electronic Databases and the News by Tom Koth (Adamantine Press Ltd.)
7. Introduction to Information Technology by Turban, Rainer, Potter.
8. Web Radio by Chris Priestman.
9. The Online Journalist by Randy Reddick. Elliot King. How Internet Radio Can Change the World by Eric Lee

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CENTRAL UNIVERSITY OF ANNEXURE – XVI

DEPARTMENT OF COMPUTER SCIENCE & IT

Minutes of the meeting held on 9.07.2015 in Temporary Academic Block, Central University of Jammu

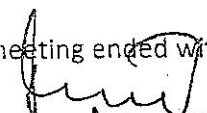
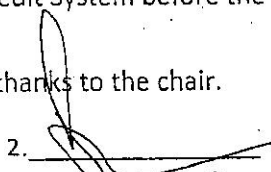


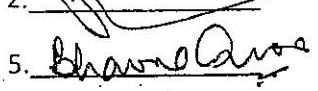

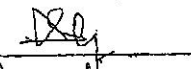
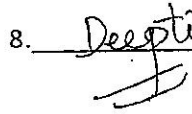
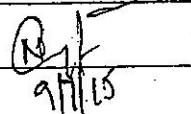
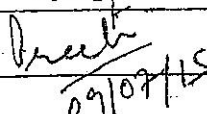
Following members were present:-

- | | | |
|---|---|----------------------|
| 1. Prof. Devanand ,Head Department of Computer Science & IT | - | Chairman |
| 2. Prof.S.D Sharma | - | Member |
| 3. Prof.Rajender Singh Chhillar | - | Member Expert |
| 4. Prof.Vinod Sharma | - | Member Expert |
| 5. Dr.Bhavna Arora | - | Member |
| 6. Er.Arvind Selwal | - | Member(Spl. Invitee) |
| 7. Mr.Neerendra Kumar | - | Member(Spl. Invitee) |
| 8. Dr.Deepti Malhotra | - | Co-opted Member |
| 9. Dr.Namita Singh | - | Co-opted Member |
| 10. Dr.Preeti Dubey | - | Co-opted Member |

The members of the committee discussed different agenda items. Following are the recommendations with respect to different agenda items:-

1. After threadbare discussion the members recommended the scheme of syllabi of integrated M.Sc. (Computer Science) - MCA Programme for the following sessions as given in Annexure 1:
 - a. 1st and 2nd semester for sessions 2015-16, 2016-17, 2017-18
 - b. 3rd and 4th semester for sessions 2016-17, 2017-18, 2018-19
 - c. 5th and 6th semester for sessions 2017-18, 2018-19, 2019-20
2. The members recommended the detailed syllabi of 1st and 2nd Semesters integrated M. Sc. (Computer Science) - MCA Programme for the session 2015-16, 2016-17, 2017-18 as given in Annexure 2.
3. The members recommended the detailed syllabi of Interdisciplinary Courses to be offered to other departments as given in Annexure 3.
4. The members of the committee authorized the Head of Department of Computer Science & IT to recommend the panel of examiners for the examination to be held in December 2015 and June 2016.
5. The committee authorized the Chairman for any necessary action urgently required to be taken with regards to Choice Based Credit System before the next Board of Studies meeting.

The meeting ended with vote of thanks to the chair.

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9/7/15 |
| 10. 
09/07/15 | | |

CENTRAL UNIVERSITY OF JAMMU
Rahya Suchani-Bagla (Distt. Samba, Jammu- 181143)

No: 4-7/MCA/CUJ/Reg/2013/943-48


Date: 2.11.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, Department of Computer Science & IT, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus of 1st semester for the Academic Session 2015-18. The approved Course Scheme and Syllabus are as under:

Semester-I

Course Code	Course Title	Credits	Total Marks
	CORE COURSES		
PGCSA1C001T	Principles of Programming Languages	4	100
PGCSA1C002T	Operating System	4	100
PGCSA1C003T	Computer Architecture & Organisation	4	100
PGCSA1C004L	Lab Based on C/C++ & Operating System	8	200
	ELECTIVE COURSES (Any one)		
PGCSA1E001T	Operations Research	4	100
PGCSA1E002T	Current Trends & Technologies	4	100
PGCSA1E003T	Web Scripting & Mark up Languages	4	100
	FOUNDATION (COMPULSORY)		
PGCSA1F001T	Mathematical Foundation of Computer Science	2	50
Total		26	650


Registrar

Encl: As above

Copy to:-

1. Dean, School of Basic and Applied Sciences
2. Head, Department of Computer Science & IT
3. DR (Examinations)
4. AR (Acad.)
5. Staff Officer to VC
6. PA to Registrar

CENTRAL UNIVERSITY OF JAMMU
Department of Computer Science & IT

Intergrated M.Sc. (Computer Science)/MCA First Semester

COURSE TITLE: Principles of Programming Languages COURSE No.: PGCSA1C001T
Duration of Exam: 3hrs Lectures: 4 hours/week
Continuous Assessment=25 Mid-term Exam.=25 End -Term Exam. = 50 Total Marks= 100

Unit-I

Preliminary Concepts: Programming domains, Language Evaluation Criteria, Language categories, Programming Paradigms – Imperative, Object Oriented, functional Programming, Logic Programming. Programming Language Implementation – Compilation and Virtual Machines, programming environments.

Unit-II

Syntax and Semantics: general Problem of describing Syntax and Semantics, formal methods of describing syntax - BNF, EBNF for common programming languages features, parse trees, ambiguous grammars, attribute grammars, denotational semantics and axiomatic semantics for common programming language features.

Unit-III

Data types: Introduction, primitive, character, user defined, array, associative, record, union, pointer and reference types, design and implementation uses related to these types. Names, Variable, concept of binding, type checking, strong typing, type compatibility, named constants, variable initialization. Expressions and Statements: Arithmetic relational and Boolean expressions, Short circuit evaluation mixed mode assignment, Assignment Statements, Control Structures – Statement Level, Compound Statements, Selection, Iteration, Unconditional Statements, guarded commands.

Unit-IV

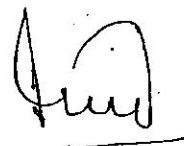
Subprograms and Blocks: Fundamentals of sub-programs, Scope and lifetime of variable, static and dynamic scope, Design issues of subprograms and operations, local referencing environments, parameter passing methods, overloaded sub-programs, generic sub-programs, parameters that are sub-program names, design issues for functions user defined overloaded operators, co routines. Abstract Data types: Abstractions and encapsulation, introductions to data abstraction, design issues.

Unit-V

Logic Programming Language: Introduction and overview of logic programming, basic elements of prolog, application of logic programming. Functional Programming Languages: Introduction, application of Functional Programming Languages and comparison of functional and imperative Languages. Scripting Language: Pragmatics, Key Concepts.

REFERENCE BOOKS:

1. Concepts of Programming Languages Robert .W. Sebesta 8/e, Pearson Education,2008.
2. Programming Language Design Concepts, D. A. Watt, Wiley dreamtech,rp-2007.
3. Programming Languages, 2nd Edition, A.B. Tucker, R.E. Noonan, TMH.
4. Programming Languages, K. C.Louden, 2nd Edition, Thomson,2003.
5. LISP, Patric Henry Winston and Paul Horn, Pearson Education.
6. Programming in Prolog, W.F. Clocksin,&C.S.Mellish, 5th Edition, Springer.



CENTRAL UNIVERSITY OF JAMMU

Department of Computer Science & IT

Intergrated M.Sc. (Computer Science)/MCA First Semester

Course Title: Operating System

Course No: **PC CSA1C002T**

Duration of Exam: 3hrs

Lectures: 4 hours/week

Continuous Assessment: 25 Mid-Term Assessment: 25 End-Term Exam: 50 Total marks: 100

UNIT – I

Introduction: Definition, Functions, Types Of operating system, Computer System Structure- operation, I/O structure, storage structure, hardware protection, Operating System Services.

Process Management: Process Concept, Process Scheduling, Operation On Processes, Cooperating Processes, Threads, Inter-Process Communication.

Process Synchronization: The Critical Section Problem, Synchronization Hardware, Semaphores, Classical Problems of Synchronization, Critical Regions.

UNIT – II

CPU Scheduling: scheduling criteria, scheduling algorithms: FCFS, SJF, priority scheduling, round robin scheduling, multilevel queue scheduling, multilevel feedback queue scheduling, multiple processor scheduling, real time scheduling.

Memory Management: Logical & Physical Address Space, Swapping, Continuous Allocation (single partition, multiple partitions), Internal, External fragmentation, Paging, Segmentation, Segmentation with Paging.

UNIT – III

Virtual Memory, Demand Paging, Performance of Demand Paging, Page Replacement: Page Replacement Algorithms- FIFO, optimal, LRU, LRU approximation algorithms, counting algorithms Thashing, Demand Segmentation.

Deadlocks: Characterization, Methods For Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery From Deadlock.

UNIT – IV

I/O Management: I/O system, I/O strategies, buffering.

File System Interface: File Concept, Access Methods-sequential, direct, index, Directory Structure-single-level, two-level, tree-structured, acyclic-graph, general graph.

