



INFORMATION BROCHURE



B. Tech. Programmes in

- Computer Science & Engineering
- Computer Science & Engineering (Cyber Security) under the mentorship of DRDO
- Electronics & Communication Engineering
- Electronics & Communication Engineering (Avionics) under the mentorship of IIST- ISRO

**DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION
TECHNOLOGY**

SCHOOL OF BASIC AND APPLIED SCIENCES

**CENTRAL UNIVERSITY OF JAMMU
SAMBA, JAMMU & KASHMIR, INDIA**

About the Department

The CUJ is becoming the hub of Social and Economic ideas that shape our academia and industry. CUJ also provides academics and research in Sciences, Social Sciences, Languages and Environmental Sciences. With these strengths, CUJ hopes in conjunction with technology to enable the students to learn and apply technology to the real-life problems associated with Indian society. The Department of Computer Science & Information Technology under the aegis of the School of Basic & Applied Sciences, integrates both technology and society, has the vision to shape and to provide leadership in imparting knowledge and training to the younger generation.

The department of Computer Science & Information Technology offers admission to four-year degree programmes comprise B.Tech in engineering disciplines like Computer Science and Engineering, Computer Science and Engineering (Cyber Security), Electronics and Communication Engineering and Electronics and Communication Engineering (Avionics). This is one of the very few schools in the country, where the student would acquire skills in Technology and its application to a sustainable development of society.

In the first half of the B.Tech. programmes, the students would need to do compulsory foundation courses in the areas of basic sciences, humanities, social sciences, and engineering sciences apart from the departmental requirements in the core engineering discipline. The students will have options of choosing open category electives from a pool of courses to develop a broad interdisciplinary knowledge base. This will make them capable to pursue MS/M.Tech. in an area outside their parent discipline. The proposed degree programme in CUJ would be novel in the sense that it would extend an opportunity to the students, especially in the fourth year of their programme to involve themselves in projects/dissertations and courses on Humanities, International Studies, Sciences, Languages, Linguistics and Social Sciences, to understand the demands of such disciplines and acquaint themselves with the frontier areas.

Vision of the Department

To achieve global reputation in the field of Computer Science & Engineering and Electronics & Communication Engineering by imparting high quality technical education, research, and training in order to meet the industry's and society's expanding needs.

Mission of the Department

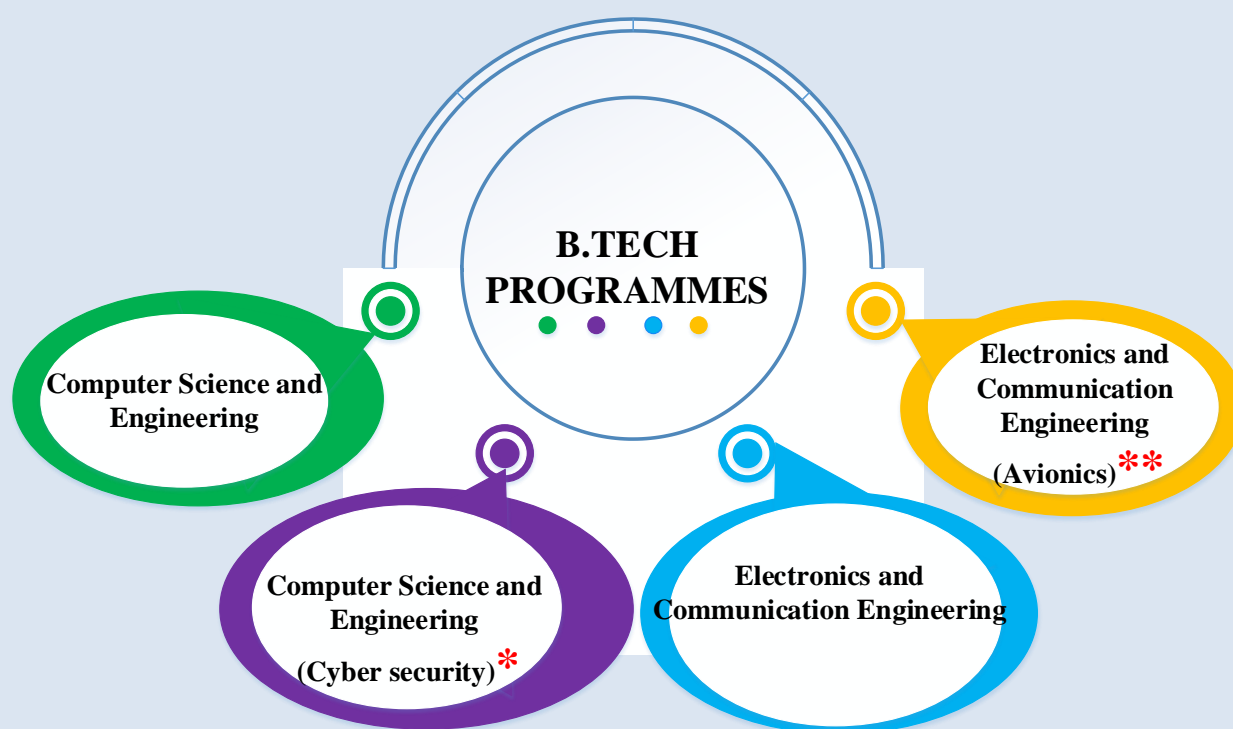
M1. Providing quality education through well-designed curriculum that is in sync with the industry's demanding software and electronic circuit's needs.

