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CENTRAL UNIVERSITY OF JAMMU
 Rahya-Suchani (Bagla), District- Samba-181143
 Jammu (J&K)

No: CUJ/MOI/BI/2020/574

Centre for Molecular Biology

Dated: 14th Feb. 2020

Minutes of the meeting

The 3rd meeting of the Board of Studies (BoS), Centre for Molecular Biology (CMB) constituted vide Notification No. CUJ/acad/II-14/11/2017/800; Dated: 20th December, 2017 of the Registrar, CU Jammu was held on 14th February, 2020 at 11.00 AM in the Office Chamber of the Director, CMB (DDE building, CU Jammu). The following were present:

- | | | |
|----------------------------|---|---------------------------------------|
| 1. Prof. Mushtaq Ahmed | - | Director, CMB, Chairperson |
| 2. Prof. Deepak Pathania | - | Dean, SoLS, (Special invitee) |
| 3. Prof. Geeta Sumbali | - | Outside Subject expert |
| 4. Prof. B.S. Bhau | - | Member (VC nominee) |
| 5. Dr. Audesh Kumar Bhat, | - | Member |
| 6. Dr. Ashok Kumar Yadav | - | Assistant Professor (Special invitee) |
| 7. Dr. Praveen Kumar Mehta | - | Assistant Professor (Special invitee) |
| 8. Dr. Shelly Sehgal | - | Assistant Professor (Special invitee) |

At the outset, the Director, CMB welcomed the members of the BoS. Thereafter, following agenda items were discussed in the meeting:

1. To start Post graduate Programme in CMB

The Director, CMB informed the BoS that the Department of Biotechnology (DBT) had invited a proposal from the Centre for Molecular Biology (CMB), CU Jammu for financial funding to start Post graduate degree programme in Biotechnology. Last date for submission of the proposal fixed by the DBT was 20th January, 2020. In response to the said advertisement of the DBT, the Centre prepared a proposal for starting postgraduate degree in Biotechnology (M.Sc Biotechnology) and submitted to the DBT by the due date as duly forwarded by the Registrar of the University. If approved by the DBT, the course will be started by the Centre. The same along with list of courses was placed before the BoS for approval as Annexure-I.

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The BoS suggested that the course title, "Biostatistics and Computers (4 credit)" may be changed as Biostatistics (2 credit) and to complete the credits a course titled "Synthetic Biology" (2) needs to be incorporated. The 20 credits for Dissertation in IV semester will be reduced to 16 credits and to balance the credits a course titled, "Bio-entrepreneurship (4 credits) needs to be incorporated. The BoS authorized the Director, CMB to submit the updated proposal (incorporating the suggestions of BoS) to the DBT at the time of presentation/evaluation if invited by the DBT. With these suggestions, the BoS considered and approved the proposal submitted by the CMB for starting the Post graduate degree programme in Biotechnology.

2. To introduce new IDC (interdisciplinary courses) and FC (Foundation Courses) for University students (University wide) by the CMB

The Choice based credit system of prescribed by the UGC encourages inter disciplinarily in teaching courses. Moreover, the Central University of Jammu has started five years M.Sc integrated programmes in Science Departments almost on the pattern of Banaras Hindu University & Aligarh Muslim University. This effort of the University is appreciable. Keeping this in view, the CMB has already introduced some of the IDC and FC course that are offered to the students (University wide) at the University level. Moreover, some of these courses shall be offered for Ph.D course work students too. Following are the new courses that are proposed in addition to the existing list.

S.No	Course title	Credits	Level*
1.	Environmental Biotechnology	2	3 & 4
2.	Industrial Microbiology	4	4
3.	Intellectual Property Rights	2	4
4.	Genetic Engineering	4	4
5.	Public Health Microbiology	2	3
6.	Agricultural Biotechnology	4	4
7.	Bioinformatics and drug designing	4	4
8.	Computational Biology	2	4
9.	Food Biotechnology	4	3

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10.	Bioremediation	2	3 & 4
11.	Enzyme Technology	4	4
12.	Biostatistics	2	3
13.	Plagiarism and ethics in Science	2	6
14.	Environmental Microbiology	2	3 & 4

• Levels 3,4,5 & 6 in the table respectively, refer to UG, PG, M.Phil and Ph.D programmes.

The list of courses as mentioned above was placed before the BoS for approval. The BoS discussed and approved the list.

3. To advertise vacant seats for Ph.D programme for the upcoming session (2020-21)

The Director CMB, apprised the BoS that currently four Research Scholars are enrolled for Ph.D programme degree in the Centre (CMB), whereas, the total number of potential research Supervisors (Faculty Members) to guide the students for Ph.D degree in the Centre is five (05). Therefore, the total number of vacant seats for Ph.D programmes in the Centre as per UGC norms as on date is given below.

S.No	Name of the faculty Member	Designation	Total number of seats (Intake capacity)	Number of students enrolled at present (filled seats)	Vacant seats
1.	Prof. Mushtaq Ahmed	Professor	8	0	8
2.	Dr. Audesh Kumar Bhat	Assistant Professor	4	1	3
3.	Dr. Ashok Kumar Yadav	Assistant Professor	4	1	3
4.	Dr. Praveen Kumar Mehta	Assistant Professor	4	1	3
5.	Dr. Shelly Sehgal	Assistant Professor	4	1	3
Total			24	04	20

However, the Centre has limited space, lab and infrastructural facilities and hence only limited number of seats can be feasibly filled. Keeping in view the lab/space constraints as mentioned above, it may be decided that fifty percent seats may be filled during the upcoming session (2020-21). As soon as the Centre has full required space/Lab facilities, the remaining vacant seats shall be advertised and filled up. Accordingly, the total number of vacant seats to be advertised and filled during the current session in CMB shall be as under:

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S.No	Name of the faculty Member	Designation	Vacant seats is filled during the session 2020-21
1	Prof. Mushtaq Ahmed	Professor	
2	Dr. Anand Kumar Bhat	Assistant Professor	2
3	Dr. Ashok Kumar Yadav	Assistant Professor	2
4	Dr. Pooja Kumar Mehta	Assistant Professor	2
5	Dr. Shelly Sehgal	Assistant Professor	2
Total			12

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Prof. Mushtaq Ahmed, further informed that the matter has already been discussed in the meeting of all faculty members of the Centre held on 4th February, 2020 and all the faculty members have agreed for the same. Minutes of the meeting of faculty members of CMB were placed as Annexure-II for approval of the BoS.