File System Implementation: File System Structure, Allocation Methods-contiguous allocation, linked allocation, indexed allocation, Free Space Management, Directory Management, Directory Implementation, Efficiency and Performance.

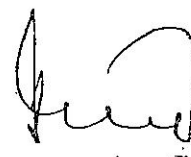
UNIT – V

Secondary Storage Structure: Disk Structure, Disk Scheduling, FCFS, SSTF, SCAN, C-SCAN, Look Scheduling, Selection of A Scheduling Algorithm, Disk Management-disk formatting, boot block, bad blocks.

LINUX/UNIX: Features of LINUX operating system, Components of LINUX, Scheduling, Process and memory management, Basic Linux commands, Overview of Shell script programming.

REFERENCE BOOKS

1. Silberschatz, Galvin, "Operating System Concepts", Addison Wesley Publishing Company, 1989.
2. William Stallings, "Operating Systems", Macmillan Publishing Company.
3. Deitel H.M., "An Introduction To Operating System", Addison Wesley Publishing Company, 1984.
4. Tanenbaum, A.S., "Modern Operating System", Prentice Hall of India.
5. Milenkovic M, "Operating system-concepts and design", McGraw Hill, International editions.



CENTRAL UNIVERSITY OF JAMMU
Department of Computer Science & IT
Intergrated M.Sc. (Computer Science)/MCA First Semester

COURSE TITLE: Computer Organization and Architecture COURSE No.: PGCSA1C003T
Duration of Exam: 3hrs Lectures: 4 hours/week
Continuous Assessment=25 Mid-term Exam.=25 End -Term Exam. = 50 Total Marks= 100

UNIT-I: Computer Architecture Vs. Computer organization, Number Systems and Boolean Algebra , Binary, octal and Hexadecimal number systems and conversion , Binary arithmetic, Binary codes , Boolean algebra , Basic operations ,Basic Theorems , Boolean functions-Canonical forms, Simplification of Boolean functions, Karnaugh's maps,

UNIT-II: Combinational Logic: Adders, subtractors, code converters, binary parallel adder, BCD adder ,magnitude comparator , encoders , decoders , multiplexers , demultiplexers, Binary Multiplier ,Parity generator and checker, overview of flip flops, counters, registers.

UNIT-III: Processor organization: RISC Vs CISC processors, Register based CPU, Accumulator based CPU, and Stack based CPU, Instruction formats, Types of instructions, Instruction execution, instruction cycle, addressing modes, Control unit design : micro programmed Vs hardwired control unit

UNIT-IV: ALU Design: Basic functions of arithmetic and logic unit, Design of Accumulator logic, Addition, Subtraction, Multiplication, Division algorithms, floating point representation IEEE786, floating point arithmetic operations, Decimal arithmetic operations.

UNIT-V: Memory Organization: Memory hierarchy, main memory, auxiliary memory, Associate memory, Cache memory, Virtual memory.

Input-Output Organization: Input-output interface – asynchronous data transfer, modes of transfer, priority interrupt, DMA, Input output processor.

REFERENCE BOOKS

1. M. Morris Mano, "Computer System Architecture", Prentice-Hall of India, Pvt. Ltd., Third edition, 2007 .
2. William Stallings "Computer Organization and Architecture", Prentice-Hall of India, Pvt. Ltd., Seventh edition, 2005.
3. Carl Hamacher, Zvonko G. Vranesic and Safwat G. Zaky, "Computer Organization", McGraw-Hill, Fifth edition, 2001.
4. John P. Hayes, "Computer Architecture and Organisation", McGraw Hill, 1998.
5. M. Morris Mano, "Digital Design", Prentice-Hall of India, Pvt. Ltd., Third edition, 2004.
6. Thomas.L. Floyd and R.P. Jain, "Digital Fundamentals", Pearson Education, Tenth edition, 2008.
7. Leach Malvino, "Digital Principles and Applications", Tata McGraw Hill, Fifth edition, 2005.



CENTRAL UNIVERSITY OF JAMMU
Department of Computer Science & IT
Intergrated M.Sc. (Computer Science)/MCA First Semester

COURSE TITLE: Operations Research COURSE No.: PGCSA1E001T
Duration of Exam: 3hrs Lectures: 4 hours/week
Continuous Assessment=25 Mid-term Exam.=25 End -Term Exam. = 50 Total Marks= 100

UNIT-I

Overview: Introduction to Operation Research, techniques, tools, phases, limitations and applications in OR.

Linear programming-I: (Graphical method) Introduction, Formulation of a linear programming problem with different types of constraints, requirements, assumptions, merits and demerits, applications of LP, Graphical analysis, Graphical solution, Multiple, unbounded solution and infeasible problems and its applications

Linear programming-II: (Simplex method (SM)) Introduction, SM with several decision variables. Two phase simplex method, M-method, multiple, unbounded solution, infeasible problems, Sensitivity and duality analysis in LP, Dual Simplex Problems.

UNIT-II

Transportation Problem (TP): Structure and formulation of TP, Procedure for TP, Methods for finding initial feasible and optimal solution, Unbalanced TP, maximization TP, degeneracy problems in TP.

Assignment Problem (AP): Approach, procedure and maximization, unbalanced assignment problems, Hungarian Method.

Project Scheduling: Network analysis concept, CPM/PERT methods for scheduling of projects.

UNIT-III

Sequencing problems: Processing n-jobs through two, three, M machines, Processing of n-jobs through M machines.

Replacement decisions: Replacement of items that deteriorate with time (with and without change in money value), Staff replacement problem.

UNIT-IV

Integer and dynamic programming: Integer programming, formulation techniques, unimodularity, cutting plane method, branch and bound method.

UNIT-V

Dynamic programming: Methodology and its programming applications.

Game Theory: Basic terminology, solution methods of pure and mixed strategy games, principle of dominance, limitations.

REFERENCE BOOKS:

1. V K KAPOOR, Operations Research, Techniques for Management, Edition 7, Publishers: Sultan Chand and sons, 2004.
2. S S Rao optimization theory and applications, Wiley Eastern Ltd., New Delhi.
3. S.D.Sharma: Operations research, Kedar nath, Ram Nath & co.
4. H.A.Taha, Operations Research-An introduction, Macmillan Publishing co.inc.New york
5. Kanti Swarup, P K Gupta and Man Mohan, Operations Research, Sultan chand and sons, New Delhi.
6. Prem Kumar.Gupta and D.S, Hira, Operations Research-An introduction, S.Chand and Company Ltd, New Delhi.



CENTRAL UNIVERSITY OF JAMMU
Department of Computer Science & IT

Intergrated M.Sc. (Computer Science)/MCA First Semester

COURSE TITLE: Current Trends & Technologies

COURSE No.: PGCSA1E002T

Duration of Exam:

Lectures: 4 hours/week

Continuous Assessment=25 Mid-term Exam.=25 End -Term Exam. = 50 Total Marks= 100

UNIT-I

Networks-Current computing scenarios, Peer to Peer Computing, Utility computing, cloud computing- definition, private, public and hybrid cloud, benefits and challenges of cloud computing. Grid Computing- definition, formation of grid, advantages and challenges of grid computing.

UNIT-II

Data Analytics-Introduction, RDBMS, Big Data, Current challenges, technologies supporting big data, HADOOP, HADOOP Vs RDBMS, Data warehouse, data mart, OLTP Vs OLAP ,trends and applications of BIG data.

UNIT-III

Green Computing-Introduction, Environment drivers & IT, New model IT challenges, Green devices, Green suppliers, Green servers and data centres, Saving energy, cost saving, risk reduction through energy savings, Energy needs of IT, Saving energy and the supply chain, Selling energy saving s, Green computing and future sustainability.

UNIT-IV

E-Technologies-E-services-Definition, importance and domain, E-commerce-introduction & types, Electronic Payment Systems- Digital cash, smart cards, credit cards, debit cards, digital wallets. Electronic Data Interchange (EDI)-Concepts, application, issues-legal, privacy & security

UNIT-V

Digital India-Introduction, Vision, National e-governance, National Informatics Centres and roles, Challenges before Digital India, Digital divide, 9 pillars of Digital India-Broadband Highways, Universal Access to Phones, Public Internet Access Programme-National Rural Internet Mission, e-Governance – Reforming government through Technology, e-Kranti – Electronic delivery of services, Information for All, Electronics Manufacturing ,IT for Jobs, Early Harvest Programmes. Estimated costs and impacts

REFERENCE BOOKS:

1. Foster, I. and Kesselman, C. (eds.). The Grid: Blueprint for a New Computing Infrastructure. Morgan Kaufmann Publishers, (1999).
2. The Complete Cornerstone Guide to Cloud Computing Best Practices, Second Edition, Gerard Blokdiijk, Ivanka Menken by Emereo Pty Ltd, 2009
3. Cloud Computing: A practical Approach Anthony Velte, Toby Velte and Robert Elsenpeter by Tata McGrawHill
4. Bharat Bhaskar, Electronic Commerce – Framework Technologies and Applications, Tata McGraw Hill.
5. Ravi Kalakota & A.B. Whinston, Frontiers of Electronic Commerce, Pearson Education.
6. Ravi Kalakota & A.B. Whinston, Electronic Commerce – A Manager's Guide, Pearson Education.
7. Vijay Srinivas Agneeswaran- Big Data Analytics beyond Hadoop
8. V.Rajaraman, Fundamentals of Computers,Fifth edition,PHI

Integrated M.Sc.(Computer Science)- MCA Programme

CENTRAL UNIVERSITY OF JAMMU
Department of Computer Science & IT
Intergrated M.Sc. (Computer Science)/MCA First Semester

COURSE TITLE: Web Scripting & Mark-up Languages COURSE No.: PCCSA1E003T
Duration of Exam: Lectures: 4 hours/week
Continuous Assessment=25 Mid-term Exam.=25 End -Term Exam. = 50 Total Marks= 100

Unit I: Introduction:
Introduction to web, protocols governing the web, web development strategies, Web applications, web project, web team.