M2. Providing cutting-edge research facilities in the thrust areas of computer science & engineering and Electronics & Communication Engineering to generate knowledge and develop technologies.

M3. Creating connections with world-class organizations in order to strengthen industry-academia collaborations for mutual benefit.

Undergraduate Programmes Offered in the Department

Under the department of Computer Science and Information Technology, the following four B.Tech programmes have been started. Following are the approved programmes under the department;



* Under the mentorship of Defense Research and Development Organisation (DRDO)

** Under the mentorship of Indian Institute of Space Science and Technology (IIST) – Indian Space Research Organization (ISRO)

FACULTY PROFILE



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Signing of Memorandum of Understanding (MOU)



With Indian Space Research Organisation (ISRO)

MoU was signed between CUJ & ISRO to set up “Satish Dhawan Centre for Space Science,” the first research and academic space science centre sponsored by ISRO in the north region in the presence of Hon'ble Minister of State Dr. Jitendra Singh. The joint facility, which will be managed and maintained by Central University of Jammu, would be used for ISRO extension operations pertinent to this region. The Research Centre in space sciences provides value-driven, real-world solutions, which will enable the Central University of Jammu to acquire, manage, and execute educationally relevant and economically sound research programmes. The first National Conference, “Imagining the future of Space Science and its strategic importance,” was organized during October 11-12, 2018, during the foundational laying Ceremony of the Centre by Dr. Jitendra Singh, MOS, Department of Space, and then Chairman Dr. K Sivan. The Centre is also starting B.Tech. Electronics and Communication Engineering (Avionics) from the academic session 2022-23. The Central University of Jammu has a prescribed curriculum on the subject(s) related to space science and technology. Department of Physics & Astronomical Sciences and Environment Sciences also offers courses on Astrophysics, atmospheric sciences, remote sensing, and GIS. In B. Tech E.C.E. (avionics), the intake of the student will be 60. In collaboration with the university's allied departments, the center will also start offering Ph.D. in any area related to space science and technology in the near future.



The Central University of Jammu is one of the new and promising universities in the Union Territory of Jammu and Kashmir, which is devoted to the development of advanced systems and technologies. Apart from imparting high-quality education, the university provides an appropriate mechanism for inducing growth and development by doing research in Jammu region.

With Defence Research and Development Organisation (DRDO)

In view of the fact, the Central University of Jammu and DRDO signed MoU in the presence of Hon'ble Defence Minister Shri. Rajnath Singh, Chairman DRDO. R&D Secretary and DRDO Chairman Dr. G Satheesh Reddy laid the foundation stone for the Kalam Centre for Science and Technology (KCST) on the Central University of Jammu campus on 14 October 2021. The Centre envisages to act as an extended field support Centre for DRDO, especially in the sensitive area of Computational System Security and Sensor Technologies. With advanced Defence applications in Computational System Security and Sensors, KCST aims to design and develop a test-bed for the security of Industrial Control Systems for the Hydro Power plant. The Center has undertaken a project worth Rs 10 crore, "Design and Development of Test bed and Vulnerability Analysis Framework for Cyber-Physical Systems," to investigate the system-level impacts of different devices and network architectures of the Industrial Control Systems and study and understand Industrial Control Systems protocol of Hydroelectric Power Plant.



With IIST (Indian Institute of Space Science and Technology)

An MoU was also exchanged between CUJ and Indian Institute of Space Science and Technology (IIST). It will enable both the institutions in research collaboration and student-faculty exchange programs. The IIST will also mentor the newly started B Tech Avionic course at the Central University of Jammu. The facilities like ISRO Centre and Kalam Centre for Science & Technology in CUJ which will grant exposure to the students and scholars for conducting cutting-edge research.