The BoS discussed the issue and approved the same.

4. To change the nomenclature of Ph.D degree programme in CMB

The Director CMB, apprised the BoS that initially the Centre offered Ph D degree programme in Life Sciences with specialization in Molecular Biology during the session 2019-20. However, apprehensions are being expressed by the stake holders (potential aspiring candidates including those who have already been enrolled for the programme) that this nomenclature of the degree is very vague and is neither attractive nor suits them for job prospects in public sector/industry. In spite of having due expertise, they are rendered ineligible for the post of Assistant Professors/Scientists etc by the recruiting agencies (PSCs/UPSC/many Universities etc) merely on the grounds that the name of the degree doesn't fit/exists in their list (although they have the expertise). The BoS was informed that repeated requests are being received from the various aspiring candidates/stake holders that the nomenclature of the Ph.D degree offered by the CMB must be changed from the existing Ph. D degree in Life Sciences with specialization in Molecular Biology to Ph. D degree in Biotechnology.

Prof. Mushtaq Ahmed, Director CMB, further informed that the matter was discussed in the meeting of all faculty members of the Centre held on 4th February, 2020 and all the faculty members have agreed for the change of nomenclature as desired by the potential

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Dr. Mushtaq Ahmed
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Dr. Anand Kumar Bhat

Dr. Ashok Kumar Yadav

Dr. Pooja Kumar Mehta

Dr. Shelly Sehgal


aspiring candidates. Minutes of the meeting of faculty members of CMB were placed as Annexure-II for approval of the BoS.

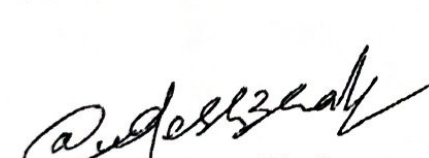
The BoS deliberated the issue at length and noted that since change of nomenclature of the programme as mentioned above has no scientific technical hitch and moreover, the proposed changed nomenclature shall be more appropriate vis-à-vis attractive in the present era scientific scenario. The BoS decided that in the interest of the student community vis-à-vis acceding to the requests of the potential stake holders, the nomenclature of the programme may be changed from the existing Ph. D degree in Life Sciences with specialization in Molecular Biology to Ph. D degree in Biotechnology from the upcoming session (2020-21). The BoS further decided that the changed nomenclature shall also be applicable retrospectively, for the students who have already been enrolled for Ph.D programme during the session 2019-20, provided such candidate (s) submit an undertaking (affidavit) to that effect.


The meeting ended with a vote of thanks to the chair.

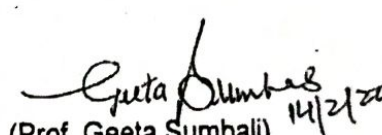

(Dr. Shelly Sehgal)
(Special invitee)

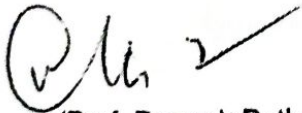

(Dr. Praveen Kumar Mehta)
(Special invitee)

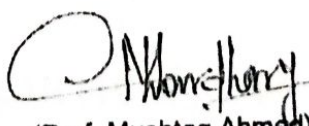

(Dr. Ashok Kumar Yadav)
(Special invitee)


(Dr. Audesh Kumar Bhat)
(Member)


Prof. B.S. Bhat
(VC nominee, Member)


(Prof. Geeta Sumbali)
(Outside subject Expert)


(Prof. Deepak Pathania)
(Dean, SoLS, special invitee)


(Prof. Mushtaq Ahmed)
Director, CMB, Chairperson



CENTRAL UNIVERSITY OF JAMMU

Rahya-Suchani (Bagla), District- Samba-181143
Jammu (J&K)

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Centre for Molecular Biology

Minutes of the meeting

The 4th meeting of the Board of Studies (BoS), Centre for Molecular Biology (CMB) constituted vide Notification No. CUJ/Acad/II-14/11/2022/257; Dated: 28th April, 2022 of the Registrar, CU Jammu was held on 24th May, 2022 at 11.00 AM in the Office Chamber of the Director, CMB (DDE building, CU Jammu). The following were present:

1. Prof. Mushlaq Ahmed - Director, CMB, Chairperson
2. Prof. B. K. Bajaj - Outside Subject expert
3. Dr. Mohd Jamal Dar - Outside Subject expert
4. Dr. Sawarkar Sharma - Outside Subject expert
5. Dr. Vinita Sharma - VC nominee
6. Dr. Ashok Kumar Yadav - Member
7. Dr. Audesh Kumar Bhat, - Dr. Assistant Professor (Special Invitee) - Deputed for attending meeting of NIRE & granted leave of absence.
8. Dr. Praveen Kumar Mehta - Assistant Professor (Special Invitee)
9. Dr. Shelly Sehgal - Assistant Professor (Special Invitee)
10. Dr. Anjali Dhar - Assistant Professor (Special Invitee)

At the outset, the Director, CMB welcomed the members of the BoS. Thereafter, following agenda items were discussed in the meeting:

On Monday
24/5/2022

1. Confirmation of the minutes of 3rd meeting of BoS

The BoS confirmed the minutes of 3rd meeting of the BoS held on 14th February, 2020.

