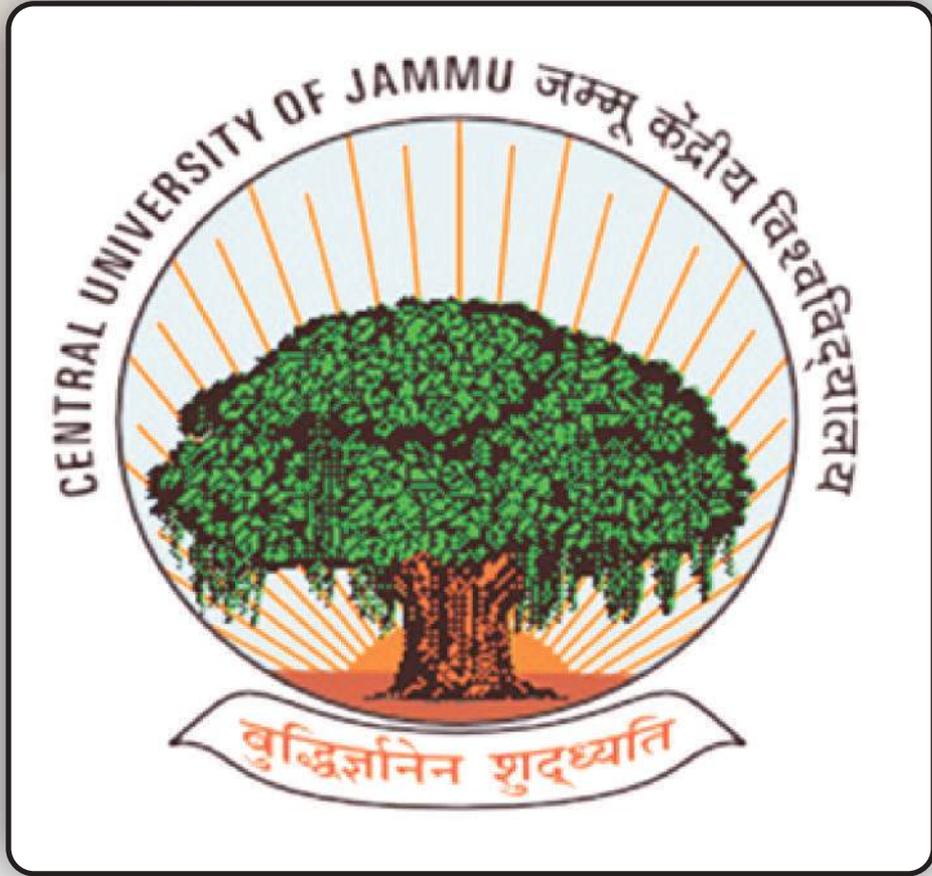


वार्षिक प्रतिवेदन
ANNUAL REPORT
2024-2025



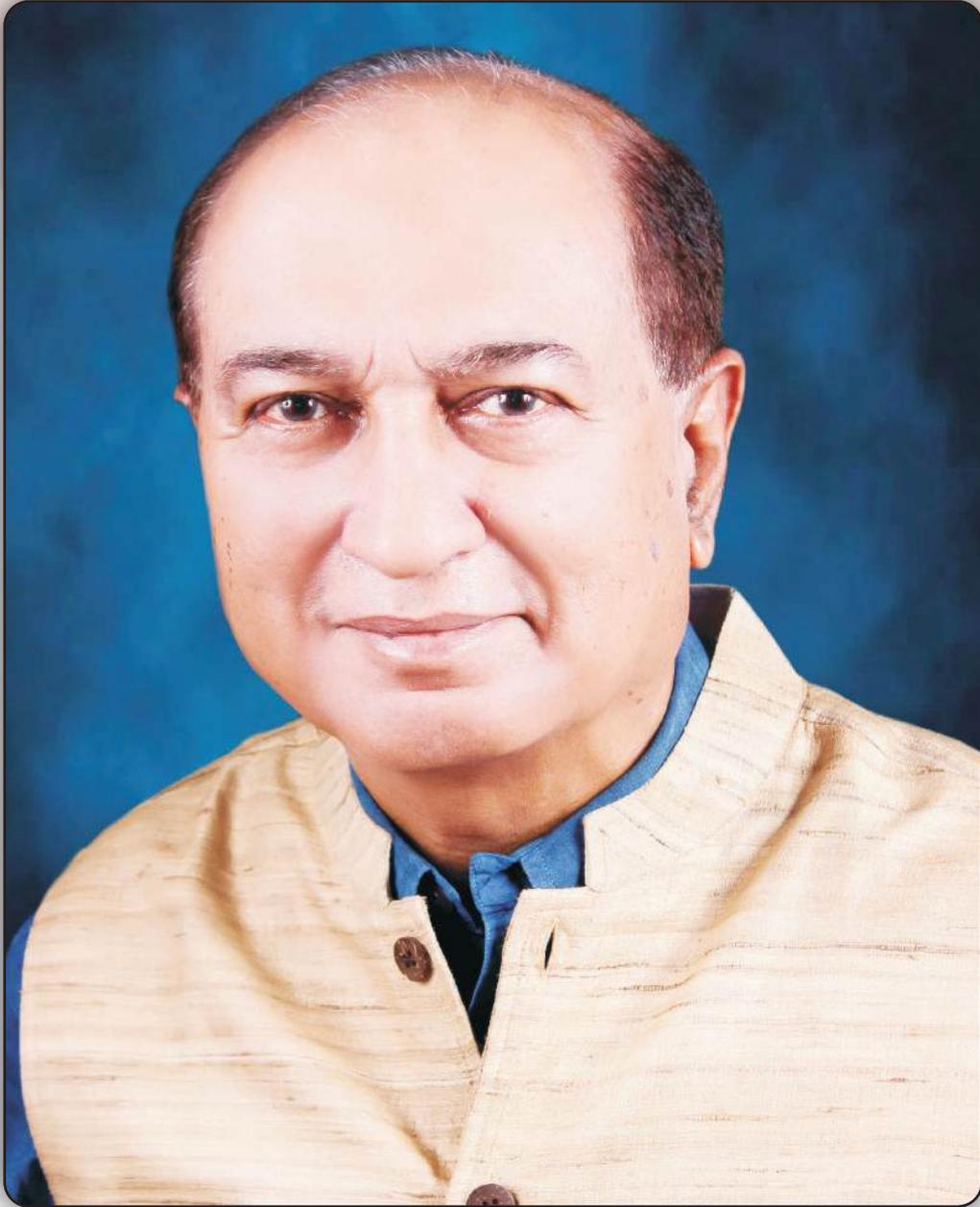
जम्मू केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF JAMMU

Hon'ble Visitor of the University



Smt. Droupadi Murmu
Hon'ble President of India

Hon'ble Chancellor of the University



Sh. Gopaldaswami Parthasarathy

Hon'ble Chancellor

MESSAGE OF THE VICE CHANCELLOR



A Central University by its very nature represents the bustling tapestry of India's diverse landscape where diversity and inclusivity are at the core. Presenting this diverse ethos which is in sync with the rapid strides after the effective implementation of NEP-2020, in the 15th Annual Report of Central University of Jammu for the session 2024-2025 instils in me a special sense of fulfilment coupled with self- reflection. It is gratifying to share that the University in a decade of existence has carved a niche both in academics and research at the regional, national and at the International level which makes it imperative to self-scrutinize as the Annual Report serves as an authentic document of introspection for chalking out a blueprint for future course of action.

Braving constraints and odds, which ostensibly are a part of an institution's growth trajectory, the University is equally concerned about its nationalistic bonding aptly reflected in the pan-Indian ethos of the University as students from different states of the country are the proud learners, achievers and innovators here. The University has so far awarded 147 Ph.D degrees; 108 M.Phil. Degrees. 346 students passed postgraduate programmes, 104 passed integrated programmes in different disciplines and 89 passed various undergraduate programmes.

The University has successfully mobilized resources from diverse funding agencies to support research endeavours. This achievement is reflected in the prestigious national and international fellowships awarded to our researchers, project grants received, and recognitions earned. Through these efforts, the University continues to contribute meaningfully to both governmental and non- governmental sectors by advancing research and providing expert consultancy services.

The University has made significant strides in advancing research by securing a total of 139 research projects with a cumulative funding of ₹ 50.25 crores. Of these, 95 projects amounting to ₹ 32.31 crores have been successfully completed, while 44 projects worth approximate funding of ₹ 17.94 crores are currently ongoing. These projects are supported by a wide range of esteemed funding agencies, including ISRO, DRDO, ICSSR, SERB, UGC, IUAC, NBHM, JKPCB, JKST & IC, ICMR, ICPR, NCW, UNICEF, UNESCO, the Department of Tribal Affairs, NBCFDC, among others. These collaborations reflect the University's commitment to excellence in research, innovation, and its contribution to national and global knowledge ecosystems.

Aligned with the 'National Innovation and Start-up Policy (NISP) 2019,' the University has established CUJ-SITEC, a Section-8 company aimed at promoting entrepreneurship and supporting knowledge- and technology-driven industries among students and faculty. The University has also a prestigious Research Internship Scheme for UG, PG, and Ph.D. students, offering hands-on experience with advanced instrumentation and the opportunity to work on innovative projects under expert faculty guidance. The University promotes high-quality research publications in Scopus, Web of Science, and ABDC indexed journals. As a result, it has published 1,597 papers in Scopus with an H-Index of 62 and over

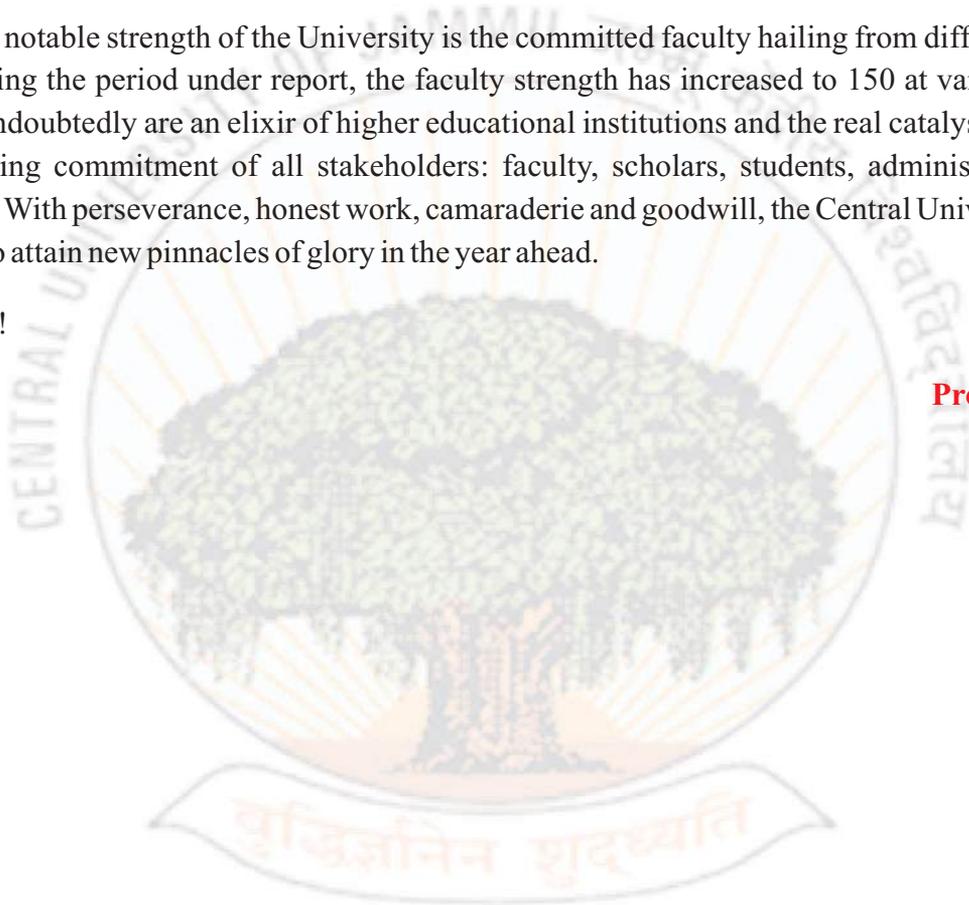
21,800 citations, earning excellent rankings in the Nature Index for 2024 and 2025. In 2025, First Time The Central University of Jammu has made a significant mark by being ranked among the top 401–600 universities globally in the prestigious Times Higher Education (THE) Impact Ranking reflecting its commitment to the UN's Sustainable Development Goals (SDGs).

The growth of the University clearly reflects a visible upward graph in the area of teaching and learning, quality research and publication. This progressive developmental trend is quite visible in infrastructural and support facilities. The university is coming up with some innovative schemes for empowering students, like Earn-while your- Learn; Alumni Endowment Fund etc. Further, the University is successful in qualitatively enhancing basic facilities in the class rooms in the form of smart teaching rooms and extensive use of ICT for multiplier effect in all its multidimensional activities.

Another notable strength of the University is the committed faculty hailing from different parts of the country. During the period under report, the faculty strength has increased to 150 at various levels. The challenges undoubtedly are an elixir of higher educational institutions and the real catalyst is the goodwill and unflinching commitment of all stakeholders: faculty, scholars, students, administrative staff and helping staff. With perseverance, honest work, camaraderie and goodwill, the Central University of Jammu is all bound to attain new pinnacles of glory in the year ahead.

Jai Hind!

Prof. Sanjeev Jain



MOTTO of the University is
“बुद्धिज्ञानेन शुद्ध्यति”
implies that knowledge refines,
purifies and sharpens the mind.

Symbolism : The Rising Sun, the Banyan Tree and the Infinite Sky are some of the most significant constituents of nature, epitomizing its essence and motivating the mankind to embrace a productive way of life, to acquire knowledge and attain peace and happiness.

These elements, each being an inspirational entity, have been arranged together into an emblem to represent the Central University of Jammu.

RISING SUN - The rising Sun in the backdrop of the Banyan Tree is emblematic of victory over darkness - the triumph of enlightenment over ignorance. The students shall abide in light, acquire knowledge and grow in wisdom.

BANYAN TREE - This part of the emblem proclaims that as the Banyan Tree filters impurities to provide pure air and proliferates through its prop roots, the University intends to resonate wisdom and knowledge, leading to organized thought and self disciplined individuals through contribution and participation of its alumni.

INFINITE SKY- The vast canopy of the Infinite Sky filled with rays of the Sun denote the enormous expanse available for acquisition, growth and spread of knowledge; the soaring spirit as also an exhaustive domain for nurturing and flow of ideas.

University is an abode of boundless learning, knowledge and wisdom that paves the way to purposeful self-introspection, leading to individual growth and development.

To sum up, the Rising Sun along with the Banyan Tree and the Infinite Sky, truly reflect the values, aspirations, goals and ethos of the University as it seeks to usher in an enlightened society through vibrant, learned and empowered youth ready to adopt new ideas and emerging trends in the modern world.



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Campus at a Glance

Introduction

The Central University of Jammu (CUJ) came into existence on August 08, 2011 and was established under the Central Universities Act, 2009 (Act No.25 of 2009 read with the Central Universities Act, 2009). The first academic session (2011-2012) commenced with three post graduate courses and at present university is offering various undergraduate/ Postgraduate/ PhD/ Diploma/ Certification programmes through its University Departments and Centres. The University is located at Village Rahya – Suchani (Bagla) in District Samba of J&K, approximately 24 km away from the Jammu-Tawi Railway Station, 25 km from the Jammu Airport, and around 7 km from the National Highway. The campus is well connected through local and state transport. Central University of Jammu epitomizes an inclusive and pluralistic institution of higher learning. The faculty and students as a collective community is committed to discovering and sharing knowledge, as well as addressing the challenges that our world is facing.





The university's administrative office is housed in a building at the campus site at Rahya Suchani (Bagla), Distt-Samba, (J&K). The university campus area extends to 610-acre which comprises a variety of note worthy geographical characteristics, including a scenic environment, various buildings, and large roads. The campus is a sight to behold, with architectural harmony and natural beauty. The main academic building houses various teaching, research, library, laboratory and recreational facilities.

University Bodies

University Court

I.	Chancellor	Shri Gopaldaswami Parthasarathy Chancellor
II.	Vice Chancellor	Prof. Sanjeev Jain Vice Chancellor
III.	Pro-Vice Chancellor	Vacant
IV.	All Deans	<ol style="list-style-type: none"> 1. Prof. Jaya Bhasin, School of Business Studies 2. Prof. Deepak Pathania, Research Studies 3. Prof. Vandana Sharma, School of Languages 4. Prof. Sunil Dhar, School of Life Science 5. Prof. Vinay Kumar, School of Basic and Applied Science 6. Prof. Suram Singh, Academics 7. Prof. Aswini Kumar Nanda, School of Humanities & Social Science
V.	Two members of the Executive Council to be Nominated by the Executive Council.	Vacant
VI.	All Head of Departments (HoDs)	<ol style="list-style-type: none"> 1. Prof. Jaya Bhasin 2. Prof. Vinay Kumar 3. Prof. Richa Kothari 4. Prof. Santap Sanhari Mishra 5. Prof. Asit Kumar Mantry 6. Prof. Aswini Kumar Nanda 7. Prof. Ajai Pal Sharma 8. Prof. Bharat Bhushan 9. Prof. Rakesh Kumar Jha 10. Prof. Dinesh Kumar 11. Prof. Niranjna Bhandari 12. Prof. Kamelsh Kumar 13. Dr. Nancy Mengi 14. Dr. Khambhampati Rajesh 15. Dr. Kamlesh Kumar 16. Dr. Narendra Kumar Bairwa 17. Dr. Yogesh Kumar 18. Dr. Ranjeet Kumar Raman 19. Dr. Abhay SD Rajput 20. Dr. Ashok Kumar Yadav 21. Dr. Neeta Rani

VII.	Four members to be nominated by the Visitor	Vacant
VIII.	Dean Students's Welfare	Prof. Ritu Bakshi Department of Educational Studies
IX.	Registrar	Prof. Yashwant Singh
X.	Librarian	Prof. B.S. Bhau
XI.	Proctor	Dr. Pavinder Singh Assistant Professor, Dept. of Mathematics
XII.	Controller of Examinations	Sh. Ashish Suri
XIII.	Finance Officer	Mohammed Iqbal (I/C)
Representatives of Teachers out of Directors/Principals/Professors		
XIV.	Ten Professors who are not Heads/ Deans but they hold the status of Professor/Director/ Principal. The Professors/ Directors/ Principals to be nominated by the Vice Chancellor representing each School/Centre/ College on the rotation. The representation shall be given to each Department/School/Centre. The rotation shall be carried till all get representation.	<ol style="list-style-type: none"> 1. Prof. J.N. Baliya, Dept. of Educational Studies 2. Prof. Ajay Kumar Sharma, Dept. of Mathematics
XV.	Two Associate Professors who are not Heads of Teaching Departments. The Associate Professors to be nominated by the Vice Chancellor representing each School/ Centre/ College on the rotation. The representation shall be given to each Department/ School/ Centre. The rotation shall be carried till all get representation.	<ol style="list-style-type: none"> 1. Dr. Uday Pratap Singh, Associate Professor, Dept. of Mathematics 2. Dr. Dhanananajay Kumar, Associate Professor, Dept. of Zoology

XVI.	Two Assistant Professors by rotation, to be Nominated by the Vice Chancellor.	<ol style="list-style-type: none"> 1. Dr. Vinita Sharma, Assistant Professor, Department of Zoology 2. Dr. Naresh Kumar, Assistant Professor, Dept. of Marketing and Supply Chain Management
Representatives of Non-Teaching Staff		
XVII.	Three members of the non-teaching Staff, one from each of the following categories, to be nominated by the Vice Chancellor on rotation basis.	<p>Group 'A'</p> <ol style="list-style-type: none"> 1. Dr. Vijayata Puri Senior Medical Officer <p>Group 'B'</p> <ol style="list-style-type: none"> 2. Ms. Radha Kumari, Personal Assistant <p>Group 'C'</p> <ol style="list-style-type: none"> 3. Ms. Harinder Kour Upper Division Clerk
Persons representing learned Professions and Special interests		
XVIII.	Six persons representing learned professions and special interests including representatives of Industry, Commerce, Trade Unions, Banking, Agriculture, Health & Culture, Financial Institutions, Legal, Bureaucrat, Police/Army, Eminent Academicians, Engineering/Architecture, Media, TV/Film, Social Work, Corporate, etc. to be nominated by the Executive Council.	Vacant
Nominees of the Chancellor		
XIX.	Two persons to be nominated by the Chancellor from Vice Chancellors and Eminent Academicians.	Vacant
XX.	One Alumni representative and student council	<ol style="list-style-type: none"> 1. Alumni Vacant 2. Student Council Representative Vacant

Executive Council

Structure of the Executive Council	Executive Council Members
a) Vice Chancellor	Chairperson (Ex-officio)
b) Pro-Vice-Chancellor	Member (Vacant)
c) Secretary, Department of Higher Education, MHRD, GOI or his/her nominee not below the rank of Joint Secretary	Member (Ex-officio)
d) Chairman, UGC or his / her Nominee	Prof. Anu G. Aggarwal Department of Operational Research Faculty of Mathematical Science University of Delhi
e) Secretary of the State Government dealing with matters relating to Higher Education	Member (Ex-officio)
f) Four persons of distinction in academics to be nominated by the Visitor (vide MHRD letter No.F.No.52 1/2019-CU-III dated 18.02.2019)	<ol style="list-style-type: none"> 1. Prof. Devinder Singh Chairperson, Department of law, Punjab University, Chandigarh 2. Prof. Jaya Prakash Yadav Vice Chancellor, Indira Gandhi University, Meerpur, Rewari 3. Prof. Anu G. Aggarwal Dept. Of Operational Research, Faculty of Mathematical Science, University of Delhi 4. Prof. Usha Mina School of Environmental Science, JNU, New Delhi
g) Three eminent academicians not in the service of the University, to be nominated by the MHRD from amongst a panel recommended by the Executive Council;	Member (Ex-officio)

h) One member of the Court nominated by the visitor	Member (Vacant)
I) Three Deans of Schools of Studies by rotation according to seniority	<ol style="list-style-type: none"> 1. Prof. Vinay Kumar Dean, School of Basic and Applied Sciences 2. Prof. Vandana Sharma Dean, School of Language 3. Prof. Sunil Dhar Dean, School of Life Science
j) One Professor who is not a Dean, by rotation according to seniority, to be nominated by the Vice-Chancellor	Prof. Deepak Pathania Professor, Dept. of Environmental Sciences
l) Registrar	Secretary (Ex-officio)

Academic Council

a.	Vice Chancellor	Prof. Sanjeev Jain Hon'ble Chairman
b.	Pro Vice Chancellor	Member
c.	Deans of Schools of Studies	Member
d.	Dean of Students Welfare	Member
e.	Proctor	Member
f.	Librarian	Member
g.	One member of the Court from amongst the elected members of the Court to be nominated by the Court	Vacant
h.	Ten Heads of Teaching Departments on the basis of seniority and rotation to be nominated by the Vice Chancellor	<ol style="list-style-type: none"> 1. Head, Dept. of Botany 2. Head, Dept. of Hindi & other Indian Language 3. Head, Dept. of English 4. Head, Department of Educational Studies 5. Head, Dept. of Physics & Astronomical 6. Head, Department of Electronic & Communication Engineering 7. Head, Dept. of Computer Science & Engineering 8. Head, Dept. of Zoology 9. Head, Dept. of Scial work 10 Head, Dept. of Mass Communication & New Media
I.	Five Directors of Centres, if any, on the basis of seniority and rotation to be nominated by the Vice Chancellor	<ol style="list-style-type: none"> I. Director, DRDO Industries Academia- Kalam Centre of Excellence II. Director, Centre for Molecular Biology III. Director/Convener, SDSC IV. Director, CCRC V. Vacant
j.	Two Professors, who are not Dean of Schools or Head of the Departments/ Centres and not Members of Executive Council, from each School, on the basis of seniority and rotation to be nominated by the Vice Chancellor	<ol style="list-style-type: none"> I. Prof. Suram Singh, Dept. of Physics & Astronomical Science (Till 25.08.2027) II. Prof. J.N. Baliya, Dept. of Education (Till 25.08.2027)

k.	Two Associate Professors, who are not covered in in (c), (d), and (e) above, or not Head of the Departments or not Members of Executive Council, by rotation according to Seniority, to be appointed by the Vice Chancellor	<p>i. Dr. Neerendra Kumar Associate Professor, Dept. of CSIT (Till 25.08.2027)</p> <p>ii. Dr. Rouchi Choudhary Associate Professor, Department of PPPA(Till 25.08.2027)</p>
l.	Two Assistant Professors, who are not Members of Executive Council, by rotation according to Seniority, to be appointed by the Vice Chancellor	<p>i. Dr. Anjali Pathania Assistant Professor, HRM&OB</p> <p>ii. Dr. Bharti Gupta Assistant Professor, TTM</p>
m.	Ten Persons, not in the service of the University, co-opted by Academic Council for their Special Knowledge in Educational Progress, Development and Industry Linkage	<p>i. Anil Goyal, Professor, Dept. of Applied Mathematics RGPV Bhopal</p> <p>ii. Dr. Swati Sherekar Professor, Department of Computer Science & Engineering Amravati University, Amravati</p> <p>iii. Dr. Nanhay Singh, Professor, Dept. of Computer Science & Engineering, Neetaji Subhas University Of Technology, New Delhi, Haryana</p> <p>iv. Mr. Rajeev Kumar, Global Head, Talent Alliances Salesforce-118 Crescent, Forest Trail Bhuugan, Pune-412115</p> <p>v. Dr. Sudheer Kumar N, Director ISRO HQ, Antriksha Bhawan, New BEL Road Bangalore-560094</p> <p>vi. Dr. Amit Sharma, Directore & Advisor Cyber DRDO, Ministry of Defence , DRDO Bhawan New Delhi- 110023</p> <p>vii. Prof. VK Gupta, Department of Finance & Accounting Mingore- MP</p> <p>viii. Prof. Kamal k. Kapoor Department of Chemistry, University of Jammu</p> <p>ix. Mr. Jitendra Chaddah, VP Global Head, Bangalore-560045</p> <p>x. Mr. Arvind Dixit Advance Tech India Pvt. Limited, Chandigarh</p>
n.	Registrar	Secretary (Ex-Officio)

Infrastructural Highlights

To meet the contemporary demands of many programmes, the University has state-of-the-art infrastructural facilities such as smart class rooms, well-equipped Research Laboratories, and Lecture Theatres. The University has a fully automated library that is stocked with an adequate number of books (both physical and electronic), journals (both physical and online), and reference materials relating to the many disciplines/programs of study provided by the University.

Internet & ICT Labs

The University is equipped with seamless Wi-Fi 1GB connectivity and students can access the internet through their own laptops from anywhere in the Campus. The University also has the state of the art ICT Labs equipped with high-end PCs loaded with necessary software accessible to the students of all the disciplines. The University has two Well-equipped Auditoria, with a seating capacity of 120 and 160. Each Academic Block has separate committee room available for conducting official meetings, Seminars and /or other academic activities



Central Library

The Central Library is fully automated, which is integrated with RFID using Open-Source Library automation software KOHA having approximately 35,000 books. The library management software covers acquisition cataloguing, circulation and Online Public Access Catalog (OPAC). The Central library is member of Library is member of DELNET (Developing Library Network), New Delhi.



A. Resources

Number of Books	35275
Book Bank Books	6285
Theses and Dissertation	1200+
E-Journals	5118
Print Journals	20
Data bases	5

Services to Users

The Central Library also have access to a range of E-Journals and E-DATABASES on various themes which includes E-Shodhsindhu and resources from E-- leading publishers like IEEE, Wiley, ELSIVER Springer, Taylor & Francis and JSTOR through One Nation One Subscription platform provided by Ministry of Education, Government of India .The Central Library also has computer facility with Wi-Fi connectivity for research scholars and students.

B. Reprographic Services

The Central Library provides photocopy service etousers atnominal rate.

C. Reference Service

The Central Library also provides reference services for procuring books, Journals, Magazines and Articles from other sources.

D. Anti Plagiarism Software

The Central Library isusing Then ticate and Drill Bit Extreme software for checking plagiarism of students and scholar thesis and articles.

E. Shodhganga

Central Library uploads Ph.D. thesis of scholars of Central University of Jammu on Shodhganga, INFLIBNET online.

CABINET DECISION
25th NOVEMBER, 2024

**One Nation
One Subscription**

- Benefits to be managed through a national subscription coordinated by the **Information and Library Network (INFLIBNET)**, an autonomous inter-university centre of the **University Grants Commission (UGC)**
- Scheme to benefit nearly **1.8 crore students** in **6300 Institutions**
- Department of Higher Education to have a unified portal **"One Nation One Subscription"** through which the Institutions will be able to access the journals.

Laboratories

University provides well equipped laboratory facilities to its students, faculty and staff for carrying out teaching, research and practical activities. The University has dedicated labs for various disciplines of Sciences, Engineering and Social Sciences .The Lab facilitates cater to the needs of current technology trends and demand to create highly skilled professionals world wide.



Language Lab

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. Healthcare

Health Centre

Medical facilities with fulltime Doctors and nursing staff are available for the students, staff and faculty of the University at its campus. The University conduct s regular Health Awareness and Check up programme sinits campus for the benefit of its students, faculty and staff.

Canteen/Cafeteria

The University has aspacious, airy canteen where students and teaching faculty get anopportunity to relishtheneat and clean eatables prepare dun der hygienic condition satits campus.

Banking and ATM Facilities

University provides banking facilities to its faculty and students for all kinds of transactions. For the convenience of staff and Students University campus houses branches of J&K Bankand SBI. ATMs of HDFC and J&K Bank have been installed at the main campus building to facilitate students and faculty.

To achieve research excellence, Central University of Jammu has undertaken 126 projects valued at Rs. 47.13 crore. Among these, 56 projects worth Rs. 31.88 crore have been completed, while 70 projects worth Rs. 15.25 crore are currently on going in the current academic session. These projects are funded by various agencies, including the National Board of Higher Mathematics, Department of Atomic Energy(GOI), SERB, UGC, ICSSR, DST, IUAC, Ministry of Textiles(GOI), DeITY(GOI), MSME(GOI), Ministry of New and Renewable Energy(GOI), and EDII, Ahmedabad, among others.

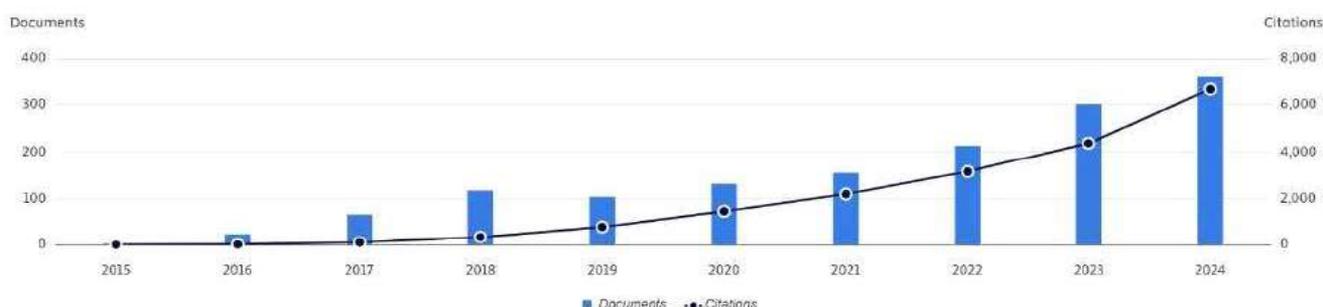
Citation overview

For 1,109 documents

1,109 Documents 20,973 Citations 60 h-index

Date range: 2015 to 2024

Exclude self citations Exclude book citations Hide documents with 0 citations [Export](#)



In terms of quality publications, patents, and intellectual property rights (IPR), faculty members and students have achieved a commendable position in the Nature Index Ranking, securing 49th place among universities in India for 2024. The Nature Index Ranking is renowned for its rigorous evaluation of research output across high-quality scientific journals, highlighting CU Jammu's significant contributions, particularly in the fields of Chemistry, Earth Sciences, Physical Sciences, and Life Sciences. To date, a total of 1,325 high-quality publications have been produced, along with 17 patents and IPR filings, resulting in a h-index of 62 and a total of 20,645 citations as of January 2025. Over the past year, 1,491 quality papers have been published by the faculty and students at Central University of Jammu. This year, the university aims to strengthen the academic-industry interface, particularly focusing on industries in the northern region, especially in Jammu and Kashmir.

Additionally, the Central University of Jammu has established the CUJSITE Council (a Section 8 company) and Institute Innovation Cell (IIC), providing a platform for start-ups and innovations. The CUJSITE Council has also been awarded a project under the GENESIS SCHEME from a reputed institution.

Central Instrumentation Facility

The Central Instrumentation Facility (CIF) has been established with the objective of providing sophisticated characterization services to the Industry, and researchers within and outside the Central University of Jammu. The CIF houses several high-end state-of-the-art instruments. It aims to provide a central facility consisting of the latest and advanced analytical Instruments to facilitate multi disciplinary research and to cater to the needs of academic research institutes, universities, and industries for high-end material characterization.



Courses Offered

School of Business Studies

- **MBA**
- **MBA**
(Tourism & Travel Management)
- **MBA**
(Marketing Management)
- **Ph.D**

School of Basic and Applied Sciences

- **M.Sc. Mathematics**
- **Integrated B.Sc. (H) -**
M.Sc. (Physics)
- **Integrated B.Sc. (H) -**
- **M.Sc.**
(Chemistry)
- **M.Sc. Material Science & Technology**
- **M.Tech.**
(Computer Sciences)
- **Ph.D**
(Mathematics/Physics/Chemistry/Material
Science/ Computer Science)

School of Educations

- **B.A. - B.Ed.**
- **M.Ed.**
- **Ph.D**

School of Humanities and Social Sciences

- **M.Sc. (Economics-Integrated 5 years)**
- **M.A. Public Policy & Public
Administration**
- **M.A. Mass Communication & New
Media**
- **PG Diploma in Indian Mystical
thoughts/ Saivism / Brahmi & Sharda**
- **Ph.D**

School of Engineering & Technology

- **B.Tech (CSE)**
- **B.Tech (CSE)-Cyber Security**
- **B.Tech (ECE)**
- **B.Tech (ECE)-Avionics**

School of Languages

- **M.A. English**
- **M.A. Hindi**
- **Ph.D**

School of Life Sciences

- **M.Sc. Environmental Studies**
- **Integrated B.Sc. (H) -**
M.Sc. Zoology
- **Integrated B.Sc. (H) -**
M.Sc. Botany
- **M.Sc. Biotechnology**
- **Ph.D**
(Botany/Zoology/EVS/Biotechnology)

School of National Security Studies

- **M.A. National Security Studies**
- **Ph.D**

School of Knowledge Management, Information and Media Studies

- **M.A. Social Work**
- **Ph.D**

Community College

- **Bachelor of Vocational Studies**
- **Banking & Financial Services**
- **Tourism Management**
- **Retail Management**



School of Languages

- Hindi and other Indian Language Department
- Department of English

Hindi and other Indian Language Department



About the Department

Jammu and Kashmir State of Jammu zone of linguistic structure and local demand to see happened Central University Jammu in Hindi and other Indian language department of August 2015 established. This department to National language Hindi and literature of study and research of with only Dogri and other local languages of study of main center make know of target kept went. present in department Honorable Vice Chancellor Prof. Sanjeev Jain yes of direction in development oriented is and new dimensions to get to for committed is. department in M.A. and Ph.D. course operated are. department Hindi language, literature and inter- disciplinary Indian languages and literature of teaching by Indian civilization, culture, philosophy and Socio - political challenges from familiar to get of per committed is. department update techniques of use do happened new themes - creative writing, screenplay writing, journalism, translation and purposive Hindi etcetera employment oriented teaching of per determined is. department ancient, medieval, traditional, modern literature, discourse, linguistics, poetics and comparative study etcetera but research work of for committed is.

Programme offered :

**M.A.
Ph.D. Hindi**

Faculty details:

S.No.	Name	Designation	Area of specialization
1	Prof. Bharat Bhushan	Professor	Katha Sahitya, Hindi Sahitya Ka Itihas, Bhartiya Sahitya
2	Dr. Shashikanta Mishra	Associate Professor	Madhykaleen Evam Adhunik Kavya
3	Dr. Ratnesh Kumar Yadav	Associate Professor	Katha Sahitya, Hindi Natak, Kathetar Sahitya
4	Dr. Vandana Sharma	Assistant Professor	Gady Sahitya, Bhartiya Sahitya
5	Dr. Vinay Kumar Shukla	Assistant Professor	Hindi Kavita (Bhakti Kavya, Adhunikavya), Lok Sahitya, Bhartiya Sahitya, Hindi Gazal
6	Dr. Arvind Kumar Yadav	Assistant Professor	Linguistics & Stylistics

Eminent Lecture/Extensive lecture organized.