Unit II: Web Page Designing:
HTML: list, table, images, frames, forms, CSS;
XML: DTD, XML schemes, presenting and using XML

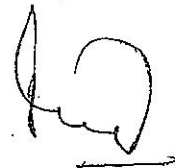
Unit III: Scripting:
Java script: Introduction, documents, forms, statements, functions, objects; event and event handling; introduction to AJAX, VB Script

Unit IV: Server Site Programming:
Introduction to active server pages (ASP), ASP.NET, java server pages (JSP), JSP application design, tomcat server, JSP objects, declaring variables, and methods, debugging, sharing data between JSP pages, Session, Application: data base action, development of java beans in JSP, introduction to COM/DCOM.

Unit V: PHP (Hypertext Preprocessor):
Introduction, syntax, variables, strings, operators, if-else, loop, switch, array, function, form, mail, file upload, session, error, exception, filter, PHP-ODBC.

REFERENCE BOOKS:

1. Xavier, C, " Web Technology and Design", New Age International
2. Ivan Bayross, " HTML, DHTML, Java Script, Perl & CGI", BPB Publication.
3. Ramesh Bangia, "Internet and Web Design", New Age International.
4. Bhave, "Programming with Java", Pearson Education
5. Ullman, "PHP for the Web: Visual QuickStartGuide", Pearson Education
6. Deitel, "Java for programmers", Pearson Education



CENTRAL UNIVERSITY OF JAMMU
Department of Computer Science & IT
Intergrated M.Sc. (Computer Science)/MCA First Semester

COURSE TITLE: Mathematical Foundation Of Computer Science

COURSE No.: PCCSA1F001T
Lectures: 2 hours/week

Duration of Exam:

Continuous Assessment=25 Mid-term Exam.=25 End -Term Exam. = 50 Total Marks= 50

UNIT - I

Sets, Relations and Functions: Definition of Sets and Subsets; Intersection, Union and Complements, Demorgan's Law; Cardinality; Relations - Equivalence relation etc. Mapping One-one Onto etc. Groups, Rings, Fields. Homomorphism and isomorphism

UNIT - II

Vectors and Matrices: Definition of Vector, Types of Vectors, Vector Arithmetic, Laws of vector, Collinear vectors, Coplanar vectors, Vector products, Orthogonal and Orthonormal vectors, Scalar and Vector Projection.

REFERENCES BOOKS:

1. Modern Algebra by Prof. M.R. Puri and Dr. Raj Krishan Publisher: Malhotra Brothers
2. Trembley, J.P. and Manohar, R.P.: Discrete Mathematical Structures with Applications to Computer Science. McGraw-Hill.
3. Lew: Computer Science: A Mathematical Introduction, Prentice - Hall International (Paperback Edition).
4. Kenneth. H. Rosen: Discrete mathematics and its applications 3rd Edition, McGraw Hill international edition.
5. Algebraic Number Theory by Serge. Lang, Springer; 2nd edition.
6. Elements of Vector Algebra by B.L. Raina Publisher: Malhotra Brothers
7. Vector Algebra by R. Gupta Publisher: Laxmi Publishers (P) Ltd.



UNIVERSITY OF JAMMU
Bagla (Rahya Suchani) Distt. Samba, Jammu- 181143

No: 4-11/NSS/CUJ/Reg/2013/Acad/767/775

ANNEXURE - XVII

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Board of Studies, National Security Studies, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus of 1st semester, Master's in National Security Studies and 1st semester of Integrated M.Phil-Ph.D Programme for the Academic Session 2015-16. The approved Course Scheme is as follows:

Master's in National Security Studies (SEMESTER-I)

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Mark
	CORE COURSES:					
PGNSS1C001T	India's Foreign Policy	4	25	25	50	100
PGNSS1C002T	Disaster Management and National Security	4	25	25	50	100
PGNSS1C003T	Disarmament and Peace Studies	4	25	25	50	100
	FOUNDATION COURSE					
PGNSS1F004T	Introduction to International Relations	4	25	25	50	100
PGNSS1F005T	Communication Skills Development (ELECTIVE)	2	25	25	50	100
Total		18				500

INTEGRATED M.PHIL-PH.D PROGRAMME (SEMESTER-I)

Course Code	Course Title	Credit	Teaching hours	Field work/Tutorial/Teacher-led activity hours	End Semester Exam	Total Marks
MPNSS1C001T	Research Methods in Security Studies	5	50	25	75	100
MPNSS1C002T	Theories of Security and Security Paradigms	5	50	25	75	100
MPNSS1C003T	Terrorism and Global Security	5	50	25	75	100
MPNSS1C004T	Conflict and Cooperation in South Asia	5	50	25	75	100
Total		20				400

Encl: Approved syllabus

Copy to:-

1. Dean, School of National Security Studies
2. Head, Department of National Security Studies
3. DR (Examinations)
4. PS to VC

Annexure Page: 306

Registrar
24/1/15

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Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II as the case may be

MPNSS1C001T - RESEARCH METHODS IN SECURITY STUDIES

Course objective

- Assist students to better understand the structure of the scientific method and the fundamentals of research design.
- Facilitate students to develop empirical research designs, and formulate and test hypotheses by using scientific techniques
- Enable students to become more informed "critics" of social science and security studies literature.

Course Contents

Unit – I Introduction

- Basic assumptions of social science – theoretical and empirical research
- Conceptual foundations of research – concepts, definitions, logic, theory and models
- Basic elements of research in security studies – statement of research problems, unit of analysis, variables and hypotheses and information sources

Unit –II Qualitative Research Methods in Security Studies

- Historical research in security studies
- Case Studies and Comparative Case Studies
- Interviews and Fieldwork & Data Collection

Unit–III Basic Quantitative Research Methods

- Introduction to statistics – descriptive and inferential; Statistical decision theory
- Definition of probability; conditional probability: independent & dependent events.
- Internet survey and social media analysis

Unit– IV Methodological Critique in Security Studies

- Postmodernism – scientific knowledge vs. Narrative knowledge
 - Post-structuralism – new approaches in security studies
 - Critical security studies
- Aa - -

Unit– V Thesis Writing in Security Studies

- Model synopsis – research proposal, review of literature and formulation of hypotheses
- Research design, Analytical techniques and Data gathering, analysis and presentation
- Research ethics – professional codes of ethics

Suggested Readings:

1. Carl G. Hempel; Paul Oppenheim (1948), "Studies in the Logic of Explanation", Philosophy of Science, Vol. 15, No. 2, pp. 135-175
2. Clive Seale (2008), Social Research Methods: A Reader, Routledge: London
3. Daniel M. Jones, Stuart A. Bremer and David J. Singer (1996), "Military Disputes 1816-1992: Rationale, Coding Rules, and Empirical Applications", Conflict Management and Peace Science, 15:163-213
4. Frankfort-Nachmias, Chava and David Nachmias (1996), Research Methods in Social Sciences, St.Martin's Press: New York
5. John Gerring (2004), "What Is A Case Study and What is it Good for?", American Political Science Review, Vol.98, No.2, pp.341-354

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Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II as the case may be

M PNSS10027-THEORIES OF SECURITY & SECURITY PARADIGMS

Course objective

- To familiarise students with various theoretical perspectives on security studies
- To introduce students to various security paradigms evolved in the recent past
- To facilitate students to develop theoretical understanding on security issues

Course Contents

Unit – I The Philosophical Foundation of Security Studies

- Machiavelli
- Kautalya & Sun Tsu
- Thucydides

Unit –II The First Great Debate (Pre-war period)

- Classic Realism Vs. Utopianism/Idealism
- Humanist Approach – Erasmus, Gandhi and Tolstoy
- Conservatism Vs. Liberalism

Unit–III The Second Great Debate (Post-war period)

- Traditionalism Vs. Scientism (Behaviourism)
- Neo-Realism and its variants – Offensive, Defensive, and hegemonic realism
- Rationalism in Security Studies

Unit-IV The Contemporary Debate

- Institutionalism Vs. Pluralism
- Neo-liberalism Vs. Neo-realism(structural realism)
- Methodological Individualism

Unit– V Critical Theory on Security Studies

- Post-modernism –critiques on security studies
- post-structuralism and the notion of security
- Feminism –Role of gender (women) in peace and conflict studies

Suggested Readings

1. Geoffrey Blainey (1973), "The Causes of War", New York: Free Press
2. Walt, Stephen, "Alliance Formation and the Balance of Power", *International Security*, 9(1985):3- 43.
3. Walt, Stephen, "The Renaissance of Security Studies", *International Studies Quarterly*, (1991):35-51.
4. Hans J. Morgenthau, (1948), "Politics Among Nations", New York: Knopf
5. Earle, Edward Mead (1943), *Makers of Modern Strategy: Military Thought From Machiavelli to Hitler*, Princeton University Press: New York
6. Williams, Paul D (2012), "Security Studies: An Introduction", London: Routledge

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Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II as the case may be

MPNSS16 003T TERRORISM AND GLOBAL SECURITY

Course objective

- To understand Concept, Causes and effect of global terrorism
- Educate the functioning of major international terrorist organisation and global counter terrorism measures
- Analyse of terrorism as a major challenge for national and international security

Course Contents

Unit – I An Introduction to Terrorism

- Terrorism – Meaning, Definitions & Concept
- Types of Terrorism - State Sponsored Terrorism, Cross Border Terrorism, Homegrown Terrorism, Political Terrorism
- Ideological perspectives and Main Causes of Terrorism (psychology, economy, culture etc.)