2. The updated course matrix and syllabus for M.Sc Biotechnology (Academic session 2022-23)

In order to implement the NEP 2020, the University has developed a common format for reframing the course matrix in each programme of study. Accordingly, the course matrix (Semester wise) for M.Sc Biotechnology has been reframed and updated on the prescribed format as given below.

Course Matrix for M.Sc. Biotechnology (Academic year 2022-23)

Semester - I

Course Code	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core courses						
MBIO1C 001T	Biochemistry	(3+1)	25	25	50	100
MBIO1C 002T	Cell & Molecular Biology	(3+1)	25	25	50	100
MBIO1C 003T	Microbiology	(3+1)	25	25	50	100

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Dr VINITA SHARMA

Open Elective Courses					
MBIO10 001T	Analytical techniques				
MBIO10 002T	Protein Engineering	4	25	25	50
MBIO10 003T	Basics of Biostatistics	2	12.5	12.5	50
Skill Enhancement / Value Additions Courses					
MBIO10 004T	Intellectual Property Rights, Biosafety and Bioethics	2	12.5	12.5	50
Total		22	-	-	550

Semester - II

Course Code	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core courses						
MBIO2C 001T	Genetics					
MBIO2C 002T	Bioinformatics	(3+1)	25	25	50	100
MBIO2C 003T	Genetic Engineering	(3+1)	25	25	50	100
Open Elective Courses						
MBIO2O 001T	Medical Biotechnology and Diagnostics	4	25	25	50	100
MBIO2O 002T	Enzyme Technology	4	25	25	50	100
Skill Enhancement / Value Additions Courses						
MBIO2O 003T	Omics in Biotechnology	2	12.5	12.5	25	50
Total		22	-	-	-	550

Semester - III

Course Code	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core courses						
MBIO3C 001T	Animal and Plant Biotechnology	(3+1)	25	25	50	100
MBIO3C 002T	Immunology & Immunotechnology	(3+1)	25	25	50	100
Open Elective Courses						
MBIO3O 001T	Food Biotechnology	4	25	25	50	100
MBIO3O 002T	Fermentation & Bioprocess Technology	4	25	25	50	100
MBIO3O 003T	Ecology and Environmental Biotechnology	4	25	25	50	100
Audit Courses						
MBIO3O 004T	Nanobiotechnology	2	12.5	12.5	25	50
Total		22	-	-	-	550

Semester - IV

Course Code	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core Courses						

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Dr VINITA SHARMA

MBIO40 001D	Dissertation (Research project)	18	-	-	450	450
MBIO40 001T	Research Methodology & Review Writing	2	12.5	12.5	50	50
Total		20	-	-	-	500

Notes: 1. MOOCS COURSE TO BE OPTED AS PER AVAILABILITY ON SWAYAM PLATFORM
2. CREDIT TRANSFER UPTO 40% ALLOWED AS PER UNIVERSITY POLICY

Abbreviations: CIA- Continuous Internal Assessment ; MSE-Mid Semester Examination; ESE-End Semester Examination

The detailed course contents have been prepared/updated accordingly and the same along with course matrix as mentioned above was placed before the BoS for approval as **Annexure-I. The BoS considered and approved the same.**

3. To report to the BoS the increase in seats for M.Sc Biotechnology (Academic Session 2022-23)

The Centre for Molecular Biology is currently running Department of Biotechnology (DBT) Govt. of India (GOI) -supported M.Sc degree programme in Biotechnology with an intake capacity of TEN seats per year. The admission is made through Graduate Aptitude Test for Biotechnology (GAT-B) conducted by National Testing Agency (NTA) through DBT GOI.

Now the Competent authority of the University vide Notification No. CUJ/Acad/vi-11/1/2022/202; Dated: 1st April, 2022 (**ANNEXURE-II**) has approved TEN seats in addition to the existing 10 DBT supported seats for admission to M.Sc Biotechnology (Non-DBT supported) in the Centre for Molecular Biology from the Academic Session 2022-23. The admission to these TEN Non-DBT supported seats shall be made through Central Universities Common Entrance Test (CUCET) conducted by the NTA. In compliance to the said Notification, the admission shall be made from the academic session 2022-23.

The same was, reported for ratification of the BoS. The BoS ratified and appreciated the decision of the University.

4. To re-visit and update the list of allied subjects for the purpose of faculty recruitment

As desired by the Competent Authority of the University vide Office Note No. CUJ/Estab. /41/2018/172; Dated: 11th April, 2022 of the Registrar, the list of allied subjects for the faculty recruitment in respect of each Department/Centre may be re-visited/updated (**ANNEXURE-III**).

Accordingly, the list of allied subjects for the faculty recruitment in respect of the Centre for Molecular Biology as already finalized by the Centre and submitted to the University in terms of the above mentioned Office Note may be re-visited/updated.

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Handwritten signature: Dr. Vinita Sharma, dated 24/5/2022.

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The BoS deliberated and observed that the list of allied subjects in respect of the Centre for Molecular Biology as already submitted by the Centre as contained in Office Note No. CUJ/Estab. /41/2018/172; Dated: 11th April, 2022 of the Registrar includes all the allied subjects and hence the same may be treated as final updated list.