With Central Scientific Instruments Organization (CSIR-CSIO)

Another MoU was signed between CUJ and the Central Scientific Instruments Organization (CSIR-CSIO). To create awareness about space research and to motivate young minds to take up research related to space, astronomy, geology, atmospheric sciences and related fields.

Academic Infrastructure of the Department

Internet and ICT Labs

The University is equipped with seamless Wi-Fi connectivity and students can access the Internet through their own laptops from anywhere in the Campus. The University also has three state-of-the-art ICT Labs equipped with high-end PCs loaded with necessary software's accessible to the students of all the disciplines.



Lab Facilities

University provides state of the art laboratory facilities to its students, faculty and staff for carrying out teaching, research and practical activities. The department has dedicated labs for various disciplines of engineering and sciences such as the Avionics and Astronomy lab, the Remote Sensing and GIS lab, computer computational lab, Physics lab, instrumentation lab, Electronics lab, IoT Lab with vulnerability assessment framework, and Biometric lab etc., in which many sorts of research and experiments have been conducted.



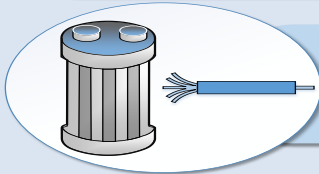
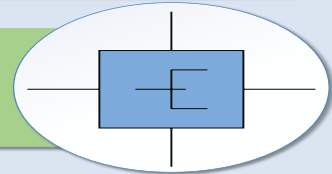
Language Lab

To enhance the communication competence of students, a software-based language laboratory caters to the needs of students. Various sessions on listening, speaking, and writing enable learners to develop proficiency of English language. The software is flexible in nature which the concerned faculty appropriates keeping in view the proficiency level of learners. Moreover, software related to vocabulary building upgrade academic communication of students. Significant thrust on audio-visual display also ascertains effective communication strategies.



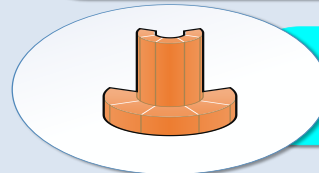
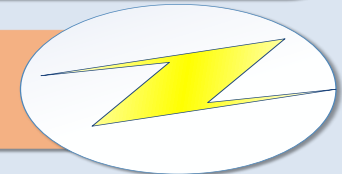
Common Computer Labs

Electronics Lab



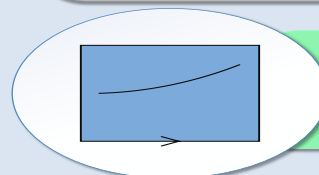
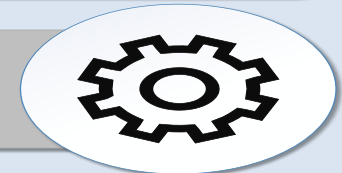
Optics Lab

Physics Lab



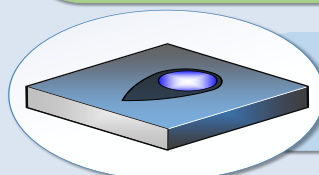
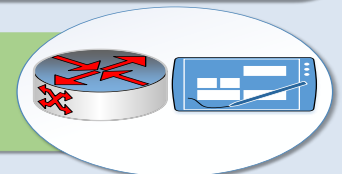
Instrumentation Lab