S.No.	Topic	Speaker	Date
1	Qualitative Research and Researcher	Prof. Ramesh Kumar Pandey	28-11-2024
2	Journalism In students Of Future	Mister Anil Gakkad	06-11-2024
3	Ramvilas Sharma of literary Criticism Vision	Pro Jayant Tax Sharma	24-10-2024

Faculty Publications :

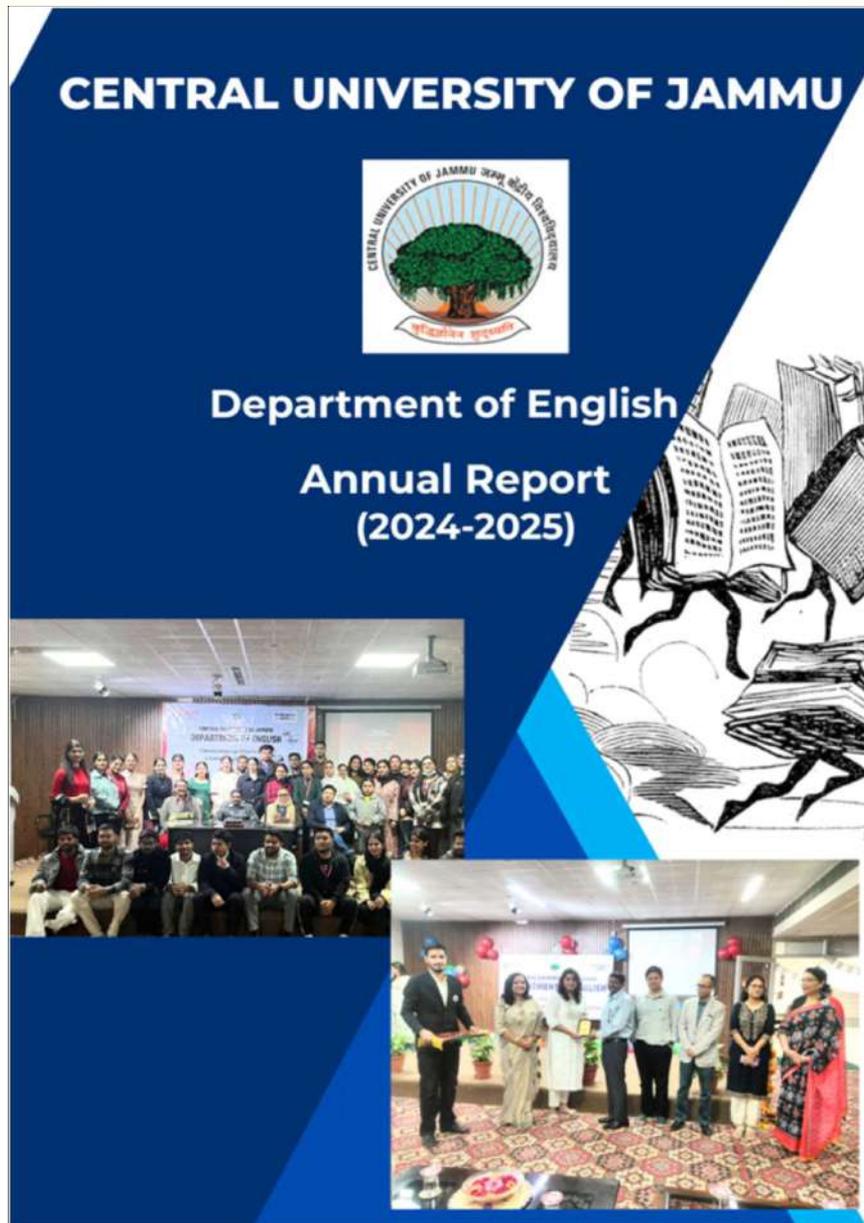
S.No.	Faculty name	Title of paper / Book	ISSN NO. / RIN No. / ISBN No.	Name of Journals/ Issue of Publication	Year of Publication
1	Prof. Bharat Bhushan	Nirmal Varma of Story World in Honesty And Truth	2277-9264	Sankalay (संकल्य)	April - June 2024
2	Prof. Bharat Bhushan	Hindi Language In Social Media Of Expansion	2277-9264	Sankalay (संकल्य)	October - December 2024

3	Prof. Bharat Bhushan	somewhere - unsaid In vision impaired characters of Pain : One Evaluation	2277-9264	Sankalay (संकल्य)	January - March 2025
4	Prof. Bharat Bhushan	Indian Knowledge legacy And Jammu and Kashmir Of Hindi Literature	978-93-48639-92-9	Jammu and Kashmir of Hindi Literature And Culture (edited) Book)	February, 2025
5	Dr. Shashikanta Mishra	Hindi Ghazal legacy And Lokman Of Reality	2277-9264	Sankalay (संकल्य)	April - June 2024
6	Dr. Shashikanta Mishra	Nirmal Varma Of Story World In Honesty And Truth	2277-9264	Sankalay (संकल्य)	April - June 2024
7	Dr. Shashikanta Mishra	Sudarshan Vasishta of Stories Marines hill Life	2277-9264	Sankalay (संकल्य)	From October 2024 March, 2025
8	Dr. Shashikanta Mishra	Woman discussion Of Light In " women Who River Is"	2348-4977	World Bharti Magazine, Shantiniketan	April - June 2024
9	Dr. Shashikanta Mishra	Jammu Kashmir of Hindi journalism And people Chetan	978-93-48639-92-9	Jammu and Kashmir Of Hindi Literature And Culture (edited) Book)	February, 2025
10	Dr. Shashikanta Mishra	Sarveswardayal Saxena of Romantic Poems : Object And Form	2277-9264	Sankalay (संकल्य)	January - March 2025
11	Dr. Ratnesh Kumar Yadav	"Mortgage But Raghu In globalization And Society"	2277-9264	Sankalay (संकल्य)	October - December 2024
12	Dr. Ratnesh Kumar Yadav	"Social conversion Of Question And Hindi Novel"	2349-137X	Anhad Lok (अनहद लोक)	July - December 2024
13	Dr. Ratnesh Kumar Yadav	"Hair Literature of contextual Directions"	2322-0724	Apani Mati (अपनी माटी)	October - December 2024
14	Dr. Ratnesh Kumar Yadav	Compound Culture Of Reference In Hindi Language And Literature"	2321-4945	bilingual national servant	November, 2024
15	Dr. Ratnesh Kumar Yadav	" Post independence Hindi Travel Literature In Environment discussion	2993-4648	Research Flourishing	October – December, 2024

16	Dr. Ratnesh Kumar Yadav	Jammu and Kashmir : Language Literature And Culture	ISBN : 978-93-48639-92-9	Book - Jammu and Kashmir Of Hindi Literature And Culture, Saptarishi Publication, Chandigarh -2025	2025
17	Dr. Vandana Sharma	Somewhere unsaid In vision impaired characters of Pain: One Evaluation	2277-9264	Sankalay (संकल्य)	January - March, 2025
18	Dr. Vandana Sharma	Jammu Kashmir Of Hindi Literature And Culture	978-93-48639-92-9	Jammu and Kashmir Of Hindi Literature And Culture, Saptarishi Publication, Chandigarh-2025	February, 2025
19	Dr. Arvind Kumar Yadav	Rajesh Joshi of poems In expressed Reality	2321-4945	Bilingual National Servant	March, 2025
20	Dr. Arvind Kumar Yadav	Whom First Line In Place No found	2321-4945	Bilingual National Servant	April, 2024
21	Dr. Arvind Kumar Yadav	Sensations To underlined does Manglesh Dabral of poems	2321-4945	Bilingual National Servant	April, 2024

Research Projects:

Faculty	Year of Sanction	Funding Agency	Status of Projects	Amount
Dr. Ratnesh Kumar Yadav	April, 2024	Indian Social Science Research Council ICSSR	Ongoing is ongoing	2900000/- Twenty Nine Lakh



About the Department

The Department of English, instituted in July 2011, envisions becoming a center of academic excellence in English Literature by integrating contemporary literary theories, interdisciplinary approaches, and emerging pedagogical practices. It offers a comprehensive two-year Master's programme in English Literature under a Choice-Based Credit System comprising 80 credits. From the academic session 2025 onwards, the Department is introducing a B.A. Honours programme in English Literature, aimed at providing students with a strong foundation in literary studies through the exploration of diverse texts, theories, and cultural contexts. The Department also offers a Ph.D. programme that fosters advanced research in various thrust areas of literary and cultural studies. The curriculum emphasizes the origin and development of English literary traditions across historical periods, regions, and genres. It includes specialized courses in Indian novels in English translation and introduces students to critical areas such as caste, gender, ethnic, and indigenous studies. These programmes prepare students for careers in teaching, research, writing, publishing, and related fields.

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Prof. Vandana Sharma	Dean, School of Languages	Postcolonial Studies, Translation Studies, Indian Literatures, South Asian Literature, Gender Studies, Film Studies, Environmental Humanities
2	Dr. K. Rajesh Associate Professor	Associate Professor Head of the Department	Communication Skills, Academics Writing, Literary Theory, Indian Literature, Dalit Literature, Cultural Studies
3	Dr. Neena Gupta Vij	Assistant Professor	Women's Studies, Post Colonial Studies, American Literature, Diaspora Studies, Myth Studies, Contemporary Fiction
4	Dr. M.A.A Farooq	Assistant Professor	Post Colonial Studies, Comparative Literature, Literature of the Subcontinent
5	Dr. Raj Thakur	Assistant Professor	Critical Theory, Cultural Studies, Popular Culture, Visual Culture
6	Dr. Parveen Kumari	Assistant Professor	Dalit Literature, Subaltern Writings

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1	Writings of Exile and Dispora Research for Resurgance	Prof. Sandhaya Tiwari	30 th April, 2024

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1	Capacity Building Program Workshop	Central University of Jammu	2 nd Nov, 2024
2	Educational Outreach Programme for students from Carmel Convent School, Jammu	Central University of Jammu	14 th September, 2024

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1	Plenary Speaker in ICSSR Sponsored Two-Day National Seminar on Indigenous Languages and NEP-2020: Pathways to Sustainable Education and presented a papers on 'Factors responsible for perishing of indigenous languages and possible actions against those factors 'organised by Department of Education, Central University of Jammu.	Prof. Vandana Sharma	Department of Education, Central University of Jammu	on 18th -19th March, 2025
2	Plenary Speaker in Two-Day International Conference on Exploring the Literary Space as a Bridge Across Disciplines and presented a paper on 'Interdisciplinary and Transdisciplinary Turns in English Literary Studies w.s.r. to Environmental Humanities'	Prof. Vandana Sharma	Govt. College Una, H.P	on 16th Nov., 2024
3	Plenary Speaker in Two-Day National Conference (24-25 Oct.2024) on the theme Indian Ethos in English Writings (IEEW2024), hosted by the Department of English, School of Languages, Central University of Kashmir, and presented a paper on Environmentalism, Ecocriticism and Bhartiya Ethos	Prof. Vandana Sharma		
4	Presented a paper entitled, “Literary Responses to Partition” in a National Seminar on Partition Horrors Remembrance Day held on 14 August, 2024 in the Central University of Jammu.	Prof. Vandana Sharma	Central University of Jammu.	14 August, 2024
5	BOOK NEP -2020 for Viksit Bharat: Integrating Bhartiya Knowledge Systems with Education. Highbrow Publications, ISBN : 978-81-978425-3-5, 2024	Prof. Vandana Sharma		3-5, 2024

6	विचार औषध Trans. Therapeutic Thoughts: An Exegetical Enquiry into Indian Knowledge Traditions, Highbrow Publications, Jammu. 2024			2024
7	Received Patent rights in the area of “ARTIFICIAL INTELLIGENCE BASED ENGLISH LANGUAGE TRANSLATOR DEVICE”	Dr. K. Rajesh	Govt of India	30/09/2024
8	Applied patent titled “Artificial Intelligence-Based English Language Pronunciation Training and Feedback System”.	Dr. K. Rajesh	Govt of India	03/07/2025
9	Working on a Project “Development of Interactive English Language Learning Software for Engineering Students” Approved by HVC Sir.	1. Dr. K.Rajesh 2. Dr. Jaswanth		
10	Presented paper titled “English: An Opportunity To Dalit (Outcaste) Empowerment” presented paper at 22nd Asia TEFL International Conference held at Chiang Rai Rajabhat University, Chiang Rai, Thailand	Dr. Parveen Kumari		15-17 November 2024
11	Topper (Medalist) Swayam-NPTEL Course: Modernisation and Creative Communication (IIT Kharagpur)	Dr. Raj Thakur	Swayam-NPTEL. (IIT Kharagpur)	Feb-April 2025

Faculty Publications :

S. No.	Faculty Name	Title of Paper / Book	IISN NO. / RIN No. / ISBN No	Name of Journals / Issue of Publication	Year of Publication
1	Prof. Vandana Sharma	Environmental Uncanny : Ecocosmopolitanism and Advaitain_Amitav_Ghosh's_The_Great_Derangement_and_Gun_Island	770973372008. IUP Journal of English Studies. SCOPUS Indexed, EBSCO and UGC CARE List ISSN 770973372008	UP Journal of English Studies. SCOPUS Indexed, EBSCO and UGC CARE List ISSN	June 2024
2	Dr. Kambhampati Rajesh	Virginia Woolf's "Mrs. Dalloway": A Psychoanalytic Study of Characters	2581-8333	International Journal Of English and Studies (IJOES)	December 2024
3	Dr. Kambhampati Rajesh	Reimagining Humanity: Posthumanist Reflections in Mary Shelley's 'Frankenstein'	2581-8333	International Journal Of English and Studies (IJOES)	August, 2024
4	Dr. Kambhampati Rajesh	Titus Andronicus: Tragedy, Vengeance, and the Human Condition	3049-2033	Literary Enigma: The International Journal of English Language, Literature and Culture	March 2025
5	Dr. Kambhampati Rajesh	Navigating Fate and Agency: A Comprehensive Study of Fatalism in Shakespeare's 'Twelfth Night'	3049-2033	Literary Enigma: The International Journal of English Language, Literature and Culture	February 2025
6	Dr. Kambhampati Rajesh	Orality and Indian Regional Literatures: Exploring Telugu Language as a Case Study	2349-9451	International Journal Of English Language, Literature And Translation Studies (IJELR)	April-June 2025
7	Dr. Kambhampati Rajesh	Foundations of Language and Literature: Developing Communication Skills through Short Stories and Poems (BTech Text Book) (Prepared by Dr. K. Rajesh)(For BTech Students)			

8	Dr. Neena Gupta Vij	Child is the Father of Man: Exploring Eco-consciousness in Selected Children's Stories	978-93-6095-132-0	Climate Change, Cultural Trends and Literature pp- 69-85	2025
9	Dr. Neena Gupta Vij	Ramayana in Translation: An Overview of the Epic as a Multilingual Heritage	003-6218	Anuvadpp-323-349 Volume 203-204 Issue 2 Translator's Association of India	2025
10	Dr. Raj Thakur	Desert(ed) nuclear scapes: a geontological reading of Uday Singh's Pokhran: a novel	ISSN: 1474-4740; Online ISSN: 1477-0881. https://doi.org/10.1177/14744740241293099	Cultural Geographies. October, 2024. Sage. U.K. [SSCI, Scopus Indexed]	2025
11	Dr. Raj Thakur	Popular Culture in South Asian Context. Edited Book. Akshaya Kumar & Raj Thakur. Routledge, Taylor & Francis. U.K. [Scopus Indexed]	ISBN: 978-1-032-72745-5 (hbk) ISBN: 978-1-032-79456-3 (pbk) ISBN: 978-1-003-49208-5 (ebk) DOI: 10.4324/9781003492085	Routledge. Taylor & Francis. [Scopus Indexed]	
12	Dr. Raj Thakur	"Recast(e)ing Sports on Screen: A Critical Study of Popular Postmillennial Sports Films in India"	eISSN: 14603551 ISSN: 13675494	European Journal of Cultural Studies. Sage . U.K. [SSCI, Scopus Indexed]	
13	Dr. M.A. Afzal Farooq	Demystifying Pashtun-Hazara and Shi'a-Sunni Conflict in Khaled Hosseini's The Kite Runner. Pgs. 63-74	Vol. 6, Issue 9, (Oct), 2024. ISSN: 2581-8333	International Journal of English and Studies. SP Publications,	2024
14	Dr. M.A. Afzal Farooq (Co-author)	Unheard Voices: The Psychological Interpretation of Dalit Women in Shilpa Anthony Raj's The Elephant Chaser's Daughter. Pp. 1-12	DOI: 10.1080/00497878.2024.2441168 ISSN: 00497878 (Print) ISSN: 15477045 (Online)	Womens' Studies: An Interdisciplinary Journal Routledge Taylor and Francis Group	Jan 03, 2025

15	Dr. M.A. Afzal Farooq (Co-author)	Decoding What Paralyzes Afghanistan in Khaled Hosseini's The Kite Runner. Pp. 1-8	Vol. 10, Issue 1 (Jan-March, 2025) ISSN: 2456-2696	Research Journal of English (RJOE) (International Approved Peer-Reviewed and Refereed English Journal) DoI:10.36993/RJOE.2025.10.2.8	Jan-March, 2025
16	Dr. Parveen Kumari	“Mapping of Environmental Injustice in Bengali Dalit Women's narratives”	2456-0502	Contemporary Voice of Dalit (Sage journal)	June 2025
17	Dr. Parveen Kumari	“English as second/ third language in India: Methodology and Teaching Approaches”	ISSN 2579-9533	LLT Journal: A Journal on Language and Language Teaching (Scopus Indexed)	Under review

About the Department

The Department of Educational Studies under the aegis of the School of Education was established in the year 2012 at the Central University of Jammu and stands as a beacon of excellence in the realm of Teacher Education. With a rich history and a clear mission, this department has played a pivotal role in shaping the future of teacher education in the region by offering a wide array of academic programs -

- **Two-year M.Ed. Programme.**
- **Four-year Integrated B.A.B.Ed. Programme.**
- **Ph.D. Programme in Education.**

Vision

The vision of the department is to become a leader in teacher education by providing high-quality and research-based teacher training and promoting academic excellence of the students

Mission

The Department of Educational Studies (DES) is dedicated to producing a community of skilled teacher. In the future the department aimed to:

- **Promote Academic Excellence**
- **Lead in Research**
- **Train Educational Managers**
- **Collaborate with Others**

Programme offered

- **Two-year M.Ed. Programme.**
- **Four-year Integrated B.A.B.Ed. Programme.**
- **Ph.D. Programme in Education.**

Faculty details :

S. No.	Name	Designation	Area of Specialization
1	Dr. J.N Baliya	Professor	Instructional Designing, ICT, Research & Data Analysis, Curriculum Development
2	Dr. Ritu Bakshi	Professor	Sociological foundations of Education, Gender Studies & Guidance and counselling
3	Dr. Asit K. Mantry	Professor	Educational Leadership, Integral Education, Value Education
4	Dr. Kiran	Assistant Professor	Inclusive Education, Teacher Education
5	Dr. Aman	Assistant Professor	Educational Psychology, Tribal Education, Teacher Education, School Education
6	Dr. Ravi Vanguri	Assistant Professor	Teacher Education, Language Education, English Language Teaching, Educational Research
7	Dr. Yad Ram	Assistant Professor	Elementary Education, Secondary Education, Evaluative Studies of Educational Schemes and Programmes, Teacher Education
8	Dr. Mohan Galgotra	Assistant Professor	Educational Research, School Education, Higher Education, Educational Psychology

Eminent Lecture/Extensive lecture organized.

S.No.	Topic of the Lecture	Speaker	Date
1	<i>Shiksha Shastraarth</i> on “Significance of Collaborative Research in Social Sciences”	Prof. Pawan, C.U. Jammu	12-12-2024
2	Shiksha Shastraarth on Scientific Writing	Dr. Seema Thaapa, University of Nagaland	02-02-2024
3	Workshop on Interview Etiquettes	Mr. Viraj Magotra & Mr. Suryansh Dubey Central University of Jammu	19-03-2024
4	Shiksha Shastraarth on Dr. B.R. Ambedkars Vision of Visit Bharat	Prof. Vinay Kumar Central University of Jammu	14-04-2024
5	Extension Lecture on Geographical Prospects of Climate Change	Dr. Lokinder Singh Cluster University of Jammu	15-04-2024
6	Thursday Mindmeet on Transforming the Role of Teachers and Teacher Educators in the Light of NEP 2020”	Prof. Madhu Singh Prof. Vandana Sharma Prof. Ritu Bakshi	25-04-2024
7	Shiksha Shastraarth on Recent Advancements in Educational Research	Prof. Rajeev Rattan Sharma University of Jammu	10-05-2024

Outreach Awareness Program organized.

S.No.	Name of the Event	Place	Date
1	Har Ghar Tiranga Rally (coordinated the event organized by NSS, Central University of Jammu)	Rahya-Suchani Villlage	August 14, 2024
2	Fashion Show under Swachchhta Hi Seva hei 2024 (Co-convened the event organized by Department of Environ-mental Studies, Central University of Jammu under GOI campaign on Swachchhta hi sewa hei)	Central University of Jammu	September 26, 2024
3	Fitness Walk on Women's Day (Coordinated the programme organized by the Directorate of Physical Education, Central University of Jammu)	Central University of Jammu	March 07, 2025
4	Social Science Exhibition cum Fair (coordinated the event)	Department of Educational Studies, Central University of Jammu	January 11-26, 2025

Faculty Achievements

S.No.	Achievement	Name of the Faculty	Agency	Date
1	IPR on life skills empowerment model for tribal adolescents lsemta	Dr. Aman, Mohamad Hdyitulah & Prof. J. N. Baliya	Copyright Office, GOI	12-03-2025
2	Member, Anveshika Journal, NCTE	Prof. J. N. Baliya	NCTE	09-04-2025
3	Organized Two-Day National Seminar on “Indigenous Languages and NEP-2020: Pathways to Sustainable Education”	Dr. Ravi Vanguri	2,00,000/- Funded by ICSSR	12-11-2024
4	Minor research project awarded	Dr. Mohan Galgotra (PI) & Dr. Yad Ram (Co-PI)	9,00,000/- Funded by ICSSR	01-04-2025

Faculty Publications :

S.No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1	Asit K. Mantry	Exploring Sri Aurobindo's vision on educational leadership and their suggested practices	1360-3124 (Print) 1464-5092 (Online)	International Journal of Leadership in Education (Scopus Indexed)	Online/03 Feb 2025
2	Asit K. Mantry	Educational Administration and Management of Vedic Gurukulas: A Systematic Review of Literature	2277-4351	VaidikaVag Jyotih (UGC-CARE)	12(23)/147-159/2024
3	Asit K. Mantry	Educational Status of the Under-privileged Classes in Jammu and Kashmir: A Reflection on Pre and Past Abrogation of Article 370	2157-8893	Journal of Business & Economics Research (ABDC)	Vol. 18(1)/16-30/2025
4	Asit K. Mantry	Integrating Google Maps into geography education: a course evaluation of student achievement, geographical thinking, and map reading skills	doi.org/10.1080/23729333.2025.2506895	International Journal of Cartography (Scopus Indexed)	Received 19 Nov 2024, accepted 13 May 2025, Published online: 19 Jun 2025
5	Prof. J. N. Baliya	Unveiling Educational Transformation: Innovative Holistic Assessment for a Distinctive Learning Journey	0976-0997	Indian Journal of Natural Sciences	2024
6	Prof. J. N. Baliya	Pandemic Accelerated Digitalization of Education: Perspective from Economical Terms	0976-0997	Indian Journal of Natural Sciences	2024

7	Prof. J. N. Baliya	Investigating Pre-service Teachers Awareness of Cybercrime and Cybersecurity	0975-0665	Insight-Journal of Applied Research in Education	2024
8	Prof. J. N. Baliya	Virtual Laboratories as Facilitators of Educational Equity: Empowering Educationally Deprived Learners through Technological Innovations	0976-0997	Indian Journal of Natural Sciences (WoS Indexed)	2024
9	Prof. J. N. Baliya	MOODLE in the Academic Sphere: A Tertiary Level Perception Analysis	0976-0997	Indian Journal of Natural Sciences (WoS Indexed)	2024
10	Prof. J. N. Baliya	Career Preferences of Senior Secondary- School Students in Relation to Some Socio-Environmental Variables	0972-5830	IJVE (PSS CENTRAL INSTITUTE OF VOCATIONAL EDUCATION, NCERT)	2024
11	Prof. J. N. Baliya	Introducing LXP as an Organizational Online Learning Tool: Blessing for Digital Learning Environments			
12	Prof. J. N. Baliya	आभासी प्रौद्योगिकी का समय शैक्षिक मूल्यांकन में समुचित प्रयोग चुनौतियाँ और संभावित समाधान	2454-972X	Himprastha	2024
13	Prof. J. N. Baliya	Integrating Rubrics as a Competencies-based Evaluation Tool for Performance Enhancement in Mathematics Education	03 PRINT: ISSN 0975-1122 ONLINE: ISSN 2456-6322	International Journal of Educational Sciences	

14	Prof. J. N. Baliya	Elementary school teachers' Perspectives on the Right To Education Act,2009in District Samba: An Exploratory Study	2320-2882	International Journal of Creative Research Thoughts	
15	Prof. J. N. Baliya	Digital Swadeshi: Localizing ICT in Context of Education with Gandhian Ethics	0973-0095	Dialogue	2024
16	Prof. J. N. Baliya	Critical Appraisal of NEP 2020 for Promoting Barat Centric Research	2583-5289	SHODHA SAMIKSHA	2024
17	Prof. J. N. Baliya	Examining the effect of School Climate on the Self-esteem of Secondary School Students	2455-7706	Vol.:IX, No.I, January, 2025	2025
18	Prof. J. N. Baliya	Theoretical Framework Of Educational Tours And Their Importance In Teaching Learning Process	2581-5628	GAP interdisciplinarity	2025
19	Prof. J. N. Baliya	Integrated Teacher Education & Educational Transformation: A vision of NEP 2020.	2581-5628	GAP interdisciplinarity	2025
20	Prof. J. N. Baliya	Integrating IKS in Higher Education: Prioritizing Thought Development Over Content Development & Transaction	0976-3376	Asian Journal of Science and Technology	2025

21	Prof. J. N. Baliya	Exploring the Role of Indigenous Language in Safeguarding Traditional Indian Knowledge for Sustainable Development in Viksit Bharat	2456-4184	International Journal of Novel Research and Development	2025
22	Prof. J. N. Baliya	AI powered Personalization in Education: Exploring potential & Confronting challenges in Learning & Assessment.	0976-0997	Indian Journal of Natural Sciences.	2025
23	Prof. J. N. Baliya	Technology in Education: Bridging the Gap Between Digital Innovation and Human-Centered Learning	2582-0397	Nurturing the Whole: Holistic Development in Education	2025
24	Prof. J. N. Baliya	Effect of ICT-Mediated Personalized Learning Environment on Study Habits and Technology Adoption of Secondary School Students	0019-5553	Indian Journal of Psychology	2025
25	Prof. J. N. Baliya	The Value of Traditional art in preserving culture	2349-5138	IJRAR	2025
26	Prof. J. N. Baliya	A Conceptual Study on the Impact of ICT Mediated Pedagogy on Academic Achievement of Preparatory Level Students	2456-4184	IJRAR	2024

27	Prof. J. N. Baliya	AI Dilemma in Education: Challenges, Risks and Responsibility of Inclusion	May 2025-	IJRASET	2025
28	Prof. J. N. Baliya	Pioneering New Frontiers In Educational Assessment And Evaluation: Innovations And Future Directions	978-93-5879-925-5	Education Research	2024
29	Prof. J. N. Baliya	Enhancing Cultural Competence In Teacher Education: Strategies For Inclusive And Responsive Pedagogical Practices	978-81-983917-9-7	Equity, Diversity And Inclusion In Education	2024
30	Prof. J. N. Baliya	Harmonizing Gender Equality in Higher Education through Gender Responsive Pedagogy: A Socio-Cultural Perspective and Way Forward	978-1-300495-08-6	Voices for Change: Role of Education in Addressing Social Issues	2025
31	Prof. J. N. Baliya	Exploring the Possibilities of Strengthening the Role of IKS in Fostering Creativity & Social Innovations among Indian Youth: Building a Vivid Path for Viksit Bharat	978-91-41-00125-1	FROM VEDAS TO VISIONARY INDIA: UNFOLDING KNOWLEDGE LEGACY FOR A SUSTAINABLE FUTURE	2025
32	Prof. J. N. Baliya	Assistive Technology for Students with Disabilities	9788198181442	INCLUSIVE EDUCATION: NEP-2020	2025

33	Prof. Ritu Bakshi	Social Media Platforms As A Potent Mediator In Building The Interpersonal Relationship Among Higher Secondary School Students	0976-0997	Indian Journal Of Natural Sciences	2024
34	Prof. Ritu Bakshi	Social Empowermen Of Women As Social Responsibility: Overcoming Barriers In The Implementation Of The Beti BachaoBetiPadhao Scheme.	2394-5990	Sanshodak	2024
35	Prof. Ritu Bakshi	Impact Of E-Content On Swachhta:A Study Of Four Year Integrated Ba-B.Ed Students	2394-5990	Sanshodak	2024
36	Prof. Ritu Bakshi	Environmental Awareness And Sustainable Institutional Culture: Potent Mediators For Swachh Bharat Campaign	2278-6864	Education And Society	2024
37	Prof. Ritu Bakshi	Role Of Parenting Style In Shaping Students Life Skills	0976-0997	Indian Journal Of Natural Sciences	2024
38	Prof. Ritu Bakshi	Education As A Child Right: Legal Framework, Challenges And Opportunities	2349-9249	Technix International Research Journal 12(4)	2025
39		Vedic Mathematics' Role In Revival Of The Indian Knowledge System (IKS) And Integration With Contemporary Education	2582-2160	International Journal For Multidisciplinary Research	2024

40	Prof. Ritu Bakshi	Shaping The Future : Strategies For Cultivating Values Among Secondary School Students	0976-8203	MIER Journal Of Educational Studies Trends And Practices	2024
41	Dr. Kiran	Relationship between Meta-Cognitive Abilities and Responses to E-Learning in Terms of Achievement: An Exploration	2319-7064	International Journal of Science and Research (IJSR) 14(3) Pg. (1255-1260)	March 2025
42	Dr. Kiran	Optimizing Educational Finance: A Comprehensive Analysis of Fund Flow and Effective Utilization in Higher Education	2582-7421	International Journal of Research Publication and Reviews 6(2) Pg. (3963-3971)	February 2025
43	Dr. Kiran	Addressing Learning Disabilities : Teachers Awareness, Identification and Effective Supporting Strategies	0976-0997	Indian Journal of Natural Science (Peer reviewed Web of Science listed journal) 15(88) (88190-88199)	February 2025
44	Dr. Kiran	Determinants of Shadow Education: Exploring the Impact of Socio Economic Status, Parental Education Levels, Cultural Expectations, and Policy Environments	0976-0997	Indian Journal of Natural Science (Peer reviewed Web of Science listed journal) 15 (87) (83158-83170)	February 2025
45	Dr. Kiran	Determinants of Shadow Education: Exploring the Impact of Socio Economic Status, Parental Education Levels, Cultural Expectations, and Policy Environments	0976-0997	Indian Journal of Natural Science (Peer reviewed Web of Science listed journal) 15 (87) (83158-83170)	February 2025

46	Dr. Kiran	Ethical Considerations in Ethnographic Research: Safeguarding Participant Integrity and Community Impact through Informed Consent, Confidentiality and Researcher Positionality	0976-0997	Indian Journal of Natural Science (Peer reviewed Web of Science listed journal) 15 (87) (85616-85626)	December 2024
47	Dr. Kiran	'To be on the seventh sky': exploring the nature and push of key factors in Indian parents' choice for shadow education	0300-4279	Education 3-13 (Scopus, Q2 Journal) 52(8)	October 2024
48	Dr. Kiran	Uncovering Obstacles: A Study Of Residential Schools For Visually Impaired Children	0976-0997	Indian Journal of Natural Sciences (Web of Sciences) 15(83) (Pg. No.: 71842-71850)	April, 2024
49	Dr. Kiran	A Study Of Learning Style And Academic Performance Of Pg Students Of Central University Of Jammu	0976-0997	Indian Journal of Natural Sciences (Web of Sciences) 15(83) (Pg. No.: 71213-71224)	April, 2024
50	Dr. Kiran	Shadowness In The Name Of Enrichment: The Darker Side Of Moocs	0976-0997	Indian Journal of Natural Sciences (Web of Sciences) 15(84) (Pg. No.: 74736-74742)	June, 2024
51	Dr. Kiran	Exploring the Potential of Generative Artificial Intelligence Tools In Reducing Shadow Education Growth	978-93-6126-962-2	Emerging Trends in Computation & Artificial Intelligence (CiiT Publications, Tamilnadu)	March, 2025

52	Dr. Kiran	How national education policy (NEP) 2020 can restrain shadow education: an evaluation of policy provisions	978-91-41001-57-2	Power of differentiation: tailoring learning for every student (Red Shine Publications, Sweden)	January 2025
53	Dr. Kiran	Information and Communication Technology and its Effect on Shadow Education Sector: A path towards educational equity	978-81-980549-9-9	Role of ICT and Educational Technology in Higher Education (Surya Multidisciplinary Publisher, U.P.)	October, 2024
54	Dr. Ravi Vanguri	Attitude towards Learning English Scale	81-973165-8-9	National Psychological Corporation, Agra	2024
55	Dr. Ravi Vanguri	The Synergy of AI in Education: A Step towards New Learning Possibilities	2229-7677	International Journal on Science and Technology (IJSAT)	2025
56	Dr. Ravi Vanguri	Use of Technological Gadgets By Undergraduate Students And Its Impact: An Empirical Survey	0378-1143	Annals of the Bhandarkar Oriental Research Institute	2025
57	Dr. Ravi Vanguri	Exploring Experiences, Challenges, and Preferences of University Students in Pursuing Massive Open Online Courses (MOOCs): A Descriptive Survey	2581-5946	International Journal of Science and Management Studies (IJSMS)	2025
58	Dr. Ravi Vanguri	Exploring Possibilities and Challenges for Integrating Artificial Intelligence in School Education in Indian Context	0976-9447	Journal of Global Values	2024

59	Dr. Ravi Vanguri	Revitalizing Higher Education through Indian Knowledge System (IKS): A Vision for NEP-2020	2229-7677	International Journal on Science and Technology (IJSAT)	2025
60	Dr. Ravi Vanguri	Issues and Challenges in the Way of Implementing ITEP: A Milestone Achievement in Fulfilling the Mandates NEP-2020	978-93-93402-40-0	Uday Publishing House	2024
61	Dr. Ravi Vanguri	Reviving Heritage: Leveraging Artificial Intelligence (AI) for the Preservation and enhancement of Indian Culture and Knowledge Systems	978-81-965402-2-7	APNA JANMAT printing press	2024
62	Dr. Yad Ram	Prospective Teachers' Emotional Maturity in Relation to Gender, Place of Residence and Institution	3048-9458	International Journal of Advanced Research and Multidisciplinary Trends (IJARMT) (online)	2024
63	Dr. Yad Ram	The Present State of Scenario based Education and Its Evaluation	2454-308X	Innovative Research Thoughts	2024
64	Dr. Yad Ram	The Impact of Gamification on Student Engagement and Learning Outcomes	2278-6848	International Journal for Research and Publication and Seminar	2024
65	Dr. Yad Ram	Reconceptualising Formative Assessment Practices Through EdTech Integration Under NEP 2020: Toward Transformative Education Management and Learner-Centric Development	2582-7421	International Journal of Research Publication and Reviews	2025

66	Dr. Mohan Galgotra	Role Of Inclusive Education In Upliftment Of Divyang Students: Challenges And Prospects	0378-1143	Annals of the Bhandarkar Oriental Research Institute	2024
67	Dr. Mohan Galgotra	Enhancing Student Achievement Through Modern Assessment Methods and Feedback Mechanisms in Higher Education: Aligning with NEP 2020	2582-2160	International Journal for Multidisciplinary Research (IJFMR)	2025
68	Dr. Mohan Galgotra	Plagiarism detection software, digital plagiarism, plagiarism prevention, academic institutions, academic honesty, ethical implications, privacy concerns, technological tools.	2229-7677	International Journal on Science and Technology (IJSAT)	2025

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2024	ICSSR	In Progress	22 Lakhs
2025	ICSSR	In Progress	09 Lakhs

**Student Participation/Presentation/Inter University/State/National/
International Level**

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Ms. Jagriti Gupa	B.A. B.Ed VI	National Youth Festival, Prajatantra 2024: Celebrating City Governance in India	16 to 18 November 2024	2nd Position
2	Mr. Achutyam	M.Ed IV	National Seminar, Cluster University of Jammu	14-15 Feb. 2025	Paper Presented
3	Mr. Ajay	M.Ed IV	National Seminar, Cluster University of Jammu	14-15 Feb. 2025	Paper Presented
4	Mr. Sourav	B.A. B.Ed VIII	National Seminar, Cluster University of Jammu		Paper Presented
5	Ms. Surbhi Sharma	M.Ed IV	National Seminar, Cluster University of Jammu		Paper Presented
6	Ms. Anam Khajuria	M.Ed IV	National Seminar, Cluster University of Jammu		Paper Presented
7	Ms. Sheetal Bhagat	M.Ed IV	National Seminar, Cluster University of Jammu		Paper Presented
8	Ms. Astha	M.Ed IV	National Seminar, Cluster University of Jammu		Paper Presented
9	Ms. Jyoti Devi	M.Ed IV	National Seminar, Cluster University of Jammu		Paper Presented
10	Shagun Sharma	M.Ed. 2nd semester	Paper Presentation in Seminar at Cluster University of Jammu	14-15 Feb. 2025	National
11	Jyoti Singh Jat	BA. B.Ed. 8th semester	Paper Presentation in Seminar at Cluster University of Jammu	14-15 Feb. 2025	National
12	Ashish Shubhransh	BA. B.Ed. 8th semester	Paper Presentation in Seminar at Cluster University of Jammu	14-15 Feb. 2025	National

About the Department

The Department of Economics is noted for its excellence in economic studies and research. It is the place where concepts are openly discussed, critically evaluated, and cutting-edge research is consistently done to push the boundaries of economic thought. The Department thrives on the ideas of intellectual curiosity, critical thinking, and academic rigour. It was established with the purpose of advancing and disseminating economic knowledge that is pertinent to and dynamic and interconnected world. We work hard to give our students a thorough, enriching, and all-encompassing educational experience by assembling a varied team of talented faculty members. Our curriculum is designed to give a robust grounding in basic economic theories, quantitative methodologies, and practical applications. This is supplemented with a focus on current economic challenges, policy analysis, and the effects of global and national economic trends on societies and individuals. Long-term objective of the Department is to cultivate an environment conducive to resolve global/ national/rural issues and disseminate their applications at the local level through economic modeling and related means.