The list was placed before the BoS. **The BoS considered and approved the said updated list of allied subjects in respect of the Centre for Molecular Biology as already submitted by the Centre as communicated by the Registrar vide Office Note No. CUJ/Estab. /41/2018/172; Dated: 11th April, 2022 as captioned above for faculty recruitment.**

5. Allotment of Research supervisors for the candidates registered for Ph.D degree in Biotechnology

Pursuant to clause 6 of UGC (Minimum Standard and Procedures for Award of M.phil/Ph.D degrees) Regulations 2016, the research supervisors have been allotted vide Notification No. CUJ/CMB/2021/886; Dated: 29th September, 2021 of the Director, CMB (ANNEXURE-IV) for the candidates enrolled for Ph.D degree in Biotechnology in the Centre for Molecular Biology as given below.

S. No	Name of student	Enrolment No	Year of Enrolment	Research Supervisor allotted
1	Shivangi	0152219	2019	Dr. Shelly Sehgal
2	Kavinay	0252219	2019	Dr. Audesh Kumar Bhat
3	Nabendu Debnath	0352219	2019	Dr. Ashok Kumar Yadav
4	Jyotsna Kiran Peter	0452219	2019	Dr. Praveen Kumar Mehta
5*	Divya Sharma	0152220	2021	Prof. Mushtaq Ahmed
6*	Sonali Bhan	0252220	2021	Dr. Audesh Kumar Bhat
7*	Pooja Yadav	0352220	2021	Dr. Ashok Kumar Yadav
8*	Arun Kumar	0452220	2021	Dr. Praveen Kumar Mehta
9*	Manish Kumar Mishra	0552220	2021	Dr. Shelly Sehgal
10*	Shubani Kumari	0652220	2021	Prof. Mushtaq Ahmed

The same was placed before the BoS for approval. **The BoS considered and approved the same.**

6. Evaluation of first six- monthly research progress of the candidates registered for Ph.D degree in Biotechnology (from date of enrolment to 31.8.2021)

Pursuant to clause 8 of UGC (Minimum Standard and Procedures for Award of M.phil/Ph.D degrees) Regulations 2016, the Research Advisory Committees (RACs) have been constituted vide Notification No. CUJ/CMB/2021/768; Dated: 4th February, 2021 and Notification No. CUJ/CMB/2021/1020; Dated: 16th March, 2022 of the Director, CMB (ANNEXURE-V & VI) for the candidates enrolled for Ph.D degree in Biotechnology in the Centre for Molecular Biology. The DRC for the Centre for Molecular

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Biotechnology has also been constituted vide Notification No. CUJ/Acad/VI-II/13/2020/299; Dated: 22/12/2020 of the Registrar.

The six-monthly research progress of all the candidate registered for Ph.D degree in Biotechnology in the CMB was evaluated and approved by RAC/DRC in its first joint meeting held on 31/08/2021 as given below. The DRC/RACs has also approved the synopsis of the candidates listed at S.No. 1 to 4 in the table below The minutes of the said joint meeting of RAC/DRC are placed as ANNEXURE-VII.

S. No	Enrolment No.	Name of student	Topic of research (Thesis)	Duration of progress report
1	0152219	Shivangi	Explore the differential prevalence of Hepatitis (B and C) virus genotypes and its association with host gene polymorphisms in disease progression	18 months upto 31/8/2021
2	0252219	Kavinay	A study on genetic predisposition towards hypertension in Jammu region(J&K, UT)	18 months upto 31/8/2021
3	0352219	Nabendu Debnath	Exploring the neuroprotective potential of probiotic lactobacillus and their bioactive metabolites by amelioration of neuroinflammation	18 months upto 31/8/2021
4	0452219	Jyotsna Kiran Peter	Development of biosurfactant and laccases blended laundry detergent formulation for fabric cleaning	18 months upto 31/8/2021
5	0152220	Divya Sharma	-	6 months upto 31/8/2021
6	0252220	Sonali Bhan	-	6 months upto 31/8/2021
7	0352220	Pooja Yadav	-	6 months upto 31/8/2021
8	0452220	Arun Kumar	-	6 months upto 31/8/2021
9	0552220	Manish Kumar Mishra	-	6 months upto 31/8/2021
10	0652220	Shubani Kumari	-	6 months upto 31/8/2021

The said minutes of the joint meeting of RAC/DRC was placed as ANNEXURE-VII for approval of the BoS. **The BoS considered and approved the minutes of the RAC/DRC.**

7. Evaluation of six-monthly research progress and synopsis of the candidates registered for Ph.D degree in Biotechnology (September 2021 to March 2022)

The six-monthly (September 2021 to March 2022) research progress and topics of research of all the candidate registered for Ph.D degree in Biotechnology in the CMB was evaluated and approved by RAC/DRC in its second joint meeting held on 29th March 2022 as given below. The DRC/RACs also

Prof. P. Yadav

Dr. P. Yadav

Dr. P. Yadav

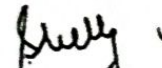
Dr. VINITA SHARMA

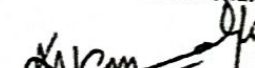
approved the synopsis of the candidates listed at S.No. 5 to 10 in the table below. The said minutes of the joint meeting of RAC/DRC are placed as ANNEXURE-VIII.