Remote Sensing and GIS Lab



Avionics and Astronomy Lab

**IoT Lab with Vulnerability
Assessment Framework**



Biometric Lab

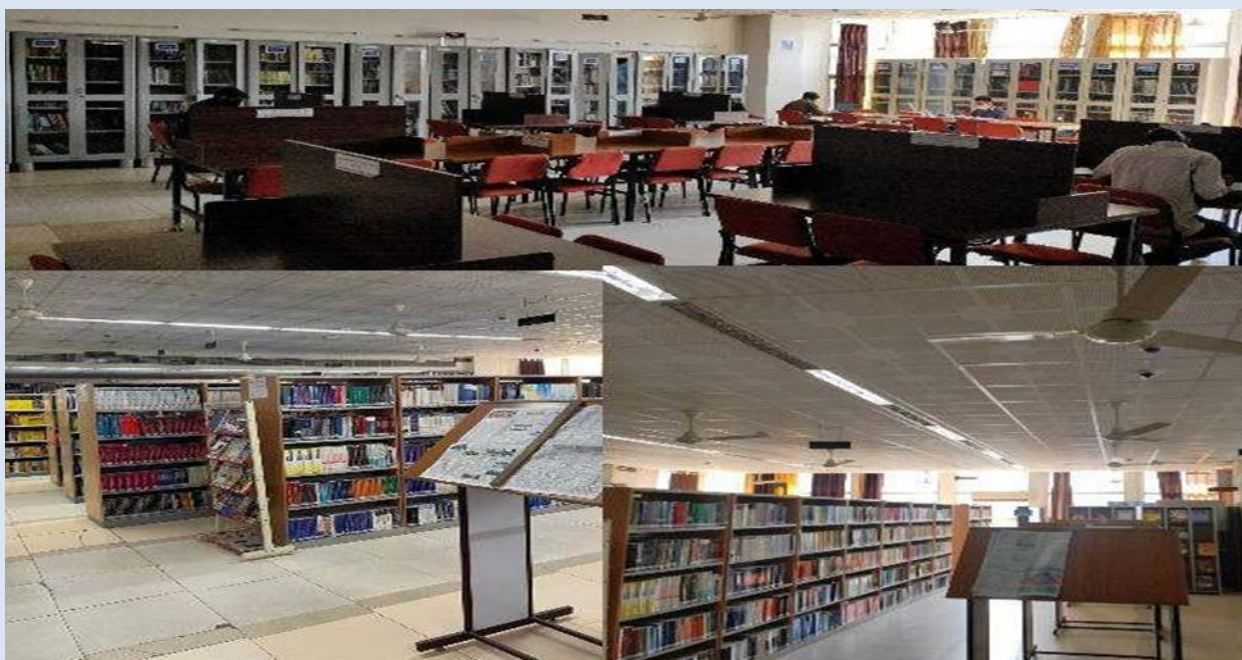
Class Room and Seminar Hall

The classrooms in the department are equipped with the ICT enabled tools for effective teaching and learning. Two seminar rooms with a capacity for 50 and 170 people have been built. The committee rooms may be used for holding formal gatherings, seminars, or other academic events.



Library

The library was established in the year 2011 and now catering 21 departments. It has a collection of 27253 Books, 50 print journals, 5118 online e-journals, 277 e-Books, 16 Newspapers, 15 Magazines and remote access facility for accessing subscribed eresources through INFED (INFLIBNET). The Library has 10 Computers for Research Scholars and Students to access the e-Resources, Internet and OPAC. The library has access to anti-plagiarism software namely URKUND and iThenticate (Turnitin).



Hostels/Halls of Residence

The University has rented private buildings (Boys and Girls) in Jammu City to accommodate out station students. Depending on availability, the seats are allotted to the students on merit and distance basis. One permanent Boy's hostel (100 bedded) is ready to move at the Main Campus of the University. Construction of Girls Hostel is in progress.