Programme offered

- **M.Sc. Economics; Ph.D. Programme.**

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Prof. Aswini Kumar Nanda	Professor & Head	Demographic Analysis, Migration Studies, Population Ageing, Survey and Data Systems, Health Economics, Social Sector Economics.
2	Dr. Shaveta Kohli	Associate Professor	Development Economics, Gender and Development, Rural Development, Agricultural, Mathematical Economics
3	Dr. Susanta Nag	Associate Professor	Health Economics, Applied Econometrics, Time Series Econometrics, Mathematical Economics
4	Ms. Preeti Gupta	Assistant Professor	Development Economics, Public Finance
5	Mr. Anil Kumar Bharti	Assistant Professor	Economics of Rural Development, Labour Economics

6	Dr. Vishal	Assistant Professor	Economics of Rural Development, Labour Economics, Health Economics, Population Studies, Indian Economy, Statistical methods and softwares
7	Dr. Anooj Bhadu	Assistant Professor	Agriculture Economics, Development Economics

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1	Research design and qualitative analysis using ATLAS.ti	Dr. Manas Ranjan Pradhan, Assistant Professor, International Institute of Population Sciences (IIPS), Mumbai	18th and 19th November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
2	Ethics in Social Science Research	Dr. Nancy Mengi, Associate Professor, Department of Social Work, Central University of Jammu (CUJ)	20th November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
3	Formulation and testing of Hypothesis in Social Sciences	Dr. V.K. Shivgotra, Senior Assistant Professor, Department of Statistics, University of Jammu J&K	20th November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
4	Field Research, Observation, Case study and Interview	Dr. Anil Kumar, Professor & Head, Department of Sociology and Social Anthropology, Central University of Himachal Pradesh H.P.	22nd November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
5	Panel Data Analysis: Pooled Regression, Random Effect and Fixed Effect Models and their Applications	Dr. Smruti Ranjan Behera, Associate Professor, Department of Humanities and Social Sciences, Indian Institute of Technology, Ropar Punjab	24th November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)

6	Publication Process: Submission, Review, Revision and Rejection	Dr. Kakali Majumdar, Professor, School of Economics, Shri Mata Vaishno Devi University, Katra J&K.	25th November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
7	NSSO and other unit level data extraction using STATA	Dr. Jajati Parida, Professor, Department of Economics, Central University of Hyderabad Telangana	25th and 26th November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
8	Paper Clinic: Evaluation and Feedback on Group Reports	Dr. Suparn Kumar Sharma, Professor, School of Management, Shri Mata Vaishno Devi University, Katra, J&K	27th November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
9	Writing Proposal for fellowships and research grants	Prof. F.K. Sudan, Professor, Department of Economics, University of Jammu J&K	27th November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
10	Elementary Probability Theory, Probability Distributions and usage for Correlation and Regression	Dr. Pabitra Kumar Jena, Associate Professor, School of Economics, Shri Mata Vaishno Devi University, Katra J&K	21st November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR)
11	AI for Social Good	Prof. Manju Singh, NIT Jaipur, Rajasthan.	19th March, 2025

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1	Online Training Session on EBSCO Business Source Elite for Advanced Research in Economics for the students of the department	Committee Room, DDE Building, CUJ	November 11th, 2024

2	Visit to NABARD Headquarters, Jammu by the students of the department of Economics for greater understanding rural empowerment through credit disbursement and project implementation	NABARD Headquarters, Jammu	November 12th, 2024
3	Week-long FDP on “Sustainable Development in India: Charting the Pathways for Viksit Bharat @ 2047.”	Virtual Mode	March 17th, 2025 to March 24th, 2025
4	One day National Seminar on Sustainable Development in India: Charting the Pathways for Viksit Bharat @ 2047.”	Online	March 25th, 2025

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1	Presented a paper in the special Panel discussion on “Dynamics of Healthcare Service Delivery in India”	Prof. Aswini Kumar Nanda	Copyright Office, GOISchool of Economics, SMVDU, Katra J&K	28 February, 2025
2	Participated as a resource person in the INET-YSI SDG Conference themed “Achieving Sustainable Development Goals: Prospects and Challenges for India	Prof. Aswini Kumar Nanda	IIT Jammu South Asia Working Group Young Scholars Initiative Institute for New Economic Thinking SMVDU, Katra J&K	21st – 22nd March, 2025
3	Presented a key paper in the Plenary session in the two-day national seminar on “Population Dynamics, Development and Sustainability”	Prof. Aswini Kumar Nanda	Institute of Social Science Education and Research (PU-ISSER), Panjab University in collaboration with Population Research Centre (PRC) Panjab University, Chandigarh	28th March, 2025
4	Chaired a session on the theme “Sustainability and Population” in the two-day national seminar on “Population Dynamics, Development and Sustainability”	Prof. Aswini Kumar Nanda	Institute of Social Science Education and Research (PU-ISSER), Panjab University in collaboration with Population Research Centre (PRC) Panjab University, Chandigarh	29th March, 2025
5	Poster titled “Insurance for Better Health: Coverage of the Marginalised UnderHealth Insurance in India” presented at the World Congress of Epidemiology (WCE), Cape Town, South Africa	Dr. Vishal	World Congress of Epidemiology	24-27th September 2024

6	Paper titled “From Borrowing to Contributions: The Financial Landscape of Elderly Healthcare in Haryana” Presented at AVESHA, Department of Economics, National Institute of Technology, Hamirpur.	Dr. Vishal	National Institute of Technology, Hamirpur	12th November 2024
7	Paper titled “Healthcare Costs and Inclusive Growth: Assessing the Economic Vulnerability of the Elderly in Haryana” Presented at the National Seminar on Inclusive Development and Intergenerational Mobility, Indian Institute of Technology (IIT-ISM), Dhanbad.	Dr. Vishal	Indian Institute of Technology (IIT-ISM), Dhanbad	11th February 2025
8	Paper titled “Women's Workforce Participation in India: Levels, Trends, and Regional Disparities in the Post-Reform Era” Presented at the National Seminar on 35 Years of Economic Reforms in India, Panjab University & ICSSR-NWRC.	Dr. Vishal	Panjab University & I C S S R - N W R C , Chandigarh	27th March 2025
9	Chaired a Session “Urban Healthcare and Inclusive Growth” at National Seminar on Inclusive Development and Intergenerational Mobility, Indian Institute of Technology (IIT-ISM), Dhanbad.	Dr. Vishal	Indian Institute of Technology (IIT-ISM), Dhanbad	11th February 2025
10	Session Chair “Viksit Bharat@2047: Harnessing the power of sustainability and inclusive growth”	Dr. Anooj Bhadu	Amity School of Economics, Amity University, Uttar Pradesh	17th & 18th March 2025
11	Expert in two-day National Workshop on “Integrating Indian Philosophy, Indian Languages & Educational Technology for Developing Model Curriculum in the Discipline of Education : A Roadmap for NEP 2020	Prof. Aswini Kumar Nanda	Vidya Bharti Uchcha Shiksha Sanasathan, Central University of Jammu	21st & 22nd October, 2024

12	Resource person for ICSSR sponsored two-week Capacity Building Programme on “Incorporating Bharatiya Knowledge Traditions in Teaching and Research: Perspectives, Challenges, and Way Forward”	Prof. Aswini Kumar Nanda	ICSSR, Central University of Jammu	22nd November, 2024
14	Lecture on “An Assessment of Vulnerability of Households to Landslides in Ramban District of Jammu and Kashmir” in National Seminar on Climate, Economy and Sustainable Development in India	Dr. Susanta Nag	57th Annual Conference of Odisha Economic Association (OEA), Department of Economics, Ravenshaw University, Cuttack, 06-08	06th -08th February, 2025
15	Lecture on “Protecting Households from Health Shocks: Analysing the Impact of Insurance on Catastrophic Burden of Illness in India” Role of Artificial Intelligence in Business Management: Perspective & Implications on the Way to Viksit Bharat	Dr. Susanta Nag	Department of Marketing and Supply Chain Management, Central University of Jammu from 17th-18th Oct. 2024	17th-18th Oct. 2024
16	Lecture on Data and Social Sciences in ICSSR sponsored Research Methodology Course	Prof. Aswini Kumar Nanda	School of Business Studies, CUJ	5th March 2025
17	Lecture on a Resource Person in the sessions on “Questionnaire Design and Implementation” on 20th and 21st November 2024 in the 10-day National Research Methodology Course (RMC) for Social Science Research Scholars sponsored by the Indian Council of Social Science Research (ICSSR),	Prof. Aswini Kumar Nanda	School of Humanities and Social Sciences CUJ	5th March 2025
18	Paper presentation	Ms. Preeti Gupta	Smt, Sushiladevi Deshmukh Senior College, Latur	8th March, 2025
19	Organized One Day National Seminar	Ms. Preeti Gupta	Department of Economics, Central University of Jammu	March, 2025

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/Issue of Publication	Year of Publication
1	Prof. Aswini Kumar Nanda	Le passage des cyclones en Inde de l'Est (Odisha) : réponses et resilience” with Jacques Véron, in “Regards démographiques sur quelques crises climatiques”, pp. 47-63,	1978-2901107-07-1,	Regards démographiques sur quelques crises climatiques”, Thierry Eggerickx Jean-Paul Sanderson, Aubervilliers (Ed.)	2024
2	Anil Kumar Bharti, Susanta Nag	Intergenerational Transmission of Education and Occupational Mobility in India: Evidence from IHDS Data	3049-267X	IUP Journal of Applied Economics (ABDC listed Journal) Volume 23/ Issue 3/ Page 38-57/ July 2024	July 2024
3	Anil Kumar Bharti, Susanta Nag	Intergenerational Transmission of Human Capital in India: Exploring the Impact of Adult Children's Education on the Health of Elderly Parents	1681-8997	Empirical Economics Letters (ABDC listed Journal) Volume 23, Issue 7, Page 17-31/ July 2024	July 2024
4	Dr. Vishal, Dr. Anooj, Prof. Aswini Kumar Nanda	From Borrowing to Contributions: The Financial Landscape of Elderly Healthcare in Haryana	2676-7104	Frontiers in Health Informatics	December 2024
5	Dr. Vishal	Buffering Economic Impact of Health Shocks among the Elderly: Patterning the Access to and Determinants of Health Insurance in Haryana	0253-6803	Health and Population: Perspectives and Issues	February 2025
6	Dr. Anooj, Dr. Vishal	A Comparative Study of Cost, Efficiency, and Profitability in Organic and Chemical Basmati Farming in Punjab	2055-1583	Bioscene	December 2024

7	Susanta Nag, Kirtti Ranjan Paltasingh, Phanindra Goyari	Health Shocks, Vulnerability and Coping Mechanisms of Poor Households in Eastern India: Observations from NSSO Data	1467-9361 (Online) 1363-6669 (Print)	Review of Development Economics (SSCI and Scopus Journal)	February 2025
8	Susanta Nag, Amit Kumar Sahoo, Kirtti Ranjan Paltasingh, Sachita Nanda Sa	Household Burden of Catastrophic Illness in Eastern India: Incidence, Intensity and Determinants	1948-4682 (Online) 1948-4682 (Print)	World Medical and Health Policy (Scopus as well as WoS Journal)	April 2024
9	Sumaya Jan, Susanta Nag, Sameer Hussain Gull, Rubaya Akther	Impact of Institutional Quality on Tourism and Economic Growth: A Post Covid-19 Perspective	2455-8834	International Journal of Social Science and Economic Research (Peer Reviewed journal)	April 2024
10	Preeti Gupta, Susanta Nag, Anil Kumar Bharti	Does Financial Inclusion Enhances Women's Household Decision Making? Evidence from Northern India	1681-8997	Empirical Economics Letters (ABDC listed Journal) Volume 23, Special Issue 2, Page 307-322/ June 2024	June, 2024

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2024-25	ICSSR, New Delhi	Research Methodology Course for Doctoral and Post-doctoral scholars in Social Sciences	Rs.5,50,000

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Sahil Kumar	IV	Badminton	24th to 29th November, 2024	Inter-University level
2	Ritvik Manhas	IV	NSS National Integration Camp, GJU, Hisar, Haryana	11th to 17th October, 2024	Ist Prize in Theatre play, poster making and tug of war

3	Pavneet Kour	II	Air Pistol Shooting Championship	17 th to 23 rd August, 2024	State level 1 st Rank
4	Anwasha Singh, Meetali Saini and Kritika	IV	National Conference at Banaras Hindu University	16 th to 18 th February, 2024	National level
5	Rajul Shrama	IV	Paper Presentation in NIT, Hamirpur, Himachal Pradesh	12 th November, 2024	National level

About the Department

The Department of Public Policy and Public Administration at the Central University of Jammu was founded in July 2013. In that same year, the department introduced an Integrated M.Phil. - Ph.D. course and four elective courses at the master's level, catering to students from various disciplines. The Master's in Public Policy and Public Administration program began in the academic year 2014-15, and subsequently, the department initiated a direct Ph.D. program starting from the academic year 2016. Recognizing its vast potential, the department is poised for excellence in all its academic pursuits, aiming to integrate the latest developments in the discipline by offering high-quality professional development opportunities for students in both the public and private sectors. At present, Prof. Santap Sanhari Mishra is the Head of the Department

Programme offered

- MA Public Administration
- Ph.D. Public Administration

Faculty details :

S.No.	Name	Designation	Area of Specialization
1	Prof Santap Sanhari Mishra	Head of the Department and Professor	Leadership, Public Policy Implementation, Good Governance, Sound Governance, E-governance and Social Research Methods
2	Dr Rouchi Chaudhary	Associate Professor	Governance and Policies Issues, Comparative Administration, Urban Governance, Police Studies, Research Methods
3	Dr Mohit Sharma	Assistant Professor	Administrative Thought, Corporate Governance, Research Methodology, Statistical Methods, Public Policy
4	Dr Sushil Kamble	Assistant Professor	Social Justice, Affirmative Action Policies, Administrative Reforms, Rural Local Government
5	Dr Indra Pratap	Assistant Professor	Governance and Management, Indian Administration, Public Policy and Local Rural Governance
6	Dr Jai Bhawani Singh	Assistant Professor	Issues of Governance in Jammu and Kashmir, Dynamics of Indian Politics and Public Policy, Indian Political and Administrative Thought, Ethnicity and Public Policy, Global Governance and International Relations

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1	Framing of India Constitution: Vision, Values and Voices.	Sh. DC Raina, Advocate General of Jammu & Kashmir, and Ladakh	19 November 2024
2	The Introduction of New Laws: The Bhartiya Nyaya Sanhita 2023; The Bhartiya Nagarik Suraksha Sanhita; and The Bhartiya Sakshya Adhinyam 2023.	Dr Mohd. Haseeb Mughal, IPS, DIG Traffic Jammu Zone (J&K)	24 March 2025

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1	Awarded Ph.D. Degree	Dr Indra Pratap	University of Lucknow	3 July 2024

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/Issue of Publication	Year of Publication
1	Prof. Santap Sanhari Mishra	Book chapter: "Searching a Leadership Style for Women-Led Development: Can Ambidexterity be a Viable Answer" in S. Pathi (Ed). New Paradigm of Development: India and the North East	ISBN-978-93-94080-51-5	Dominant Publishers	2025

Department of Social Work



About the Department

Social work programme at Central University of Jammu was introduced at Post Graduation level in the year 2014. The Department runs Masters and Doctoral (Research) programme in social work as per the NEP 2020. Annually, students from diverse academic disciplines come to these programmes through national level CUCET entrance examination. The Department has a fully established Field Work Unit to expose students to field experiences in praxis and provides for Block Placements/Internships for professional understanding of best practices in the development sector. Every Year Rural/ Urban Camps are organized outside the state for the students, for their academic growth and development. Currently, the department has total faculty strength of two Associate Professors and three Assistant Professors from diverse academic backgrounds and specializations. The Department is an Institutional Life Member of National Association of Professional Social Workers in India (NAPSWI), Delhi

Programme offered

- MA in Social Work
- PhD. in Social Work

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Dr. Nancy Mengi	Associate Professor & Head	Women and Child Development, Medical Social work, Urban Development
2	Dr. Vinay Kumar	Associate Professor	Climate Change Adaptation, Disaster Management, Community Engagements, Corporate Social Responsibility (CSR)
3	Dr. Iqball Bhat Majeed	Assistant Professor	Public Health, Tribal Studies, Cultural studies
4	Dr. Ranvir Singh	Assistant Professor	Social Exclusion, Vulnerability Assessment, Equity in Health Care Provisioning and its Access, Social Determinants of Health, Food Security, Social Movements
5	Mr. Fateh Lal Bheel	Assistant Professor	Natural Resource Management Rural Development, Youth and Tribal Development related issues

Eminent Lecture/Extensive lecture organized.

S. No	Lecture of the Topic	Speaker	Date
1	School Social Work: Opportunities and Challenges	Prof. KeshavWalke	22-08-2024
2	Making Sense of Social work	Dr. Manoj Joseph	22-08-2024

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1	FDP titled NEP 2020 Orientation and Sensitization on the theme Indian Knowledge System	MMTTC, CU Jammu (Online)	24-02-2025 to 04-03-2025
2	National Seminar on Child Rights	Central University of Jammu	23 -10- 2024
3	5th National Social Work Week	Central University of Jammu	15-21 August 2024
4	Educational cum Rural Field Trip of Social Work Students	Chinmaya Organisation for Rural Development (CORD), H.P.	7-11 April 2025

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1	IPR titled Academia Industry Community Connect model (AICC)	Dr. Nancy Mengi	Copyright office, Govt of India	09/08/2024
2	IPR titled Local Initiative for Skill, Training and Education Network (LISTEN)	Dr. Nancy Mengi	Copyright office, Govt of India	26/03/2025
3	IPR titled Menstrual Health policies and programmes Assessment Criterion (MPAC)	Dr. Nancy Mengi	Copyright office, Govt of India	14/12/2024
4	Nurturing Future Leadership Programme	Dr. Vinay Kumar	Indian Institute of Management, Jammu	18-22 Nov. 2024
5	Global Standards of Social work Education and Training	Dr. Vinay Kumar	The Hong Kong Polytechnic University & IASSW AIETS	17-18 June 2024

Faculty Publications :

S.No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1	Nancy Mengi	Technoference in Contemporary Indian Families; Exploring effect of Collectivism and Parent-Child relationships: A narrative review.	ISSN: 0019-5553	Indian Journal of Psychology	2024
2	Nancy Mengi	Domestication of Information and Communication Technologies into Family Systems: A Conceptual Framework Evaluating Family Health. Social work, swae033. 69(4) Advance online publication.	ISSN 0037-8046 EISSN 1545-6846	Social work	2024
3	Nancy Mengi	A questionnaire study regarding knowledge, attitude and usage of artificial intelligence and machine learning by the orthodontic fraternity of Northern India.	ISSN: 2212-4276	Journal of Oral Biology and Craniofacial Research	2024

4	Vinay Kumar	Green Social Work and Sustainable Development Goals: Global to Local Perspectives	ISSN 2350-0530	International Journal of Research - GRANTHAALAY AH	2024
5	Vinay Kumar	Contextualising 21st century Life Skills for Social Work Students: A Holistic Approach for Practice in Changing World	ISSN- 2249-7382	International Journal of Research in Economics and Social Sciences	2024
5	Vinay Kumar	Climate Change and its Ripples on Agriculture Based SHGs in Arid regions: A case study of Channi Mansar Village of Jammu and Kashmir, India	ISSN-0302-9298	Contemporary Social Sciences	2024

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2024	FCS & CA Department, Samba, Govt. of J & K	Ongoing	90000/-
2024	JPS-KAKENI, Japan	Ongoing	N.A

Centre for Comparative Religion and Civilizations

About the Department

The mission of the Center for Comparative Religions and Civilizations is to describe and interpret the developments, worldviews and practices of religious traditions in a non-sectarian, academic manner for the benefit of students, faculty from other fields and the people at large. Within a public university, Religion must be approached with academic objectivity and without favoritism for any one tradition. Yet, religion must also be studied with sensitivity and empathy for the millions of believers whose lives are shaped by their faith. Comparative Religion examines the spiritual quest of humankind, especially as it has manifested itself in the world's living religions. No other academic field looks at the origins, sacred writings, rituals, beliefs and world views of the various Religions for their own sake rather than as an aspect of another field of study. The Centre is to be a celebration of the multi-cultural and multi religious ethos of India.

Programme offered

- 2 year M.A and Ph.D Program

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Prof. Niranjna Bhandari	Professor	Sociology of Religion, Population Health & Society, Population Demographic Studies
2	Dr. Arvind Rituraj	Associate Professor	Buddhist Studies, Pali Language and Literature Religious Studies.
3	Dr Vikas Singh	Associate Professor	Communication, History, Comparative Religion, Culture and Civilization, Pali, Prakrit, Sanskrit and Buddhist Hybrid Sanskrit: Languages and Literature, Buddhism, Jainism and Hinduism: Religion and Philosophy, Translation, Lexicography and Computational Linguistics, Indian Knowledge System, Epigraphy, Palaeography and Manuscriptology, Ancient Indian History and Religious Tourism.
4	Dr. Ajay Kumar Singh	Sr. Assistant Professor	Buddhist Studies, Kashmir Shaivism, Indian Knowledge System, Indian philosophy, Sanskrit Sahitya, Translation Studies, Diaspora and Transnational Cultural studies.
5	Dr. Ashwani Kumar	Assistant Professor	History Pali Literature, Study of Comparative Religions, Indian Knowledge System, Theravada Buddhism, Socially Engaged Buddhism, Buddhist Code of Conduct, Buddhist Philosophy
6	Dr. Amita Gupta	Assistant Professor	History, Archaeology, Heritage, Culture, Traditional Indian Knowledge Systems
7	Dr. G.V. Snigdha Raj	Assistant Professor	Anthropology of Religion, Social Anthropology, Ethnography, Tribal Studies, Rural and Urban Sociology.

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1	Indian Knowledge System: Enriching Life Skills	Shri Pandit Prem Dogra Government Degree College, Samba	18/04/2024
2	Courses Selection and Career Opportunities	Government Degree College Kunjwani	28/02/2025
3	Courses Selection and Career Opportunities	Government Degree College Bishnah	28/02/2025
4	Courses Selection and Career Opportunities	Government Degree College R. S Pura	28/02/2025
5	Courses Selection and Career Opportunities	PSPS Govt. College for Women Gandhi Nagar	07/03/2025

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1	Patent on interactive platform for digitally preserving and sharing sacred Rituals	Prof. Niranjna Bhandari, Dr. G.V.Snigdha Raj, Dr. Arvind Rituraj	Government of India	15th May, 2025
2	Copyright Published on "Bengal's Textile Industry: European Influence and The Path to a Self-Sustained Bharat"	Dr. Amita Gupta	Government of India	26 March 2025
3	IPSA National AB Vajpae Diaspora Award 2024	Dr. Ajay Kumar Singh	Indian Political Science Association	18.10.2024

Faculty Publications :

S.No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1	Professor Nitanjna Bhandari	Empowerment of Rural Women: Navigating Socio-Economic and Political Landscape	1177-5653	Scope	4th Dec, 2025
2	Professor Nitanjna Bhandari	Caste , Gender, and Literacy: A sociological Study of Scheduled Caste Women in Himachal Pradesh	ISSN 0972-9569, ISSN 2584-2595	National Journal of Education	January, 2025
3	Professor Nitanjna Bhandari	Education Among Vadderas: A Cade Study in the Village of Katepali	ISSN 0972-9569, ISSN 2584-2595	Educational Administration: Theory and Practice	January, 2024

4	Professor Nitanjna Bhandari	The Role of Self-Help Groups for the Empowerment of Rural women: A study in Burgula	2319-829X	Humanities and Social science Studies Journal	July 2024
5	Professor Nitanjna Bhandari	Anaemia, Expectant Mothers and Dietary Habits: Issues And Concerns	2320-5407	International Journal of Advanced Research	2024
6	Professor Nitanjna Bhandari	The Gond Tribe of Telangana: Indigenous Knowledge System and Sustainable Development	2581-4133	Indigenous Knowledge Systems and Sustainable Development	2025
7	Dr. Arvind Rituraj	Human Service in Buddhism as a Way to Salvation	9788197814501	Studies in Sikhism and Comparative Religion Guru Nanak Foundation, New Delhi	2004
8	Dr. Arvind Rituraj	Pali Grantho Ke Punjabi Mei Sampadan, Lipiyantaran Evam Anuvada Ki Samasyayen	23485639	Shodh Samalochan	2024
9	Dr. Arvind Rituraj	The Looming Food Crisis: Exploring The Causes and Consequences- A Comparative Analysis and Strategic Recommendations for Sdgs2	2965-730X	Lifestyle & SDG'S Review	2024
10	Dr. Arvind Rituraj	Empowerment of Rural Women: navigating Socio-Economic and Political Landscape	1177-5653	Scope	2024
11	Dr. Arvind Rituraj	Book Buddha Dharam Nikas ate Vikas (in Punjabi)	978-81-9857-38-8	Autumn Art Patiala	2024
12	Dr. Ajay Kumar Singh	Asoka ki Dhammalipi: Likhit Jansansar ki Pahli Kranti	Vol 2 4. 2020-21	Sambodhi Mahabodhi Society of India	2024

13	Dr. Ajay Kumar Singh	The Historical Evolution of the Saraswati Sindhu Region: from Early Settlement to Decline of the Indus Valley Civilization	24546283	Sodh Rityu issue 37	September 2024
14	Dr. Ajay Kumar Singh	Ethnicity of Pahari's in Jammu and Kashmir Region	09756604	Iqbaliyat (UGC-Care) Volume 30	January 2025
15	Dr. Ajay Kumar Singh	Back to Village programme in Jammu Kashmir : An Overveiw	20912986	International Journal of social science and management Vol 10-2	March, 2025
16	Dr. Ajay Kumar Singh	Indian Knowledge System : Principles and Practices	9789359773766	The readers paradise publication	Nov, 2024
17	Dr. Ajay Kumar Singh	A Comparative Study of Shankar Vedanta and Shaivite Vishishtadwait of Srikantha	24546283	Sodh Rityu	June, 2024
18	Dr. Ashwani Kumar	Comparative Study between Jain and Buddhist Religion”-	978-93-515-0	IQAC, Goreswar College, Goreswar and Purbayon Publication in Confluence (Vol: III),	February 2025.
19	Dr. Ashwani Kumar	Buddhist perspective for attaining World peace in the contemporary Era”		Hong DUC Publishing House which was held at Vietnam on the occasion of United Nation day of VESAK	2025
20	Dr Amita Gupta	Pioneering Trade: The Malda Factory's Role in English East India Company's Foray Into Bengal (1680-1705 Nobility of Delhi Sultanate and their Literary Pursuits: A Case study of Minhaj al Din Siraj Juzjani	2148-2403	Educational Administration: Theory and Practice	2024

21	Dr Amita Gupta	Hyderabad In Transition: (1948-1956)–A Case Study of Social Reconfiguration of The Asaf Jah Nobility	2148-2403	Educational Administration: Theory and Practice	2024
22	Dr Amita Gupta	Bhartiya Gyan Parampra-Jammu Kashmir Ka Hindi Sahitya	2148-2403	Educational Administration: Theory and Practice	2024
23	Dr Amita Gupta	Exploring the Indian Knowledge System: Advance Metallurgy and Copper Extraction Techniques in the Himalayas.	978-93-48639-92-9	Educational Administration: Theory and Practice	2025
24	Dr Amita Gupta	Indigenous Knowledge and Social Development in Northeast India	978-93-87201-70-5	Jammu Kashmir ka Hindi Sahitya Evm Sanskriti	2024
25	Dr Amita Gupta	Exploring the Indian Knowledge System: Advance Metallurgy and Copper Extraction Techniques in the Himalayas.	978-1-0364-0695-0	Minerals, Mining, and Metallurgy in South Asian History The Role of Pedagogy in Shaping the Socio-Political Reality of Society	2024
26	Dr. G.V. Snigdha Raj	Education Among Vadderas: A Case Study in the Village of Katepalli	2148-2403	Educational Administration: Theory and Practice	2024
27	Dr. G.V. Snigdha Raj	Empowerment of Rural Women:Navigating Socio-Economic and Political Landscape	1177-5653	Scope	2024
28	Dr. G.V. Snigdha Raj	History, Culture and Identity Crisis: An Ethnographic Study of Vadderas in Telangana State, India	1000-1964	Zhongguo Kuangye Daxue Xuebao Journal of China University of Mining and Technology	2024

29	Dr. G.V. Snigdha Raj	The role of self-help groups for the empowerment of rural women : A study in Burgula village	2319-892x	Humanities and Social Sciences Studies	2024
30	Dr. G.V. Snigdha Raj	Anaemia, Expectant mothers and Dietary Habits: Issues and Concerns	2320-5407	International Journal of Advanced Research	2024
31	Dr. G.V. Snigdha Raj	Exploring the transitions in family structure of Vaddera Community through a Deconstructive Lens	1530-3535	Emerald Journals	2024
32	Dr. G.V. Snigdha Raj	The Gond Tribe of Telangana: Indigenous Knowledge System and Sustainable Development	2581-4133	Indigenous Knowledge Systems and Sustainable Development	2025

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2024	ICPR	Ongoing	4,00,000/-
2024	ICSSR	Ongoing	2900000/-
2022	ICPR	Ongoing	50000/-
2023	NBCFDC	Ongoing	375000/-
2023	IKS, AICTE	Ongoing	2410000/-
2023	ICSSR	Completed	1000000/-

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Aman Kumar Chawdhary	M A 2nd Semester	Udaan -2025 Debate & Poetry Competition	1st – 4th April, 2025	

School of National Security Studies



Central University Jammu School of National Security Studies Department of National Security Studies



About the Department

The Department of National Security Studies aims on advancing teaching and research in security and strategic studies. As India engages more actively in global affairs, the department prepares the scholars to address diverse security challenges. Located in Jammu and Kashmir, a strategic hotspot, it promotes academic research and policy analysis on national, regional and international security. The department fosters dialogue and debate among stakeholders. Students are trained in policy analysis through innovative methods and field visits. Key research areas include border security, trans-boundary water security, conflict management, maritime and non-traditional security issues like environmental and energy security.

Programme offered

- M.A.
- Ph.D. (Direct & Part Time)

Faculty details :

S. No	Name	Designation	Area of Specialization
1.	Prof. M. Venkataraman	Professor	<ul style="list-style-type: none">• Conflict and Conflict Resolution - Indo-Pacific• Comprehensive Security• South Asian Security Affairs• International Politics: Focus on China and Southeast Asia• Maritime Security• India's National Security Dynamics and Foreign Policy.
2.	Dr. Neeta Rani	Associate Professor	<ul style="list-style-type: none">• Central Asian Republics (energy reserves and security issues)• South Asian Security Affairs• Energy Security• Border Management• Social Media
3.	Dr. R. Sudhakar	Associate Professor	<ul style="list-style-type: none">• Disarmament and Peace Studies• Comprehensive Security• South Asian Security Affairs• Environmental Security and Water Conflicts• Maritime Security• Terrorism and Internal Security.
4.	Dr. Ekta Manhas	Assistant Professor	<ul style="list-style-type: none">• Conflict Dynamics (Militarization Radicalization Transformation)• Transnational Terrorism• Regional Conflicts/Politics (West Asia South Asia)• Gender and Security Studies.
5.	Dr. Anuradha Choudhary	Assistant Professor	<ul style="list-style-type: none">• National Security of India• Internal Security Problems• Non-traditional Security• India-China Relations• Tibetan Refugees• Geopolitics and Disaster Management
6.	Dr. Prasanta Kumar Sahu	Assistant Professor	<ul style="list-style-type: none">• India's Foreign Policy,• International Relations Theory,• National and International Security,• Traditional and Non-traditional approaches to security,• Peace War and Disarmament,• Peace building and Conflict Resolution,• South Asian Security Affairs,• Security and Foreign Policy of Russia & Central Asia,• BRICS and South-South Cooperation,• Security architecture in Asia Pacific.

7.	Dr. Tilak Raj Sharma	Assistant Professor	<ul style="list-style-type: none"> • India's Foreign Policy; • Soft Power, • South Asia, • Geo-politics, • Climate change, • Defence and Strategic Studies, • India-US Relations.
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Eminent Lecture/Extensive lecture organized.