S. No	Enrolment No.	Name of student	Topic of research (Thesis)	Duration of progress report
1	0152219	Shivangi	Explore the differential prevalence of Hepatitis (B and C) virus genotypes and its association with host gene polymorphisms in disease progression	Sept. 2021 to Mar. 2022
2	0252219	Kavinay	A study on genetic predisposition towards hypertension in Jammu region (J&K, UT)	Sept. 2021 to Mar. 2022
3	0352219	Nabendu Debnath	Exploring the neuroprotective potential of probiotic lactobacillus and their bioactive metabolites by amelioration of neuroinflammation	Sept. 2021 to Mar. 2022
4	0452219	Jyotsna Kiran Peter	Development of biosurfactant and laccases blended laundry detergent formulation for fabric cleaning	Sept. 2021 to Mar. 2022
5*	0152220	Divya Sharma	In-silico characterisation of selective enzymes involved in trichothecene production from <i>Trichoderma</i> spp.	Sept. 2021 to Mar. 2022
6*	0252220	Sonali Bhan	A study of genetic predisposition towards idiopathic male infertility in J&K	Sept. 2021 to Mar. 2022
7*	0352220	Pooja Yadav	Protective role of <i>Lactobacillus</i> derived extracellular vesicles against atopic dermatitis and acne vulgaris	Sept. 2021 to Mar. 2022
8*	0452220	Arun Kumar	Production, purification and characterization of bacterial levansucrase and its potential applications	Sept. 2021 to Mar. 2022
9*	0552220	Manish Kumar Mishra	Expression profiling of long non-coding RNAs in Head & Neck squamous cell carcinoma patients of Jammu region	Sept. 2021 to Mar. 2022
10*	0652220	Shubani Kumari	In silico studies on the anti-cancerous activities of selected secondary metabolites of <i>Trichoderma</i> species	Sept. 2021 to Mar. 2022


The said minutes of the joint meeting of RAC/DRC was placed as ANNEXURE-VIII for approval of the BoS. The BoS considered and approved the minutes of the RAC/DRC.

The meeting ended with a vote of thanks to the chair.



(Dr. Shelly Sehgal)
(Special invitee)

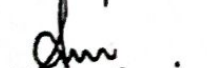

(Dr. Praveen Kumar Mehta)
(Special invitee)



(Dr. Ahjali Dhar)
(Special invitee)



(Dr. Ashok Kumar Yadav)
(Member)

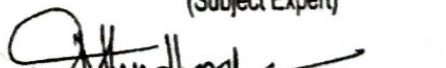
Attended meeting of
NIRF/NAAC chaired by
Dr. Audesh Kumar Bhat) HVC.
(Special invitee)


Dr. Vinita Sharma
(VC nominee, Member)


(Dr. Sawarkar Sharma)
(Subject Expert)


(Dr. Mohd Jamal Dar)
(Subject Expert)


(Prof. B. K. Bajaj)
(Subject Expert)


(Prof. Mushtaq Ahmed)
Director, CMB, Chairperson



CENTRAL UNIVERSITY OF JAMMU

Rahya-Suchani (Bagla), District- Samba-181143 Jammu (J&K)

Centre for Molecular Biology

Minutes of the meeting

Dated: - 5/03/2024

In reference to constitution of Board of Studies of Centre for Molecular Biology (reference Notification 2023 No: CUJ/Acad./4-XIX/2023/683 dated 21/12/2023, The 5th meeting of the Board of Studies (BoS), Centre for Molecular Biology (CMB) was held on 7th FEB 2024 at 2.30PM in the ROOM NO D29, (DDE building, CU Jammu). All the members as notified vide CUJ/Acad./4-XIX/2023/683 dated 21/12/2023 were present in the meeting along with all the faculty members of Centre for Molecular Biology. External Expert Prof. B.K. Bajaj (Professor, School of Biotechnology, University of Jammu), was present online in the meeting.

At the outset, the Director, CMB welcomed the members of the BoS. Thereafter, following agenda items were discussed in the meeting as circulated vide Agenda of 5th meeting of the Board of Studies (BoS), Centre for Molecular Biology (CMB), circulated through email by office CMB on 6th February 2024, and following points were resolved:

1. To consider and approve the credits, titles and course contents of the newly proposed open elective and Skill development/value addition courses to be offered by the Centre for Molecular Biology (Academic session 2024-26).

The members resolved to introduce the following open elective courses for the Academic year 2024 in addition to existing courses.

List of open electives (Academic year 2024-26)

Course Code	Course Title	Credit	CIA (20% of TM)	Mid term (30% of TM)	Major (50% of TM)	Total Marks(TM)*
Open Elective Course/Skill Enhancement / Value Additions Courses.						
	ENVIRONMENTAL MICROBIOLOGY	2	10	15	25	50
	INTRODUCTION TO BIOLOGY	2	10	15	25	50
	FUNDAMENTALS OF VIROLOGY	4	20	30	50	100
	MICROBIAL TECHNOLOGY	4	20	30	50	100
	Genome Editing Technologies: Yeast-Based Approach	2	10	15	25	50

*Reference notification CUJ 17/2024.

The detailed course content of elective courses is provided as Annexure 1A.

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2. To consider and approve the updated course matrix and syllabus for M.Sc Biotechnology (Ongoing Academic sessions 2022-2024, 2023-25 & proposal 2024-26.)

It was discussed that in order to implement the NEP 2020, the University has developed a common format for reframing the course matrix in each programme of study. Accordingly, the updated course matrix (Semesterwise) for M.Sc Biotechnology has been updated on the prescribed format as given below and implemented since the 4th BoS. The matter and implemented course structure and updated matrix were reported to the members for the academic session 2022-2024 as below. Members discussed and agreed that to avoid confusion, the course codes already in use before it (reference notification no 120/2022 by registrar's office), may be considered as appropriate if difficult to adapt the new prescribed nomenclature in consultation with the Examination/Academic wing).