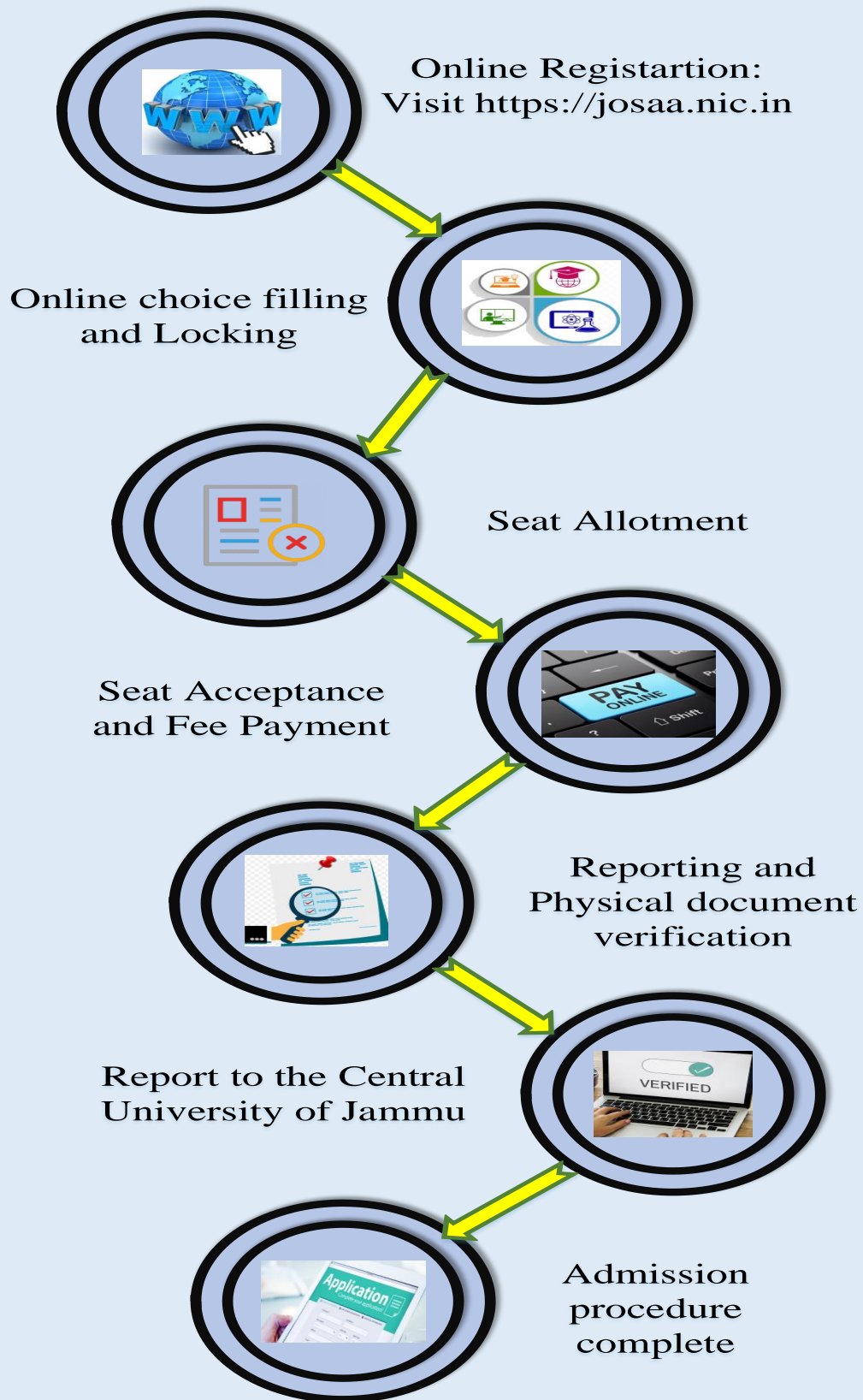
Canteen/Cafeteria

The University has a spacious, airy canteen where students and teaching faculty get an opportunity to relish the neat and clean eatables prepared under hygienic conditions at its campus.

Eligibility

S.No	Programme	Eligibility	Intake
1.	B.Tech. in Computer Science and Engineering	All seats will be filled through Joint Entrance Examination (JEE-Main) conducted by NTA and eligibility criterion is as per the JEE-Main examination.	60
2.	B.Tech. in Computer Science and Engineering (Cyber Security)	All seats will be filled through Joint Entrance Examination (JEE-Main) conducted by NTA and eligibility criterion is as per the JEE-Main examination.	60
3.	B.Tech. in Electronics and Communication Engineering	All seats will be filled through Joint Entrance Examination (JEE-Main) conducted by NTA and eligibility criterion is as per the JEE-Main examination.	60
4.	B.Tech. in Electronics and Communication Engineering (Avionics)	All seats will be filled through Joint Entrance Examination (JEE-Mains) conducted by NTA and eligibility criterion is as per the JEE-Main examination.	30

Online Admission Procedure



Fee Structure

(Applicable w.e.f. Fresh Admission Batch 2022 – 23)

S.No.	Details	1 st Year	2 nd Year	3 rd Year	4 th Year
1	Admission, Registration & Tuition fees	60000	60000	60000	60000
2	Examination Fee	1900	1900	1900	1900
3	Campus Development and Maintenance	5000	5000	5000	5000
4	Students' Welfare Activities	1800	1800	1800	1800
5	Library	500	500	500	500
6	Primary Health Care	600	600	600	600
7	Student Insurance	130	130	130	130
8	Degree, Certificate & Convocation	1200	0	0	0
9	Alumni Membership Fee	1000	0	0	0
10	Soft Skills Training & Placement Fee	7000	7000	7000	7000
11	Orientation/Internship Fee	2000	2000	2000	2000
12	Minor Project/Dissertation/Project	2000	2000	2000	5000
13	ICT Charges	5000	5000	5000	5000
Total		88130	85930	85930	88930

Note:

- 1st Semester Fee must be submitted by the student at the time of admission.
- Year-wise fee mentioned above will be paid by students every semester as detailed below:

1 st Year		2 nd Year		3 rd Year		4 th Year	
Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII
52878	35252	42965	42965	42965	42965	44465	44465

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