S. No	Lecture of the Topic	Speaker	Date
1.	Thursday Mind Meet	Dy SP Priyanka Dr. Palak Mahajan	27th March 2025
2.	Five Days Faculty Development Programme (FDP) on Indian Strategic Thought and Warfare-Indian Knowledge System	Multiple Speakers	17th March 2025 to 21st March 2025
3.	Vijay Diwas	Colonel (Retd.) Ajatshatru Singh Jamwal	16th December 2024
4.	Online Special Lecture on Components of National Security Policy	Lt. Gen. (Dr.) J.S. Cheema, PVSM, AVSM, VSM (Retd.)	25th November 2024
5.	Special Lecture on Development and Changes in Foreign and Security Policies in India	Amb. (Retd) G. Parthasarathy, Honorable Chancellor, CUJ	22nd November 2024
6.	Special Lecture Commemorating "National Maritime Day". The lecture titled "Evolving Security Scenario in Indian Ocean Region"	Captain Kapil Sharma (Retd. Indian Navy)	8th April 2024
7.	Thursday Mind Meet	Lt. Col (Dr.) Adarsh Sharma (Retd.)	21st March 2024

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1.	Educational Field Visit for the students / scholars of the department to the forward area as along the Line of Control (LoC), Akhnoor Sector, Jammu, J&K	Akhnoor	27th April 2024
2.	Educational Field Visit for the students / scholars of the department to 47th Bn, ITBP, Samba, J&K	Samba	23rd April 2024

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1.	Travel Grant (PLN1000)	Dr. Ekta Manhas	World International Studies Convention	22-03-2024

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1.	Dr. Neeta Rani	Humanitarian Crisis to Security Threat: Understanding the Rohingya Migrants Issue and Its Pertinence to Jammu and Kashmir's Stability	0974-9284	India Quarterly (Scopus)	March 2025
2.	Dr. Neeta Rani	India-Middle East-Europe Economic Corridor: A Strategic Energy Alternative	2652-6514, E-ISSN: 2652-6433	Energy RESEARCH LETTERS (Scopus)	2025
3.	Dr. Neeta Rani	Village Defence Guards Scheme (VDGS) in Jammu & Kashmir: An Opportunity to Empower the Civilians	2583-7397	International Journal of Contemporary Research in Multidisciplinary	Nov-Dec 2024
4.	Dr. Neeta Rani	Vasudhaiva Kutumbakam: The Role of India's Soft Power Amid the Covid Era	2583-7397	International Journal of Contemporary Research in Multidisciplinary	Sept-Oct. 2024
5.	Dr. Neeta Rani	Impact of Social Media Usage on the International Relations in South-Asia- A case Study of Website X on India-Maldives Relation	2096-4366	Waiguo Yuyan yu Wenhua (Scopus)	October, 2024
6.	Dr. Neeta Rani	The Impact of Chinese Influence on Bhartiya (Indian) Media): An Analysis of Trends and Implications for National Security	0970-1052	Library Progress International (Scopus)	July-Dec 2024

7.	Dr. Neeta Rani	Confidence Building Measures in India-China Relations: A Critical Review and Security Implications for India	2395-7069	Inspira	July-September 2024
8.	Dr. Neeta Rani	Understanding Chanakya's Legacy: Bridging Ancient Thought and Modern Geopolitics in Indian Foreign Policy	0937-0037	Rabindra Bharati Patrika	June 2024
9.	Dr. Neeta Rani	The Geopolitics of Sub-Regional Aspirations for India: Constraints and Opportunities, in Pankaj Kumar, Manish Kumar, Subhash Anand, Dinesh Kumar Tripathi, Naresh Kumar Verma- Humanities and Sustainability from Global Perspectives Towards Future Earth/ pp. pp. 224-236,	978-981-96-0380-0	Springer (Scopus)	2025
10.	Dr. Neeta Rani	South Asian Region in the 21st Century: New Dimensions of Security Challenges, in Bharat Maurya's New Aspects in Indian Politics/ pp. 21-52	978-81-19098-72-9	Akhand Publishing House, Delhi	2024

11.	Dr. R. Sudhakar	Understanding Kashmir: Unveiling the Internal Security Through Social Dynamics/Pg-195-206	978-93-6009-980-0	Internal Security- Political, Social and Economical Perspectives	March 2025
12.	Dr. R. Sudhakar	India-Iran Relations in the Evolving Indo-Pacific: A Contemporary Geopolitical Analysis of Strategic Ambitions and Emerging Alliances	Print: 1735-4331 Online: 3698-2538 Doi: 10.22034/IGQ.2024.473281.1932	Geopolitics Quarterly (Scopus)	December 2024
13.	Dr. R. Sudhakar	Understanding the Role of Military Intelligence in the India-China Border Conflict	ISSN: 2583-973X.	The Academic International Journal of Multidisciplinary Research	September 2024
14.	Dr. R. Sudhakar	Analysing Disaster Risk Reduction Approach and Opportunities for Enhanced Relations in the Indian Ocean Region- An Analytical Study of India's Soft Power Dynamics in the Region	0976-0997	Vol.15, Issue. 83. Indian Journal of Natural Sciences (SCI Journal)	April 2024
15.	Dr. R. Sudhakar	Dams Construction in the Siang Valley and its Influence on the Indo-Sino border Dispute: An Ecological Perspective	2148-2403	Educational Administration: Theory and Practice (Scopus Indexed)	June 2024

16.	Dr. R. Sudhakar	Artificial Intelligence and Cyber Security: Transformative Synergies in the Digital Frontier	2583-973X	The Academic-International Journal of Multidisciplinary Research	June 2024
17.	Dr. Ekta Manhas	Electoral Bond and the Question of Transparency in Indian Politics	ISSN: 2197-5248	South Eastern European Journal of Public Health	2025
18.	Dr. Tilak Raj Sharma	Clean Water as a Fundamental Human Right in India: Challenges and Solutions	ISBN: 978-1-041-12348-4	Taylor & Francis Group, London	2025
19.	Dr. Prasanta Kumar Sahu	The Significance of Russian Federation in the Emergence of BRICS as a Multilateral Institution		The Peninsula Journal of Strategy and Policy Volume 1 / Issues 2	2025
20.	Dr. Prasanta Kumar Sahu	Gender Equality in Millennium Development Goals: Achievements and Challenges	ISBN: 978-3-030-68127-02	Palgrave Macmillan, Cham	February 2025
21.	Dr. Anuradha Chaudhary	Global Geopolitical Power Shifts: The Role of India, Pakistan and China	ISBN: 978-93-49566-78-1	Page no. 256-270	2025

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2023	Indian Council of Social Sciences Research (ICSSR)	Completed/Submitted	14,00,000/-
2023	Indian Council of Social Sciences Research (ICSSR)	Completed/Submitted	7,00,000/-

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Epshita Banerjee	IV	Painting competition (UDAAN 2025)	1-4th April 2025	1st
2	Ayushi Bhadoria	IV	Dance competition (UDAAN 2025)	1-4th April 2025	1st
3	Sumanth Goud Gattu	IV	Photography competition (UDAAN 2025)	1-4th April 2025	3rd
4	Edwin George	IV	Photography competition (UDAAN 2025)	1-4th April 2025	2nd
5	Gurpreet Singh	IV	Terracotta competition (UDAAN 2025)	1-4th April 2025	1st
6	Shaweta Sharma	IV	Combatica-2025 (Shotput event)	27-29 January 2025	2nd
7	Shaweta Sharma	IV	Discus Throw, Sports Competition, Central University of Jammu	27-29 January 2025	1st

SCHOOL OF BUSINESS STUDIES

Human Resource Management and Organization Behaviour

HRM & OB

About the Department

The department believes in preparing the students to approach business situations and solve them in the way established corporations do. Learning happens both inside and outside the classroom, hence, technology plays a big part in the core culture, and so does global exposure, project management, critical reasoning, and business communication skills. Department of HRM&OB lays emphasis on all this through experiential learning opportunities, internship, course assignments, industry-academia interactions and other industry-driven projects.

Programme offered

- MBA and MBA (HRM)
- PHD (HRM)
- PhD (Business Administration)

Faculty details :

S. No	Name	Designation	Area of Specialization
1.	Prof. Neelika Arora	Dean School of Business Studies	Human Resource Management Organizational Behaviour Strategic Management
2.	Prof. Jaya Bhasin	Professor & Head	Marketing, HRM and Behavioral Science
3.	Dr. Anjali Pathania	Assistant Professor	Behavioral Science & Information Systems
4.	Dr. Gowhar Rasool	Assistant Professor	Marketing
5.	Dr. Asif Ali	Assistant Professor	Entrepreneurship Marketing
6.	Dr. Susmita Ekka	Assistant Professor	Human Resource Management, HR Analytics

Eminent Lecture/Extensive lecture organized.

S. No	Lecture of the Topic	Speaker	Date
1.	RMC Workshop	ICSSR Approved Resource Persons	04-14 March 2025
2.	JKEDI Workshop	JKEDI Resource Persons	23.03.2025

Memorandums of Understanding signed.

S. No	Title of the MoU	Signed by	Date
1.	FICCI Ladies Organisation and CUJ	Registrar CUJ	03.02.2025
2.	MOU between CUJ and NISM	Registrar CUJ	10.09.2024

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1.	MOOC Courses 02 silver medal	Prof. Jaya Bhasin	SWAYAM	February-April 2025

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1.	Prof. Jaya Bhasin	Quiet ego well being among higher education faculty: insights from the post-covid educational landscape.	1615-1626.	Journal of Informatics Education and Research,	2024
2.	Prof. Jaya Bhasin	Influence of Moonlighting on the Performance of Health care in Jammu Region	1681 8997	Empirical economic letters Category C	2024
3.	Prof. Jaya Bhasin	Relation ship between Green HRM and SD: ROL	1681 8997	Empirical economic letters Category C	2024
4.	Prof. Neelika Arora, Prof. Jaya Bhasin Arora, Dr. Shahid Mushtaq	Consumer Behaviour and Willingness to Pay for Geographical Indication (GI) Lavelled Products		Conference Proceedings of Emerging Markets Conference Board Lucknow	2024
5.	Dr. Gowhar Rasool and Dr. Anjali Pathania	Exploring the interplay between experiential and material product purchases on consumer behavior: a meta-analytic investigation	1944-7175	Journal of Marketing Theory and Practice	2024

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2025	ICSSR	Ongoing	1510000
2025	SERB	Ongoing	3100000
2025	NHPC	Ongoing	14 Lakh
2025	AICTE	Completed	01 Lakh
2025	RMC Workshop ICSSR Sponsored	Completed	5.5 lakh
2025	ICSSR Workshop	Completed	02 Lakh

DEPARTMENT OF TOURISM AND TRAVEL MANAGEMENT

About the Department

The Department of Tourism and Travel Management at the Central University of Jammu, established in 2012. Its flagship MBA (Tourism & Travel Management) programme is structured to transform passionate individuals into industry-ready professionals and future global leaders. With a dynamic, industry-aligned curriculum, experienced faculty, and strong collaborations with leading organizations, the department ensures that students remain equipped to meet the demands of the rapidly evolving tourism sector. A notable achievement of the department is its consistent record of student placements in top-tier tourism companies. In addition to academic excellence, the department places strong emphasis on holistic development through research initiatives, practical internships, and active participation in co-curricular and extracurricular activities.

Programme offered

- **MBA (Tourism and Travel Management)**
- **Ph.D (Tourism & Travel Management)**

Faculty details :

S. No	Name	Designation	Area of Specialization
1.	Dr. Ranjeet Kumar Raman	Associate Professor & Head	Destination Management Influencer Marketing Resilience and Climate Change Entrepreneurship & Venture Creation
2.	Dr. Mahendra Singh	Associate Professor	Hotel & Hospitality Management Gastronomic Tourism Sustainable Tourism Heritage Tourism
3.	Dr. Bharti Gupta	Assistant Professor	Cultural and heritage tourism, Creative tourism Sustainable tourism Spiritual, peace and pilgrimage tourism
4.	Mr. Rahul Thakur	Assistant Professor	Over tourism Sustainable Tourism Tourism and Technology
5.	Mr. Biswabhusan Pradhan	Assistant Professor	Smart Tourism Consumer Behavior Rural Tourism Heritage Tourism

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1.	Coordinated Educational Trip to “GreatIndia Travel Bazar, Jaipur” with students of MBA(TTM)	Jaipur, Rajasthan	4 to 6 May, 2025
2.	Organized Students Outreach activity for students “National IP Yatra Programme” at Hotel Blue Raddison, Jammu	Radisson Blu Hotel, Jammu	28-03-2025

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1.	Lifetime Membership	Dr. Ranjeet Kumar Raman	Vastav Incubatex & Entrepreneurship Foundation (VIEF), New Delhi	2025
2.	Convenor for the Annual Signature Event “TRAVELISM 2024” and World Tourism Day 2024	Dr. Ranjeet Kumar Raman	Central University of Jammu	27th September 2024
3.	Convenor -Capacity Building Workshop on “Developing Employability Skills for the Global Career Readiness	Dr. Ranjeet Kumar Raman	Central University of Jammu	17-09-2024
4.	Convenor- Reflections: 2024– Grand Alumni Meet	Dr. Ranjeet Kumar Raman	Central University of Jammu	28 -11-2024
5.	Convenor-Swachta Pakhwada in association of DC Samba	Dr. Ranjeet Kumar Raman	Purmandal Heritage Destinations	7-8-2024
6.	Presented a paper titled “Mapping Stakeholders Perceptions of Destination Resilience to Climate Change: An Exploratory Case Study of the Andaman Islands”	Dr. Ranjeet Kumar Raman	IIM Ahmedabad	7-9 December 2024
7.	Presented a paper titled “Effectiveness of AI-Powered Chatbots in Enhancing Tourist Experiences & Reducing Service Gaps: A Case of Jammu & Kashmir”	Dr. Ranjeet Kumar Raman	ICSSR-sponsored Two-Day National Seminar at Central University of Jammu	17th–18th October 2024

8.	Completed the Certificate Course in Applied Buddhist Philosophy with Grade 'A'	Dr. Ranjeet Kumar Raman	Nalanda University, Bihar	Academic session 2024–25
9.	Served as Resource Person for the Online Faculty Development Program "Emerging Trends in Hospitality Industry: Implications for Teaching & Curriculum Design"	Dr. Ranjeet Kumar Raman	Desh Bhagat University, Punjab	6-10 January, 2025
10.	Presented a paper titled "Influencer Marketing Trends and Future Research Directions: A Bibliographic Mapping Analysis at 11th International Hybrid Conference on Management Studies (ICMS)	Dr. Ranjeet Kumar Raman	European Knowledge Development Institute (EUROKD), Istanbul, Turkey	10th August, 2024
11.	Resource Person	Dr. Ranjeet Kumar Raman	Multidisciplinary Refresher Course organized by MMTTP Central University of Jammu	04-26 April 2025
12.	Resource Person	Dr. Ranjeet Kumar Raman	ICSSR & Department of Educational Studies, Central University of Jammu	18-19 March 2025
13.	Resource Person	Dr. Ranjeet Kumar Raman	Online FDP on Emerging Trends in Hospitality Industry : Implications for Teaching & Curriculum Design, organized by Desh Bhagat University	6-10 January 2025
14.	Patent Filed And Published. Titled "An Artificial Intelligence Based System For Monitoring And Prediction Of Over tourism" ID - 202411057032 A	Rahul Thakur		26-07-24
15.	Invited Lecture On Ambedkar's Idea Of Nation	Rahul Thakur	Department of Education, Central University of Jammu	16-04-2025

16.	Presented A Paper Titled “Effectiveness Of Ai – Powered Chatbots In Enhancing Tourist Experiences And Reducing Resource Consumption In Eco-Lodges” At A National Seminar. Title Of The Seminar “Role Of Artificial Intelligence In Business Management: Perspectives & Implications On The Way To Viksit Bharat.	Rahul Thakur	ICSSR & Department of Marketing and Supply Chain Management, Central University of Jammu	17 & 18,Oct. 2025
17.	12 weeks nptel aicte, faculty development programme. titled “ai in marketing”.	Rahul Thakur	NPTEL & AICTE	JAN – APRIL 2025
18.	completed an online course titled “upgrade your social media presence with chatgpt”.	Rahul Thakur	UDEMY	02-05-2025
19.	attended 03 days workshop on integrating recent pedagogical skills in teaching-learning at higher education level.	Rahul Thakur	Department of Educational Studies, DIQA and UGC-MMTTC, Central University Of Jammu.	27th – 29th NOV. 2024
20.	10 Days Workshop On “Research Methodology Course In Social Science”.	Rahul Thakur	Sponsored by ICSSR & Organised by SBS, Central University Of Jammu.	4th – 14th March 2025
21.	Copyright on MRP Model for Emotional Health	Dr. Bharti Gupta	Copyright Office, Govt. of India	04/02/2025
22.	Copyright on LISTEN Model: Local Initiative for Skill , Training and Education Network	Dr. Bharti Gupta	Copyright Office, Govt. of India	26/03/2025
23.	Z	Dr. Bharti Gupta	Indian Tourism and Hospitality Congress in collaboration with the University of Wolverhampton, UK	2nd to 6th October 2024

24.	Invited lecture on “Love and Compassion as Foundational Human Values and Ethics in Research”	Dr. Bharti Gupta	MMTTC Central University of Jammu under the aegis of MMTP, UGC	14th April 2025
25.	Presented research paper: How does cultural norms influence the mindful consumption of tourism experience? International Conference on Sustainable Goals (ICSG 2.0) on the theme “Sustainability Imperative: Challenges and Implications to Businesses, Government, and Society	Mr. Biswabhusan Pradhan	Indian Institute of Management, Bodh Gaya	2nd February, 2025

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1.	Dr. Ranjeet Kumar Raman	Does Food ASMR tist Induce Sensory Marketing? An Instagram Content Analysis	1049-6491	Journal of Promotion Management , 31(2), 179–210	2025
2.	Dr. Ranjeet Kumar Raman	Crisis Management in Tourism	9780443137020	International Encyclopedia of Business Management (Scopus Index)	2024
3.	Dr. Ranjeet Kumar Raman	Travel Influencers	9780443137020	International Encyclopedia of Business Management (Scopus Index)	2024
4.	Dr. Ranjeet Kumar Raman	Small Business	9780443137020	International Encyclopedia of Business Management (Scopus Index)	2024

5.	Mahendra Singh	Indigenous Tourism: A Bibliometric Analysis of Two Decades of Research Trends and Visualization of Scholarly Landscape	2159-032X	Heritage & Society / 19/1-19	2025
6.	Mahendra Singh	Niche-Tourism Led Socio-Economic Development of Bundelkhand: Potential of Folk Cuisine in Destination Weddings	0030-5324	Journal of the Oriental Institute / 73/1158-1170	2024
7.	Dr. Bharti Gupta	How Does Social Media Influence Tourist Behavior? A Conceptual Framework For Exploration	978938300617	Maayaa Global	2024
8.	Mr. Biswabhusan Pradhan	Social Media Reviews' Influence on Spa and Wellness Consumer Choices: Conceptual Framework, Prospective Significance, and Future Research Directions	59798369319789	IGI Global Scientific Publishing	2024
9.	Mr. Biswabhusan Pradhan	Unveiling the Landscape of Cruise Tourism Research: A Bibliometric Analysis and Visualisation.	0128-7702	Pertanika Journal of Social Sciences and Humanities	2024
10.	Mr. Biswabhusan Pradhan	Designing Effective VR Learning Environments: Immersive Strategies and Methods	9798369364079	IGI Global Scientific Publishing	2024

11.	Mr.Biswab husan Pradhan	Mapping the Scholarly Landscape of Entrepreneurship Education Research in Higher Education Institutions: A Comprehensive Bibliometric Overview	2158-3595	Journal of Higher Education Theory and Practice	2024
12.	Mr.Biswab husan Pradhan	Indigenous Art Performances as Mechanisms of Cultural Valorization and Economic Leverage in Malabar Region, Kerala: The Dialectics of Tradition and Tourism	9798369373880	IGI Global Scientific Publishing	2025
13.	Mr.Biswab husan Pradhan	Indigenous Tourism: A Bibliometric Analysis of Two Decades of Research Trends and Visualization of Scholarly Landscape	2159-032X	Heritage and Society	2025

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Sreenand A.S, Isha Chandra, and Ankita Singh	MBA (TTM) 3rd Semester	Venture Voice Tourism Entrepreneurship Development competition organized by Chandigarh University, Chandigarh	18 October 2024	Final Round

Marketing and Supply Chain Management



About the Department

The Department of Marketing and Supply Chain Management was established in the year 2016 under the School of Business Studies. The vision of the department is to produce Management Graduates who would emerge as 'Pillars of the Nation' and shall contribute to the development and growth of the public as well as private sector around the globe. The department envisages expanding the scope of its vision to become the most comprehensive source of domain-specific business knowledge. The prime objective of the department is to make the students industry-ready and contribute to their full potential. Application-based teaching methodologies encompassing case studies, simulations, workshops, role plays, guest lectures, and industry outreach programmes opted by the faculty, prepare the budding minds to develop a holistic approach for a rigorous corporate career.

Programme offered

- MBA-Marketing Management
- PhD

Faculty details :

S. No	Name	Designation	Area of Specialization
1.	Dr. Vinay Kumar	Associate Professor	Finance Marketing
2.	Dr. Shahid Mushtaq	Assistant Professor	HRM
3.	Dr. Naresh Kumar	Assistant Professor	Marketing Finance
4.	Dr. Anju Thapa	Assistant Professor	Marketing SCM
5.	Dr. Arun Yadav	Assistant Professor	Marketing and Finance

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1	The Future of Digital Marketing: Emerging Trends and Innovations	Prof. Alka Sharma, TBS, University of Jammu	27-11-2025
2	National Seminar on TOEFL and GRE	Ms. Kanika Mehra Regional Manager North India ETS India	07-02-2025
3	Workshop on Entrepreneurship by JKEDI	Dr. Vinod Kumar Sharma (JKEDI)	21-02-2025
4	Career Counselling Workshop	Mr. Viraj Magotra, TPO CU Jammu	19-03-2025
5	Role of AI in Marketing	Prof. Vinay Chouhan	05-05-2025

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1	Dr. Naresh Kumar	Impact of Artificial Intelligence on Purchase Intention: A Bibliometric Analysis	978-3-031-55614-2	Role of Explainable Artificial Intelligence in E-Commerce	2024
5	Dr. Vinay Kumar	Corporate metaverse- exploring the impact of virtual reality on organizational culture and employee engagement	2464-8792	International Journal of Research in Management 2025;7(1):770-779 Vol.08, Issue 01	2025

6	Dr. Anju Thapa	Deciphering GSCM Practices and Consumers' Purchasing Behaviour of Sustainable Products using TPB Framework	433-442, 2024	Empirical Economics Letters	2024
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Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2022	Ministry of Social Justice and Empowerment, Govt of India.	Submitted (2025)	3,75,000/-

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Neeraj Singh Bagal	4th	North Zone, Inter-University Cricket Tournaments 2024-25, organized by the University of Delhi	10-02-2025 to 11-02-2025	Participation

Dr. Naresh Kumar, Assistant Professor

Year of Sanction	Funding Agency	Status of Projects
2024	ICSSR (RM Workshop)	Completed

Dr. Anju Thapa, Assistant Professor

Year of Sanction	Funding Agency	Status of Projects
2023	ICSSR	Completed
2023	DSC, Samba	Ongoing
2024	DSC, Samba	Ongoing

Details of Students Achievements: Statement showing details of JRF/NET students across the Departments.

Sl. No.	Name of the student	JRF/NET/SET	Year
1	Sahil Chauhan (Research Scholar)	NET (Management)	2024

- **Department of Computer Science
and Information Technology**
- **Department of Electronics &
Communication Engineering**

Department of Computer Science and Information Technology

About the Department

The Department of Computer Science & Information Technology under the aegis of the School of Basic & Applied Sciences was established in the year 2012. The Department is well equipped with state-of-the-art laboratories of all major domains of Computer Science and Information Technology with excellent internet, servers, hardware and software support like Videoconferencing etc. The Department has a team of highly qualified and experience faculty members with varied field of research areas. The Department makes an ongoing effort to establish and maintain a learning environment that supports the best possible levels of both teaching and research.

Programme offered

- M.Tech- CSIT,
- PhD

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Prof. Yahswant Singh	Professor (On Deputation)	IoT, WSN, Cyber Security
2	Dr. Palvindar Singh Mana	Professor	Artificial Intelligence, Soft Computing, Cyber Security
3	Dr. Neerandra Kumar	Associate Professor	Robotics, Computer Programming, Artificial Intelligence
4	Dr. Arvind Kumar	Assistant Professor	Biometrics Security, Digital Image Processing Computer Vision Machine Learning
5	Dr. Deepti Malhotra	Assistant Professor	Cloud Computing, Machine Learning Artificial Intelligence Medical Image Processing
6	Mr. Zakir Ahmed Shiekh	Assistant Professor	Security of Cyber Physical Systems, Cyber Security, Artificial Intelligence
7	Mr. Pankaj Choudhary	Assistant Professor	Drone Technology, Digital Forensics, Cyber Security, Information Security

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1	Technical aspects of emerging technologies and the development of models for open-source software	Prof. Vir Bahadur Singh	22/8/2024
2	The impact of artificial intelligence in shaping the future of logistics	Prof. Zdzislaw Polkowski	23/8/2024
3	A non-parametric operational analytics approach: Data Envelopment Analysis	Prof. Mehdi Toloo	22/8/2024
4	Role of IEEE to Enhance Academic and Professional Growth	Mr. Ramneek Karla	07/02/2025
5	Cyber Security: Current Trends & Future Perspectives	Dr. Sparsh Sharma Dr. Dinesh Kumar	13/03/2025

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1	Exposure Visit of Students of Martyr Balbir Raj Govt. Higher Secondary School Mansar, Udhampur	CUJ	14/11/2024
2	Exposure Visit of Students of Govt. Girls Higher Secondary School, Samb	CUJ	09/12/2024
3	Exposure Visit of Students of PM Shri GGHS Jourian School	CUJ	17/01/2025
4	Exposure Visit of Students of GDC Akhnoor	CUJ	17/01/2025

Memorandums of Understanding signed.

S. No	Title of the MoU	Signed by	Date
1	IBM Skills Build Program executed by Edunet Foundation	Registrar, CUJ	17/2/2025

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1	Patent Registered: Smart Robotic Arm System for Apple Grading and Categorization	Prof. Yashwant Singh, Zakir Ahmad Shiekh	IP India	21/02/2025
2	Patent Filed: IoT Enabled Autonomous Snow Removal System with Aerial and Ground Units	Prof. Yashwant Singh, Zakir Ahmad Shiekh	IP India	06/12/2024
3	Patent Published [Application # 202521002674]	Dr. Palvindar Singh Mana	IP India	14-03-2025

4	Resource Person for Course on Empowering Education through AI and Digital Technologies	Dr. Palvindar Singh Mana	UGC MMTTC	23.05.25
5	Resource Person for FDP on Bio-Inspired Optimization Techniques	Dr. Palvindar Singh Mana	NITTTR, Chandigarh	28.05.25
6	Expert Talk during course on Pedagogy and Modern Technology Tools	Dr. Palvindar Singh Mana	IEEE Antennas and Propagation Society (APS) Chapter – Jaipur	16.06.25
7	Expert lecture on "Document Preparation using LaTeX"	Neerendra Kumar	IEEE APS Jaipur Chapter, Jaipur 3rd Edition of Professional Training Program on "Pedagogy and Modern Technology Tools "	27-06-2025
8	Resource Person in Multidisciplinary Refresher Course on “Empowering Education through AI and Digital Technologies”	Dr. Neerendra Kumar	MMTTC, Central University of Jammu University of Jammu	20-05-2025
9	Patent Granted (Artificial Intelligence-Based Turmeric Powder Adulteration Detector) No. 428132-001	Dr. Arvind Selwal	Indian Patent	25/08/2024
10	Patent Granted (Sensor Based Smart Irrigation Device) No. 450358-001	Dr. Arvind Selwal	ECAI, Romania	26/06/2025
11	International book published on the title “Leveraging Computer Vision to Biometric Applications”	Dr. Arvind Selwal	CRC press, Taylor & Francis	07/10/2024

12	Patent Published “Meta-Learning System for Early Glioblastoma Detection in rare disorder diagnostics” 202411078609	Dr. Deepti Malhotra	IP India	October 2024
13	Patent Published, “A System and Method for MRI-Based prediction and Diagnosis of Neurodegenerative disorders” 202411056010	Dr. Deepti Malhotra	IP India	December 2024
14	Best Research Paper Presentation	Dr. Deepti Malhotra	International Conference; Department of Computer Science and IT, OP Jindal University, Raigarh, Chhattisgarh,	April 2025
15	Member (BoS -IT)	Dr. Deepti Malhotra	MIER College of Education (Autonomous)	2/6/2025
16	Reviewer	Dr. Deepti Malhotra	International Journal of Machine Learning and Cybernetics	12/3/2025
17	Contributed Dataset “Glioblastoma Multiforme Brain MRI Dataset for Tumor Detection and Classification	Dr. Deepti Malhotra	Mendeley Data	06-05-2025
18	Invited Speaker in One day Training Programme on “Digital Tools in Academics”	Dr. Deepti Malhotra	Sher-e- Kashmir University of Agricultural Sciences & Technology, Jammu (SKUAST-J)	25/7/2024
19	Project YUVA Nodal Officer for following subcommittees: i) IEC activities/ Counseling, ii) Interactive Portal Development, iii) Skill Imparting/ Capacity Development. Govt. of J&K.	Zakir Ahmad Sheikh	Govt. of J&K	09/09/2024

20	Technical Appraisal Committee Member for vetting DPR of project “Innovative Extension Approaches for Revitalizing Agriculture in Jammu & Kashmir”	Zakir Ahmad Sheikh	Govt. of J&K	15/07/2024
21	Resource Person (Workshop on Integration of Artificial Intelligence and Machine Learning in Plant Systematics and Biodiversity Conservation)	Zakir Ahmad Sheikh	Department of Botany, Central University of Jammu	17/02/2025 to 21/02/2025
22	Resource Person for AICTE ATAL FDP (Delivered Talk on “Connected World: Unlocking Internet of Things for Smart World Applications”)	Zakir Ahmad Sheikh	AICTE ATAL FDP, Department of CSE, Central University of Jammu	18/11/2024 to 23/11/2024

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/Issue of Publication	Year of Publication
1	Zakir Ahmad Sheikh Yashwant Singh	Generalizability Assessment of Learning-Based Intrusion Detection Systems for IoT Security: Perspectives of Data Diversity	2475-6725	Security and Privacy	2025
2	Zakir Ahmad Sheikh Yashwant Singh	Review on the Use of Federated Learning Models for the Security of Cyber-Physical Systems	1895-1767	Scalable Computing: Practice and Experience	2025

3	Zakir Ahmad Sheikh Yashwant Singh	OLM-CPS: Optimized Learning Models for the Security of Constrained Cyber Physical Systems	1877-0509	Procedia Computer Science	2025
4	Yashwant Singh, Zakir Ahmad Sheikh	FedSec-CPS: Federated Learning Based Security Framework for Security of Cyber- Physical Systems	1877-0509	Procedia Computer Science	2025
5	Yashwant Singh, Zakir Ahmad Sheikh	A Hybrid Security Methodology for Real-Time Constraint Cyber- physical Systems	978-981-97- 7862-1	Proceedings of International Conference on Recent Innovations in Computing	2024
6	Yashwant Singh	Bi-CANet: Bidirectional Contextual Alignment with Multimodal Decoder for Image Captioning	979-8-3315- 1958-2	3rd International Conference on Disruptive Technologies (ICDT)	2025
7	Yashwant Singh	Secure IoT data dissemination with block chain and transfer learning techniques	2045-2322	Scientific Reports	2025
8	Yashwant Singh	Parkinson's Disease Detection: A Machine Learning Based Model	1877-0509	Procedia Computer Science	2025

9	Yashwant Singh	Federated Learning-based Framework for Rainfall Prediction in Smart Agriculture	1877-0509	Procedia Computer Science	2025
10	Yashwant Singh	Methodology for Assessing Existing Vulnerabilities in Modbus Protocol	1877-0509	Procedia Computer Science	2025
11	Yashwant Singh	A hybrid approach for energy-efficient routing in IoT using duty cycling and improved ant colony	1751-8636	IET Communications	2025
12	Yashwant Singh, Neerendra Kumar	Block chain-empowered secure data communication for UAV	2662-995X	SN Computer Science	2024
13	Yashwant Singh	Review of intrusion detection system in cyber-physical system based networks: Characteristics, industrial protocols, attacks, data sets and challenges	9781003406105	Intelligent Security Solutions for Cyber-Physical Systems	2024
14	Yashwant Singh	Lightweight Cryptographic Algorithms for Cyber-Physical Systems	9781003406105	Intelligent Security Solutions for Cyber-Physical Systems	2024
15	Yashwant Singh	Intelligent Security Solutions for Cyber-Physical Systems	9781003406105	Intelligent Security Solutions for Cyber-Physical Systems	2024
16	Yashwant Singh	Automated Parkinson's Disease Detection: A Review of Techniques, Data sets, Modalities, and Open Challenges	1178-5608	International Journal on Smart Sensing and Intelligent Systems	2024

17	Dr. Palvindar Singh Mana	Artificial Intelligence-Based Waste Management: A Review of Classification, Techniques, Issues, and Challenges	1942-4787	Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, Wiley.	2025
18	Dr. Palvindar Singh Mana	HFR-YOLOv3 model for multi-object detection and unscented Kalman filtering based object tracking in vehicle driving footage	2366-5971	International Journal of Intelligent Robotics and Applications, Springer	2025
19	Dr. Palvindar Singh Mana	Artificial intelligence based classification for waste management: A survey based on taxonomy, classification & future direction	1574-0137	Computer Science Review, Elsevier	2025
20	Dr. Palvindar Singh Mana	A Survey on Mobile Digital Forensic: Taxonomy, Tools, and Challenges	2475-6725	Security and Privacy, Wiley.	2025
21	Dr. Neerendra Kumar	Cascading Bagging and Boosting Ensemble Methods for Intrusion Detection in Cyber-Physical Systems	2475-6725 (Online) 2475-6725(Print)	Security and Privacy 8.1 e497	2025
22	Dr. Neerendra Kumar	A novel 3-D image encryption algorithm based on SHA-256 and chaos theory	1110-0168	Alexandria Engineering Journal 122 pp. 564–577.	2025

23	Dr. Neerendra Kumar	Optimized In-trusion Detection Approach for Cyber-Physical System Using Meta-Learning With Stacked Generalization: An Ensemble Learning Inspired Approach	2475-6725 (Online) 2475-6725(Print)	Security and Privacy 8.3 e70031 SPY-2025-0157.R1, e70031	2025
24	Dr. Neerendra Kumar	A systematic review on cybersecurity of robotic systems: vulnerabilities trends, threats, attacks, challenges, and proposed framework	1615-5270	International Journal of Information Security 24.3 (May 2025), p. 127	2025
25	Dr. Neerendra Kumar	Block chain-Empowered Secure Data Communication for UAV	2661-8907	SN Computer Science 5.8 (Dec. 2024), p. 1163	2024
26	Dr. Neerendra Kumar	Visually meaningful image encryption for secure and authenticated data transmission using chaotic maps	1319-1578	Journal of King Saud University - Computer and Information Sciences 36.10 (2024), p. 102235	2024
27	Dr. Neerendra Kumar	CNN-GWO-voting & hybrid: ensemble learning inspired intrusion detection approaches for cyber-physical systems	2454-9983	Proceedings of the Indian National Science Academy (Nov. 2024)	2024
28	Dr. Arvind Selwal	A survey on image cryptography mechanisms: hitherto, and future directions	2454-9983	Computer Science Review	2025

29	Dr. Arvind Selwal	A Survey on Automatic Image Captioning Approaches: Contemporary Trends and Future Perspectives	1886-1784	Archives of Computational Methods in Engineering	2024
30	Dr. Arvind Selwal	Cascading adaptive binary image feature maps with vision transformer for iris spoof detection	872-9681	Applied Soft Computing	2025
31	Dr. Arvind Selwal	A Novel Light weight Image Cryptographic Algorithm via Substitution-Permutation Methods	2475-6725	Security and Privacy	2025
32	Dr. Arvind Selwal	Cascading Bagging and Boosting Ensemble Methods for Intrusion Detection in Cyber-Physical Systems	2475-6725	Security and Privacy	2025
33	Dr. Arvind Selwal	Iens Net: A novel and efficient approach for iris spoof detection via ensemble of deep models	1573-7721	Multimedia Tools and Applications	2024
34	Dr. Arvind Selwal	An artificial intelligence-enabled approach for classroom interactiveness assessment via video analysis	1573-7721	Multimedia Tools and Applications	2024
35	Dr. Arvind Selwal	Incremental Learning-enabled Network for Fingerprint presentation attack detection	1877-0509	Procedia Computer Science	2025

36	Dr. Arvind Selwal	Improved Deepfake Detection with Optimized Preprocessing for Low-Quality Images	1877-0509	Procedia Computer Science	2025
37	Dr. Arvind Selwal	Leveraging Computer Vision to Biometric Applications	9781032614649	CRC Press (Taylor Francis)	2024
38	Dr. Arvind Selwal	An Efficient and Robust Iris Spoof Detection Pipeline via Optimized Deep Features	9781032614649	CRC Press (Taylor Francis)	2024
39	Dr. Arvind Selwal	Computer-Vision Techniques for Video Analysis	9781032614649	CRC Press (Taylor Francis)	2024
40	Dr. Arvind Selwal	Integration Of Iot Sensors, Ai Technologies, And Devices In Hybrid And Electric Aviation	978-1-0364-1107-7	Cambridge Scholars Publishing	2024
41	Dr. Arvind Selwal	Biometrics: Introduction and Applications	9781032614649	CRC Press (Taylor Francis)	2024
42	Dr. Arvind Selwal	Image Quality Assessment for Deep Learning-Enabled Saffron Adulteration	978-981-97-7371-8	Springer	2024
43	Dr. Deepti Malhotra	Advancing Rare Neurological Disorder Diagnosis: Addressing Challenges with Systematic Reviews and AI-Driven MRI Meta-Trans Learning Framework for Neuro Degenerative Disorders	1568-1637	Ageing Research Reviews, Elsevier Q1 Journal of Impact factor 12.4	2025

44	Dr. Deepti Malhotra	AI-Powered Diagnosis of Mood and Psychotic Disorders: A Systematic Review and Meta-Transfer Learning Framework	1548-7776	American Journal of Psychiatric Rehabilitation, ESCI	April 2025
45	Dr. Deepti Malhotra	USMDA: Unsupervised Multisource Domain Adaptive ADHD Prediction Model using Neuroimaging	1872-7409	Knowledge-Based Systems, SCI, IF=7.2	October 2024
46	Dr. Deepti Malhotra	SSMDA : SEMI-Supervised Multi-Source Domain Adaptive Autism prediction Model using Neuro imaging	1746-8108	Biomedical signal processing and control, SCI, IF=5.1	SEPT2024
47	Dr. Deepti Malhotra	IRAM-NET Model: Image Residual Agnostics Meta Learning based Network for Rare De Novo Glioblastoma Diagnosis	1433-3058	Neural Computing and Applications, SCI, IF=6.0	August 2024
48	Dr. Deepti Malhotra	Ensembler_fMRI: An Intelligent Approach for the Early Prediction of Autism Disorder	1863-1873	Procedia Computer Science	Jan 2025

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2020	DRDO	Completed	41.97 Lakhs
2019	DRDO	Completed	46.322 Lakhs
2024	DST-PURSE	Ongoing	6.5 Crores
2020	DRDO	Completed	77.98 Lakhs
2020	NCW	Completed	12.19 Lakhs
2019	DRDO	Ongoing	9,94,61,930/-

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Himanshu Sharma	-	Conference	7-8 March 2025	International
2	Sheerin Zadoo	-	Conference	23-24 December 2024	International
3	Sheikh Imroza Manzoor	-	Conference	23-24 December 2024	International
4	Sakshini Handloo	-	Conference	23-24 December 2024	International
5	Shubham Sharma	-	Conference	28-29 November 2024	International
6	Ambreen Sabha	-	Conference	8-9 April, 2024	International
7	Mehak Mengi	-	Conference	23-24 December 2024	International
8	Narinder Verma, Neha Koul, Ankit Ashish	-	Conference	23-24 December 2024	International
9	Narinder Verma	-	Conference	2024	International
10	Arshia Gupta	-	Conference	29-02-2024	International
11	Bharat Bhushan Sharma	2nd	SWAYAM-NPTEL	11/2/2024	Elite+Silver
12	Vinay Partap Singh	2nd	SWAYAM-NPTEL	11/2/2024	Elite+Gold (Topper of 5% in the course)
13	Sidharth Sambyal	2nd	SWAYAM-NPTEL	10/26/2024	Elite+Gold

Department of Electronics and Communication Engineering

About the Department

Department of Electronics and Communication Engineering (DoECE) was established under the mentorship of IIST-ISRO in year 2022. The department is offering two UG programmes (B.Tech.) in Electronics Communication Engineering (ECE), and ECE (Avionics). The Department is also offering Doctoral programs in ECE. The students also gain experience in carrying out experiments and take part in some of the research and development activities at different centres of ISRO, IIST, and related industry through their internship programmes. DoECE put all the efforts to make our students to compete internationally and to produce creative solutions to society's needs, universal moral values, adherent to professional ethical code, and to generate any knowledge and technologies essential to the local and global needs in the field of ECE. The quality teaching and guidance by highly qualified and experienced faculty members will benefit the students to compete globally. The regular interaction between students and faculty helps students to apply the theoretical knowledge to real life situations. Moreover, the faculty members organize special sessions, workshops, technical events, and seminars to present innovative ideas of the students. In addition, students also have an opportunity to get internship or placement at following reputed organization:

- **Vikram Sarabhai Space Centre, Trivandrum**
- **ISRO Satellite Centre, Bangalore**
- **Space Application Centre, Ahmadabad**
- **SathishDhawan Space Centre, SHAR**
- **Liquid Propulsion Systems Centre, Trivandrum, Bangalore, Mahendragiri**
- **Master Control facility, Hassan**
- **National Remote sensing centre, Hyderabad**
- **ISRO Satellite Tracking Centre, Bangalore**
- **Bharat Electronics Ltd.(BEL)**
- **Hindustan Aeronautics Limited (HAL)**
- **Various Industries involved in Design and development of electronics systems**
- **Industries involved in development of software systems and computer networking.**

VISION

The vision of the department is to become a centre of excellence in teaching and research in the field of electronics, communication, avionics, and latest technologies to develop a workforce to lead the latest technologies for the welfare of the society and nation.