Unit –II Terrorism Around the Globe

- Terrorism in Asia (India, Neighbouring Nations and East Asia)
- Terrorism in West and Central Asia
- Terrorism in Europe and Africa
- Terrorism in North and South America

Unit –III Global Terrorist Organisations

- Major Terrorist Organisations at Global Level
- Main Aims and Objectives of Terrorist Groups
- Strategies Adopted by these Groups
- Strength and Activities of Terrorist Organisations

Unit – IV Global Response to Terrorism

- Role of International Organisations – United Nations, SAARC and others
 - Bi/Multi-lateral Collaboration in counter terrorism
 - Role of Media
 - Role of Non-Governmental Organisations
- 12

Unit – V Approaches to Terrorism Research

- Terrorism and other form of violence
- Challenges on Terrorism Research (Bias-Unbiased views)
- Potential future trend of Global terrorism
- Exercise/presentation

Suggested Readings:

1. Aubrey, Stefan M. (2004), *The New Dimension of International Terrorism*, Zurich: VDF
2. Bhatt, Ashok (2007), *Global Terrorism*, New Delhi: Lotus Press
3. Freeman, Michael (2013), *Financing Terrorism: Case Studies*, New Delhi: Ashgate Publications
4. Kaur, Kulwant (2005), *Global Terrorism: Issues, Dimensions and Options*, New Delhi: Kanishka Publishers
5. Kay, Sean (2009), *Global Security in the Twenty First Century: The Quest for the Search for Peace*, USA: Rowman & Littlefield Publishers
6. Lutz, James M., Lutz, Branda J. (2013), *Global Terrorism*, New York: Rutledge

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Syllabus-Integrated M.Phil/Ph.D Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II as the case may be

MPNSS1C004T-CONFLICT AND COOPERATION IN SOUTH ASIA

Course objective

- To introduce students to the geo-political and geo-strategic significance of South Asia
- To teach students about the characteristics and challenges of peace and security in South Asia
- To enable students to analyse the prospects of cooperation in South Asia

Course Contents

Unit I - South Asia- An Introduction

- Geo-Strategic and Geo-Political Significance of the Region
- Characteristics of South Asia
- Contemporary Security Perspectives in South Asia

Unit II - Security Challenges in South Asia

- Causes and Course of Migration in South Asia
- Proliferation of Small Arms in South Asian Countries
- Energy Security in South Asia - Issues and Concerns

Unit III – Role of Non State Actors in South Asia

- Threats of Non State Actors to South Asian security – Ethnic Conflict and Insurgency
- Terrorism – Cross Border Terrorism and Nuclear, Chemical and Biological Terrorism
- Counter Measures to variety of Threats in South Asia

Unit IV - Cooperation in South Asia

- Role of Confidence Building Measures in South Asia
- Political, Economic and Security Cooperation in South Asia
- Concept, Genesis of SAARC – Prospects and Challenges

Unit V - Nuclear Security Issues in South Asia

- Nuclear Proliferation in South Asia
- Nuclear Deterrence and Non Proliferation Treaty (NPT)
- South Asia as a Nuclear Peace Zone

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Suggested Readings:

1. P. R. Chari, Sonika Gupta (ed.), (2003), "Nuclear Stability in Southern Asia", New Delhi: Manas Publication
2. Partha S. Ghosh (1989), "Cooperation and Conflict in South Asia", New Delhi: Manohar Publications
3. Eric Gonsalves & Nancy Jetly, (1999), "The Dynamics of South Asia- Regional Cooperation and SAARC", New Delhi: Sage Publication
4. B. M. Jain, (1998), "South Asian Security Problems and Perspectives", Jaipur: Shree Publications
5. S. D. Muni & Anuradha Muni, (1984), "Regional Cooperation in South Asia", New Delhi: Sage Publication
6. Jasjit Singh, (1999), "Asian Security in the 21st Century", New Delhi: Knowledge World.

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Syllabus-Master Degree Programme in National Security Studies
For the Academic Year -2015-16, 2016-17, 2017-18
Semester-I, II, III or IV as the case may be

~~PG NIS 1F505T~~ - Communication Skills Development

Course objective

- To enable students to comprehend the concept of Communication
- To Enable students to build a repertoire of functional vocabulary
- To train students to summon words, phrase relevant to the immediate communication skills
- To train students in basic computer knowledge, this provides essential skills for the user to get adapted to any work environment.

Course Contents

Unit – I English Language Skills

- Simple Grammar, Nouns, Gender, Singular, Plural, Vocabulary, Phrase, Clause, Sentence, Tenses
- Spoken English Skills, Greeting, Self Introduction, Skills In Reading
- Writing Skills, Listening Skills, Conversation Skills

Unit –II Academic Communication Development Skills

- E-Mail-Reading And Writing, Letter and report Writing,
- Body Language, Verbal and Non Verbal Communication
- Public Speaking, Interpersonal, Interactive and Presentation Skills

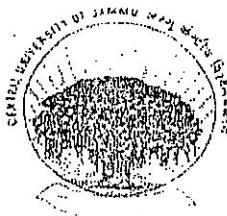
Unit –III Basic Computing Skills

- Introduction to Computers-Classification of Computers, Role of Computers in Society and Security
- Inside Computers- Software (Processing, memory) and Hard Ware (CPU, OS, DOS, Windows)
- Word Processing, File Management, Spread Sheets, Networks, Presentations, Data Base.

Suggested Readings:

1. Sasikumar.V and P.V. Dhamija. (1993). *Spoken English: A Self-Learning Guide to Conversation Practice*. 34th Reprint. Tata McGraw-Hill. New Delhi
2. V. Syamala, (2002). *Effective English Communication for you*. Emerald Publisher Chennai.
3. Hewings, Martin. 1999. *Advanced English Grammar: A Self-Study Reference and Practice Book for South Asian Students*. Reprint 2003. Cambridge University Press New Delhi
4. *Introduction to Computers* – Peter Norton, Tata McGraw Hill
5. Microsoft (2003) – Jennifer Ackerman Kettell, Guy Hat-Davis, Curt Simmons, Tata McGraw Hill

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Central University of Jammu

Bagla (Rahya-Sucheni), Dist
Jammu, J&K - 181143

ANNEXURE - XVIII

No. CUJ/Exam/Conduct-May15/1623-1635

Dated: 24/07/2015

NOTIFICATION

It is hereby notified for the information of all concerned that the Vice-Chancellor is pleased to approve the following remuneration rates, in anticipation of approval of competent authority w.e.f Academic Session 2015-16 as under:-

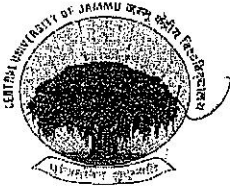
S.No	Examination	Remuneration
1	Paper Setting for End-Semester Examination of PG Courses	Rs 2000/- per question paper plus contingent expenses of Rs 100/-
2	PG Viva Voce Examination	Rs 250/- per candidate (subject to minimum Rs 2000/- for a programme of study)
3	PG: Project Report / Training Report/Field Work Report/ Community Lab Report	Rs 250/- per candidate (subject to minimum Rs 2000/- for a programme of study)
4	M.Phil Thesis Evaluation	Rs 2500/- Per Thesis
5	M.Phil Viva Voce Examination	Rs 1000/- Per Candidate
6	Ph.D Thesis Evaluation	Rs 5000/- Per Thesis
7	Ph.D Viva Voce Examination	Rs 2500/- Per Candidate

Registrar

24/7/15

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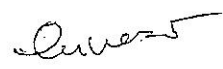
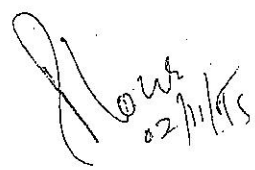
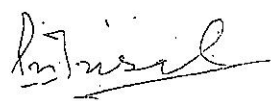

1. All Deans of Schools
2. All Heads of Departments
3. OSD (Finance)
4. Academic Coordinator
5. All Deputy Registrars/Assistant Registrars
6. Staff Officer to Vice-Chancellor
7. Concerned File



Department of Hindi

Central University of Jammu

The first meeting of Adhoc Board of studies of the Department of Hindi was held on 02.11.2015. The following members were available in the meeting:-

			Signature
1.	Prof. Lokesh Verma Academic Coordinator	Convenor	
2.	Prof. Parvinder Kour HOD(Hindi) University of Jammu	Member	
3.	Prof. P.N Trisal Central University of Jammu	Member	
4.	Prof. Raj Kumar Central University of Jammu	Member	

Resolutions:

The following decisions were taken by the Adhoc Board of Studies.