Course Matrix for M.Sc. Biotechnology (Academic year 2022-24)

Semester - I

Course Code	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core courses						
MBIO1C 001T	Biochemistry	(3+1)	25	25	50	100
MBIO1C 002T	Cell & Molecular Biology	(3+1)	25	25	50	100
MBIO1C 003T	Microbiology	(3+1)	25	25	50	100
Open Elective Courses						
MBIO1O 001T	Analytical techniques	4	25	25	50	100
MBIO1O 002T	Protein Engineering	2	12.5	12.5	25	50
MBIO1O 003T	Basics of Biostatistics	2	12.5	12.5	25	50
Skill Enhancement / Value Additions Courses						
	Intellectual Property Rights, Biosafety and Bioethics#	2	12.5	12.5	25	50
Total		22	-	-	-	550

#Students have taken Swayam/NPTEL course: Noc23-hs15 Introduction on Intellectual Property to Engineers and Technologists.

The student has to earn a total of 22 credits during the semester I from the three core courses of 4 credits (3L+1P) each, 8 credits from the open electives basket offered by the department or other departments, and 02 credits from (SEC) Skill enhancement /value addition course on Swayam platform or MOOC course.

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 Anita Sharma
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Semester - II		Credit	CIA	MSE	ESE	Max. Marks
Course Code	Course Title					
Core courses						
MBIO2C 001T	Genetics					
MBIO2C 002T	Bioinformatics	(3+1)	25	25	50	100
MBIO2C 003T	Genetic Engineering	(3+1)	25	25	50	100
Open Elective Courses						
MBIO2O 001T	Medical Biotechnology and Diagnostics	4	25	25	50	100
MBIO2O 002T	Enzyme Technology	4	25	25	50	100
Self Enhancement / Value Additions Courses						
MBIO2O 003T	Omics in Biotechnology	2	12.5	12.5	25	50
Total		22	-	-	-	550

The student has to earn a total of 22 credits during semester II from the three core courses of 4 credits (3L+1P) each and 10 credits from the OEC/ SEC/ VAC basket offered by the department or other departments.

Semester - III

Course Code	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core courses						
MBIO3C 001T	Animal and Plant Biotechnology	(3+1)	25	25	50	100
MBIO3C 002T	Immunology & Immunotechnology	(3+1)	25	25	50	100
Open Elective Courses						
MBIO3O 001T	Food Biotechnology	4	25	25	50	100
MBIO3O 002T	Fermentation & Bioprocess Technology	4	25	25	50	100
MBIO3O 003T	Ecology and Environmental Biotechnology	4	25	25	50	100
Audit Courses						
MBIO3O 004T	Nanobiotechnology	2	12.5	12.5	25	50
Total		22	-	-	-	550

The student has to earn 22 credits during semester III from the two core courses of 4 credits (3L+1P) each and 14 more credits from the OEC/ SEC/ VAC/Audit Courses basket offered by the department or other departments.

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Semester - IV	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core Courses						
MBIO4C 001D	Dissertation (Research project)	18	-	-	450	450
Audit Courses						
	Research Methodology and Review Writing	2	12.5	12.5	25	50
Total		20	-	-	-	500

The student must earn total 20 credits during semester IV; with 18 credits from the dissertation /research project and 2 more credits from the OEC/ SEC/ VAC/Audit Courses basket offered by the department or other departments.

Abbreviations: CIA- Continuous Internal Assessment ; MSE-Mid Semester Examination; ESE-End Semester Examination are equivalent to CIA, Mid Term, Major , as and when appropriate to be used.

The detailed course contents have been provided as **Annexure-1B**

The BoS discussed the matter and ratified it.

The implemented course structure and updated matrix was reported to the members for the academic session 2023-2025 as below. Members discussed and agreed that to avoid confusion, the course codes already in use prior to it (reference notification no 120/2022 by registrar's office), may be considered as appropriate if difficult to adapt new prescribed nomenclature in consultation with the Examination/Academic wing).

Course Matrix for M.Sc. Biotechnology (Academic year 2023-25 and 2024-26)

Semester - I	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core courses						
MBIO1C 001T	Biochemistry	(3+1)	25	25	50	100
MBIO1C 002T	Cell & Molecular Biology	(3+1)	25	25	50	100
MBIO1C 003T	Microbiology	(3+1)	25	25	50	100
Open Elective Courses						
MBIO1O 001T	Analytical techniques	4	25	25	50	100
MBIO1O 002T	Protein Engineering	2	12.5	12.5	25	50
MBIO1O 003T	Basics of Biostatistics	2	12.5	12.5	25	50
Skill Enhancement / Value Additions Courses						
	Intellectual Property Rights, Biosafety and Bioethics#	2	12.5	12.5	25	50
Total		22	-	-	-	550

#Students have taken Swayam/NPTEL course: Noc23-hs15 Introduction on Intellectual Property to Engineers and Technologists.

Dr. @3/24

Dr. Singh
Dr. Sharma

Dr. Singh
Dr. Sharma

Dr. Singh

The student has to earn a total of 22 credits during the semester I from the three core courses of 4 credits (3L+1P) each, 8 credits from the open electives basket offered by the department or other departments, and 10 credits from (SEC) Skill enhancement /value addition course on Swayam platform or MOOC course.

Semester - II						
Course Code	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core courses						
MBIO2C 001T	Genetics	(3+1)	25	25	50	100
MBIO2C 002T	Bioinformatics	(3+1)	25	25	50	100
MBIO2C 003T	Genetic Engineering	(3+1)	25	25	50	100
Open Elective Courses						
MBIO2O 001T	Medical Biotechnology and Diagnostics	4	25	25	50	100
MBIO2O 002T	Enzyme Technology	4	25	25	50	100
Skill Enhancement / Value Additions Courses						
MBIO2O 003T	Omics in Biotechnology	2	12.5	12.5	25	50
Total		22	-	-	-	550

The student has to earn a total of 22 credits during semester II from the three core courses of 4 credits (3L+1P) each and 10 credits from the OEC/ SEC/ VAC basket offered by the department or other departments.