MISSION

- **Enhance the teaching learning process via innovative project practices to inculcate the knowledge of students towards the emerging technologies in the field of electronics, communication, and avionics.**
- **Provide the knowledge of professional ethics, values, and entrepreneurship to serve the society and industry.**

Programme offered

- **B.Tech.** in Electronics and Communication Engineering
- **B.Tech.** in Electronics and Communication Engineering (Avionics)
- **M.Tech.** in Electronics and Communication Engineering
- **PhD.** in Electronics and Communication Engineering

Faculty details :

S. No	Name	Designation	Area of Specialization
1.	Prof. Rakesh Kumar Jha	Professor	Green and Secure 6G, Space Technology, Optical and Quantum Communication
2.	Dr. Sachin Kumar Gupta	Associate Professor	Drone Communication, Cryptography and Network Security, Post Quantum
3.	Dr. Sunil Datt Sharma	Associate Professor	Cryptography, Wireless Networking Signal Processing and Artificial Intelligence
4.	Dr. SanjeevYadav	Associate Professor	FSS, Metamaterial, Microwave antenna, filter, absorber, rasorber, Reconfigurable intelligent surface
5.	Dr. Rajiv Kumar	Assistant Professor	Physical layer Security in MIMO, MUS MIMO & Massive MIMO Wireless Communication System
6.	Dr. Misbah Shafi	Assistant Professor	Security Issues in Wireless Communication Networks, Quantum Communication, 6G and Beyond
7.	Dr. Priyank Sharma	Assistant Professor	Wireless Communications; NOMA, Generalized Fading, IRS, mmWave Communication, 6G Communications, EH.
8.	Dr. Pravesh Pal	Assistant Professor	Microwave antenna, filter, absorber, rasorber, Reconfigurable intelligent surface

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1.	Robotic Programming with ROS	Dr. Radhe Shyam Sharma, IIT Mandi	29/08/2024
2.	Innovative Applications of Additive Manufacturing in Lens Antenna Designs	Prof. Ravi Kumar Arya, Director, Xiangshan Laboratory Wireless Group, Xiangshan Laboratory, Zhongshan Institute of Changchun University of Science and Technology, China	12/6/2024
3.	Training Program for the setup of Ground Station and Development of Nano Satellite	Prof. Priyadarshanam, IIST, Thiruvananthapuram	September 23-24, 2024

4.	Expert Talk: Special emphasis for skills required for the placement of B.Tech. ECE or ECE (Avionics) Students in the Current Era	Mr. Omvir Singh Bhadoria, TPO, IIITDM Jabalpur, M.P.	17th September, 2024
5.	Expert talk for first-year B.Tech. students to provide career guidance and motivation	Prof. Preetam Kumar ,IIT Patna & Prof. Sanjeev Narayan Sharma, PDPM IIITDM Jabalpur, M.P.	19th December 2024
6.	One Week Workshop on "Drone Technology and Its Applications"	1. Mr. AshishJaiswal, Technical lead, Drona Aviation Ltd. 2. Mr. Atul Mehta Embedded Engineer, Drona Aviation Ltd. 3. Mr. Gaurav Singh, Trainer, Drona Aviation/ CEO Delvik Apps 4. Mr. Amit, Drona Aviation/ CEO Delvik Apps 5. Dr. P. Anand, Garuda Aero Space 6. Dr. K. Ramesh Kumar, Garuda Aero Space 7. Mr. Vikrant, Drone Pilot, Garuda Aero Space 8. Mr. Kirubakaran, Drone Pilot, Garuda Aero Space	14th -19th October, 2024
7.	Satellite Communication and Its Applications	Alok Kumar Singhal, Scientist , ISRO Centre Ahemdabad	23rd August, 2024

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1.	Educational Visit of student to IIT Jammu	IIT Jammu	July 30, 2024
2.	Educational Visit of student to Semiconductor Laboratory, Mohali	SCL Mohali	February 24, 2025
3.	155-IIRS (ISRO Centre) Outreach program on Space Science and Technology awareness training (start)	IIRS Nodal Centre- IIC Cell Central University of Jammu	9th January 2025- 29th January 2025
4.	146-IIRS (ISRO Centre) Outreach program on Basics of "Remote Sensing, Geographical Information System and Global Navigation Satellite System	IIRS Nodal Centre- SatishDhawan Space Science, Centre Central University of Jammu)	27th Aug.2024- 22nd Nov 2024

5.	146-IIRS (ISRO Centre) Outreach program on Remote Sensing and Digital Image Analysis	IIRS Nodal Centre-SatishDhawan Space Science, Centre Central University of Jammu)	27 August 2024 to 20 September 2024
6.	149-IIRS (ISRO Centre) Outreach program on Overview of Global Navigation Satellite System	IIRS Nodal Centre-SatishDhawan Space Science, Centre Central University of Jammu)	23 September 2024 to 04 October 2024
7.	154-IIRS (ISRO Centre) Outreach program on Geo-data sharing and Cyber Security	IIRS Nodal Centre-SatishDhawan Space Science, Centre Central University of Jammu)	December 09, 2024 to December 20, 2024
8.	156-IIRS (ISRO Centre) Outreach program on "Geodata Processing using Python and Machine Learning	IIRS Nodal Centre-SatishDhawan Space Science, Centre Central University of Jammu)	17 February 2025 to 28 February 2025
9.	167-IIRS (ISRO Centre) Outreach program on Archival and Access of the Space Science Data	IIRS Nodal Centre-SatishDhawan Space Science, Centre Central University of Jammu)	09 June 2025 to 13 June 2025
10.	168-IIRS (ISRO Centre) Outreach program on on Remote Sensing Data Analytics for Crop Production Forecasting	IIRS Nodal Centre-SatishDhawan Space Science, Centre Central University of Jammu)	16th June 2025 to 20th June 2025

Memorandums of Understanding signed.

S. No	Title of the MoU	Signed by	Date
1.	MoU between Central University of Jammu and Garuda Aerospace Pvt. Ltd Chennai	Registrar	24/01/2025
2.	MoU signed between Central University of Jammu and Airport Authority of India	Registrar	28th May 2024

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1.	Elected as EXECOM Member	Dr. SanjeevYadav	IEEE Delhi Section	January - December 2025
2.	He is among the top 2% researchers of the world in engineering field	Dr. Rakesh Kumar Jha	Stanford University and Elsevier	Sept 2024
3.	Top 0.5% of all scholars worldwide according to the most recent 2024 Scholar	Dr. Sunil Datt Sharma	Scholar GPS	Top Scholar - Prior 5

4.	GPS rankings.Patent Granted	Dr. Rakesh Kumar Jha, Dr. Haneet Kour	Government of India	Years27-05- 2025
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Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1.	Dr. Rakesh Kumar Jha	Behavior Modeling-Based QoS Preserving Model with Intelligent Trust Ranking for 6G	2169-3536	IEEE Access	2025
2.	Dr. Rakesh Kumar Jha	Advanced network design for 6G: Leveraging graph theory and slicing for edge stability	103029	Simulation Modelling Practice and Theory, Elsevier	2025
3.	Dr. Rakesh Kumar Jha and Dr. Misbah Shafi	Safeguarding the Internet of Health Things: advancements, challenges, and trust-based solution	779-808	Telecommunicatio n Systems, Springer	2024
4.	Dr. Rakesh Kumar Jha	Attack Modeling and Security Analysis Using Machine Learning Algorithms Enabled with Augmented Reality and Virtual Reality	16	IJCNIS	2024
5.	Dr. Rakesh Kumar Jha and Dr. Haneet Kour	Green and Safe 6G Wireless Networks: A Hybrid Approach	2473-2400	IEEE Transactions on Green Communications and Networking	2024
6.	Dr. Rakesh Kumar Jha and Dr. Misbah Shafi	6G: Technology evolution in future wireless networks	2169-3536	IEEE Access	2024
7.	Dr. Rakesh Kumar Jha and Dr. Misbah Shafi	Next-Level Intrusion Detection: Multilayered Security for Future Generatio 6G Networks	2155-2487	COMSNET, IEEE	2025

8.	Dr. Sachin Kumar Gupta	Energy and Experimental Trust-based Task Offloading in the Domain of Connected Autonomous Vehicles	2214-210X	Vehicular Communications, Elsevier	2025
9.	Dr. Sachin Kumar Gupta	A low-latency 163-bit ECC processor for IoT applications	1339-309X	Journal of Electrical Engineering	2025
10.	Dr. Sachin Kumar Gupta	A Genetic Algorithm-Based Approach for Collision Avoidance in a Multi-UAV Disaster Mitigation Deployment	1532-0634	Concurrency and Computation: Practice and Experience, Wiley	2025
11.	Dr. Sachin Kumar Gupta	AES-8: A Lightweight AES for Resource-Constrained IoT Devices	2161-3915	Transactions on Emerging Telecommunications Technologies, Wiley	2025
12.	Dr. Sachin Kumar Gupta	A Comparison of 163-bit Hybrid Karatsuba Multiplier and Word-Serial Multipliers for ECC processors	2161-3915	Transactions on Emerging Telecommunications Technologies, Wiley	2025
13.	Dr. Sachin Kumar Gupta	Design and analysis of SPR based Refractive Index sensor with enhanced sensitivity based on Graphene/BP Heterostructure	1572-817X	Optical and Quantum Electronics, Springer	2024
14.	Dr. Sachin Kumar Gupta	A hybrid learning network with progressive resizing and PCA for diagnosis of cervical cancer on WSI slides	2045-2322	Scientific Reports	2025

15.	Dr. Sachin Kumar Gupta	Enhancing CNN Weights for Improved Routing in UAV Networks for Catastrophe Relief with MSBO Algorithm	1550-4654	Journal of Mobile Multimedia	2024
16.	Dr. Sachin Kumar Gupta	Joint trust-based detection and signature-based authentication technique for secure localization in underwater wireless sensor network	1573-7721	Multimedia Tools and Applications, Springer	2025
17.	Dr. Sachin Kumar Gupta	IRS-based Drone Communication Systems for Emergency Situations	1905-9094	GMSARN International Journal	2025
18.	Dr. Sachin Kumar Gupta	A Novel Energy Transmission Method in WSN for Difficult Physical Situation	1905-9094	GMSARN International Journal	2025
19.	Dr. Sachin Kumar Gupta	Health Hazard Minimization using Collaborative Multi-UAVs for Coverage Extension in Urban Scenario	1905-9094	GMSARN International Journal	2025
20.	Dr. Sachin Kumar Gupta	Securing unmanned aerial vehicle—heterogeneous networks using functional encryption scheme	1573-7721	Multimedia Tools and Applications, Springer	2025
21.	Dr. Sachin Kumar Gupta	Performance Comparison of various Learning Algorithms for Prediction of CVD Risk among OSA Patients	1905-9094	GMSARN International Journal	2026

22.	Dr. Sachin Kumar Gupta	A systematic approach to prevent threats using IDS in IoT based devices	1905-9094	GMSARN International Journal	2025
23.	Dr. Sachin Kumar Gupta	Epilepsy detection using Bi-LSTM integrated with Decision Tree	1905-9094	GMSARN International Journal (Accepted)	2024
24.	Dr. Sachin Kumar Gupta	Unmanned Aircraft Systems	ISBN-10:1394230613 ISBN-13:978-1394230617	Wiley-Scrivener	2025
25.	Dr. Sachin Kumar Gupta	Wireless Ad-hoc and Sensor Networks: Architecture, Protocols, and Applications	ISBN9781003528982	Routledge, CRC Press, Taylor and Francis Group	2024
26.	Dr. Sachin Kumar Gupta	High-Performance Automation Methods for Computational Intelligent Systems: Challenges, Opportunities, and Applications	9781003559917	CRC Press, Taylor and Francis Group	2025
27.	Dr. Sachin Kumar Gupta	High-Performance Automation Methods for Computational Intelligent Systems: Design and Enabling Technologies	9781003643609	CRC Press, Taylor and Francis Group	2025
28.	Dr. Rajiv Kumar	Advancements in Tunnel Field-Efect Transistors: Material Innovations, Emerging Applications and Future Perspectives	1876-9918	Silicon	2025

29.	Dr. Rajiv Kumar	Unified intercept probability analysis of multi-user multi-relay aided decode and forward wireless systems	2511-2112	International journal of information technology	2024
30.	Dr Pravesh Pal	High gain dielectric resonator filtering antenna for 6g applications	1434-8411	AEU-International Journal of Electronics and Communications	2025
31.	Dr Pravesh Pal	A Compact MIMO Antenna based on H-Shaped Isolator with Efficient Isolation for K-band Applications	979-8-3503-5010-4	2024 Second International Conference on Microwave, Antenna and Communication (MAC) IEEE	2024
32.	Dr Pravesh Pal	Material Characterization of Graphene-Based Circular Patch Terahertz (THz) Antenna for Biomedical Applications	9781032656021	CRC Press	2024
33.	Dr. Rajiv Kumar	Higher order filter and FrFT based ECG Signal Analysis, 2024	979-8-3315-4082-1	IEEE Silchar Subsection Conference (SILCON 2024)	2024
34.	Dr. Sunil Datt Sharma	Pelican Optimization based Histogram Equalization for Contrast Enhancement and Brightness Preservation	2074-9082	International Journal of Image, Graphics and Signal Processing (IJIGSP)	2025
35.	Dr. Sunil Datt Sharma	iProLSTM-FL: A Federated Learning Framework for Promoter Identification using LSTM Networks	2643-8615	IEEE 7th International Conference on Signal Processing, Computing and Control (ISPCC)	2025

36.	Dr. Sunil Datt Sharma	Detection and Classification of Heart Arrhythmia Using Signal Processing and Artificial Intelligence Techniques: A Review	ISBN 978-981-96-1452-3	Trends in Sustainable Computing and Machine Intelligence. ICTSM 2024. Algorithms for Intelligent Systems. Springer, Singapore	2024
37.	Dr. Sunil Datt Sharma	ROUTING PROTOCOLS FOR WIRELESS SENSOR NETWORKS	ISBN 978-93-48116-09-3	Emerging Technologies and Society	2025
38.	Dr. Sunil Datt Sharma	Fuzzy based self-similarity weight estimation in non-local means for gray-scale image de-noising	1051-2004	Digital Signal Processing	2024
39.	Dr. Sanjeev Yadav	Design and optimization of a Polarization-Insensitive Terahertz Metamaterial Absorber for Sensing Applications	1569-4429	Photonics and Nanostructures - Fundamentals and Applications	Dr. Sanjeev Yadav
40.	Dr. Sanjeev Yadav	Compact penta-band metamaterial absorber: achieving polarization insensitivity and optimized bandwidth performance	0306-8919	Optical and Quantum Electronics	Dr. Sanjeev Yadav
41.	Dr. Sanjeev Yadav	Epilepsy detection based on optimal filterbank decomposition and KNN classifier	1746-8108	Biomedical Signal Processing and Control	Dr. Sanjeev Yadav

42.	Dr. Sanjeev Yadav	Compact Hexagonal Shaped Multiband Patch Antenna loaded with Complementary Split ring resonators for THz Frequency Applications	979-8-3503-7969-3	3rd IEEE Microwave Antenna and Propagation Conference (MAPCON-2024)	Dr. Sanjeev Yadav
43.	Dr. Priyank Sharma	Outage Analysis of IRS-NOMA System over $\eta - \mu$ Fading Channel	2210-3279	International Journal of Sensors, Wireless Communications and Control	2024

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2024	JKST&IC	Ongoing	6.00 Lakh
2024	MIETY	Ongoing	150 Lakh

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1.	Md Rafe Akhtar	6th	Cricket	10th Feb to 19th Feb 2025	All India University games
2.	Dev Babu	6th	Cricket	10th Feb to 19th Feb 2025	All India University games
3.	Prince Divedi	2nd	Cricket	10th Feb to 19th Feb 2025	All India University games
4.	Kritish Nagyal	4th	Conference - STEP 2025 & IPSC 2025	4/03/2025 - 7/03/2025	International (CANSAT)
			Electric Vehicles Workshop	21/06/2024 - 28/06/2024	SERB's Outreach Programme
			Hands On - Aeromodeling	11/01 2025 - 12/01/2025	Boeing's Outreach Programme

5.	Archana Dubey	4th	Conference - STEP 2025 & IPSC 2025	4/03/2025 - 7/03/2025	International (CANSAT)
6.	Arpan Dey	6th	Conference - STEP 2025 & IPSC 2025	4/03/2025 - 7/03/2025	National (CANSAT)
7.	Arpan Dey	6th	Can Sat Indian Competition	15/04/2024-17/04/2024	Finalist
8.	Shashank Shekhar Barnwal	6th	The 9th National Conference on Computer Vision Pattern Recognition Image Processing and Graphics (NCVPRIG-2024)	18/07/2024 - 20/07/2024	National (Tier-1 Conference)
9.	Shashank Shekhar Barnwal	6th	Conference Electric Aircraft & Allied Technologies	11/07/2024 - 13/07/2024	National (Aerospace Seminar)





SCHOOL OF BASIC & APPLIED SCIENCE



- **Physics & Astronomical Science**
- **Chemistry and Chemical Sciences**
- **Department of Mathematics**

Department of Physics & Astronomical Sciences



About the Department

The Department of Physics and Astronomical Sciences at Central University of Jammu, established in 2016, offers a unique blend of teaching and research through its Integrated B.Sc. (Hons./Research)–M.Sc. program and Ph.D. program (since 2018). With a focus on core physics and interdisciplinary exposure, the department hosts faculty with research interests in condensed matter, photonics, nuclear theory, statistical physics, and materials science. It maintains strong publication output and has received DST-FIST funding (~₹2 crore in 2024). The department fosters academic excellence through modern labs, national collaborations, and annual scientific events, with a vision to emerge as a center of excellence in physics.

Programme offered

- **Integrated B.Sc. (Hons./Research) – M.Sc. in Physics**
Duration: 5 Years (4+1)
- **b.M.Sc. in Physics (Started: 2025)**
Duration: 2 Years
- **c.Ph.D. in Physics**

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Prof Vinay Kumar	Professor & Head	Materials Sciences
2	Prof. Suram Singh	Professor	Theoretical Nuclear Physics
3	Prof. Balaji Rao Ravuri	Professor	Energy Materials
4	Prof. Kamni	Professor	Materials Sciences
5	Dr. Ashish Kumar	Associate Professor	Experimental Condensed Matter Physics
6	Dr. Praveen Kumar	Associate Professor	Materials Science
7	Dr. Vishal Singh	Assistant Professor	Materials Science
8	Dr. Pragati Kumar	Assistant Professor	Materials Science
9	Dr. Tanuj Kumar	Assistant Professor	Experimental Condensed Matter physics
10	Dr. Onkar Nath Verma	Assistant Professor	Materials Science
11	Dr. Manvi Rajput	Assistant Professor	Nuclear Physics

Eminent Lecture/Extensive lecture organized.

S. No	Lecture of the Topic	Speaker	Date
1	International conference on Physics for Sustainable Development (ICPSD-2024)	About 20 speakers	Department of Physics and Astronomical Sciences, Central University of Jammu on 4th to 5th April 2024.
2	Nanophosphors for Sustainable Development: Revolutionizing Solid-State Lighting Solutions	Prof. Vinay Kumar	6th International Conference on Recent Advances in Fundamental and Applied Science (RAFAS 2025) held from 18th April, 2025 to 19th April, 2025, organized by School of Chemical Engineering and Physical Sciences, Lovely Faculty of Technology and Sciences, at Lovely Professional University, Punjab.

3	Tuneable emission from Eu ³⁺ doped Zn ₃ (VO ₄) ₂ phosphors for light emitting diodes	Prof. Vinay Kumar	10th South African Conference on Photonic Materials held from 7 - 11 April 2025 in the Amanzi Private Game Reserve near Brandfort in the Free State, South Africa
4	Harnessing Solar and Electrochemical Energies”	Prof. Prabhakar Singh	12 September 2024
5	Monte Carlo Simulations of Ion-Matter Interactions: An Introduction to SRIM/TRIM	Dr. Ashish Kumar	International Conference on Mathematical Sciences: Emerging Trends in Engineering and Applications (ICMS-2025), organized by the Department of Mathematics, Applied Science Cluster, UPES , Dehradun from 29th May 2025 to 30th May 2025.
6	Defect Engineering in Semiconductors Materials for Thermoelectric Applications	Dr. Ashish Kumar	Keynote Address in One Week Online International FDP on "Advanced Materials & Characterization Techniques” (AMCT-2025) on 06th February 2025, by Applied Physics Dept., YCCE, Nagpur

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1	Carmel Convent School, Kunjwani, Jammu Visited the SDCSS on 30th November, 2024 as a part of the STEM workshop organized at their school.	Satish Dhawan Centre for Space Sciences	30-11-2024
2	Educational visit of Govt. Higher Secondary School, Bainglar, Samba	Satish Dhawan Centre for Space Sciences	27-10-2024
3	Educational visit of Govt. High School, Rehian, Samba	Satish Dhawan Centre for Space Sciences	27-10-2024

4	Educational visit of Govt. Girls Higher Secondary School, Samba	Satish Dhawan Centre for Space Sciences	22-11-2024
5	Educational visit of Govt. Higher Secondary School, Goran, Samba	Satish Dhawan Centre for Space Sciences	29-11-2024
6	Educational visit of Govt. Boys Higher Secondary School, Samba	Satish Dhawan Centre for Space Sciences	01-12-2024
7	Educational visit of Govt. Higher Secondary School, Sumb, Samba	Satish Dhawan Centre for Space Sciences	12-12-2024
8	NEP 2020 Orientation & Sensitization Programme	Central University of Jammu	15.04.2025 to 23.04.2025
9	Refresher Course on Physical and Chemical Sciences	Central University of Jammu	10.12-2024 to 23.12.2024

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/Issue of Publication	Year of Publication
1	Prof Vinay Kumar	Optimization and Luminescence Studies of Sm ³⁺ -doped LiCaBO ₃ Phosphors for High-Performance White Light-Emitting Diodes	2667-0224	Chemical Physics Impact	2024
2	Prof Vinay Kumar	Self-emitting yellow phosphor with enough quantum efficiency and thermal stability for light emitting diodes	2667-0224	Chemical Physics Impact	2024
3	Prof Vinay Kumar	The effects of Eu ³⁺ concentration on the photoluminescence of Na ₄ Ca(PO ₃) ₆ phosphors prepared by a solid-state reaction method	2667-0224	Chemical Physics Impact	2024

4	Prof Vinay Kumar	Structural implications of ionic conduction in $\text{LaAlO}_3\text{-Ce}_{0.8}\text{Gd}_{0.2}\text{O}_{2-\delta}$ composite solid electrolyte	0272-8842	Ceramics International	2024
5	Prof Vinay Kumar	Preparation of SrVO_3 by annealing of $\text{Sr}_2\text{V}_2\text{O}_7$ in a reducing atmosphere	2667-0224	Chemical Physics Impact	2024
6	Prof Vinay Kumar	Near UV-photons excited highly pure and thermally stable $\text{Ca}_2\text{B}_2\text{O}_5\text{: Sm}^{3+}$ phosphor for filling the amber gap	1387-7003	Inorganic Chemistry Communications	2024
7	Prof Vinay Kumar	Enhancement of electrical properties by CuS-PVP nanocomposite on the ZnO/polymer heterojunction	2192-6549	Journal of the Chinese Chemical Society	2024
8	Prof Vinay Kumar	Structural, optical, and surface analysis of Dy^{3+} doped Ba Mg(BO)_3 phosphor for w-LED applications	0022-2313	Journal of Luminescence	2025
9	Prof Vinay Kumar	Enhanced optical and electrical properties of NiO-GO composite thin films on flexible PET substrates for optoelectronic applications	2949-7469	Chemistry of Inorganic Materials	2025

10	Prof Vinay Kumar	Enhanced UV protection and photocatalytic activity in Samarium and Europium co-doped TiO ₂ thin films: A durable solution for protective coatings	1873-4944	Materials Science & Engineering B	2025
11	Prof Vinay Kumar	Tailoring structural and optical properties of Europium-doped TiO ₂ nanopowders for advanced solid-state lighting	1432-0630	Applied Physics A	2025
12	Prof. Suram Singh	Theoretical investigation of nuclear structure and shape evolution in even-even Gd isotopes with A = 152–160	2190-5444	The European Physical Journal Plus/ Vol. 140	2025
13	Prof. Suram Singh	Study of two quasiparticle structures of odd-odd 90–94Nb isotopes	0218-3013	International Journal of Modern Physics E / Vol. 33	2024
14	Prof. Suram Singh	Microscopic study of near-rastband structures in odd mass 117-127I isotopes	1434-601X	The European Physical Journal A/ Vol. 60	2024
15	Prof. Balaji Rao Ravuri	Core@shell Bi ₂ S ₃ @Bi ₂ O ₃ composites with custard apple seed-derived carbon as a high-performance anode material for sodium-ion batteries		Sustainable Energy Fuels	2025

16	Prof. Balaji Rao Ravuri	Zr ⁴⁺ -doped sodium manganese oxide: enhanced electrochemical performance as a cathode in sodium ion batteries	1477-9234	Dalton Transactions- Royal Society of Chemistry	2024
17	Prof. Balaji Rao Ravuri	Microstructure and functional properties of light weight AlMg _x TiSnZn high entropy alloy	2667-0224	Chemical Physics Impact	2024
18	Prof. Balaji Rao Ravuri	Physical Properties of [Ni-(Mo/Cr)-Si]:[Ti/Nb] Bulk Metallic Glass Systems: A Comparison Study	2198-4239	Journal of Bio-and Tribo-Corrosion	2024
19	Prof. Balaji Rao Ravuri	Polyanion NaNi _{1-x} Cu _x PO ₄ glass and glass-ceramic cathode network: Structure with improved electrochemical performance	1432-0630	Applied Physics A	2024
20	Prof. Balaji Rao Ravuri	The enhanced galvanostatic and impedance studies of silver doped ZnAl ₂ O ₄ anode material for Li/Na ion batteries	1432-0630	Applied Physics A	2024
21	Prof. Balaji Rao Ravuri	Impact of concentration of Bi ₂ O ₃ on gamma ray shielding efficiency of BaTiO ₃ composite ceramics	2667-0224	Chemical Physics Impact	2024

22	Prof. Balaji Rao Ravuri	Na _{4+x} [Sn _{1-x} Y _x Si _{3.8} P _{0.2} O ₁₂]glass-ceramic electrolyte :Structure correlation with Interfacial resistance and electrochemical performance	2667-0224	Chemical Physics Impact	2024
23	Prof. Balaji Rao Ravuri	Nanotechnology and Green Hydrogen for Circular Bio-economy-Book Chapter	9780841296695	Green Hydrogen	2024
24	Dr. Ashish Kumar	Enhanced UV protection and photocatalytic activity in Samarium and Europium co-doped TiO thin films: A durable solution for protective coatings.	0921-5107	Materials Science and Engineering: B,	2025
25	Dr. Ashish Kumar	Structural and Electrical Changes in Multilayer Graphene Induced by Negative Oxygen Ion Bombardment.	2666-8459	Results in Surfaces and Interfaces	2025
26	Dr. Ashish Kumar	Enhanced optical and electrical properties of NiO-GO composite thin films on flexible PET substrates for optoelectronic applications.	2949-7469	Chemistry of Inorganic Materials	2025
27	Dr. Ashish Kumar	Enhancement in power factor of Sn and Zn co-doped Bismuth Telluride for thermoelectric applications.	0957-4522	Journal of Materials Science: Materials in Electronics	2025

28	Dr. Ashish Kumar	Boosting thermoelectric performance of PEDOT:PSS/Bi Te hybrid films via structural and interfacial engineering.	1566-1199	Organic Electronics	2024
29	Dr. Ashish Kumar	Comparative Analysis of 50 MeV Li ³⁺ and 100 MeV O Ion Beam Induced Electrical Modifications in Silicon Photodetector.	2162-8769	ECS Journal of Solid State Science and Technology	2024
30	Dr. Ashish Kumar	Electronic structure and luminescence studies of Bi-doped MgO nanophosphor.	0272-8842	Ceramics International	2024
31	Dr. Ashish Kumar	Ab-initio stability of Iridium based newly proposed full and quaternary Heusler alloys.	0921-4526	Physica B: Condensed Matter	2024
32	Dr. Ashish Kumar	Improved thermoelectric performance of PEDOT:PSS/Bi Te /reduced graphene oxide ternary composite films for energy harvesting applications	2046-2069	RSC Advances	2024
33	Dr. Ashish Kumar	Graphene-derived composites: a new Frontier in thermoelectric energy conversion.	2753-1457	Energy Advances	2024
34	Dr. Ashish Kumar	SERS detection of Rhodamine -6G on Au/V O /Au under ion irradiation	0168-583X	Nuclear Instrum. & Methods Phys. Res. B	2024

35	Dr. Ashish Kumar	Disorder induced in GaN thin films by 200 MeV silver ions	0168-583X	Nuclear Instrum. & Methods Phys. Res. B	2024
36	Dr. Ashish Kumar	Oxygen ion irradiation: Insights into the structural modifications of CVD-grown graphene	0168-583X	Nuclear Instrum. & Methods Phys. Res. B	2024
37	Dr. Praveen Kumar	Two-Magnon Raman Enhancement in the MnS/rGO Nanohybrids Correlation of Electrical and Magnetic Properties	2468-0230	Surfaces and Interfaces 68,	2025
38	Dr. Praveen Kumar	Effect of precursor molarities on structural correlation with optoelectronic property of Zn ₂ SnO ₄ nano structured thin films	2667-0224	Chemical Physics Impact	2025
39	Dr. Praveen Kumar	Ag-doped hematite/rGO nanocomposites for effective methylene blue dye degradation: study of structural, optical and chemical properties	2190-5444	The European Physical Journal Plus	2025
40	Dr. Praveen Kumar	Insights into the structural, chemical and optical properties of hematite/rGO nanocomposites for dye decolorization via adsorption and photocatalysis	0957-4522	Journal of Materials Science: Materials in Electronics	2025

41	Dr. Praveen Kumar	Optimizing operational parameters for improved photocatalytic activity of hematite-rGO nanocomposites in methylene blue dye degradation	1434-6028	Transactions of the Indian Institute of Metals	2025
42	Dr. Praveen Kumar	Exfoliated Carbon Fibers Dispersion in Aluminum Metal Matrix-Based C/Al Composites	0972-2815	Transactions of the Indian Institute of Metals	2025
43	Dr. Pragati Kumar	Synthesis and characterization of Ba _{0.8} Ca _{0.2} CoxZrxFe _{12-2x} O ₁₉ by Sol-Gel Auto-Combustion route	1873-4766	Journal of Magnetism and Magnetic Materials	2025
44	Dr. Pragati Kumar	Augmenting the broadband feature in CdS CQDs thin film photodetectors by Ag assimilation	1293-2558	Solid State Sciences	2025
45	Dr. Pragati Kumar	Varistor response and structural analysis of silver mixed TiO ₂ (anatase) nanoparticles	0974-9845	Indian Journal of Physics 9	2024
46	Dr. Pragati Kumar	Exchange-Coupling Enhanced: Tailoring Structural and Magnetic Properties of Dy Iron Garnet Ferrite Nanoparticles via La Substitution	2044-5326	Journal of Materials Research,	2024
47	Dr. Pragati Kumar	I-V study of PANI and CdO nano-composite mixture for low-voltage varistors	1573-482X	Journal of Materials Science: Materials in Electronics	2024

48	Dr. Pragati Kumar	Luminescent Thermometers: Fundamentals, Materials and Applications	9781040227473	CRC Press	2024
49	Dr. Tanuj Kumar	Synthesis of noble metal nanostructures by ion beam irradiation and their characterization	1872-9584	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms	2024
50	Dr. Tanuj Kumar	Exploring properties of organometallic double perovskite (CH ₃ NH ₃) ₂ AgInCl ₆ : A novel material for energy conversion devices	0217-9849	Modern Physics Letters B	2025
51	Dr. Tanuj Kumar	Investigation of a potential photovoltaic absorber based on first principles spectroscopic screening of chalcogenide perovskites: CaZrX ₃ (X= S, Se)	1569-8025	Journal of Computational Electronics	2024
52	Dr Onkar Nath Verma	–Structural implications of ionic conduction in LaAlO ₃ Ce _{0.8} Gd _{0.2} O _{2-δ} composite solid electrolyte	0272-8842	Ceramics International	2024
53	Dr Onkar Nath Verma	Probing Oxide Ion Conduction in La _{0.9-x} A _x Sr _{0.1} Al _{0.9} Mg _{0.1} O _{3-δ} (A= Ba, Sm) Electrolyte Material with Pt and Ag as Electrode	0361-5235	Journal of Electronic Materials	2025

54	Dr. Manvi Rajput	Theoretical investigation of nuclear structure and shape evolution in even-even Gd isotopes with A = 152–160	2190-5444	TheEuropean Physical Journal Plus/ Vol. 140	2025
55	Dr. Manvi Rajput	Microscopic study of neary rast band structures in odd mass 117-127I isotopes	1434-601X	TheEuropean Physical Journal A/ Vol. 60	2024

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2024	ISRO	Ongoing (Dr. Ashish Kumar & Prof. Vinay Kumar)	59.31 lakh
2022	SERB (CRG/2022/002384)	Ongoing (Prof. Suram Singh)	22 lakh
2024	DRDO CARS	Ongoing (Dr. Ashish Kumar & Prof. Vinay Kumar)	26.07 lakh
2024	IUAC, New Delhi	Ongoing (Dr. Ashish Kumar)	10.1 Lakhs
2024	JKST & IC	Ongoing (Dr. Pragati Kumar)	8 Lakhs
2023	IUAC	Ongoing (Dr. Pragati Kumar)	10.1 Lakhs
2025	IUAC, New Delhi	Ongoing (Dr. Tanuj Kumar)	6,03,000/-

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Mehak	SEM 10 Int. B. Sc. (H)-MSc. Physics	6th International Conference on Recent Advances in Fundamental & Applied Sciences (RAFAS 2025)	18-19th April 2025	Oral Presentation
2	Basit Iqbal	SEM 10 Int. B. Sc. (H)-MSc. Physics	6th International Conference on Recent Advances in Fundamental & Applied Sciences (RAFAS 2025)	18-19th April 2025	Oral Presentation

3	Kanika Verma	SEM 10 Int. B. Sc. (H)-MSc. Physics	6th International Conference on Recent Advances in Fundamental & Applied Sciences (RAFAS 2025)	18-19th April 2025	Oral Presentation
4	Anshu Hansa	SEM 10 Int. B. Sc. (H)-MSc. Physics	6th International Conference on Recent Advances in Fundamental & Applied Sciences (RAFAS 2025)	18-19th April 2025	Oral Presentation
5	Mehak Mehra	SEM 10 Int. B. Sc. (H)-MSc. Physics	6th International Conference on Recent Advances in Fundamental & Applied Sciences (RAFAS 2025)	18-19th April 2025	Oral Presentation

Chemistry and Chemical Sciences



Department of Chemistry and Chemical Science
Central University of Jammu, India

About the Department

In 2016, the five-year Integrated B.Sc. (Hons.) M.Sc., Chemistry program was launched, bringing the Department of Chemistry & Chemical Sciences at CU Jammu to a sanctioned strength of thirty. The Department's intake capacity was expanded over time, reaching sixty w.e.f. from the 2022 session. Alongside the five-year Integrated B.Sc. (Hons.) M.Sc., Chemistry program, the Department also offered a Master's program in Chemistry in the upcoming academic year 2025–2026. In 2025, Department of Chemistry and Chemical Science shifted to its permanent building i.e., 2nd Floor Aryabhata Bhawan, School of Basic and Applied Science, Central University of Jammu. Our curriculum affords opportunities for interdisciplinary study and research while simultaneously offering students a solid foundation in the fundamentals of chemistry, such as organic, inorganic, physical, analytical, and material chemistry. In 2023, Department received DST-FIST grant of Rs.2.43 crores for establishment of high hand instrumentation at university. In last Nine years, faculty members of department have received more than 10 externally funded projects so far from funding agencies including DST-SERB, DRDO, UGC and JKST&IC with approximately funds of ~ Rs.3.82 crores, which acquiesce high quality research. Our faculty members' research in a variety of chemistry-related topics has earned them recognition on a global scale.