1. The detailed syllabi of the 1st Semester is approved.
2. The courses of scheme as per CBCS pattern has also been approved.
3. The changes in the courses code as per the CBCS pattern adopted by the Central University of Jammu have been incorporated in the syllabi.
4. The meeting ended with the board of thanks to the chair.

CENTRAL UNIVERSITY OF JAMMU

Rahya Suchani-Bagla (Distt. Samba, Jammu- 181143)

No: 4-5/2014/Hindi Anubhag/955-60

Date: 03.11.2015

Notification

It is hereby notified for the information of all concerned that, on the recommendations of the Adhoc Board of Studies, Department of Hindi, the Vice Chancellor, in anticipation of the approval of the Academic Council, has approved the Course Scheme and Syllabus of 1st semester for the Academic Session 2015-16. The approved Course Scheme and Syllabus are as under:

SEMESTER-I

Course Code	Course Title	Credit	CIA	MSE	ESE	Total Marks
CORE COURSES						
PGHND1C001T	हिंदी साहित्य का इतिहास History of Hindi Literature	4	25	25	50	100
PGHND1C002T	प्राचीन और मध्यकालीन हिंदी काव्य Ancient and Medieval Hindi Poetry	4	25	25	50	100
PGHND1C003T	हिंदी कहानी Hindi Stories	4	25	25	50	100
ELECTIVE COURSE						
PGHND1E001T	हिंदी निबंध और अन्य गद्य विधाएँ Hindi Essay and Other Prose Form	4	25	25	50	100
FOUNDATION COURSE						
PGHND1F001T	अनुवाद सिद्धांत एवं प्रयोग Translation Theory and Practice	2	25	25	50	100
Total		18				500


Registrar
et

Encl: As above

Copy to:-

1. I/c Head, Department of Hindi
2. DR (Examinations)
3. AR (Acad.)
4. Staff Officer to VC
5. PA to Registrar

पाठ्यक्रम
PGHND1C001T (CC),
हिंदी साहित्य का इतिहास (History of Hindi Literature)

Credit- 4

Unit-I

- साहित्य के इतिहास की अवधारणा
- इतिहास लेखन की पद्धतियाँ
- हिंदी साहित्येहास लेखन की परम्परा
- प्रमुख इतिहासकार और उनके ग्रन्थ

Unit-II

- आदिकालीन साहित्य की पृष्ठभूमि, काल विभाजन, नामकरण
- प्रमुख कवि एवं उनके काव्य
- भक्तिकाल के उदय की सामाजिक एवं सांस्कृतिक पृष्ठभूमि, भक्ति-आंदोलन
- भक्तिकाल के प्रमुख कवि एवं उनके काव्य (निर्गुण काव्यधारा, संगुणकाव्य धारा)

Unit-III

- रीतिकालीन साहित्य की पृष्ठभूमि
- रीतिकाल के प्रमुख कवि एवं उनके काव्य
- हिंदी गद्य का उदय और विकास
- 1857 का संघर्ष एवं नवजागरण सम्बन्धी बहस

Unit – IV

- भारतेन्दु हरिश्चन्द्र एवं भारतेन्दुकालीन साहित्य की विशेषताएँ
- भारतेन्दु के प्रमुख रचनाकार एवं उनकी रचनाएँ
- हिंदी में गद्य विधाओं का विकास

Unit- V

- द्विवेदीयुगीन साहित्य की विशेषताएँ
- राष्ट्रीय स्वाधीनता आन्दोलन और हिंदी साहित्य
- छायावाद, प्रगतिवाद, प्रयोगवाद एवं समकालीन हिंदी साहित्य

अनुमोदित ग्रंथ :-

- | | | |
|-----------------------------------|---|---|
| 1. डॉ. नगेंद्र (सं) | : | हिंदी साहित्य का इतिहास |
| 2. रामचंद्र शुक्ल | : | हिंदी साहित्य का इतिहास |
| 3. हजारी प्रसाद द्विवेदी | : | हिंदी साहित्य का उद्भव और विकास |
| 4. रामस्वरूप चतुर्वेदी | : | हिंदी साहित्य और संवेदना का विकास |
| 5. विश्वनाथ त्रिपाठी | : | हिंदी साहित्य का संक्षिप्त इतिहास |
| 6. मैनेजर पांडेय | : | साहित्य और इतिहास दृष्टि |
| 7. बच्चन सिंह | : | हिंदी साहित्य का दूसरा इतिहास |
| 8. देवेंद्र चौबे (सं) | : | साहित्य का नया सौंदर्यशास्त्र |
| 9- दीपक कुमार, देवेंद्र चौबे (सं) | : | हाशिये का वृत्तांत (स्त्री, दलित और आदिवासी समाज का इतिहास) |
| 10- दरियागंज | : | हिंदी साहित्य का इतिहास |

पाठ्यक्रम
PGHND1C002T (CC),
प्राचीन एवं मध्यकालीन काव्य
(Ancient & Medieval Poetry)
Credit - 4

Unit I

- पद्मावती समय पद्मावती समय का काव्य सौंदर्य, (पृथ्वीराज रासो) चन्द्रवरदाई पहले 20 पद, पृथ्वी राज रासो की प्रामाणिकता,
- नखशिख - विद्यापति, विद्यापति पदावली का काव्य सौष्ठव (नख-शिख पर आधारित) (संपादक रामवृक्ष बेनीपुरी) पहले 10 पद,

Unit II

- सिंहलद्वीप वर्णन खंड (जायसी ग्रंथावली) सम्पादक आचार्य रामचन्द्र शुक्ल, भक्ति आंदोलन का उदय, संत काव्य की विशेषताएँ, सूफी प्रेमख्यानक काव्य परम्परा,
- कबीर- (सम्पादक हजारी प्रसाद द्विवेदी) 175 से 190 पद (केवल 15 पद) पद्मावत: अन्योक्ति अथवा समासोक्ति, कबीर का रहस्यवाद

Unit III

- भ्रमरगीत सार - चूरदास (सम्पादक रामचन्द्र शुक्ल) 21 से 30 (केवल 10 पद) भ्रमरगीत परम्परा, गोपियों का विरह- निरूपण,
- मीरा पदावली - पहले 20 पद, कृष्णभक्ति में सूर/ मीरा का स्थान

Unit IV

- विनय पत्रिका - तुलसीदास (गीता प्रेस गोरखपुर द्वारा प्रकाशित) 71 से 80 केवल 10 पद, विनय पत्रिका में दास्य भाव, तुलसी की लोकमंगल भावना
- सीता स्वयंवर (संक्षिप्त रामचन्द्रिका) केशवदास (सं० जगन्नाथ तिवारी) पहले 20 पद, रामचन्द्रिका में संवाद योजना, केशव कठिन काव्य के प्रेत ।

Unit V

- बिहारी सार्धशती - (सम्पादक डॉ. ओम प्रकाश-राजपाल एण्ड सन्ज प्रकाशन) 30 से 49 तक - 20 पद, बिहारी की काव्य-कला, बिहारी का संयोग/वियोग वर्णन,
- घनानंद कवित - सम्पादक विश्वनाथ मिश्र पहले 15 पद, घनानंद के रीतिमुक्तधारा के प्रतिनिधि, घनानंद की काव्य कला

नोट:- इस पाठ्यक्रम से निर्धारित पाठ्यांश की व्याख्या और काव्य-सौन्दर्य के साथ-साथ कवि की समालोचना भी अपेक्षित है।

How
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Quora

पुस्तकें:-

- 1- पृथ्वीराज रासो - डॉ. माताप्रसाद गुप्त
- 2- पृथ्वीराज रासो - हजारी प्रसाद द्विवेदी
- 3- पद्मावत-वासुदेव शरण अग्रवाल (सं०)
- 4- पद्मावत-माता प्रसाद गुप्त
- 5- तुलसी काव्य मीमांसा - डॉ. उदयभानु सिंह
- 6- कबीर - हजारी प्रसाद द्विवेदी
- 7- हिन्दी काव्य में निर्गुण सम्प्रदाय - पीताम्बरदत्त बड़थवाल
- 8- विद्यापति - शिवप्रसाद सिंह
- 9- सूरदास - डॉ. मैनेजर पाण्डेय
- 10- हिन्दी के प्राचीन प्रतिनिधि कवि - द्वारिका प्रसाद सक्सेना
- 11- सूरदास - नन्ददुलारे वाजपेयी
- 12- बिहारी का नया मूल्यांकन - बच्चन सिंह
- 13- बिहारी सतसई की सांस्कृतिक अध्ययन - पदमसिंह शर्मा
- 14- घनानंद की काव्य कला - विजयपाल सिंह
- 15- घनानंद - डॉ. गणेश दत्त सारस्वत
- 16- केशव की काव्य कला-विजयपाल सिंह
- 17- केशव की काव्य कला - कृष्ण शंकर शुक्ल
- 18- मीराबाई और उनकी पदावली - देशराज सिंह भाटी
- 19- मीरा, जीवनी और काव्य, महावीर सिंह गहलोत
- 20- कृष्ण काव्य की सौंदर्य चेतना, संजय प्रकाशन, दरियागंज