Semester - III

Course Code	Course Title	Credit	CIA	MSE	ESE	Max. Marks
Core courses						
MBIO3C 001T	Animal and Plant Biotechnology	(3+1)	25	25	50	100
MBIO3C 002T	Immunology & Immunotechnology	(3+1)	25	25	50	100
Open Elective Courses						
MBIO3O 001T	Food Biotechnology	4	25	25	50	100
MBIO3O 002T	Fermentation & Bioprocess Technology	4	25	25	50	100
MBIO3O 003T	Ecology and Environmental Biotechnology	4	25	25	50	100
Audit Courses						
MBIO3O 004T	Nanobiotechnology	2	12.5	12.5	25	50
	Research Methodology and Review Writing	2	12.5	12.5	25	50
Total		24	-	-	-	600

The student has to earn 24 credits during semester III from the two core courses of 4 credits (3L+1P) each and 16 more credits from the OEC/ SEC/ VAC basket offered by the department or other departments.

Dr. Arun

Sankar Singh

Manita Sharma

Praveen

Dr. Arun

Dr. Arun

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ANNEXURE-III

Semester - IV	Course Title	Credit	CIA	MSE	ESE	Max. Mark
Course Code						
Core Courses	Dissertation (Research project)	18	-	-	450	450
Min. MC 0010						
		18	-	-	-	450
Total						

The student must earn 18 credits during semester IV from the dissertation /research project.

Abbreviations: CIA- Continuous Internal Assessment ; MSE-Mid Semester Examination; ESE-End Semester Examination are equivalent to CIA, Mid Term, Major , as and when appropriate to be used.

CIA (20% of TM)	Mid term (30% of TM)	Major (50% of TM)	Total Marks(TM)*
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*Reference notification CUJ 17/2024.

The detailed course contents have been provided as Annexure-1B

3. To report to the BoS the minutes of the DRC/RACs meeting regarding the research progress of the candidates registered for Ph.D degree in Biotechnology since the last BoS.
- Pursuant to clause 8 of UGC (Minimum Standard and Procedures for Award of M.Phil/Ph.D degrees) Regulations 2016, the Research Advisory Committees (RACs) have been constituted (ANNEXURE-II) for the candidates enrolled for Ph.D degree in Biotechnology in the Centre for Molecular Biology.

- a) The research progress of all the candidates registered for a Ph.D. degree in Biotechnology in the CMB was evaluated on 07.02.2023 and approved by RACs along with other recommendations
- ANNEXURE-III.

S. No	Enrolment No.	Name of student	Topic of research (Thesis)	Duration of progress report
1	0152219	Shivangi	Explore the differential prevalence of Hepatitis (B and C) virus genotypes and its association with host gene polymorphisms in disease progression	April 22-jan.2023
2	0252219	Kavinay	Study on genetic predisposition towards hypertension in Jammu region (J&K, UT)	April 22-jan.2023
3	0352219	Nabendu Debnath	Exploring Neuroprotective Potentials of Probiotic Lactobacillus and their Bioactive Metabolites by Amelioration of Neuroinflammation	April 22-jan.2023
4	0452219	Jyotsna Kiran Peter	development of bio surfactant and laccase blended laundry detergent for fabric cleaning	April 22-jan.2023

Dr.

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Sudhakar Singh

Mishra Sharma

Suresh Chandra

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6	0152220	Divya Sharma	In Silico characterization of selective enzymes involved in trichothecenes production in <i>Trichoderma</i> spp	April 22-Jan 2023
6	0252220	Sonali Bhan	Unraveling the association of molecular genetic factors with most prevalent male infertility subtypes in population of J&K	April 22-Jan 2023
7	0352220	Pooja Yadav	Protective role of <i>Lactobacillus</i> derived extra cellular vesicles against atopic dermatitis and acne vulgaris	April 22-Jan 2023
8	0452220	Arun Kumar	Production, purification, and characterization of bacterial levansucrase and its potential applications	April 22-Jan 2023
9	0552220	Manish Kumar Mishra	Expression profiling of long non-coding RNAs in Head and Neck squamous cell carcinoma patients from Jammu region	April 22-Jan 2023

The said minutes of the meeting of DRC/RAC were placed as ANNEXURE-III for approval of the BoS and BoS approved it.

b) The research progress of all the candidates registered for a Ph.D. degree in Biotechnology in the CMB was evaluated on 12.10.2023 and 13/10/2023 and approved by respective RACs along with other recommendations ANNEXURE-IV.

S. No	Enrolment No.	Name of student	Topic of research (Thesis)	Duration of progress report
1	0152219	Shivangi	Explore the differential prevalence of Hepatitis (B and C) virus genotypes and its association with host gene polymorphisms in disease progression	Feb - July .2023
2	0252219	Kavinay	Study on genetic predisposition towards hypertension in Jammu region (J&K, UT)	Feb - July .2023
3	0352219	Nabendu Debnath	Exploring Neuroprotective Potentials of Probiotic <i>Lactobacillus</i> and their Bioactive Metabolites by Amelioration of Neuroinflammation	Feb - July .2023
4	0452219	Jyotsna Kiran Peter	development of bio surfactant and laccase blended laundry detergent for fabric cleaning	Feb - July .2023
5	0152220	Divya Sharma	In Silico characterization of selective enzymes involved in trichothecenes production in <i>Trichoderma</i> spp	Feb - July .2023
6	0252220	Sonali Bhan	Unraveling the association of molecular genetic factors with most prevalent male infertility subtypes in	Feb - July .2023