With the education offered in the Chemistry Department; Chemists come up:

1. with an adequate chemistry knowledge.
2. with the ability to design experiments, to use modern equipment to assess and comment on the consequences in the assigned project and sector.
3. with the ability to come up with solutions to the possible chemistry problems.
4. with the ability to make research and development studies and with its consequences to develop new techniques to put on the development of original work, patent and technology.

Our department takes pride from the scientific studies published in the National and International journals and from a great number of papers announced in National and International congresses by our academicians.

Programme offered

- Integrated B.Sc. (Hons.) M.Sc. Chemistry
- Ph.D. Programme in Chemistry (Organic, Inorganic, Physical and Material Chemistry)

Faculty details :

S. No	Name	Designation	Area of Specialization
1.	Prof. Pawan Kumar	Professor	Coordination Chemistry, Material Chemistry, Sensor, Environmental Chemistry
2.	Dr. Sujata Kundan	Associate Professor and Head	Coordination Chemistry, Bioinorganic Chemistry (Porphyrin Chemistry), Transition Metal Chemistry
3.	Dr. Satyanarayana Battula	Associate Professor	Organic Chemistry
4.	Dr. Princy Gupta	Assistant Professor	Green Chemistry, Heterogeneous catalysis, Solid Acid Catalysis, Synthetic Organic Chemistry
5.	Dr. Akshay Kumar	Assistant Professor	Synthetic Organic Chemistry, Organocatalysis, Asymmetric synthesis
6.	Dr. Indranil Chatterjee	Assistant Professor	Synthetic Organic Chemistry, Medicinal Chemistry

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1.	NEP 2020 Orientation & Sensitization – R & D	Prof. Pawan Kumar-As resource person	27-04-2024 to 04-05-2024
2.	Chemistry in Healthcare		5-09-2024
3.	Pursuit of radicals in the organic synthesis paradigm	Prof. Anuj Sharma, Department of Chemistry, IIT, Roorkee	13-12-2024

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1.	Hackathon Exhibition	Science block, Central University of Jammu	28-02-2025
2.	Hand on Training Practices-Instrumentation	DST-PURSE Facility, Science block, Central University of Jammu	26-05-2025 to 28-05-2025

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1.	Fellow of Indian Chemical Society	Dr. Pawan Kumar	Indian Chemical Society	Jan, 2025
2.	Best BIS Coordinator Achievement Award	Dr. Sujata Kundan	Bureau of Indian Standard (BIS) office, Jammu, Jammu and Kashmir	29-11-2024
3.	Felicitated with Gold Medal as SWAYAM MOOC Coordinator from Honorable VC Sir for getting highest number of gold medals in NPTEL courses from Chemistry Department Certificate of Recognition and Appreciation from ACS for Peer reviewer	Dr. Princy Gupta	Central University of Jammu	02-05-2025
	Certificate of Recognition and Appreciation from ACS for the year 2024 as Peer reviewer		ACS Publishers	April, 2025
	Certificate of Recognition and Appreciation from Wiley for acting as Reviewer of Advanced Energy Materials		Wiley Publishers	06-03-2025
	Certificate of Recognition and Appreciation from Springer Nature for acting as Reviewer of Scientific Reports		Springer Publishers	28-02-2025
	Certificate of Recognition and Appreciation from Springer Nature for acting as Reviewer of Molecular Diversity		Springer Publishers	22-12-2024
4.	CSIR-CDRI certificate of appreciation for filling of Patent	Dr. Indranil Chatterjee	CSIR-CDRI, Lucknow	09-05-2025
	CSIR-CDRI certificate of appreciation for filling of Patent		CSIR-CDRI, Lucknow	09-05-2025
	CSIR-CDRI certificate of appreciation for filling of Patent		CSIR-CDRI, Lucknow	2024

Best poster presentation award at NIICT 2024 conference, Hyderabad		CSIR-IICT, Hyderabad	2024
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Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1.	Prof. Pawan Kumar	Title of the Paper: Synthesis and analysis of Antioxidant properties of Gallate based bio-MOF for Drug Delivery Application, Sharma M., Kumar, P., (2025) Volume 171, January 2025, 113590 (SCI - Impact Factor – 5.0)	1387-7003	Inorganic Chemistry Communications	2025
2.	Dr. Sujata Kundan	Title of the Paper: Influence of meso-phenyl substituents on the free base and Co(II)porphyrins through the looking glass: experimental and theoretical studies, Monika Verma, Devika Sharma, Chayawan, Abhishek Bhushan, Keshav Dubey & Sujata Kundan, 1-32, 2025. https://doi.org/10.1080/00958972.2025.2468928 , Taylor and Francis: (SCI - Impact Factor – 2.1)	0095-8972	Journal of Coordination Chemistry	2025

	<p>Title of the Paper: One-Pot, Two-Step Synthesis of Highly Functionalized 4-Indolyl/Pyrrolyl-Chromanes via a para-Quinone Methide Formation–1,8-Addition Sequence, Rafia Khatoona, Tanvi Jandial, Anish Gupta, Sujata Kundan, Vellaisamy Sridharan*, 56, A-K, 2024. (SCI - Impact Factor – 2.3)</p>	0039-7881	Synthesis	2024
	<p>Title of the Book Chapter: Global Distribution of Micro- and Nano-Plastics: Scope of Nanomaterials towards Photocatalytic Degradation Monika Verma, Yashaswini, Dr. Sujata Kundan*</p>	978-1-83669-009-2	<p>Book Title: Emerging Materials for Photodegradation and Environmental Remediation of Micro- and Nano-Plastics: Recent Developments and Future Prospects Publisher:ISTE Ltd, London and John Wiley & Sons, New York.</p>	202
	<p>Title of the Book Chapter: Design, Characterization and Applications of Bio-inspired Materials” By Shivani Manhas, Devika Sharma, Monika Verma, Dr. Sujata Kundan*</p>	978-81-19674-31-2)	<p>Book Title: Biological, Chemical, and Physical Approach to Materials and Their Applications Publisher: National Press Associates, New Delhi</p>	2024

3.	Dr. Satyanarayana Battula	Title of the Paper: Hypervalent iodine salt as an aryne synthon: An easy access to a tandem synthesis of 9-aryldihydrophenanthrenes with styrenes, Volume 1031, 123576. (SCI - Impact Factor – 2.9)	0022-328X	Journal of Organometallic Chemistry	2025
		Title of the Paper: A Concise Review on Microwave Assisted Synthetic Approaches of Sulfonamides, Volume 9, Issue 37, e202304327. (SCI - Impact Factor – 2.0)	2365-6549	Chemistry Select	2024
4.	Dr. Princy Gupta	Title of the Paper: Palladium immobilized on functionalized halloysite: A robust catalyst for ligand free Suzuki–Miyaura cross coupling and synthesis of pyrano[2,3-c]pyrazole motifs via four component cascade reaction and their in-silicoantitubercular screening (SCI - Impact Factor – 4.8)	1873-3875	Applied Catalysis A: General	2025
		Title of the Paper: Cobalt Single-Atom Catalyst: Synthesis, Characterization and Catalytic Activity. (SCI - Impact Factor – 3.7)	1099-0739	Applied Organometallic Chemistry	2024

5.	Dr. Akshay Kumar	Title of the Paper: Exploring the Impact of Ionic Liquids on Pyrazole Derivatives Synthesis: A Critical Review. (SCI - Impact Factor – 2.0)	2365-6549	Chemistry Select	2024
		Title of the Paper: DBU-Catalyzed Vinylogous Reaction of 3-Cyano-4-methylcoumarins with 3-Arylsulfonyl-3-indolyloxindoles. (SCI - Impact Factor – 2.0)	2365-6549	Chemistry Select	2024
		Title of the Paper: Phytoremediation: An emerging green technology for dissipation of PAHs from soil. (SCI - Impact Factor – 3.3)	1879-1689	Journal of Geochemical Exploration	2024
6.	Dr. Indranil Chatterjee	Title of the Paper: Bucky-Bowl Derived Unnatural Amino Acids and Peptides: Synthesis and Substituent Effect on Bowl Inversion Dynamics and Electronic Structure. (SCI - Impact Factor – 2.0)	2365-6549	Chemistry Select	2025

		Title of the Paper: Corannulene Amino Acid Derived Water- Soluble Amphiphilic Bucky bowl as Broad-Spectrum Membrane Targeting Antibacterial Agents. (SCI - Impact Factor – 7.3)	0022-2623	J. Med. Chem.	2024
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Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Dheeraj Salaria	10th	Chem Star - X Workshop Organized by IISER Bhopal	8th-12th JULY, 2024	Participation
2	Pranika Vaid	10th	Chem Star - X Workshop Organized by IISER Bhopal	8th-12th JULY, 2024	Participation
3	Sheetu Devi	10th	Chem Star - X Workshop Organized by IISER Bhopal	8th-12th JULY, 2024	Participation
4	Ankita Thakur	10th	Chem Star - X Workshop Organized by IISER Bhopal	8th-12th JULY, 2024	Participation
5	Touseef Ahmeed Kumar	10th	Internship Programme organized by Indira Gandhi Centre for Atomic Research (IGCAR)	MAY-JULY, 2024	Participation
6	Deveevaishno Kumar Singh	10th	Chemconvergence virtual conference	4th-7th MARCH, 2025	Participation



Hackathon Exhibition Showcase on National Science Day, Feb. 28, 2025



Department of Mathematics

About the Department

The Department of Mathematics came into existence in 2011 along with the inception of the Central University of Jammu with only two faculty members. At Present the Department have eight faculty members and the department is running three programs (Master Degree Programme in Mathematics, Ph.D in Mathematics & Integrated B.Sc(H)-M.Sc Mathematics).

The faculty of Department has specialization in different fields such as: Commutative Algebra, Complex Analysis, Functional Analysis, Nonlinear Dynamic Operation Research, Operator Theory, Differential Equations, Probability and Statistics, Reliability Engineering & Theory, Quantum Cryptography & Quantum Image Processing etc.

From our Department more than 16 Students have completed their Ph.D degree and 06 earned M.Phil degree.

On the basis of academic performance of the Department DST, Govt. of India has sanctioned Rs. 54 lac under FIST Program. The faculty members of the Department have also 06 Research Projects funded by NBHM, Department of Atomic energy and UGC.

Programme offered

- M.A/M.Sc Mathematics
- Ph.D in Mathematics
- Integrated B.Sc. (H)-M.Sc. Mathematics

Faculty details :

S. No	Name	Designation	Area of Specialization
1.	Prof. Kamlesh Kumar	Professor & Head	Stochastic Processes, Probability & Statistics , Queuing- Modelling
2.	Prof. Ajay K. Sharma	Professor	Functions of a Complex variable, Functional analysis and Operator theory
3.	Prof. Uday Pratap Singh	Professor	Nonlinear Systems, Soft Computing, Image Processing, & Nature Inspired Algorithm
4.	Dr. Sulekha Rani	Associate Professor	Differential Equations, Operations Research, Reliability Engineering & Theory, Engineering Mathematics and Probability & Statistics
5.	Dr. Pavinder Singh	Assistant Professor	Combinatorial Commutative Algebra
6.	Dr. Sanjay Kumar	Assistant Professor	Complex Analysis and Operator Theory
7.	Dr. Mehak Sharma	Assistant Professor	Functional Analysis & Operator Theory, Function Spaces, Sequences series & Sum ability
8.	Dr. Km. Deepa	Assistant Professor	Quantum cryptography, Quantum visual cryptography, Quantum image processing

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1	Reliability and Availability Modeling in Practice	Prof. Kishor S. Trivedi	23/12/2024
2	Vedic mathematics: the magic of numbers	Dr. Pankaj Kumar	23/12/2024

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1.	Patent (Application Id/Patent No.) 435863-001	Uday Pratap Singh	Indian Patent Agency	2024
2.	Patent (Application Id/Patent No.) 546635	Uday Pratap Singh	Indian Patent Agency	2024

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1	Kamlesh Kumar	Cost optimization of a single server machine repair system with hybrid vacation under a bi-level (N, M) policy and reneing	ISSN No:1684-3703	Quality Technology & Quantitative Management	2024
2	Kamlesh Kumar	Cost Optimization for a Retrial Repairable Queueing Healthcare System with Working Vacation and Unreliability using the Genetic Algorithm and Particle Swarm Optimization	ISSN No:3050-7847	Operations Research, Data Analytics, and Logistics	2025
3	Kamlesh Kumar	Cost Optimization for Computer Numerical Control Machining Workshop: A Queueing Modelling Approach using the Meta-Heuristic Techniques	ISSN No:1879-2022	ISA Transactions	2025

4	Kamlesh Kumar	Modelling and Computation for a Queuing Manufacturing Plant System with Server Working Vacation under Control Policies	ISSN No:1861-9576	Journal of Systems Science and Systems Engineering	2025
5	Ajay K Sharma	A Novel Lightweight Image Cryptographic Algorithm via Substitution Permutation Methods	ISSN No:2475-6725	Security and Privacy	2025
6	Ajay K Sharma	A survey on image cryptography mechanisms: hitherto, and future directions	ISSN No:1876-7745	Computer Science Review	2025
7	Ajay K Sharma	Asymptotically Wijsman lacunary sequences of order (α, β)	ISSN No:2367-2501	The Journal of Analysis	2024
8	Ajay K Sharma	Decision Making on Statistical Convergence of Sequences of Sets of Order (α, β)	ISSN No:2705-1064	Contemporary Mathematics	2025
9	Ajay K Sharma	I-Convergence Sequence Paranormed Spaces of Order (α, β)	ISSN No:2075-1680	Axioms	2024
10	Ajay K Sharma	Wijsman asymptotically ideal statistical sequences of order (α, β)	ISSN No:2008-949X	Journal of Mathematics and Computer Science	2025
11	Ajay K Sharma	under decision making Asymototically Wijsman lacunary sequences of order (α, β) by using ideal	ISSN No:2288-6176	Honam Mathematical Journal	2024

12	Ajay K Sharma	On q-Fibonacci Cesàro Sequence Spaces by Using Band Matrix	ISSN No:2731-8095	Iranian Journal of Science	2025
13	Ajay K Sharma	Lucas difference sequences spaces defined by Orlicz function in 2-normed spaces	ISSN No:2391-4661	Demonstration Mathematica	2025
14	Ajay K Sharma	Finite sum of weighted differentiation composition operators from the fractional Cauchy spaces to the Zygmund-type space	ISSN No : 10158634	Bull. Korean Math. Soc.	2024
15	Ajay K Sharma	Finite Sum of Integral Operators from the Fractional Cauchy Spaces to Bloch-Type and Zygmund-Type Spaces	ISSN No:2705-1064	Contemporary Mathematics	2024
16	Ajay K Sharma	On sum of weighted differentiation composition operators from Bergman spaces with admissible weights to Zygmund type spaces	ISSN No:2538-225X	Advances in Operator theory	2024
17	Uday Pratap Singh	Adaptive Global Asymptotic Control for Time-Varying Complex Systems with Input Saturation Under Prescribed Performance Constraints	ISSN No:1531-5878	Circuits, Systems, and Signal Processing (Springer)	2025

18	Uday Pratap Singh	Adaptive Fault-Tolerant Control for Switched Nonlinear Systems with Input Deadzone and Sensor Faults	ISSN No:1366-5820	International Journal of Control(Taylor& Francis)	2024
19	Uday Pratap Singh	Performance evaluation of different Deep Learning models used for the purpose of healthy and diseased leaves classification of Cherimoya (Annona Cherimola) Plant	ISSN No:1433-3058	Neural Computing and Applications (Springer)	2025
20	Uday Pratap Singh	Adaptive Neural Finite-Time Control Switched Systems Featuring Sensor Hysteresis and Unknown Actuator Deadzone	ISSN No:1366-5820	International Journal of Control (Taylor& Francis)	2025
21	Uday Pratap Singh	Artificial Intelligence in Smart Agriculture	ISBN No 978-981-97-5878-4	Springer	2024
22	Uday Pratap Singh	Applications of Computer Vision and Drone Technology in Agriculture 4.0	ISBN No 978-981-97-5878-4	Springer	2024
23	Uday Pratap Singh	Assessing The Importance and Need of AI for Precision Agriculture	ISBN No 10.1007/978-981-975878-4_1	Springer	2024
24	Uday Pratap Singh	Introduction to Computer Vision and Drone Technology	ISBN No 10.1007/978-981-99-8684-2_1	Springer	2024
25	Pavinder Singh	Some homological properties of edge rings of diamond snake graphs	ISSN No:0019-5588	Indian Journal of Pure and Applied Mathematics	2025

26	Pavinder Singh	Certain homological invariants of some bipartite graphs	ISSN No:1005-3867	Journal of Algebra and its Applications	2024
27	Pavinder Singh	Graded Betti numbers of some bipartite graphs	ISSN No:1005-3867	Journal of Algebra and its Applications	2024
28	Sanjay Kumar	Complex paleyweiner theorem	ISSN No:2415-7503	Methods Funct. Anal. Topology	2024
29	Sanjay Kumar	On sum of weighted differentiation composition operators from Bergman spaces with admissible weights to Zygmund type spaces	ISSN No:2538-225X	Advances in Operator Theory	2024
30	Mehak Sharma	On sum of weighted differentiation composition operators from Bergman spaces with admissible weights to Zygmund type spaces	ISSN No:2538-225X	Advances in Operator theory	2024
31	Mehak Sharma	Sandwich weighted composition operators between weighted Bloch spaces	ISSN No:0271-4132	Contemporary Mathematics	2025

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2022	SERB (MATRICS)	running	Rs. 6,60,000/-

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event Participation	Date	Level & Rank
1	Ajay Gupta	M.Sc. II Semester	Annual Sports Meet 2025 (football)	27th-29th January 2025	University level (Gold)
2	Rajagobalan. B	M.Sc IV semester	Sports (Kabaddi)	27th-29th January 2025	University level (1st rank)
3	Aditya	M.Sc IV semester	Sports (volleyball)	27th-29th January 2025	University level (2nd rank)
			*Hackthon	6th Feb., 2025	University level (6th rank)
4	Shivani Thappa	M.Sc IV semester	Hackthon	6th Feb., 2025	University level (11th rank)

SCHOOL OF LIFE SCIENCE

Department of Environmental Sciences

About the Department

The Department is committed to provide quality education in Environmental Sciences, which has assumed significance in view of increasing development-sustainability conflicts, and the brut of which is visible in all the sphere of plant Earth. The Department is dedicated to empowering its students for global competition in job market and research innovations through constant review, revision and updating of the course curriculum to keep pace with the advances made in the discipline, emerging areas of research and development and the new technologies to understand and ameliorate environmental problems. The research students have been given choice to specialize in Renewable Energy Options, Water Quality Resource Treatment Options, Natural Resource Management, Green Technologies, Atmospheric Sciences, Environmental Geosciences, Solid Waste Management and disaster management and mitigation.

Programme offered

- M.Sc. Env. Sc.
- Int. B.Sc. (Hons.) – M.Sc. Env. Sc.

Faculty details :

S. No	Name	Designation	Area of Specialization
1.	Prof. Richa Kothari	Head, Department of Environmental Sciences	Bioenergy, Low-cost wastewater remediation and resource recovery
2.	Prof. Deepak Pathania	Professor	Environmental Monitoring and Assessment; Removal of emerging contaminants from water/wastewater; Bioremediation; Green technologies for environmental restoration
3.	Prof. Sunil Dhar	Professor	Remote Sensing; Glaciology; Tectonics; Environmental Geology; Igneous Petrology; Himalayan Geology
4.	Dr. Ankit Tandon	Associate Professor	Atmospheric Science; Atmospheric Aerosols; Trace Gases; Climate Variability; Statistical Modeling
5.	Lieut. Dr. Pankaj Mehta	Assistant Professor (Level - 12)	Rock- Water Interaction, Water & Soil Chemistry, Green Buildings, IPR & Startups
6.	Dr. Shweta Yadav	Assistant Professor (Level - 12)	Aerosols, Air Quality; Climate; Human & Environmental Health
7.	Dr. Dinesh Kumar	Assistant Professor (Level - 12)	Mesoscale and extended range weather forecasting; Data Assimilation; GIS application in Air pollution & Natural Resources mapping; Atmosphere, Climate and Climate change studies Using GIS and Coupled mode models (Land, Atmosphere and Oceanic Models).

Eminent Lecture/Extensive lecture organized.

S. No	Lecture of the Topic	Speaker	Date
1	Expert Talk on Atmospheric Investigations using Ground Based LiDAR & Satellites	Prof. Som Kumar Sharma	8th January, 2025
2	Expert Talk on Ozone for Life: Discovery to Recovery during Ozone Day Celebrations	Prof. Gufran Beig	13th September, 2024

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1.	Technical Symposium On Montreal Protocol: Advancing Climate Action in Commemoration of World Ozone Day 2024	Central University of Jammu	12-13/Sep/2024
2.	Science Camp “Biology Beyond Books: Hands-On Experience with Advanced Zoology Tools and Techniques in Modern Biology”	Science Camp for rural area 12th Grade Medical Students of Govt. Higher Secondary School, Marheen, Kathua, J&K, India.	28/Nov/ 2024
3.	Fashion Show	Central University of Jammu	26/Sep/2024
4.	Vedon Mein Vigyaan	Jammu University	7/Nov/2024
5.	Alumni Meet	Central University of Jammu	23/Nov/2024
6.	Swachhata Hi Seva campaign	Central University of Jammu	24/Sep/2024
7.	Republic Day	Central University of Jammu	26/Jan/2025
8.	Educational visit to SMVDU	SMVDU	2024
9.	Hands on training on Vermi-wash and Vermicompost preparation	Central University of Jammu	2024
10.	Ecogiri-Fest (Twice every year)	Central University of Jammu	2024, 2025
11.	Plantation Drive	Central University of Jammu	02/Feb/2025
12.	Nukkad Natak	Central University of Jammu	14/Aug/2024

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1.	World's Top 2% Scientist	Prof. Richa Kothari	Stanford and Elsevier	2024
2.	World's Top 2% Scientist	Prof. Deepak Pathania	Stanford and Elsevier	August 2024
3.	Women Scientist Award	Prof. Richa Kothari	Central University of Rajasthan	Feb, 2025
4.	Patent (Artificial intelligence-enabled hybrid sub-surface flow constructed wetland)	Prof. Richa Kothari	Indian Patent Office, CGPDTM	2025
5.	Patent (Simultaneous production of Hydrogen gas and treatment of wastewater with AI based algal biofilm detection device)	Prof. Richa Kothari	Indian Patent Office, CGPDTM	2025
6.	Patent (Innovative AI-Based Electrolyser System for Production of Green Hydrogen Gas)	Prof. Richa Kothari	Indian Patent Office, CGPDTM	2025
7.	Associate Editor	Dr. Ankit Tandon	Water, Air, & Soil Pollution, Springer-Nature	2024
8.	Editor with Distinction Award-2025	Dr. Ankit Tandon	Water, Air, & Soil Pollution, Springer-Nature	2025
9.	Subject Expert in Union Public Service Commission	Dr. Ankit Tandon	Union Public Service Commission	2025
10.	Certificate/Medal of Excellence	Lieut. Dr. Pankaj Mehta	Award of Certificate of Excellence and Medal of Excellence by Gp Cdr Brig PS Cheema, SM, VSM, Group Commander, NCC Group Jammu	03/May/2024
11.	Certificate of Excellence	Lieut. Dr. Pankaj Mehta	Conferred award from ADG Maj Gen R K Sachdeva and Sh. (Dr.) Piyush Singla IAS, Principal Secretary Education Department UT of J&K in Manthan at NCC Directorate JK&L	01/May/2024
12.	Project Advisory Committee Member,	Dr. Shweta Yadav	DST, Govt. of India	2024

	DST, WISE Scope Scheme			
13.	Member Upper Indus Basin Network	Dr. Shweta Yadav	Upper Indus Basin Network	2024
14.	Prof. Richa Kothari delivered an invited lecture on Renewable energy for carbon neutrality	Prof. Richa Kothari		25/Nov/2024
15.	Prof. Richa Kothari delivered an invited lecture on Green technologies and sustainable living	Prof. Richa Kothari		17/Feb/2025
16.	Lieut. Dr. Pankaj Mehta delivered an eminent/Invited talk on Rare Earth Elements, Rare Metals & Strategic Minerals in National Workshop at Banaras Hindu University on 2nd December 2024.	Lieut. Dr. Pankaj Mehta		28/Nov - 02/Dec/2024
17.	Lieut. Dr. Pankaj Mehta delivered an eminent/Invited talk on Sustainable Development Goals in 360° Assessment Preparation under NEP-2020 at DIET, Kathua (HQ-Basohli) for talk on SDG on 25th Dec 2024.	Lieut. Dr. Pankaj Mehta		25/Dec/2024
18.	Lieut. Dr. Pankaj Mehta delivered an eminent/Invited talk on Recent trends and advances in water science in International Conference at IIT Jammu on 11th Dec 2024	Lieut. Dr. Pankaj Mehta		11-13/Dec/2024
19.	Lieut. Dr. Pankaj Mehta delivered an eminent/Invited talk on Mann ki Baat on 76th NCC Day with Akshvani News Jammu	Lieut. Dr. Pankaj Mehta		24/Nov/2024
20.	Lieut. Dr. Pankaj Mehta delivered an	Lieut. Dr. Pankaj Mehta		15/Aug/2024

	eminent/Invited talk on Role of Youth in Nation Building at PNG Govt. PG College Ramnagar (Nainital) on 15th August 2024			
21.	Lieut. Dr. Pankaj Mehta delivered an eminent/Invited talk on National Education Policy 2020 by MyNEP Ambassador.	Lieut. Dr. Pankaj Mehta		16/Sep/2024
22.	Lieut. Dr. Pankaj Mehta delivered an eminent/Invited talk on Role of Youth in Nation Building at SMVD University on 6th Sep 2024.	Lieut. Dr. Pankaj Mehta		06/Sep/2024
23.	Lieut. Dr. Pankaj Mehta delivered an eminent/Invited talk on E2C Podcast on Burning Environmental Issues and Climate Change by IIT Jammu on 19th Jul 2024	Lieut. Dr. Pankaj Mehta		19/Jul/2024
24.	Lieut. Dr. Pankaj Mehta delivered an eminent/Invited talk on Benefits and Incentives of A, B and C certificate in NCC at NCC Training Academy Nagrota, J&K in CATC-J8 camp on 26th Jul 2024	Lieut. Dr. Pankaj Mehta		26/July/2024
25.	Dr. Shweta Yadav delivered an invited lecture on Ice Nucleating Particles in the North-Western Himalayas: Implications on Aerosol-Cloud-Precipitation-Climate Connection, International Mountain Forum Conference and Upper Indus Basin Network meeting in Chengdu, China by ICIMOD and Institute of Mountain Hazards and	Dr. Shweta Yadav	Chinese Academy of Sciences	11 – 14/ Nov/ 2024

	Environment (IMHE).			
26.	Dr. Shweta Yadav delivered an invited lecture on Perspectives of Sustainability: A Way of Life	Dr. Shweta Yadav	MMTTC, CUJammu	15/Oct/2024
27.	Dr. Shweta Yadav delivered an invited lecture on 'Bioaerosol characterization' and a demonstration/Hands-On for available bioaerosol samplers,	Dr. Shweta Yadav	IITM Pune	4/Oct/2024
28.	Dr. Shweta Yadav delivered an invited lecture on Unlocking the secrets of the air you breathe: Source Apportionment and Emissions Inventory	Dr. Shweta Yadav	CSTEP, Bengaluru	9/Aug/2024
29.	Dr. Shweta Yadav delivered an invited lecture on Bioaerosols and Crop Loss in the era of Climate Change	Dr. Shweta Yadav	SRM University Delhi NCR Sonipat	511/Aug/2024
30.	Dr. Shweta Yadav delivered an invited lecture on Women in Climate Change	Dr. Shweta Yadav	DST CoE, IIT Delhi	27 - 28/May/2024
31.	Dr. Shweta Yadav delivered an invited lecture on Sustainability Quotient and Particles in Air: A Human Health and Climate Perspective	Dr. Shweta Yadav	CPDHE, UGC -MMTTC, University of Delhi	9/Sep/2024
32.	Prof. Deepak Pathania invited as Resource person, Curriculum Design and NEP-2020 in Two-day National Workshop on Integrating Indian Philosophy, Indian Languages & Educational Technology for Developing Model Curriculum in the Discipline of Education: A Roadmap for NEP 2020	Prof. Deepak Pathania	Vidya Bharti Uchcha Shiksha Sansthan, Bharatiya Bhasha Samiti and Central University of Jammu	21-22 October, 2024

33.	Prof. Deepak Pathania invited as distinguished speaker on Biowaste Inspired Nanoaerogel for Slow Release of Fertilizer for Sustainable Agricultural Practices on in Workshop on Recent Trends in Nanomaterials Synthesis and their Applications	Prof. Deepak Pathania	Central University of Himachal Pradesh.	14 November 2024
34.	Prof. Deepak Pathania invited as speaker, on topic Waste into Wealth: Pathway to Achieve Carbon Neutrality on at Internatiuonal workshop on renewable energy for carbon neutrality	Prof. Deepak Pathania	Shri Mata Vaishno Devi University, Katra, Jammu & Kashmir.	25 November 2024
35.	Prof. Deepak Pathania delivered an invited lecture on Achieving of Sustainable Development Goals from Solid Waste Management in Faculty Induction Programme (Guru Dakshta)	Prof. Deepak Pathania	MMTTC, CU Jammu	21/Oct/2024
36.	Prof. Deepak Pathania delivered an invited lecture on Energy from the waste: Initiative for sustainable future	Prof. Deepak Pathania	National Institute of Technology, Jalandhar, Punjab	12-16/Dec/2024
37.	Prof. Deepak Pathania delivered an invited lecture on topic Empowering Climate Action: Strategies for a Sustainable Future	Prof. Deepak Pathania	Shri Mata Vaishno Devi University, Katra	27/Aug/2024
38.	Prof. Deepak Pathania delivered an invited lecture on Waste Management Options and Climate Change	Prof. Deepak Pathania	UGC- MMTTC, Punjabi University, Patial, Punjab	27/Sep/2024
39.	Prof. Deepak Pathania invited as Menton, DST sponsored INSPIRE camp	Prof. Deepak Pathania	Sardar Patel University Mandi,	9th August 2024
40.	Prof. Deepak Pathania invited as speaker in One-Day National Seminar on	Prof. Deepak Pathania	Jammu Chapter of the National Academy of Sciences, India (NASI), and	27th November 2024

	Solid Waste Management		Govt. Degree College, Hiranagar, Distt. Kathua, Jammu & Kashmir	
40.	Prof. Deepak Pathania invited as Resources person, delivered lecture on topic Current Environmental Issues during one week workshop on foundation course on Mathematics & Research Methodology on	Prof. Deepak Pathania	Government College Hamirpur, Himachal Pradesh.	16-21 December, 2024
41.	Prof. Deepak Pathania invited as Resource person, delivered lecture on Nanoaerogel Derived from Biowaste for Controlled Release of Fertilizer for Enhanced Plant Growth, Refresher Course- 'Physical and Chemical Sciences'	Prof. Deepak Pathania	MM-TTC, Central University of Jammu, in collaboration with Department of Physics & Astronomical Sciences and Department of Chemistry & Chemical Sciences, Central University of Jammu.	10-23 December, 2024
42.	Prof. Deepak Pathania invited as a Resource person, delivered lecture on Initiative for attaining green and clean environment in the campus during one day awareness workshop on Eco-friendly practices for sustainable utilization of resources	Prof. Deepak Pathania	Government Senior Secondary School, Sidhpur, Teh. Dharampur, Distt. Mandi, Himachal Pradesh.	10 January 2025
43.	Prof. Deepak Pathania delivered an invited lecture on Sustainable Alternatives in one week Faculty Development Program on Pathway to a Plastic-Free Future	Prof. Deepak Pathania	Chitkara University, Himachal Pradesh.	17 January 2025
44.	Prof. Sunil Dhar Chaired, National Seminar and 3rd GSHP Annul Meet on Disaster Management and Sustainability in Himalayas, Challenges and Solutions,		ICSSR, SERB & G.C.Dharamsala.	16/17, October, 2024.