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पाठ्यक्रम
PGHND1C003T (CC)
हिन्दी कहानी
(Hindi Short Stories) Credit- 4

Unit-I

- कहानी की अवधारणा
- हिन्दी कहानी का विकास
- कहानी आंदोलन
- हिन्दी कहानी की मुख्य प्रवृत्तियाँ

Unit-II

- चन्द्रधर शर्मा गुलेरी - उसने कहा था
- प्रेमचन्द - कफन
- जयशंकर प्रसाद - आकाशदीप
- विश्वंभर नाथ शर्मा कौशिक - ताई

Unit-III

- जैनेन्द्र - पाजेब
- अज्ञेय - शरणदाता
- अमृतलाल नागर - शकीला की माँ
- फणीश्वर नाथ रेणु - तीसरी कसम

Unit-IV

- निर्मल वर्मा - परिन्दे
- भीष्म साहनी - चीफ की दावत
- कृष्णा सोबती - बादलों के घेरे में
- ज्ञानरंजन - पिता

Unit-V

- मन्मू भण्डारी - त्रिशंकु
- उदय प्रकाश - तिरिछ
- ओम प्रकाश वाल्मीकी : सलाम
- सजीव : दुनिया की सबसे हसीन औरत

अनुमोदित ग्रंथ :

- 1- देवीशंकर अवस्थी : नयी कहानी - संदर्भ और प्रकृति
- 2- नाम्बर सिंह : कहानी नई कहानी
- 3- विश्वनाथ त्रिपाठी : कुछ कहानियाँ, कुछ विचार
- 4- मधुरेश : सिलसिला
- 5- मार्कण्डेय : कहानी की बात
- 6- देवेश ठाकुर : हिंदी की पहली कहानी
- 7- डॉ. राजकुमार : शिवालिक क्षेत्र में हिंदी कहानी का उद्भव और विकास
- 8- जैनेन्द्र कुमार : कहानी - अनुभव और शिल्प
- 9- देवेन्द्र चौबे : समकालीन कहानी का समाजशास्त्र।

Ans

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हिन्दी निबन्ध एवं अन्य विधाएँ
(Hindi Essay & Other Prose Forms)
(पाठ्य क्रम)

Unit-I

- हिन्दी-निबन्ध, आत्मकथा, जीवनी, संस्मरण, रेखाचित्र, रिपोर्टाज एवं यात्रा वृत्तान्त की अवधारणा एवं विकास।

Unit-II

- प्रो. पूर्णसिंह - आचरण की सभ्यता ^{पुत्र} मित्रता
- आचार्य रामचन्द्र शुक्ल- भाव ^{मनोविकार} श्रद्धा भक्ति

Unit-III

- हजारी प्रसाद द्विवेदी - नाखून क्यों बढ़ते हैं, कुटुंब
- विद्यानिवास मिश्र - मेरे राम का मुकुट भीग रहा है, यमुना के तीरे तीरे

Unit-IV

- महादेवी वर्मा - स्मृति की रेखाएँ - घीसा, बिन्दो
- राहुल सांकृत्यायन - अथातो घुम्मकडु जिज्ञासा

Unit-V

- अमृतराय - ^{फैलाने} कलम का सिपाही
- फणीश्वर नाथ रेणु- ऋण जल धन जल

अनुमोदित ग्रंथ :

- 1- हिन्दी निबन्धकार - जयनाथ नलिन
- 2- निबन्धकार आचार्य रामचन्द्र शुक्ल
- 3- कामायनी : एक अध्ययन - डॉ. नगेन्द्र
- 4- कामायनी एक पुनर्विचार - मुक्तिबोध
- 5- कामायनी मूल्यांकन और मूल्यांकन - इन्द्रनाथ मदान
- 6- प्रसाद का काव्य : प्रेमशंकर,
- 7- महादेवी वर्मा : नया मूल्यांकन, डॉ. गणपतिचन्द्र गुप्त
- 8- महादेवी साहित्य : एक नया दृष्टिकोण - पदमसिंह चौधरी
- 9- महादेवी का काव्य : एक विश्लेषण - डॉ. दुर्गाशंकर मिश्र
- 10- हिन्दी का गद्य साहित्य - रामचन्द्र तिवारी
- 11- हिन्दी गद्य शैली का विकास - जगन्नाथ
- 12- छायावादोत्तर हिन्दी गद्य साहित्य - विश्वनाथ प्रसाद तिवारी

पाठ्यक्रम
PGHND1E001T (FC)
अनुवाद सिद्धांत एवं प्रयोग - Theory and Practice,
(Credit - 2)

1. अनुवाद : परिभाषा, क्षेत्र सीमाएं, अनुवाद का स्वरूप : अनुवाद कला, विज्ञान अथवा शिल्प
2. अनुवाद की इकाई - शब्द, पदबन्ध, वाक्य पदबन्ध
3. अनुवाद की प्रक्रिया और प्रविधि - विश्लेषण, अन्तरण पुनर्गठन
अनुवाद प्रक्रिया के विभिन्न चरण, स्रोतभाषा के पाठ का विश्लेषण एवं उसके अर्थ ग्रहण की प्रक्रिया।
स्रोत भाषा और लक्ष्य भाषा की तुलना तथा अर्थान्तरण की प्रक्रिया, अनुदित पाठ का पुनर्गठन और अर्थ सम्प्रेषण की प्रक्रिया, अनुवाद प्रक्रिया की प्रकृति।

संस्तुत पुस्तकें।

- 1) अनुवाद कला : कुछ विचार (S- Chand & Co Dehli)
- 2) अनुवाद विज्ञान : डॉ० भोलानाथ तिवारी
- 3) अनुवाद सिद्धांत और प्रयोग - डॉ० जी० गोपीनाथन - लोक भारती प्रकाशन
- 4) अनुवाद कला : सिद्धांत और प्रयोग : प्रभात प्रकाशन
- 5) साहित्यानुवाद - संवाद एवं संवेदना - वाणी प्रकाशन
- 6) अनुवाद साधना - अभिव्यक्ति प्रकाशन हिंदी प्रयोजनमूलक हिंदी अनुवाद - कितावघर
अनुवाद के विभिन्न आयाम - तक्षशिला प्रकाशन



Quomo



आन विद्या विमुक्तये

प्रो. (डॉ.) जसपाल एस. सन्धू
सचिव-

Prof. (Dr.) Jaspal S. Sandhu

M.B.B.S, MS (Ortho), DSM, FAIS, FASM, FAFSM, FFIMS FAMS

Secretary



विश्वविद्यालय अनुदान आयोग
University Grants Commission

(मानव संसाधन विकास मंत्रालय, भारत सरकार)

(Ministry of Human Resource Development, Govt. of India)

बहादुरशाह जफर मार्ग, नई दिल्ली-110002
Bahadur Shah Zafar Marg, New Delhi-110002

Ph.: 011-23239337, 23236288,

Fax: 011-23238858, email: jssandhu.ugr@nic.in

BY SPEED POST

D.O.No. F. 1-1/2014(Secy)

12th November, 2014

Dear Sir/Madam,

The UGC has embarked on numerous measures to enhance efficiency and excellence in the higher education system in the country. The reforms undertaken in this regard have led to noticeable improvement in the standards of education. However, because of the diversity in the evaluation system followed by different universities in India, students have suffered acceptance of their credentials, at times, across the university system, as well as the employment agencies.

In order to mitigate this procedure, it has been thought that the Choice-Based Credit System (CBCS) proposed by the UGC should be adopted by all the Universities. This would ensure seamless mobility of students across the higher education institutions in the country as well as abroad. The credits earned by the student can be transferred and would be of great value to the students in the event of their seeking migration from one institution to the other.

Even in the universities which have already adopted the CBCS it has come to our notice that there is tremendous diversity in the adoption of the system that inter-university migration of students amongst such universities has also posed problems. Under the situation mentioned, the UGC has formulated Guidelines for adoption of uniform Choice-Based Credit System across all the universities. The Guidelines have been uploaded on the website of the UGC (www.ugc.ac.in).

You are requested that the Guidelines may kindly be accessed from the UGC website and the system introduced in your esteemed university from the academic year 2015-16. All the actions taken in this regard may kindly be communicated to the Secretary, UGC (email: ugc.action@gmail.com).

With kind regards,

Yours sincerely,

(Jaspal S. Sandhu)

The Vice-Chancellors of all Universities.



**UGC GUIDELINES ON ADOPTION OF CHOICE BASED
CREDIT SYSTEM**

**UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG NEW
DELHI — 110 002**

UGC Guidelines on Adoption of Choice Based Credit System

1. Preamble

The University Grants Commission (UGC) has initiated several measures to bring equity, efficiency and excellence in the Higher Education System of country. The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in curriculum, teaching-learning process, examination and evaluation systems, besides governance and other matters.