Dr. Singh

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7	0352220	Pooja Yadav	population of J&K Protective role of Lactobacillus derived extra cellular vesicles against atopic dermatitis and acne vulgaris	Feb-July .2023
8	0452220	Arun Kumar	Production, purification, and characterization of bacterial levansucrase and its potential applications	Feb-July .2023
9	0552220	Manish Kumar Mishra	Expression profiling of long non- coding RNAs in Head and Neck squamous cell carcinoma patients from Jammu region	Feb-July .2023
10	0652220	Ms.ShubaniKumari	Foot and Mouth disease transmission dynamicsamong domestic -wildlife interfaces of India	Feb-July .2023

The said minutes of the meeting of DRC/RACs are placed as ANNEXURE-IV for approval of the BoS. and BoS approved it.

c) The research progress of all the candidate registered for Ph.D. degree in Biotechnology in the CMB was evaluated on 20.12.2023 and approved by respective RACs along with other recommendations ANNEXURE IV.

S. No	Enrolment No.	Name of student	Topic of research (Thesis)	Duration of progress report
1	0152219	Shivangi	Explore the differential prevalence of Hepatitis (B and C) virus genotypes and its association with host gene polymorphisms in disease progression	Aug-December 2023
2	0252219	Kavinay	Study on genetic predisposition towards hypertension in Jammu region (J&K, UT)	Aug-December 2023
3	0352219	Nabendu Debnath	Exploring Neuroprotective Potentials of Probiotic Lactobacillus and their Bioactive Metabolites by Amelioration of Neuroinflammation	Aug-December 2023
4	0452219	Jyotsna Kiran Peter	development of bio surfactant and laccase blended laundry detergent for fabric cleaning	Aug-December 2023
5	0152220	Divya Sharma	In Silico characterization of selective enzymes involved in trichothecenes production in Trichoderma spp	Aug-December 2023
6	0252220	Sonali Bhan	Unraveling the association of molecular genetic factors with most prevalent male infertility subtypes in population of J&K	Aug-December 2023

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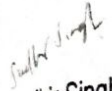
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7	0352220	Pooja Yadav	Protective role of Lactobacillus derived extra cellular vesicles against atopic dermatitis and acne vulgaris	Aug-December 2023
8	0452220	Arun Kumar	Production, purification, and characterization of bacterial levansucrase and its potential applications	Aug-December 2023
9	0552220	Manish Kumar Mishra	Expression profiling of long non-coding RNAs in Head and Neck squamous cell carcinoma patients from Jammu region	Aug-December 2023
10	0652220	Ms.ShubaniKumari	Foot and Mouth disease transmission dynamics among domestic -wildlife interfaces of India	Aug-December 2023

The said minutes of the meeting of DRC/RACs are placed as ANNEXURE-V for approval of the BoS and BoS approved it.


The meeting ended with a vote of thanks to the chair.

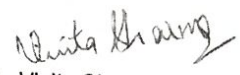

Dr. Sudhir Singh.

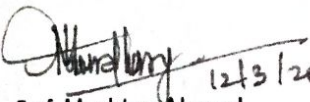

Dr. Shelly Sehgal


Dr. Audesh Kumar Bhat


Dr. Narendra K Bairwa


Dr. Swarkar Sharma.


Dr. Vinita Sharma


Prof. Mushtaq Ahmed


Prof. B.K. Bajaj


Director
Centre for Molecular Biology



जम्मू केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF JAMMU
Rahya- Suchani, Samba Dist, Bagla
Jammu & Kashmir-181143

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OFFICE OF THE DIRECTOR

CENTRE FOR MOLECULAR BIOLOGY

No:- CUJ/CMB/2025/ 3199(A)

Dated:- 21/03/2025

Minutes of the meeting

The 6th meeting of the Board of Studies (BoS), of Centre for Molecular Biology (CMB), Central University of Jammu constituted vide Notification number CUJ/Acad./4-XIX/2023/683 dated 21/12/2023, was held on 20/03/2025 at 02:30 pm in the Office of Director, Centre for Molecular Biology.

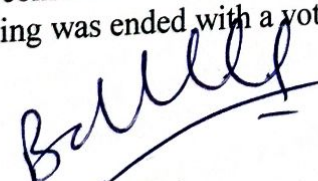
Following members were present:

- | | |
|--|-------------|
| 1. Dr. Narendra Kumar Bairwa | Chairperson |
| Director, CMB | |
| 2. Prof. B.K. Bajaj | Member |
| Subject Expert, School of Biotechnology, University of Jammu | |
| (Joined online through Google meet) | |
| 3. Dr. Shelly Sehgal | Member |
| Associate Professor, CMB | |
| 4. Dr. Vinita Sharma | Member |
| Assistant Professor, Department of Zoology | |

At the outset, the Director, CMB welcomed all worthy members of the BoS. Thereafter, following agenda items were discussed in the meeting:

1. To approve the minutes of RAC/DRC of Ms. Shubani Kumari (Registration Number: 0652220) held on 24/04/2023
2. To approve the minutes of RAC/DRC of Ms. Shubani Kumari (Registration Number: 0652220) held on 18/12/2024

The said minutes was placed as Annexure-I and Annexure II for approval of the BoS. The BoS considered and approved the minutes of RAC/DRC. The meeting was ended with a vote of thanks to the chair.


Prof. B.K. Bajaj
(Member)


Dr. Shelly Sehgal
(Member)


Dr. Vinita Sharma
(Member)


Dr. Narendra Kumar Bairwa
Director, CMB, Chairperson
अणुजीविकी विज्ञान केंद्र, Centre for Molecular Biology
जम्मू केंद्रीय विश्वविद्यालय
Central University of Jammu