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/ Issue of Publication	Year of Publication
1	Prof. Richa Kothari	Experimental Investigation for Enhancement of Solar Still Performance for Wastewater Treatment with the Influence of Encapsulated Phase Change Material	2194-4296	Energy Technology	2024
2	Prof. Richa Kothari	Sustainable growth of solar drying technologies: Advancing the use of thermal energy storage for domestic and industrial applications	2352-1538	Journal of Energy Storage	2024
3	Prof. Richa Kothari	Initiatives and programs from Indian perspective for improved biomass cook stove (IBCS) technology: a way towards sustainability.	1573-2975	Environment, Development and Sustainability	2024
4	Prof. Richa Kothari	Nutrient sequestration and lipid production potential of <i>Chlorella vulgaris</i> under pharmaceutical wastewater treatment: experimental, optimization, and prediction modelling studies	0944-1344	Environmental Science and Pollution Research	2024
5	Prof. Richa Kothari	Carbon dioxide sequestration by <i>Chlorella pyrenoidosa</i> toward biomass	2190-6823	Biomass Conversion and Biorefinery	2024

		and lipid production: an integrated multi-optimized management			
6	Prof. Richa Kothari	Insights into biohydrogen production from algal biomass: Challenges, recent advancements and future directions	1879-3487	International Journal of Hydrogen Energy	2024
7	Prof. Richa Kothari	Optimization of flocculation efficiency of <i>Chlorella pyrenoidosa</i> with CaCl ₂ using the Box-Behnken design of response surface methodology: A cost effective statistical investigation.	2190-6823	Biomass Conversion and Biorefinery	2024
8	Prof. Richa Kothari	Toxicity of nitriles/amides-based products in the environment and their enzymatic bioremediation	2772-4166	Journal of Hazardous Materials Advances	2024
9	Prof. Richa Kothari	Biobased treatment and resource recovery from slaughterhouse wastewater via reutilization and recycling for sustainable waste approach	2214-7144	Journal of Water Process Engineering	2024
10	Prof. Richa Kothari	MFC-mediated wastewater treatment technology and bioelectricity generation: Future perspectives with SDGs 7 & 13	1744-3598	Process Safety and Environmental Protection	2024

11	Prof. Richa Kothari	Nutrients sequestration from slaughterhouse wastewater with kinetic model studies using <i>C. vulgaris</i> for lipid production and reduction in freshwater footprint: a synergistic approach	1877-265X	Waste and Biomass Valorization	2024
12	Prof. Richa Kothari	Fungi based valorization of wheat straw and rice straw for cellulase and xylanase production	2949-8392	Sustainable Chemistry for the Environment	2024
13	Prof. Richa Kothari	Exploration of Waste Rice Husk-Based Nano-Silica to Fortify Algal Biomass Harvesting with Charge Neutralization Mechanism	1877-265X	Waste and Biomass Valorization	2024
14	Prof. Richa Kothari	Utilization of rice crop residue to fortify biogas production with mitigation of aerosols for sustainable environment: mechanism, potential strategies, and opportunities.	2190-6823	Biomass Conversion and Biorefinery	2024
15	Prof. Richa Kothari	Advancements in lignocellulosic biomass: A critical appraisal of fourth-generation biofuels and value-added bioproduct	0016-2361	Fuel	2024
16	Prof. Richa Kothari	A perspective towards sustainable and economically	2190-6823	Biomass Conversion and Biorefinery	2024

		viable approach of waste biorefineries through lignin valorization			
17	Prof. Richa Kothari	Enzyme immobilization with nanomaterials for hydrolysis of lignocellulosic biomass: Challenges and future Perspectives.	0008-6215	Carbohydrate Research	2024
18	Prof. Richa Kothari	Impact of Stationary Algal Biofilm Adhesion on Substrate's Surface for Biomass Harvesting and Treatment of Wastewater: Experimental Investigation	2550-1658	Malaysian Journal of Chemistry	2024
19	Prof. Richa Kothari	Utilization of Wastewater with Optimized Voltage for Electrolytic Green Hydrogen Production: Experimental Study	2550-1658	Malaysian Journal of Chemistry	2024
20	Prof. Richa Kothari	Advances in organic solar cells: Materials, progress, challenges and amelioration for sustainable future	2213-1388	Sustainable Energy Technologies and Assessments	2024
21	Prof. Richa Kothari	Energy, exergy, economic and enviro-economic analysis of solar still with macro-encapsulated phase change material for wastewater treatment: Experimental validation study	1383-5866	Separation and Purification Technology	2025

		using machine learning			
22	Prof. Richa Kothari	Utilizing Industrial Wastewater for Cultivation of <i>Chlorella vulgaris</i> NIES-227: A Study on Biodiesel Yield Optimization with Alkali Catalysts	1573-2932	Water, Air, & Soil Pollution	2025
23	Prof. Richa Kothari	Overcoming limitations of second-generation bioethanol production process through advancements in strain development	1614-7499	Environmental Science and Pollution Research	2025
24	Prof. Richa Kothari	Investigating the Effect of Compost and Vermicompost on Wheat Plants and Soil Health Under Natural Salt Affected Field Conditions	2008-2304	International Journal of Environmental Research	2025
25	Prof. Richa Kothari	Harvest of algal biomass with bioflocculants for biofuel with upstream and downstream processes: State-of-the-art towards sustainable alternative	2363-8338	Energy, Ecology and Environment	2025
26	Prof. Richa Kothari	A critical review of biogas production and upgrading from organic wastes: Recent advances, challenges and opportunities	0961-9534	Biomass and Bioenergy	2025
27	Prof. Richa Kothari	Book- Luminescent Thermometers: Fundamentals Book chapter- Luminescent	978-103-26-6153-7	CRC Press	2024

		temperature sensors for environmental monitoring. In Luminescent Thermometers Page no-(308-319)			
28	Prof. Richa Kothari	Book-Complex and Composite Metal Oxides for Gas VOC and Humidity Sensors Volume 1 Book chapter- Applications of gas and VOC sensors for industry and environmental monitoring: Current trends and future implications, in Complex and composite metal oxides for gas and VOC and humidity sensor	978-032-39-5385-6	Elsevier	2024
29	Prof. Richa Kothari	Book-Green Hydrogen Economy for Environmental Sustainability. Volume 1: Applications, Challenges, and Policies Book chapter- Green Hydrogen and Climatic Change: Current Status and Future Outlook	978-084-12-9669-5	American Chemical Society	2024
30	Prof. Richa Kothari	Book-Green Hydrogen Economy for Environmental Sustainability. Volume 2: Applications, Challenges, and Policies Book chapter-	978-084-12-9669-5	ACS Symposium Series	2024

		Green Hydrogen: International Collaborators, Agreements, Opportunities, and Challenges, and Their Impact on India's Research and Development Sector			
31	Prof. Richa Kothari	Book –Industrial Microbiology and Biotechnology Book chapter- Microbe-assisted Agro-industrial Waste Valorisation for Green Energy Generation: A Sustainable Biorefinery Approach.	978-981-97-1912-9	Springer Nature Singapore	2024
32	Prof. Richa Kothari	Indian Startups in Solid Waste Management	978-3-031-78419-4	Solid Waste Management	2025
33	Prof. Richa Kothari	Energy, exergy, and economic analysis of solar still integrated with phase change material assimilated evacuated tube collector for wastewater treatment	0957-5820	Process Safety and Environmental Protection	2025
34	Prof. Richa Kothari	Book-Green Hydrogen Economy for Environmental Sustainability. Volume 1: Applications, Challenges, and Policies	978-084-12-9669-5	American Chemical Society	2024
35	Prof. Richa Kothari	Book-Green Hydrogen Economy for Environmental Sustainability. Volume 2:	978-084-12-9669-5	American Chemical Society	2024

		Applications, Challenges, and Policies			
36	Dr. Ankit Tandon	Air Pollution from Dumping Sites in India: Implications on Environmental Health	0049-6979	Water Air & Soil Pollution (Springer Nature)	2025
37	Dr. Ankit Tandon	A comprehensive study of variability in total column of ammonia using quantile regression approach over non-attainment cities of the North-Western Himalayas	2949-8236	Next Sustainability (Elsevier)	2025
38	Dr. Ankit Tandon	Development and validation of a rapid HPLC method for simultaneous detection and quantification of four broad-spectrum organophosphorus pesticides	1029-0397	International Journal of Environmental Analytical Chemistry (Taylor & Francis)	2025
39	Dr. Ankit Tandon	Deciphering multi-temporal scale dynamics in the concentration, sources and processes of near surface ozone over different climatic regions of India,	1614-7499	Environmental Science and Pollution Research (Springer Nature)	2024
40	Dr. Ankit Tandon	Multi-time-scale surface ozone exposure and associated premature mortalities over Indian cities in different climatological sub-regions	1873-9326	Air Quality, Atmosphere & Health (Springer Nature)	2024
41	Dr. Ankit Tandon	Effect of heat wave events on air-quality:	978-0443239649	in Book: Air Pollution and Related Health	2025

		Implications for environmental health		Risks: Investigating Environmental Health and Sustainability, Elsevier	
42	Lieut. Dr. Pankaj Mehta	Green Hydrogen Production: Impacts on Environmental Sustainability Scale	9780841296985	ACS Publications	2024
43	Lieut. Dr. Pankaj Mehta	Whispers of Water: Understanding Local Waterbodies of Jammu Province, J&K, India	978-93-49136-06-9	Shwetwarna Prakashan	2025
44	Lieut. Dr. Pankaj Mehta	Emerging trends in real-time water quality monitoring and sanitation systems	978-0-85466-973-8	Intech Open	2025
45	Lieut. Dr. Pankaj Mehta	Hydrogeochemical assessment and water quality of glacier-fed catchment of Chenab basin, Kishtwar Himalaya, Jammu and Kashmir, India	1614-7499	Springer Nature	2025
46	Lieut. Dr. Pankaj Mehta	Integrated optical and SAR data analysis for the monsoonal flood hazard mapping in the Tawi Basin Northwest Himalaya	1873-5193	Elsevier	2025
47	Lieut. Dr. Pankaj Mehta	River Water Quality Assessment and Public Health Risks in Jammu and Kashmir: A Review	0970-3349	Indian Journal of Soil Conservation	2025
48	Lieut. Dr. Pankaj Mehta	Water quality assessment of river	2948-1589	Discover Geoscience	2025

		Ujh in district Udhampur, J&K for drinking and agricultural purposes			
49	Lieut. Dr. Pankaj Mehta	Examining the correlation between socioeconomic status and Municipal solid waste generation: A Case study of Municipal waste management dynamics in Jammu City	0253-7141	Indian Journal of Environmental protection	2025
50	Lieut. Dr. Pankaj Mehta	Multi-parametrical analysis of Haptal glacier, lower Chenab basin, Jammu and Kashmir, India: A remote sensing approach	0973-774X	Journal of Earth System Science	2024
51	Lieut. Dr. Pankaj Mehta	A Study on Physical Characterization of Municipal Solid Waste of Jammu City on the basis of Socioeconomic Status of the Population	0973-4929	Current World Environment	2024
52	Lieut. Dr. Pankaj Mehta	Estimation of MFFPI for flood hazards assessment using geospatial technology in the Tawi Basin, India	2772-8838	Geosystems and Geoenvironment	2024
53	Lieut. Dr. Pankaj Mehta	Rainbow (सप्तवर्ण) is the basis of Environment & Humanity for Holistic Healing.	L-159066/2025	Copyright Office, Government of India	2025
54	Dr. Shweta Yadav	Air Pollution from Dumping Sites in India: Implications on Environmental Health	0049-6979	Water Air & Soil Pollution	2025

55	Dr. Shweta Yadav	Variability of Carbonaceous Aerosols in Two Distinct Climatic Zones of the North-Western-Himalaya (India): An Expedition during Summer 2022.	0975-1041	Indian Journal of Pure & Applied Physics	2025
56	Dr. Shweta Yadav	Unveiling the Role of Bioaerosols in Climate Processes: A Mini Review	1735-6865	Int J Environ Res	2024
57	Dr. Shweta Yadav	Air Pollution from Biomass Burning in India	1748-9326	Environmental Research Letters	2024
58	Dr. Shweta Yadav	Effect of heat wave events on air-quality: Implications for environmental health	9780443239649	in Book: Air Pollution and Related Health Risks: Investigating Environmental Health and Sustainability, Elsevier	2025
59	Prof. Deepak Pathania	Quantitative analysis of soil quality around brick kilns using pollution indices and ANOVA in Jammu district of Jammu and Kashmir, India	0013-9351	Environmental Research	2024
60	Prof. Deepak Pathania	Magnesium ferrites and their composites based photocatalysts: Synthesis approaches, effect of doping, and operational parameters on photocatalytic performance for wastewater remediation	2213-9567	Journal of Magnesium and Alloys	2024
61	Prof. Deepak Pathania	Fabrication of xyloglucan-based	2949-8392	Sustainable Chemistry for the	2024

		zirconium (IV) selenophosphate nanostructure for removal of deflazacort and antimicrobial applications		Environment	
62	Prof. Deepak Pathania	Phytobial remediation advances and application of omics and artificial intelligence: a review	1614-74999	Environmental Science and Pollution Research	2024
63	Prof. Deepak Pathania	Biological Method for Producing Hydrogen from Lignocellulosic Biomass	780841296985	Green Hydrogen Economy for Environmental Sustainability. Volume 1: Fundamentals and Feedstocks	2024
64	Prof. Deepak Pathania	Biohydrogen Production from Industrial Waste Using Nanomaterials	9780841296695	Green Hydrogen Economy for Environmental Sustainability. Volume 2: Applications, Challenges, and Policies	2024
65	Prof. Deepak Pathania	Punica granatum – based ternary metal oxide Nanoparticles: Degradation of Methylene Blue and Antimicrobial Study	2394-0565	Material Science Research India (MSRI)	2024
66	Prof. Sunil Dhar	Slope stability and surface displacement analysis of the Kuther Landslide in the Dehar Watershed, Himachal Himalaya, Northern India	2948-1589	Discover Geoscience	2025
67	Prof. Sunil Dhar	Recession and Development of Moraine-Dammed	978-981-97-0710-2	Role of Science and Technology for Sustainable Future	2024

		Lakes in the Chandra Basin of Great Himalayan Range, District Lahaul and Spiti, Himachal Pradesh, India		Volume 1: Sustainable Development: A Primary Goal	
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Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2024-25	ISRO-ARFI	Ongoing	INR 20 Lakhs
2024-25	JKPCB	Ongoing	INR 1.5 Crores
2023-24	MoES-SNSF	Ongoing	INR 1.5 Crores
2023-24	SERB-ANRF	Ongoing	INR 55.29 Lakhs

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1.	B.Sc. students, EVS	1st Sem	Training Program	25th September, 2024	National
2.	Mr. Shubham Raina	Ph.D. Student	Poster presentation	25th November, 2024	International ,(Best Poster)
3.	Ms. Anu Bharti	Ph.D. Student	Paper presentation	17th December, 2024	International
4.	Ms. Kajol Gorla	Ph.D. Student	Poster presentation	17th December, 2024	International
5.	Ms. Neha Kotwal	Ph.D. Student	Poster presentation	15th November 2024	International
6.	Ms. Krishma Kumari	Ph.D. Student	Poster presentation	15th November 2024	International
7.	Mr. Zaheer Ud Din	Ph.D. Student	Poster presentation	15th November 2024	International
8.	Mr. Shashi Kant Rai	Ph.D. Student	Poster presentation	8th & 10th October 2024	National
9.	Ms. Konika Sharma	Ph.D. Student	Poster presentation	26-30 August 2024	National
10.	Ms. Konika Sharma	Ph.D. Student	Poster presentation	20th December 2024	National

11.	M.Sc. students, EVS	2nd Sem and 4th Sem	Poster presentation	22nd April, 2025	National
12.	B. Sc students, EVS	1st Sem	Poster presentation	22nd April, 2025	National
13.	Mr. Manthan Pasricha	1st Sem	Participated	7th November, 2024	National
14	Mr. Arkadeep Poddar	1st Sem	Participated	7th November, 2024	National
15.	Mr. Mohd. Muzamil	1st Sem	Participated	7th November, 2024	National
16.	Ms. Roshni Jha	1st Sem	Participated	7th November, 2024	National
17.	Ms. Ayushi Sharma	1st Sem	Participated	7th November, 2024	National

Centre for Molecular Biology



About the Department

The Centre for Molecular Biology (CMB) at Central University of Jammu is focused on teaching and research in the interdisciplinary areas of biology, which include both basic and applied aspects for societal development. The Centre for Molecular Biology (CMB), School of Life Sciences, Central University of Jammu, was established in the year 2016. The Centre offers the Ph.D., M.Sc. and Integrated B.Sc.-M.Sc. academic program in Biotechnology and to conduct high quality basic and applied research and training in frontier areas of modern and inter-disciplinary areas of biology. The Centre aims to provide a holistic learning and research experience for the learner through integrating theory, practical sessions, research projects, internships and engagements with research institutions, industries, and communities.

Programme offered

- **Ph.D., M.Sc. Biotechnology**
- **Integrated B. Sc. -M.Sc. Biotechnology**

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Dr. Narendra K Bairwa	Director and Associate Professor	Molecular Biology and Genetics, Genome editing
2	Prof. Mushtaq Ahmed	Professor	Bioinformatics, Sustainable agriculture, Biocontrol Agents
3	Dr. Praveen Kumar Mehta	Associate Professor	Microbial Biotechnology, Bio chemistry, Enzyme Technology
4	Dr. Shelly Sehgal	Associate Professor	Human Disease Biology, Cancer Research
5	Dr. Audesh Bhat	Assistant Professor	Molecular Biology and Genetics
6	Dr. Sudhir Singh	Assistant Professor	Molecular Microbiology, Bacterial Genetics
7	Ms. Fareeda Akhter	Assistant Professor	Plant stress Physiology, Nano-biotechnology

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Date
1	Advancements in microfluidics and quantum dots	Ruchika and Smriti	September, 2024
2	Disrupting balance: Oral microbiome dysbiosis due to lifestyle habits	Mr. Manish Kumar Mishra	April, 2025
3	Hands-on training workshop Lecture on Immunology	Pranjal Dwivedi and Mr. Satyam Rai	January, 2025

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1	3-Days Educational Trip	CSIR-IHBT Palampur	2024
2	Visits to Degree Colleges of Jammu Regions	Government Degree College, Parade, Jammu	2025
3	Visits to Degree Colleges of Jammu Regions	Government Degree College, Rajouri, Jammu, GDC Gandhi Nagar, GGM, Science college	2025

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1	Dr. APJ Abdul Kalam Samarpan Samaj Gaurav Award 2024	Dr. Narendra K Bairwa	Samarpan Sanstha, Jaipur	10th November, 2024

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/Issue of Publication	Year of Publication
1	Prof. Mushtaq Ahmed	Decoding the intricate web of Trichoderma secondary metabolite biosynthesis repertoire	2523-8922	Environmental Sustainability	2025
2	Dr. Narendra K Bairwa	Genetic Interaction Between F-Box Encoding UCC1 and RRM3 Regulates Growth Rate, Cell Size, and Stress Tolerance in Saccharomyces cerevisiae	10956670	J Biochem Mol Toxicol. 2024	2024
3	Dr. Praveen Kumar Mehta	Microbial amidases: Characterization, advances and biotechnological applications.	2665-9069	Biotechnology Notes.	2024
4	Dr. Praveen Kumar Mehta	From nature to applications: Laccase immobilization onto bio-based materials for eco-conscious environmental remediation.	1879-0003	International Journal of Biological Macromolecules	2025
5	Dr. Praveen Kumar Mehta	Probiotic Lactobacillus Derived Extracellular Vesicles: Insights Into Disease Prevention and Management.	1613-4133	Molecular Nutrition & Food Research.	2025
6	Dr. Praveen Kumar Mehta	Assessment of Antimicrobial Potential of Lactiplantibacillus plantarum and Their Derived Extracellular Vesicles.	1613-4133	Molecular Nutrition & Food Research.	2025
7	Dr. Praveen Kumar Mehta	Nitrile hydrolyzing enzymes: immobilization and potential applications.	979-8-89113-403-4	The Chemistry of Nitriles	2024
8	Dr. Praveen Kumar Mehta	Microbial biomarkers-based sensors for detection of environmental pollution.	978-0-443-13860-7	Biomarkers in Environmental and Human Health Biomonitoring	2024

9	Dr. Praveen Kumar Mehta	Nitrile biotransformation enzymes and their significant industrial products.	979-8-89113-403-4	The Chemistry of Nitriles	2024
10	Dr. Shelly Sehgal	Construing the role of risk factor induced oral microbiome dysbiosis in manipulation of lncRNA involved in oral cancer	2231-3796	Indian Journal of Otolaryngology and Head & Neck Surgery	2025
11	Dr. Audesh Bhat	CLOCK gene 3'UTR and exon9 polymorphisms show a strong association with essential hypertension in a North Indian population.	1755-8794	BMC Medical Genomics	2024
12	Dr. Audesh Bhat	Exome sequencing identifies ADGRG4 G-protein-coupled receptors gene as a novel cancer biomarker in ovarian cancer patients from North India.	1095-6670	J Biochem Mol Toxicol	2024
13	Dr. Audesh Bhat	A predictive chromatin architecture nexus regulates transcription and DNA damage repair.	0021-9258	J Biol Chem.	2025
14	Dr. Audesh Bhat	Role of Nanoparticle Formulation for the Combination Delivery of Multiple Antigens	978-981-96-0397-8	Springer	2025
15	Dr Sudhir Singh	Role of GABA Under Bacterial Stress in Plants	9781394217755	Wiley	2025
16	Ms. Fareeda Akhter	Optimizing COD removal, lignin degradation and electricity generation from pulp and paper industry wastewater by CW-MFC using box-behnen design	10.3389	Frontiers in Energy Research	2025

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2020	DBT, GOI	running	Rs. 15,55000 For year (2024-2025)
2024	JK-DST	running	Rs 900000

**Student Participation/Presentation/Inter University/State/National/
International Level**

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Shreya Manogotra	Ph.D student	3rd International Conference on Emerging Trends in Biosciences and Chemical Technology	14-15th February 2025	International
2	Preeti	Ph.D student	3rd International Conference on Emerging Trends in Biosciences and Chemical Technology	14-15th February 2025	International
3	Sonali Bhan	Ph.D student	3rd International Conference on Emerging Trends in Biosciences and Chemical Technology	14-15th February 2025	International
4	Arun Kumar	Ph.D student	3rd Edition of International Conference on Probiotics and Prebiotics	March 26-28, 2025	International
5	Pooja Yadav	Ph.D student	3rd Edition of International Conference on Probiotics and Prebiotics	March 26-28, 2025	International

About the Department

The Botany Department at the Central University of Jammu was established in the year 2016 with a commitment to providing world-class teaching and conducting cutting-edge research in the field of botany. Since its inception, the department has played a crucial role in catering to the academic needs of over 150 students hailing from diverse regions, including the Union Territory of Jammu and Kashmir, as well as various parts of India.

The faculty of the Botany Department consists of a dedicated team comprising 1 Professor, 2 Associate Professors, and 4 Assistant Professors. Each member brings a unique set of skills and expertise to contribute to the department's overall mission.

The department's commitment to cutting-edge research and quality teaching has not only attracted students from the local region but has also garnered attention from other parts of India. The faculty's dedication to advancing knowledge in botany and preparing the next generation of botanists reflects in the academic environment of the Central University of Jammu's Botany Department, making it a hub for botanical exploration and innovation.

Programme offered

- **Integrated B.Sc. (Hons) M.Sc. Programme**
- **M.Sc. Programme**
- **PhD Programme**

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Prof. Brijmohan Singh Bhau	Professor	Biotechnology, Plant-microbe interaction, Nanotechnology, Genomics
2	Dr. Yogesh Kumar	Associate Professor (Head of Department)	Plant Virology, Molecular Biology, Host-pathogen interaction
3	Dr. Deepak Bhardwaj	Associate Professor	G-protein and Helicase-Mediated, Signaling in Plants, CRISPR-Cas9, Gene Editing in Plant Systems, Nitric Oxide Signaling in Heat Stress and Stomatal Regulation, Nutrient Sensing Mechanisms in Plants with Arbuscular Mycorrhizal Fungi
4	Dr. Samantha Vaishnavi	Assistant Professor (Senior)	Genetics, Cytogenetics
5	Dr. Vikas Srivastava	Assistant Professor (Senior)	Plant Metabolism and Stress Biology
6	Dr. Ashok Kumar	Assistant Professor	Taxonomy and systematics of plants
7	Dr. Sapna Devi	Assistant Professor	Mycology, Plant Pathology, Mushroom cultivation, Diversity and distribution of Bryophytes, Pteridophytes

Eminent Lecture/Extensive lecture organized.

S. No	Topic of the Lecture	Speaker	Place	Date
1	Expanding scientific boundaries and enhancing innovation with Artificial Intelligence	Dr. Ashok Kumar	SL BAWA DAV College Batala	25/03/2025
2	Hairy Roots in Medicinal Plant Research: Case study on Saponin biosynthetic pathway	Dr. Vikas Srivastava	Department of Botany	25/03/2025
3	Plant hairy roots for production of therapeutic secondary metabolites	Dr. Vikas Srivastava	Department of Botany	09/01/2025
4	Transformative role of artificial intelligence (AI) and machine learning (ML) in agriculture, particularly in medicinal plant cultivation.	Prof. B.S. Bhau	Department of Botany	10/01/2025
5	Importance of medicinal plants as natural remedies relied upon by 70-80% of the population in developing countries, with India holding immense biodiversity potential	Prof. B.S. Bhau	Department of Botany	15/01/2025
6	Foundational principles of Ayurveda, the ancient Indian system of medicine	Dr. Ashok Kumar	Department of Botany	13/01/2025
7	Mushrooms as a nutritious, protein-rich food source, often called "white vegetables" or "boneless vegetarian meat."	Dr. Sapna Verma	Department of Botany	13/01/2025
8	Plant viruses are widespread and economically significant, affecting almost all plants cultivated for food, feed, and fibre	Dr. Yogesh Kumar	Department of Botany	14/01/2025

Outreach Awareness Program organized.

S. No	Name of the Event	Place	Date
1	A seven-day Skill Development Programme on Conservation, Cultivation, and Entrepreneurship Development in Medicinal Plants	Department of Botany	Jan.9, 2025
2	International Workshop on Integration of Artificial Intelligence and Machine Learning in Plant Systematics and Biodiversity Conservation	Department of Botany	February 17-21, 2025

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/Issue of Publication	Year of Publication
1	Dr. Yogesh Kumar	Pepper leaf curl Bangladesh virus (PLCBV) and weed interaction: Consequences for growth, yield and biochemical vicissitudes in chilli (<i>Capsicum annum L.</i>).	2348-1900	Plant Science Today	2025
2	Dr. Vikas Srivastava	Melatonin Improves Growth and Physio-Biochemical Characteristics of Tomato Plants under Waterlogging Stress	1608-3407	Russian Journal of Plant Physiology	2025
3	Dr. Vikas Srivastava	H ₂ S and NO Mitigate Cadmium and Lead Toxicity in <i>Solanum lycopersicum L.</i>	1608-3407	Russian Journal of Plant Physiology	2025
4	Dr. Vikas Srivastava	Unveiling the role and crosstalk of hydrogen sulfide with other signalling molecules enhances plant tolerance to water scarcity	1399-3054	Physiologia Plantarum	2025
5	Dr. Vikas Srivastava	Unlocking saponin biosynthesis in soapwort	1552-4469	Nature Chemical Biology	2025
6	Dr. Vikas Srivastava	Plant Growth Promoting Rhizobacteria (PGPR): Reports on Their Colonization, Beneficial Activities, and Use as Bioinoculant	2314-7539	Advances in Agriculture	2024
7	Sapna Devi	Nutritional and Antinutritional Content of <i>Macrocybe gigantea</i> (Massee) Pegler & Lodge, Another Edible Mushroom of Commercial Importance	0971-9393	Journal of Mycology and Plant Pathology	2024
8	Ashok Kumar	The science of food safety and their health impacts	1879-1689	Journal of Geochemical Exploration	2024

Research Projects :

Year of Sanction	Funding Agency	Status of Projects	Amount
2025	ANRF	Ongoing	60,37,440/-

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Diksha Bagal	PhD Scholar	2nd International Conference on Life Sciences, Health and Environmental Sustainability (ICLSHES) – 2025 organized by Department of Life Sciences, Rayat-Bahra University, Mohali	27-28th Feb, 2025	International; Oral Presentation (Budding Scientist Award in Plant Stress Physiology)
2	Diksha Bagal	PhD Scholar	National conference on “Emerging Innovations in Biochemistry and Biotechnology for Holistic Development of Agriculture” – 2025 held at SKUAST-Jammu	6-7th March, 2025	National; Poster Presentation (1st Award)
3	Sonica Rathore	PhD Scholar	2nd international conference on Life Sciences, Health and Environmental Sustainability (ICLSHES) – 2025 organized by Department of Life Sciences, Rayat-Bahra University, Mohali	27-28th Feb, 2025	International; Oral Presentation (Budding Scientist Award in Plant Physiology)



About the Department

The department envisions growing into a centre of academic excellence with international repute, particularly in the fields of Animal and Health Sciences. We aspire to be a beacon of excellence in education and research, making meaningful contributions to the understanding and conservation of the natural world. Together, as a collective pursuit of knowledge and values, we are shaping the future generation of individuals who will not only excel in their professional endeavours but will also contribute positively to the well-being of our country.

Programme offered

- **Integrated B.Sc. (Hons.) M.Sc. Zoology**
- **M.Sc. Zoology**
- **Ph.D. Programme in Zoology**

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Dr. Ashok Kumar Yadav	Associate Professor and Head	Gut Microbiology, Probiotic, Human Health, Molecular Biology
2	Dr. Swarkar Sharma	Professor	Molecular Diagnostics, Human Genomics, Genetic Disorders
3	Dr. Shvetambri	Associate Professor	Circadian Biology, Cognitive neuroscience, Bioenergetics, Inflammation and fibrosis
4	Dr. Dhanananjay Kumar	Assistant Professor	Limnology, Ecological Impact Assessment, Aquaculture
5	Dr. Anjali Dhar	Assistant Professor	Entomology, Environmental Toxicology, Medical Entomology, IPM
6	Dr. Vinita Sharma	Assistant Professor	Wildlife Conservation Biology, Wildlife Forensics, Animal Taxonomy, Behaviour and Systematics, Comparative Anatomy, Species Interaction, Human Wildlife Conflict, Geometric Morphometrics
7	Dr. Stanzin Ladol	Assistant Professor	Neurobiology

Faculty Achievements

S. No	Achievement	Name of the Faculty	Agency	Date
1	Patent Published	Dr. Dhanananajay Kumar	Indian Patent Desalination Unit Design No. 425806-001	2024
2	Lecture delivered	Dr. Dhanananajay Kumar	International Conference on Endocrinology, Metabolism, and Reproduction at the University of Jammu from October 22-25, 2024	24.10.2024
3	External expert	Dr. Dhanananajay Kumar	CSIR-IIIM, Jammu. Project recruitment of Sr. PAT position	24.10.2024
4	External Examiner in M. Sc. Zoology Practical examination, Department of Zoology, University of Delhi	Dr. Dhanananajay Kumar (Resource Person)	Department of Zoology, University of Delhi	18.12.2024
5	Delivered an invited lecture on “The interplay between ageing, epilepsy and memory” in Melbourne, Australia	Stanzin Ladol	Institute of Scientific and Engineering Research (ISER)	22-23 May 2024

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/Issue of Publication	Year of Publication
1	Ashok Kumar Yadav	Sustainable Synthesis of Novel Green-Based Nanoparticles for Therapeutic Interventions and Environmental Remediation	2161-5063	ACS Synthetic Biology	2024
2	Ashok Kumar Yadav	Implication of Gut Mycobiome and Virome in Type-2 Diabetes Mellitus: Uncovering the Hidden Players	2730-5848	Phenomics	2025
3	Ashok Kumar Yadav	Role of Probiotics in Gut Micro-flora			
4	Ashok Kumar Yadav	Probiotic Lactobacillus-Derived Extracellular Vesicles:	1613-4133	Mol. Nutrition & Food Res.	2025
5	Ashok Kumar Yadav	Insights Into Disease Prevention and Management	1613-4133	Mol. Nutrition & Food Res.	2025
6	Ashok Kumar Yadav	From nature to applications: Laccase immobilization onto bio-based materials for eco-conscious environmental remediation	1879-0003	Int. J of Biological Macromolecules	2025
7	Swarkar Sharma	Association of Vascular Endothelial Growth Factor (VEGF) and Mouse Model Minute 2 (MDM2) Polymorphisms With Diabetic Retinopathy in a Northwest Indian Population: A Case-Control Study.	2168-8184	Cureus	2024
8	Swarkar Sharma	ARL15 Gene Variant rs255758 Provides Susceptibility to Rheumatoid Arthritis in Northwest Indian Population.	2248-9606	International Journal of Applied and Basic Medical Research	2025

9	Shvetambri Jasrotia	Role of Physico-chemical parameters in assessment of water quality of some Indian rivers with special reference to Sub – Himalayan Devika stream, J and K – A review	ISSN: 0019 4816	Indian Forester	2024
10	Shvetambri Jasrotia	Ecological role of Fish assemblage in River Chenab of the Himalayan River System (J&K): A multivariate Analysis of Spatio-temporal disparities, Fisheries condition factor and conservation strategies.	ISSN 1660-6795.	Nanotechnology Perceptions	2024
11	Anjali Dhar	Unravelling land-based discharge of microplastics in the River Basantar of Jammu & Kashmir, India: Understanding sinking behaviors and risk assessments	0169-7722	Journal of Contaminant Hydrology	2024
12	Anjali Dhar	Investigating pollinator dynamics and regional variations in Doda, J&K, INDIA: challenges, monitoring and conservation perspectives	1308-5301	Biological Diversity and Conservation	2025
13	Stanzin Ladol	The interplay between ageing, epilepsy and memory	2663-2187	African Journal of Biological Sciences	2024
14	Stanzin Ladol	The impact of climate change on polar ichthyofauna biodiversity	978-0-443-13860-7	Biomarkers in Environmental and Human Health Biomonitoring	2024

Research Projects :

Faculty	Year of Sanction	Funding Agency	Status of Projects	Amount
Ashok Kumar Yadav	2022	ICMR, New Delhi	Ongoing	56,00,000/-
Swarkar Sharma	2025	DIPAS, DRDO	Ongoing	25.83L
Vinita Sharma	2024	CSIR	Ongoing	715859/- received as first installment

Shvetambri Jasrotia	2023	JKDST&IC	Ongoing	7,00,000/-
Dhananajay Kumar	2025	ICMR	Ongoing	75,00,000/-

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	Muskaan Chaudhary	Sem IX	International conference RBSS	6th-8th Feb 2025	International conference at Miranda House, University of Delhi
2	Pijush Das	Sem IX	International conference RBSS	6th-8th Feb 2025	International conference at Miranda House, University of Delhi
3	Arushi Saini	Sem IX	International conference RBSS	6th-8th Feb 2025	International conference at Miranda House, University of Delhi
4	Manyata Jangral	Sem IX	International conference RBSS	6th-8th Feb 2025	International conference at Miranda House, University of Delhi
5	Vikas Gupta	Sem IX	International conference RBSS	6th-8th Feb 2025	International conference at Miranda House, University of Delhi
6	Kinjal Dutta	Sem IX	International conference RBSS	6th-8th Feb 2025	International conference at Miranda House, University of Delhi
7	Rishita Gupta	Sem IX	International conference RBSS	6th-8th Feb 2025	International conference at Miranda House, University of Delhi
8	Bhibhudendu Behera	Sem V	International conference RBSS	6th-8th Feb 2025	International conference at Miranda House, University of Delhi

9	Narinder Kumar	Ph.D.	International Conference on Endocrinology, Metabolism, and Reproduction at the University of Jammu from October 22-25, 2024	23 October 2024	Paper presented
10	Mandeep Kour	Ph.D.	International Conference on Endocrinology, Metabolism, and Reproduction at the University of Jammu from October 22-25, 2024	23 October 2024	Paper presented
11	Narinder Kumar	Ph.D.	National Congress on Entomology and Emerging Agrotechnology at Sanasar, Jammu by Entomological Science Academy in collaboration with SKUAST-JAMMU & IIT Jammu	28 June 2025	Paper presented
12	Mandeep Kour	Ph.D.	National Congress on Entomology and Emerging Agrotechnology at Sanasar, Jammu by Entomological Science Academy in collaboration with SKUAST-JAMMU & IIT Jammu	28 June 2025	Paper presented
13	Sudanshu Sharma	Ph.D.	National Congress on Entomology and Emerging Agrotechnology at Sanasar, Jammu by Entomological Science Academy in collaboration with SKUAST-JAMMU & IIT Jammu		Paper presented

Mass Communication and New Media Department

About the Department

The Department of Mass Communication and New media was introduced in 2014 in Central University of Jammu. This programme is designed to give students an effective voice in the world of media. Our attempt here is to train professionals, who are sensitive to the demands of this role, and who, in the pursuit of truth are alive to its many dimensions. Our goal is to equip our students for the challenges and expectations of this profession along with a commitment to accuracy, fairness, and knowledge. Our teaching-learning pedagogy incorporates lectures, interactive sessions with subject matter experts, workshops, hands on training with camera and editing software. It is our attempt at Mass communication and New Media department, to imbibe the teaching-learning process with the kind of sensitivity that reconciles excellence with humanity and initiate change.