The UGC has formulated various regulations and guidelines from time to time to improve the higher education system and maintain minimum standards and quality across the Higher Educational Institutions (HEIs) in India. The academic reforms recommended by the UGC in the recent past have led to overall improvement in the higher education system. However, due to lot of diversity in the system of higher education, there are multiple approaches followed by universities towards examination, evaluation and grading system. While the HEIs must have the flexibility and freedom in designing the examination and evaluation methods that best fits the curriculum, syllabi and teaching-learning methods, there is a need to devise a sensible system for awarding the grades based on the performance of students. Presently the performance of the students is reported using the conventional system of marks secured in the examinations or grades or both. The conversion from marks to letter grades and the letter grades used vary widely across the HEIs in the country. This creates difficulty for the academia and the employers to understand and infer the performance of the students graduating from different universities and colleges based on grades.

The grading system is considered to be better than the conventional marks system and hence it has been followed in the top institutions in India and abroad. So it is desirable to introduce uniform grading system. This will facilitate student mobility across institutions within and across countries and also enable potential employers to assess the performance of students. To bring in the desired uniformity, in grading system and method for computing the cumulative grade point average (CGPA) based on the performance of students in the examinations, the UGC has formulated these guidelines.

2. Applicability of the Grading System

These guidelines shall apply to all undergraduate and postgraduate level degree, diploma and certificate programmes under the credit system awarded by the Central, State and Deemed to be universities in India.

These guidelines shall apply to all undergraduate and postgraduate level degree, diploma and certificate programmes under the credit system awarded by the Central, State and Deemed to be universities in India.

3. Definitions of Key Words:

1. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
2. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (core, elective or minor or soft skill courses).
3. **Course:** Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weight. The courses should define learning objectives and

learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.

4. **Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding a degree or diploma or certificate is prescribed in terms of number of credits to be completed by the students.
5. **Credit Point:** It is the product of grade point and number of credits for a course.
6. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
7. **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
8. **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point scale.
9. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F.
10. **Programme:** An educational programme leading to award of a Degree, diploma or certificate.
11. **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
12. **Semester:** Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from July to December and even semester from January to June.
13. **Transcript or Grade Card or Certificate:** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

4. Semester System and Choice Based Credit System

The Indian Higher Education Institutions have been moving from the conventional annual system to semester system. Currently many of the institutions have already introduced the choice based credit system. The semester system accelerates the teaching-learning process and enables vertical and horizontal mobility in learning. The credit based semester system provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching. The choice based credit system provides a 'cafeteria' type approach in which the students can take courses of their choice, learn at their own pace, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning. It is desirable that the HEIs move to CBCS and implement the grading system.

5. Types of Courses:

Courses in a programme may be of three kinds: Core, Elective and Foundation.

1. Core Course:-

2 |

There may be a Core Course in every semester. This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Elective Course:-

Elective course is a course which can be chosen from a pool of papers. It may be:

- Supportive to the discipline of study
- Providing an expanded scope
- Enabling an exposure to some other discipline/domain
- Nurturing student's proficiency/skill.

An elective may be "Generic Elective" focusing on those courses which add generic proficiency to the students. An elective may be "Discipline centric" or may be chosen from an unrelated discipline. It may be called an "Open Elective."

3. Foundation Course:-

The Foundation Courses may be of two kinds: Compulsory Foundation and Elective foundation. "Compulsory Foundation" courses are the courses based upon the content that leads to Knowledge enhancement. They are mandatory for all disciplines. Elective Foundation courses are value-based and are aimed at man-making education.

6. Examination and Assessment

The HEIs are currently following various methods for examination and assessment suitable for the courses and programmes as approved by their respective statutory bodies. In assessing the performance of the students in examinations, the usual approach is to award marks based on the examinations conducted at various stages (sessional, mid-term, end-semester etc.) in a semester. Some of the HEIs convert these marks to letter grades based on absolute or relative grading system and award the grades. There is a marked variation across the colleges and universities in the number of grades, grade points, letter grades used, which creates difficulties in comparing students across the institutions. The UGC recommends the following system to be implemented in awarding the grades and CGPA under the credit based semester system.

6.1. Letter Grades and Grade Points:

- Two methods -relative grading or absolute grading- have been in vogue for awarding grades in a course. The relative grading is based on the distribution (usually normal distribution) of marks obtained by all the students of the course and the grades are awarded based on a cut-off marks or percentile. Under the absolute grading, the marks are converted to grades based on pre-determined class intervals. To implement the following grading system, the colleges and universities can use any one of the above methods.
- The UGC recommends a 10-point grading system with the following letter grades as given below:

Table 1: Grades and Grade Points

Letter Grade	Grade Point
--------------	-------------

O (Outstanding)	10
A+ (Excellent)	9
A (Very Good)	8
B+ (Good)	7
B (Above Average)	6
-C (Average)	5
P (Pass)	4
F (Fail)	0
Ab (Absent)	0

- iii. A student obtaining Grade F shall be considered failed and will be required to reappear in the examination.
- iv. For non credit courses 'Satisfactory' or "Unsatisfactory' shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA.
- v. The Universities can decide on the grade or percentage of marks required to pass in a course and also the CGPA required to qualify for a degree taking into consideration the recommendations of the statutory professional councils such as AICTE, MCI, BCI, NCTE etc.,
- vi. The statutory requirement for eligibility to enter as assistant professor in colleges and universities in the disciplines of arts, science, commerce etc., is a minimum average mark of 50% and 55% in relevant postgraduate degree respectively for reserved and general category. Hence, it is recommended that the cut-off marks for grade B shall not be less than 50% and for grade B+, it should not be less than 55% under the absolute grading system. Similarly cut-off marks shall be fixed for grade B and B+ based on the recommendation of the statutory bodies (AICTE, NCTE etc.,) of the relevant disciplines.

6.2. Fairness in Assessment:

Assessment is an integral part of system of education as it is instrumental in identifying and certifying the academic standards accomplished by a student and projecting them far and wide as an objective and impartial indicator of a student's performance. Thus, it becomes bounden duty of a University to ensure that it is carried out in fair manner. In this regard, UGC recommends the following system of checks and balances which would enable Universities effectively and fairly carry out the process of assessment and examination.

- i. In case of at least 50% of core courses offered in different programmes across the disciplines, the assessment of the theoretical component towards the end of the semester should be undertaken by external examiners from outside the university conducting examination, who may be appointed by the competent authority. In such courses, the question papers will be set as well as assessed by external examiners.
- ii. In case of the assessment of practical component of such core courses, the team of examiners should be constituted on 50 - 50 % basis. i.e. half of the examiners in the team should be invited from outside the university conducting examination.
- iii. In case of the assessment of project reports / thesis / dissertation etc. the work should be undertaken by internal as well as external examiners.

7. Computation of SGPA and CGPA

The UGC recommends the following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e

$$SGPA (S_i) = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

where C_i is the number of credits of the i th course and G_i is the grade point scored by the student in the i th course.

- ii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

$$CGPA = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

where S_i is the SGPA of the i th semester and C_i is the total number of credits in that semester.

- iii. The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

8. Illustration of Computation of SGPA and CGPA and Format for Transcripts

- i. Computation of SGPA and CGPA

Illustration for SGPA

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	3	A	8	3 X 8 = 24
Course 2	4	B+	7	4 X 7 = 28
Course 3	3	B	6	3 X 6 = 18
Course 4	3	O	10	3 X 10 = 30
Course 5	3	C	5	3 X 5 = 15
Course 6	4	B	6	4 X 6 = 24
	20			139

Thus, $SGPA = 139/20 = 6.95$

Illustration for CGPA

Semester 1	Semester 2	Semester 3	Semester 4
Credit : 20 SGPA:6.9	Credit : 22 SGPA:7.8	Credit : 25 SGPA: 5.6	Credit : 26 SGPA:6.0

Semester 5	Semester 6		
Credit : 26 SGPA:6.3	Credit : 25 SGPA: 8.0		

$$\text{Thus, CGPA} = \frac{20 \times 6.9 + 22 \times 7.8 + 25 \times 5.6 + 26 \times 6.0 + 26 \times 6.3 + 25 \times 8.0}{144} = 6.73$$

- ii. Transcript (Format): Based on the above recommendations on Letter grades, grade points and SGPA and CCPA, the HEIs may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.



Central University of Jammu

Temporary Academic Block, Sainik Colony, Jammu-180011

NO 1 WS/TAS (Acad. Co.) / 38-49

Dt 12/05/15

Circular

Sir/Madam,

May I inform you that the University has decided to formulate syllabi in accordance with UGC guidelines for the session 2015-16. Two workshops have been held in this regard and a consensus of the kind has emerged. Since a new dimension of foundation courses i.e. Compulsory and Elective has been included in the guidelines so a template/paradigm shown is contemplated. The other addition is about the framework of Skill Development Courses, which shall be included in Foundation elective courses for four credits spread over two semesters out of list enclosed. The Board of studies is at liberty to add any other skill development course of two credits under foundation elective courses. The University has entered into MOU with Central University of Kashmir and Central University of Himachal in six subjects. The name and Phone nos. of HOD's of Central University of Kashmir are enclosed for exploring the possibility of building a common minimum programme at this stage, if possible. The meeting of Board of Studies may be convened to finalise the syllabi at the earliest. If any board has already finalised the syllabi in accordance with this procedure or sought authority to amend, the same may be done accordingly.

Thanking You

Yours Sincerely,

L. Verma

(Prof. Lokesh K. Verma)
Academic Coordinator

18-05-2015

Copy to:

Prof. Devanand

Prof. Deepak Raj Gupta

Prof. R.L. Bhat

Prof. H.S. Sehgal

Prof. S.D. Sharma

Prof. Y. Pardhasarathi

Prof. Nandini Bhattacharya

Prof. L.S. Ghandi Doss

Prof. Lokesh Verma

Dr. Jaya Bhasin

Dr. J. Jeganaathan

Head, Dept. of Computer Science & IT

Head, Dept. of Tourism & Travel Management

Head, Dept. of Economics

Head, Dept. of Environmental Sciences

Head, Dept. of Mathematics

Head, Dept. of PPPA, MCNM

Head, Dept. of English

Head, Dept. of Sociology & Social Work

Head, Dept. of Educational Studies

Head, Dept. of MBA (HRM & OB)

I/C, Dept. of National Security Studies

The University Grants Commission (UGC), the National Assessment and Accreditation Council (NAAC) and even National Knowledge Commission (NKN) have time & again come out with recommendations for improving the quality & effectiveness of Higher Education provisions in the country. The Ministry of Human Resources (MHRD) at the Central level, All Education Ministers & recent Vice-Chancellors conference alongwith President of India stressed on the need for Universities to pay their prompt attention to develop a Choice Based Credit System(CBCS) in tune with global trends & adoption of sound grading system for reflecting learner performance w.e.f. academic session 2015-16.

The UGC while outlining several unique features of the CBCS as viz. Enhanced learning opportunities, ability to match learners scholastic needs and aspirations, inter-institution transferability of learner, flexibility for working learners to complete the programme, standardization & comparable of Educational programmes across the country, desired that the revised curriculum be adopted to meet new challenges.

The following major steps need to be taken for introducing revised UGC/CBCS guidelines while performing course curriculum:

1. Specify for each academic programme, the programme structure, core courses, elective courses, foundation courses etc. Programme objectives, teaching-learning strategies (number of teaching hours/lecture hours, tutorials, practical components (natures & number of assignments tutorials, tests etc.).
2. Given the syllabus to be considered under each course included in a programme, specify the objectives of the course.
3. Break up the syllabus with smaller components called units & state the specific learning outcome (SLO) for each unit.
4. Allocate the course wise credits based on an estimate of the number of hours that would be required by an average learner to fulfil the basic requirements of the course including time spent on attending lectures etc (learning hours).
5. Credits should also be allocated to all the units included within a given course for compulsory, core or foundation courses.
6. Credits should also be allocated to project work, dissertation, industrial placements, internship, field experience etc.
7. Considering the nature of content to be studied for each course, number of lectures, tutorial/practicals to be conducted and the evaluation components to be completed under course components of the programme to be completed in a semester/year, the entire programme in a semester is constructed as corresponding to 30 to 40 learning hours i.e. 30 hours for teaching and 10 hours for practicals/practice.

There are three types of courses viz. Core, Elective and Foundation in each programme spread over all semesters

1. Core Courses	48
2. Discipline Specific Elective	16
3. Interdisciplinary Specific Elective	08
4. Foundations	
(a) Compulsory	04
(b) Elective (Skill-Based)	04
Total	80

The minimum requirement of a two year programme shall not be less than 80 credits. However, if some departments desire to add more credits to their work either due to the requirement of National Regulatory body or it is a course requirement, the board of studies can plan accordingly. The foundation course is a compulsory requirement.

Queene



Central University of Jammu

Rahya Suchani, Bagla, Distt. Samba, Jammu-181143

No.

Date

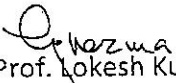
Sir/Madam

The UGC sent a letter to all the Universities for implementing CBCS from the session 2015-16. In this regard, the UGC organized a one day workshop at Jaipur on 13-04-2015. The workshop was organized for three states viz, Rajasthan, Himachal Pradesh and Jammu and Kashmir. The Vice Chancellor from the said states were invited. The Vice Chancellors of both the Central Universities of Jammu and Kashmir attended the workshop and a proposal was mooted by Prof. Ashok Aima for holding the workshop in state of Jammu and Kashmir which was accepted and was then endorsed by Prof. Mehraj-Ud-Din. Prof. Mehraj-Ud-Din further proposed to host the workshop for all universities of state at Srinagar; which has been fixed on May 6, 2015. The Vice Chancellor of UGC will inaugurate the same.

The Hon'ble Vice Chancellor, Central University of Jammu, after assuming the charge visited Srinagar and had held a meeting with Hon'ble Vice Chancellor, Central University of Kashmir. The following decisions were taken in implementing CBCS Scheme as per revised guidelines of UGC from the session 2015-16.

1. Both the Universities shall enter into MOU with each other on Common Programmes of PG Courses in the subjects of M.B.A (HRM&OB), MBA (TTM), Education, Economics, Mathematics and English.
2. Both the universities shall explore the possibility of adding all the academic components and features of the Scheme as far as possible so that the students at both the places are able to develop global competencies.

3. Both the Universities shall also work out modalities with regard to similar evaluation pattern to be followed.
4. Both the Universities shall be in a position to seamlessly facilitate horizontal and vertical mobility among the students of both the Universities through transfer of credits subject to eligibility criteria. The norms for transfer of credits shall also be prepared.
5. Both the Universities shall work out modalities for exchange of faculty.
6. All component of UGC Scheme of CBCS shall be followed in letter and spirit to raise the standard of Higher education for the benefit of the students.
7. This is for the information of all concerned HOD's of Central University of Jammu to establish their contact with respective HOD's of Central University of Kashmir and plan course of action accordingly for the session 2015-16. The contact may be established on priority basis and hold preliminary discussion before a template is provided after May 6, 2015. The amendments in ordinances, if any, shall be made thereafter.


Prof. Lokesh Kumar Verma
Academic Coordinator

Copy to:-

1. Staff officer of Vice Chancellor, Central University of Jammu
2. Staff officer of Vice Chancellor, Central University of Kashmir.
3. HOD, MBA(HRM&OB), MBA(TTM), Education, Economics, Mathematics and English
4. PS to Registrar.

Proposed Course Structure/Paradigm for Two Year Post Graduation Courses

Nature of course	No. of courses/semester	Credits per course	Semesters	Total
Core	3	4	4	48
Elective (Discipline)	1	4	2	08
Elective (inter disciplinary)	1	4	2	08
Foundation compulsory/ ability enrichment	1	2	2	04
Foundation elective/skill based	1	2	2	04
Practicum/Dissertation/Dissertation/Internship	1	4	2	08
Total				80

semester	core	Elective (Discipline)	Elective (inter disciplinary)	compulsory foundation course/ability enrichment	Foundation elective/skill based	Practicum/Project/Dissertation/Internship	Total
1	4x3=12	4x1=4	2x1=2	2x1=2			18
2	4x3=12	4x1=4			2x1=2		18
3	4x3=12		4x1=4		2x1=2	4x1=4	22
4	4x3=12		4x1=4	2x1=2		4x1=4	22
Total	48	08	08	04	08	08	80

Foundation (Compulsory)		Foundation (elective)	
Constitution Of India	Social Awareness	Photography	Income Tax
Constitution Of J&K	Cultural Heritage	Remote Sensing	Equity Based Investment
Spoken English/MIL communication	National Ethics	Journalism	Gender Studies
Functional English	Value Education	Broadcast/Telecom Journalism	Advertisement
Communication Skills	Yoga Education	Dress Designing	Retail/Marketing
Computer Skills	Spirituality	Performing Arts	Basic Of Stock Market
Fundamental Rights And Duties	Personal Development	Housekeeping	Disaster Management
Moral Education	Health Management & Dieting	Textile Printing	Entrepreneurship
Fitness/Well Being	Hospitality	Printing Technology	Event Management
Leadership Development	Presentation Skills	Banking	Travel & Tourism
First Aid And Emergency Care	Environmental education	Insurance	

And other may be added.

Central University of Kashmir

S. No.	Name and Designation	Department
01	Prof. S Fayyaz Ahmad Head, sfayyadh@gmail.com Cell; +91-9419443405	Tourism
02	Prof. N. A. Nadeem Head, prof.nadeemedu@gmail.com Cell: +91-9419000381	Education
03	Professor Mohammad Aslam Head, miraslam@rediffmail.com Contacts : 0194-415366 / 9419043802	English
04	Dr Aftab Hussain Shah, Coordinator, aftab_shah16@yahoo.com Cell: +91-8803193475	Math
05	Prof. Abdul Gani, Head, abdulgani@cukashmir.ac.in Cell:+91-9419069485	Management
06	Professor. G.M. Bhat Head, gmbhat.ku@gmail.co Cell: +91-9469022125	Economics



Sd/-
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