Programme offered

- MAMCNM
- Ph.D. in JMC

Faculty details :

S. No	Name	Designation	Area of Specialization
1	Prof. Paramveer Singh	Professor	Television Production, Radio Production, Media Literacy
2	Dr. Abhay SD Rajput	Associate Professor	Science Communication, Science Journalism, Science and Technology Studies
3	Dr. Umesh Kumar	Associate Professor	Communication Theories and Models, Advertising, Community Communication
4	Dr. Rashid Ali	Senior Assistant Professor	Political Economy, Film Studies, Electronic Media, Development Communication
5	Dr. Manish Prakash	Assistant Professor	Cinema Studies, New Media, Popular Culture
6	Ms. Pushplata	Assistant Professor	Advertising and Public Relations, Documentary Production, Film studies, Photography

Eminent Lecture/Extensive lecture organized.

S. No	Lecture of the Topic	Speaker	Date
1	Digital Media: AI and Media	Prof. K.G. Suresh	09/08/2024

Faculty Publications :

S. No.	Faculty Name	Title of paper/Book	IISN NO. / RIN No. / ISBN No	Name of Journals/Issue of Publication	Year of Publication
1	Dr. Abhay SD Rajput	India's pioneering high-altitude atmospheric and climate research in the Himalayas	0011-3891	CURRENT SCIENCE, 128, NO. 12, 25 JUNE 2025, pp. 1169-1170	2025
2	Dr. Abhay SD Rajput	India's First-ever Himalayan High-Altitude Atmospheric and Climate Research Centre	0036-8512	Science Reporter, 62(6), June 2025, pp.10-11	2025
3	Dr. Abhay SD Rajput	क्यूटी और तीन आर	0971 9443	बाल भारती, 77 (1), June 2025, 46-49	2025
4	Dr. Abhay SD Rajput	जल से जीवन: समुद्र से सन्निधि तक	978-93-82996-28-6	Pansy Books, New Delhi	2025
5	Dr. Umesh Kumar	Jansanchar Madhyamon ki paryawaran Vishya kranniti	2581-7353	Samvaad Path, Published From Kendriya Hindi Sansthan, Agra Aatamnirbhar Bharat aur Media	2025
6	Dr. Umesh Kumar	Sakaratk Sanchar aur Vigyapan: Aatmnirbhar Bharat ki disha me	978-81-965898-2-02	Aatamnirbhar Bharat aur Media	2025
7	Dr. Umesh Kumar	AI in Media: Swoc Analysis of Uses and Gratification of Journalists		SSRN (Pre Print) https://dx.doi.org/10.2139/ssrn.4966048	2024

8	Dr. Umesh Kumar	Addressing Mental Health: Review of Status, Policy, Programmes and Expenditure in SAARC Countries		SSRN (Pre Print) https://dx.doi.org/10.2139/ssrn.4966048	2024
9	Dr. Rashid Ali	Chapter-10 in Popular Culture in South Asian Context	978-1-032-72745-5	Routledge, Taylor & Francis	2025
10	Dr. Manish Prakash	Representation of Films in the Film Festivals of Dharamshala, Kashmir and Jammu	2581-6675	Praxis: International Journal of Social Science and Literature (Vol-08)	2025
11	Dr. Manish Prakash	Technological Communication and Re-living the world of disabled through Sanjay Leela Bhansali's Films	2455-8834	International Journal of Social Science and Economic Research (Vol-09)	2024
12	Dr. Manish Prakash	Gender, Climate Change and Disaster Resilience – An Asia-Pacific Perspective Edited by Dr. Mausumi Bhattacharya and Prof. Rajiv Shaw, 2025 (Accepted for Publication)	Accepted for Publication	Springer	2025

Student Participation/Presentation/Inter University/State/National/International Level

S. No.	Name of the student	Final sem	Event of Participation	Date	Level & Rank
1	M.A. (Mass Comm. and New Media) 04th Sem Students	04th Sem	Tawi Filmotsva, 2025 organized by Jammu and Kashmir Cine Association, J&K	23rd March, 2025	

University Business Incubation Centre



CU Jammu Startup Incubation and Technology Enablement Council (CU Jammu SITE Council) has been formally registered as section 8 company with Ministry of Corporate Affairs, Government of India in 2023 with formal objectives to act as University Business Incubation Centre at Central University of Jammu. The main objective is to nurture innovative ideas of students/faculty/staff of CU Jammu for commercialization. The specific aim is to formalize the innovative ideas of existing and prospective entrepreneurs in emerging and innovative domains. It is achieved by providing necessary initial prototyping grant, mentoring, promoting IPecosystem and providing the entrepreneurs a platform to commercialize their ideas. Besides helping to raise the seed capital from different financial institutions, investment grants or collateral-free highly subsidized loans are also facilitated.

The incubation centre is now known as CU Jammu Startup Incubation and Technology Enablement Centre (CUJ-SITEC), governed by University Council. CUJ-SITEC works hand in hand with Institution Innovation Council (IIC), and various departments of Central University of Jammu.

In 2022-2023, 17 Patents have been filed and published by University students, faculty and employees. In addition, various innovation promoting programmes have been carried out by IIC, especially idea screening sessions and Hackathons. University also is facilitating innovative ideas and 5 ideas, made from the first phase to next phase, in 2023 with financial aid, with successful incorporation of one as a formal registered firm in the food-tech sector.

The submission and screening of ideas is continuous and more details can be collected from www.cujsitec.in

International sation of higher education is an essential aspect of the National Education Policy 2020. The details of programmes offered by Central University of Jammu for international students can now be found on Study in India (SII) portal (www.studyinindia.gov.in) of the Ministry of Education (MoE), Government of India. Central University of Jammu accords high priority in attracting the international students from various countries and this very fact is evident in the form of university's policy initiative to establish the Office of International Affairs (OIA) with Hon'ble Vice-Chancellor him self as Dean, OIA.

Motto: Vasudhaiva Kutumbakam “The world Is one family”

Vision: To build, sustain and nurture international connect between CUJ fraternity and the best institutions from all over the world.

Mission: To establish and elevate the global profile of Central University of Jammu with Indian Traditional Knowledge as guiding factor.

Objectives:

1. To show case the strength and uniqueness of Indian traditional Knowledge globally.
2. To develop international relations and collaborations in inclusive and coherent manner.
3. Top romote human centric growth factoring in diverse aspirations through student and faculty exchange.
4. To elevate the over all thinking process of CUJ fraternity to world class level so that our students can serve as ambassadors of change.
5. To provide necessary information and updates about international fellowships, opening sand opportunities.

Key Initiatives:

- In pursuit of excellence in designing world class curriculum and building a global research ecosystem, the OIA facilitates student and faculty exchange, training of students in premier laboratories, development of joint programmes and multi-sector al collaborations with top institutions around the world.
- University intends to attract the students from various countries including SAARC, Nordic and European countries, and accordingly the OIA is devising a priority strategy action plan for University outreach programmes engaging with various International agencies working in the areas of Higher Education for Regular Students enrolment as priority, a part from developing online courses, in various courses offered by University.

- The OIA is engaged in designing encouraging policies to admit foreign students and to foster academic and research collaborations globally. Attempts are being made to undertake joint academic programmes that allow
- Central University of Jammu has pioneered in designing sustainable solutions to problems of international relevance through bilateral programmes, joint research campaigns and successful execution of joint research projects along with other collaborative endeavours with international community.
- Faculty members with extensive international experience, world class infrastructure as well as unique locational setting of Central University of Jammu in the North-Western Himalayas provides conducive environment for opportunities for learning, research and collaboration through international connect.



Office of Dean Students' Welfare

The primary objective of the office is to bring out and showcase the cultural and literary potential of the students at the regional, national and international level. The DSW office organizes various activities and competitions for the students, scholars, teachers as well as non-teaching staff of the university. This helps in their self-promotion and provides them with exposure to uncover their hidden talent and abilities. A large number of students from the different Departments of the University participate and shows their talent in different activities.

In addition to this, on the beginning of new academic session every year, the DSW Office organizes induction programme for all the new admitted students of the university to appraise them about the rules, regulations, guidelines, facilities and functioning of the University.

The office of Dean Students' Welfare has various clubs:

1. Debating/Book reading club.
2. Dramatics Club.
3. Dance Club.
4. Music Club.
5. Creative Writing Club.
6. Fine Arts Club.
7. SPICMACAY.
8. Quizzing Club.
9. Photography Club.
10. Film Club.
11. GlamEth-PARIDHAAN.
12. Innovation & Startup Club
13. Career/Placement Club.
14. Eco Club.
15. Poetry Club.



Directorate of Physical Education

Directorate of Physical Education was established in the year 2018 with an objective of developing and promoting sports culture among the youth for overall development of their personality. The directorate aims to develop spirit of sportsmanship, achievement, national pride and patriotism among youth. With a view to realize and fulfill this mammoth task, the Directorate plans to develop the sports facilities and infrastructure in the campus and conduct camps, marathons, university campus sports activities etc. Students brought laurels to the institution by winning a number of state and national level competitions. The Directorate of Physical Education has constituted a 'Fitness Club' that regularly organizes the activities which promote the vision of Fit India Movement. Students of Central University of Jammu participated in various sports events like All India inter University sports championship, State sports championship etc.



As one embarks on a journey towards academic excellence at the Central University of Jammu, holistic development of body and mind becomes essential. To complement the educational pursuits, of students, we are proud to present a dynamic platform for sports and physical activities under the Directorate of Physical Education. Directorate of physical education was established in the year 2018 with an objective of developing and promoting sports culture among the youth for overall development of their personality. The director ate aims to develop the spirit of sportsmanship, achievement, national pride and patriotism amongthe youth. With a view to realize and fulfill this mammoth task, the directorate plans to develop the sports facilities and infrastructure in the campus and conduct camps, marathons, university campus sports activities etc. In the past, students have brought laurels to the university by winning a number of state and national level awards. They participated in sports events like All India University Sports Championship, State Sports Champion ships etc. Anant Khel (AnnualSportsMeet) to show case their prowess in avariety of sportsd is ciplines. Anant Khelisan event that encapsulates the true spirit of sportsmanship.



NSS Activities

The National Service Scheme (NSS) Unit was established in the Central University of Jammu in August 2015. Within a brief period of time, the NSS Unit has climbed many heights including volunteer's participation in the "Regular Activities" like Education, Health, Family Welfare and Nutrition, Social Service Programmes, Programmes for improving Status of Women etc. and National level special camping/events such as NSS Republic Day Parade Camp, National Youth Festivals (NYF), National Integration Camp (NIC) and National Adventures Camp (NAC). As envisaged by the Hon'ble Vice Chancellor, NSS is mandated to foster selfless community services among the student community by inculcating social responsibilities through various programmes and activities.

One of the key objectives of NSS is to awaken the social consciousness of the student and provide them with an opportunity to engage with people around the campus constructively and to impart public social responsibility. The motto of NSS is "NOTMEBUTYOU", which expresses the essence of democratic living, upholds the need for selfless service and volunteerism and underlines that individual welfare is dependent on the welfare of the society as a whole.

NCC Activities

National Cadet Corps NCC Directorate NCC introduced NCC in Central University Jammu in 2020 as a part of newly raised 4 J&K Battalion NCC Group Headquarters Jammu which spreads over Samba and Kathua Districts of the border area. Since the introduction of NCC unit in Central University of Jammu, the unit has taken various initiatives by celebrating: NCC day, Constitution day, participated in Blood Donation Camp, organized various events under the umbrella Mission Life (Life style for Environment), G-20 and Y-20 as a part of this NCC Unit of Central University, Jammu had also participated in Azaadika Amrut Mahotsav to celebrate the contribution of freedom fighters. Central University of Jammu had incorporated NCC as an "Open Elective Credit Course" under the Choice Based Credit System, in line with NEP 2020 from academic session 2022-2023. NCC unit of CUJ had participated and performed exceedingly well in National Camps such as TSC, EBS Band Trekking camps and bagged Gold, Silver and Bronze Medals at All India level. The first batch of NCC cadets passed with 100% results for C Certificate exam in the year 2023. It is pertinent to mention that from the academic year 2023-2024, NCC unit of CUJ had also enrolled first batch of girls cadets running with a strength of 100 (SD/SW) cadets.

Community Radio Station

“Tawi Dhara” 91.2 MHz

The Central University of Jammu has set up a Community Radio Station, 91.2 MHz "Tawi Dhara" CUJ. 91.2 FM CUJ that will provide a platform to the students, faculty and local people to express themselves and show case their creativity. Programmes broadcast by the community radio are heard within a radius of 15 to 20 km from the University. 91.2 FM Tawi Dhara CUJ not only addresses the needs of the campus population but also those who are outside the University and are part of the community. 91.2 FM Tawi Dhara CUJ will broadcast information related to admissions, examinations, etc. of the Central University of Jammu and placements opportunities for the students. Research, innovation and start-ups in the different departments of the university are conveyed to the local community through this platform. This approach helps to strengthen the need for social/community outreach for a balanced development of the area. Regional music, art, culture and tourism is sought to be preserved and popularized through various programmes. Such programmes add to the entertainment quotient of the CRS. The University students work as radio jockeys, content creators and provide other logistic support.



Launched of Radiosonde

Central University of Jammu has launched Radiosonde biweekly from Satish Dhawan Centre for Space Science, as a joint venture between the Central University of Jammu and National Remote Sensing Centre (NRSC), as per the Memorandum of Understanding (MOU) with ISRO.

First Radiosonde at Central University of Jammu was launched from Satish Dhawan Centre for Space Science on May 29, 2024 by Prof. Sanjeev Jain, Hon'ble Vice Chancellor, Central University of Jammu. This project is coordinated by Department of Electronics and Communication Engineering, Prof. Vinay Kumar, Prof. Rakesh Kumar Jha, Dr. Sanjeev Yadav and Dr. Pravesh Pal.

The Radiosonde Network for NICES (RANN) project falls under the NICES (National Information System for Climate and Environment Studies) program, which was formulated by ISRO with a mandate to build an information base for climate change impact assessment and provide recommendation for mitigation. This Radiosonde Ground Station is indigenously developed in the Semi-conductor Laboratory, Mohali (SCL), a make in India product. The data collected from Radios on de will contribute in the field of at mospheric and Space research.

Radiosonde is a telemetry device for the measurement of vertical profiles of humidity, pressure, temperature, wind speed and direction. The Radio Sonde system consists of the balloon borne segment referred as Pisharoty Sonde and the ground segment referred as Pisharoty Sonde Ground Station. Pisharoty Sonde uses sensors for measuring the atmospheric temperature, relative humidity and GPS receiver module for acquiring the wind parameters, altitude, date and time. Sensor and GPS data are processed and transmitted to ground station through antennas. The Pisharoty Sonde System is used for boundary layer studies and upper atmospheric observations.

In Year 2024 we have launched 09 Radiosonde from Satish Dhawan Centre for Space Science, Central University of Jammu with the help of B.Tech Students for collecting the Metrological Data. This Radiosonde goes up to the vertical height of 40 Kms and collects and transmit all the atmos pheric data to the ground station. All the collected data will be processed for future predictions. In the Year 2025 we will be launching 24 Radiosonde from Satish Dhawan Centre for Space Science.

Dean Students' Welfare

1. Swachta Pakhwada

“Swachta Pakhwada”- 'Ek Ped Maa Ke Naam' and 'Ek Ped Shaheedon Ke Naam' organized by Dean Students' Welfare with collaboration of Office of District Development Commissioner Samba at Purmandal on August 7, 2024



2. Partition Horrors Remembrance Day

'Partition Horrors Remembrance Day' organized by Dean Students' Welfare on 14 August, 2024 at the Central University of Jammu.



3. SPIC MACAY

'SPIC MACAY' organized by Dean Students' Welfare on April 29, 2024 at the Central University of Jammu.



4. Tiranga Rally

'Tiranga Rally' and 'Har Ghar Tiranga' organized by Dean Students' Welfare on 12 & 14 August, 2024 at the Central University of Jammu.



5. Vote for sure

“Voter Awareness activities” organized by Dean Students' Welfare at the Central University of Jammu.



6. Sankalp Diwas

“SANKALP DIWAS” organized by Dean Students' Welfare 20th February, 2025 at the Central University of Jammu.



7. Pulwama Diwas

“PULWAMA DIWAS” organized by Dean Students' Welfare 14th February, 2025 at the Central University of Jammu.



8. All India Radio Republic Day

“Conduct of various contests/activities on MyGov and All India Radio during Republic Day Celebration 2025” from 3rd January to 26th January 2025.



9. Jan Jatiya Gaurav Diwas (Series of Events)

On the occasion of Jan Jatiya Gaurav Diwas, different types of competition were organized by the cultural clubs of Dean Students' Welfare.

Creative Writing Club : An essay writing competition was organized by Creative Writing Club. Janjatiya Gaurav Divas is celebrated to commemorate the birth anniversary of India's tribal hero and great freedom fighter Birsa Munda. Birsa Munda, in his short but inspiring life, sacrificed himself for the rights of tribal society against colonial rule. As many as 40 students enthusiastically participated in the competition and presented their views on various topics related to tribal pride. The objective of the competition was to raise awareness among the students about ethnic history and their cultural heritage.



Fine Arts Club : Fine Arts Club organized Poster-Making competition on 19th November and Tribal Art Exhibition on 22nd November 2024. The poster-making competition and exhibition are aimed to bring to light the rich cultural heritage of tribal communities and highlight their role in shaping the socio-cultural fabric and independence of the nation.



Tribal Art Exhibition: The Tribal Art Exhibition was organized in collaboration with the Manuscript Conservation Centre, Shashvat Art Gallery, Jammu. It focused on Tribal communities of India. It particularly displayed artefacts, art and culture of Jammu and Kashmir tribal and also displayed pictures, history and contribution of Tribal Freedom Fighters to India's independence, and their role in preserving socio-economic values and traditions.



Quizzing Club : The Quizzing Club organized Brain Quest a quiz competition to commemorate '*Janjatiya Gaurav Diwas*'. The event aimed to honor the contributions of tribal freedom fighters to India's freedom struggle .The competition was conducted in two phases. The first phase served as a screening round, where the top sixteen participants were randomly grouped into four teams. The finale witnessed an engaging and competitive display of knowledge, aligning with the spirit of the occasion. The Brain Quest competition was thoughtfully designed to cover a wide range of topics, Encouraging participants to explore the rich heritage, history and the rights of Scheduled Tribes in India.



Debate and Reading Club : The Debate and Reading Club organized a vibrant event to commemorate Janjatiya Gaurav Diwas, celebrated by the university from 15th November to 26th November 2024. The event brought together students from various departments to engage in intellectual activities that honored the life, culture, and contributions of India's Janjatiya Samaj.



Jan Jatiya Gaurav Diwas was celebrated under the guidance of Prof. Sanjeev Jain, Hon'ble Vice Chancellor, Central University of Jammu and under the guidance of Prof. Ritu Bakshi, Dean, Students Welfare.

10. Mahotsav – 2024 Organized by LEAD

Central University of Jammu showcased the achievements at Mahotsav - 2024, organized by LEAD (LJK Economic Growth and Development Dialogue) at GGM Science College, Jammu, on December 21-22, 2024, on the theme “*Swadeshi, Swawlambhan, and Sanskriti.*” The event was inaugurated by Prof. B.S. Sahay, Director of IIM Jammu. It displayed the diverse cultural heritage, entrepreneurial spirit, and indigenous products of Jammu, Kashmir and Ladakh. The event witnessed enthusiastic participation from various stakeholders across the three regions.



A significant highlight of the Mahotsav was signing of the Memorandum of Understanding (MoU) between CUJ and the LEAD Jammu and Kashmir to enhance mutual collaboration in promoting research, leadership development, and community outreach programmes. CUJ's presentation stall was a highlight of the Mahotsav, which displayed the university's innovative projects, academic excellence, achievements in sports, and commitment to social responsibility. The participation of CUJ not only highlighted its academic and cultural strengths but also reinforced its commitment to contributing to the holistic development of the Jammu and Kashmir region.

11. Participation at Vedic Conference Organized by Central Sanskrit University Kot Bhalwal

Central University of Jammu (CUJ) participated in the two-day Vedic Conference organized by Central Sanskrit University, Kot Bhalwal, Jammu, on 9th & 10th November 2024, on the theme “वेदोर्मेज्ञान”. Prof. S K Mehta, Vice Chancellor of Ladakh University, was the chief guest. On the first day of the conference, students and scholars from all across the country presented papers on the theme “Integrating Tradition and Technology: Vedic Perspectives on Innovation”.



CUJ's presentation stall was a highlight of the Conference, which displayed the university's innovative projects, academic excellence, achievements in culture and sports, and commitment to social responsibility. The team showcased their innovative research initiatives, highlighting the institution's focus on interdisciplinary and multidisciplinary learning, as well as academic-industry collaborations. A particular emphasis was placed on the university's commitment to sustainable development, the integration of technology, and the promotion of regional culture and heritage. Throughout the event, the team actively engaged in interactive sessions with attendees, sharing the university's achievements and collaborating with peers from other institutions and organizations.



12. Viksit Bharat Young Leaders Dialogue

To enhance youth Participation in politics and civic life, responding to the Hon'ble Prime Minister's call during his Independence Day address to engage 1 lakh youth in these spheres.

The National Youth Festival is designed to identify and nurture young talent with leadership potential, providing them a platform to share their ideas for a Viksit Bharat directly before the Hon'ble Prime Minister.

Various events and competitions were held at Mybharat portal and around 570 students participated in the events online.

Miss. Neena Devi, student of 4th Semester of Department of Environmental Sciences was honoured as prestigious selection in National Youth Festival and participated in Young Leaders dialogue at Bharat Mandapam.

Major Achievements of the Year

CUJ Ranks 49th among Indian Universities in Nature Index Ranking 2024 -25

Central University of Jammu featured in the top position in the latest Nature Index rankings 2025. University has been ranked 22th in Academic Sector and 11th in biological science among Central Universities. Overall, Central University of Jammu achieved top 3rd position in Jammu region and 117th ranked among all types of institutions in Nature Index data as research leaders. Nature Index Research Leaders 2025 released recently (previously the Nature Index Annual Tables) shows the rapid progress of research the university has made on the basis of research output.

CUJ Placement Records New High of 10.5 LPA

The Central University of Jammu organized the campus placement drive for the session 2023-24 for their students. CUJ placement cell said in its statement on 26th May 2024, that Management and Science students have achieved a significant milestone in 2024, securing the highest annual package of 10.5 LPA

Indo-Swiss Aerosol Research Project with ETH-Zurich, Switzerland titled “Ice nucleating particles and cloud condensation nuclei properties in the North-Western Himalayas (ICE-CRUNCH)” with ETH Zürich, Switzerland, funded by the Ministry of Earth Sciences, GoI and Swiss National Science Foundation, Switzerland began on 10th May 2024.

Meeting of Consortium of Higher Educational Institutions of North India (CHEINI)

The *Consortium of Higher Educational Institutions of North India (CHEINI)* held its 3rd meeting at the Central University of Jammu on 14th December 2024. This collaborative platform, comprising seven premier institutions, aims to foster innovation, academic excellence, and research in the region. The Consortium partners are Central University of Punjab, Central University of Jammu, Central University of Himachal Pradesh, Central University of Kashmir, Central University of Rajasthan, Central University of Haryana and Indian Institute of Technology Ropar.

Google Developer Group on CUJ Campus

The University launched the Google Developer Group (GDG) on Campus initiative, a pioneering program aimed at empowering students and fostering a culture of innovation and collaboration within the university 29 Jan, 2025. The GDG on Campus program aspires to unite enthusiastic learners, developers, and innovators eager to expand their knowledge in software development, artificial intelligence, and

emerging technologies. Through this initiative, students gain access to unique opportunities to learn, network, and grow within the Google Developer ecosystem.

Anant Khel–2025: A Grand Celebration of Sportsmanship at the Central University of Jammu

The Central University of Jammu hosted its Annual Sports Meet, Anant Khel–2025, from January 27 to January 29, 2025, at the University Campus, BaglaSuchani. The three-day sports extravaganza commenced with great enthusiasm and a vibrant display of sportsmanship, unity, and team spirit.

Admission Section

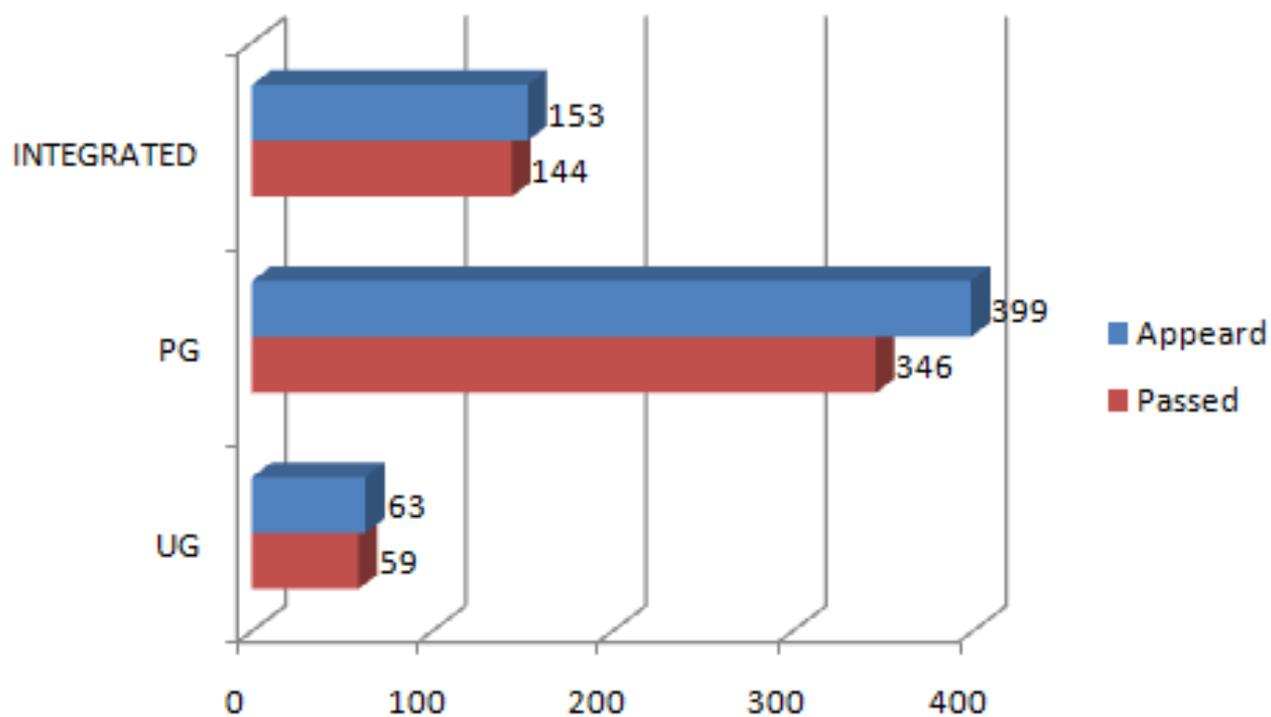
Degree Level	Programme Name	Admitted During the year																											
		General				SC				ST				OBC				EWS				Total				PwBD			
		M	W	TG	T	M	W	TG	T	M	W	TG	T	M	W	TG	T	M	W	TG	T	M	W	TG	T	M	W	TG	T
UG	B.Voc. (Retail Management)	8	2	0	10	3	0	0	3	0	0	0	0	1	0	0	1	1	0	0	1	13	2	0	15	0	0	0	0
	B.Voc. (Banking and Financial Services)	28	12	0	40	5	5	0	10	1	0	0	1	4	1	0	5	1	0	0	1	39	18	0	57	0	0	0	0
	B.Voc. (Tourism Management)	11	3	0	14	0	0	0	0	1	0	0	1	2	1	0	3	1	0	0	1	15	4	0	19	0	0	0	0
	B.Tech. in Computer Science and Engineering	26	4	0	30	8	1	0	9	3	0	0	3	20	8	0	28	0	0	0	0	57	13	0	70	0	0	0	0
	B.Tech. in Computer Science and Engineering (Cyber Security)	22	5	0	27	9	0	0	9	2	0	0	2	15	5	0	20	4	1	0	5	52	11	0	63	0	0	0	0
	B.Tech. in Electronics and Communication Engineering	18	6	0	24	10	2	0	12	2	0	0	2	23	6	0	29	9	2	0	11	62	16	0	78	0	0	0	0
	B.Tech. in Electronics and Communication Engineering (Avionics)	16	1	0	17	9	1	0	10	1	1	0	2	21	4	0	25	6	0	0	6	53	7	0	60	0	0	0	0
UG (04 Year Integrated Course)	Integrated B.A. - B.Ed.	8	20	0	28	11	11	0	22	6	8	0	14	11	6	0	17	4	3	0	7	40	48	0	88	0	0	0	0
UG (05 Year Integrated Course)	Integrated B.Sc. (Hons) - M.Sc. in Botany	4	23	0	27	3	11	0	14	0	6	0	6	1	4	0	5	0	1	0	1	8	45	0	53	0	0	0	0
	Integrated B.Sc. (Hons) - M.Sc. in Zoology	5	30	0	35	1	15	0	16	2	5	0	7	0	4	0	4	0	3	0	3	8	57	0	65	0	0	0	0
	Integrated B.Sc. (Hons) - M.Sc. in Chemistry	11	21	0	32	5	3	0	8	0	4	0	4	3	0	0	3	0	0	0	0	19	28	0	47	0	0	0	0
	Integrated B.Sc. (Hons) - M.Sc. in Physics	16	19	0	35	3	1	0	4	2	2	0	4	6	2	0	8	0	0	0	0	27	24	0	51	0	0	0	0
	Integrated B.Sc. (Hons) - M.Sc. in Environmental Sciences	6	15	0	21	2	1	0	3	3	1	0	4	3	2	0	5	0	0	0	0	14	19	0	33	0	0	0	0
	Integrated B.Sc. (Hons) - M.Sc. in Mathematics	21	17	0	38	2	1	0	3	1	0	0	1	1	3	0	4	0	0	0	0	25	21	0	46	0	0	0	0
Integrated B.Sc. (Hons) - M.Sc. in Economics	9	8	0	17	2	2	0	4	2	0	0	2	4	0	0	4	1	1	0	2	18	11	0	29	0	0	0	0	
PG	M.Sc. Material Sciences and Technology	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0
	M.Sc. Environmental Sciences	2	23	0	25	1	6	0	7	1	1	0	2	0	0	0	0	0	1	0	1	4	31	0	35	0	0	0	0
	M.A./M.Sc. Mathematics	4	17	0	21	1	1	0	2	0	3	0	3	4	0	0	4	2	1	0	3	11	22	0	33	0	0	0	0
	MBA Tourism and Travel Management	5	7	0	12	2	1	0	3	0	0	0	0	2	0	0	2	0	0	0	0	9	8	0	17	0	0	0	0
	MBA	20	10	0	30	2	3	0	5	0	0	0	0	4	2	0	6	4	3	0	7	30	18	0	48	0	0	0	0
	MBA Marketing Management	22	9	0	31	1	1	0	2	1	0	0	1	4	0	0	4	2	2	0	4	30	12	0	42	0	0	0	0
	M.A. English	2	9	0	11	1	2	0	3	1	0	0	1	1	0	0	1	0	0	0	0	5	11	0	16	0	0	0	0
	M.A. Public Policy and Public Administration	1	6	0	7	1	1	0	2	1	2	0	3	1	1	0	2	0	0	0	0	4	10	0	14	0	0	0	0
	M.A. Social Work	2	4	0	6	0	0	0	0	0	1	0	1	6	5	0	11	0	1	0	1	8	11	0	19	0	0	0	0
	M.A. Mass Communication and New Media	1	6	0	7	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	7	0	8	0	0	0	0
	M.A. National Security Studies	1	2	0	3	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5	0	0	0	0
	M.Ed. (Master of Education)	4	12	0	16	3	1	0	4	0	0	0	0	1	2	0	3	0	0	0	0	8	15	0	23	0	0	0	0
	M.A. Hindi	1	4	0	5	1	1	0	2	1	0	0	1	1	1	0	2	0	0	0	0	4	6	0	10	1	0	0	1
	M.Sc. Biotechnology	10	29	0	39	1	5	0	6	2	1	0	3	2	11	0	13	1	1	0	2	16	47	0	63	0	0	0	0
	M.A. Comparative Religion and Civilization	1	2	0	3	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	4	2	0	6	0	0	0	0
M.Tech. (Computer Science and Technology)	6	6	0	12	1	0	0	1	0	1	0	1	1	0	0	1	2	0	0	2	10	7	0	17	0	0	0	0	
		291	333	0	624	92	77	0	169	33	36	0	69	142	69	0	211	39	20	0	59	597	535	0	1132	1	0	0	1

Examination Section

Year 2024-2025

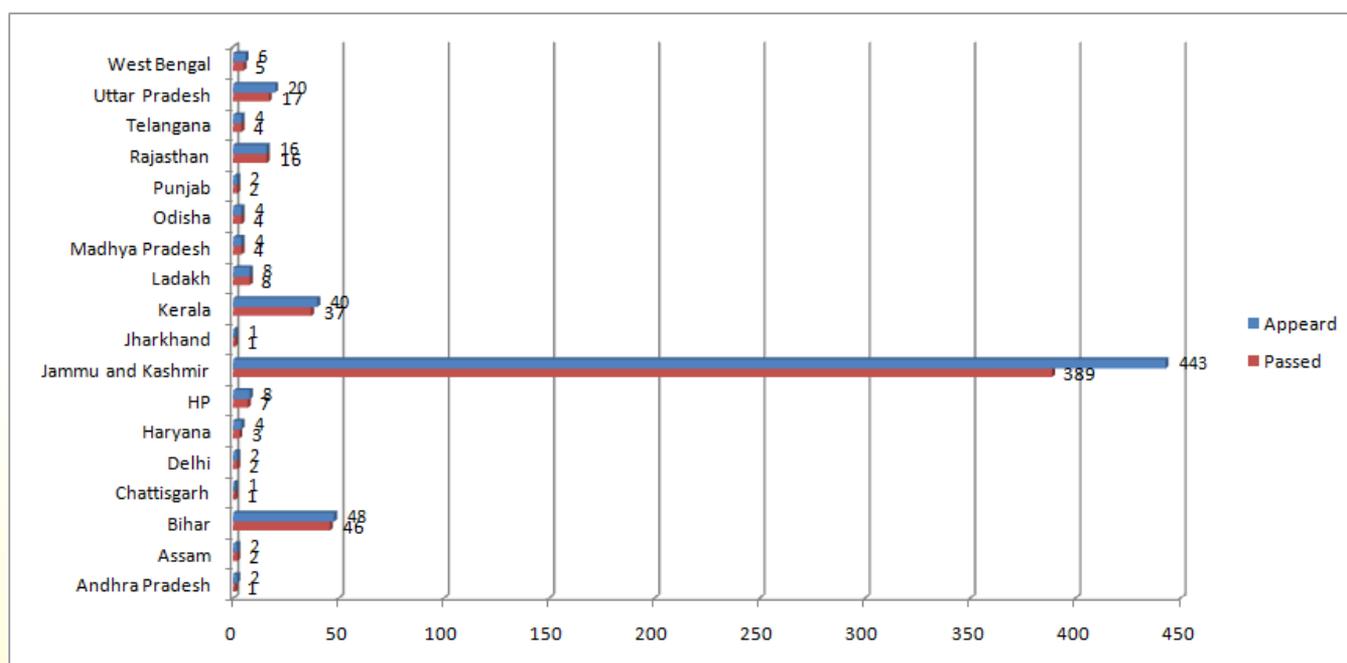
Appeared Passed Total

	UG	PG	INTEGRATED	
Appeared	63	399	153	615
Passed	59	346	144	549



State Wise

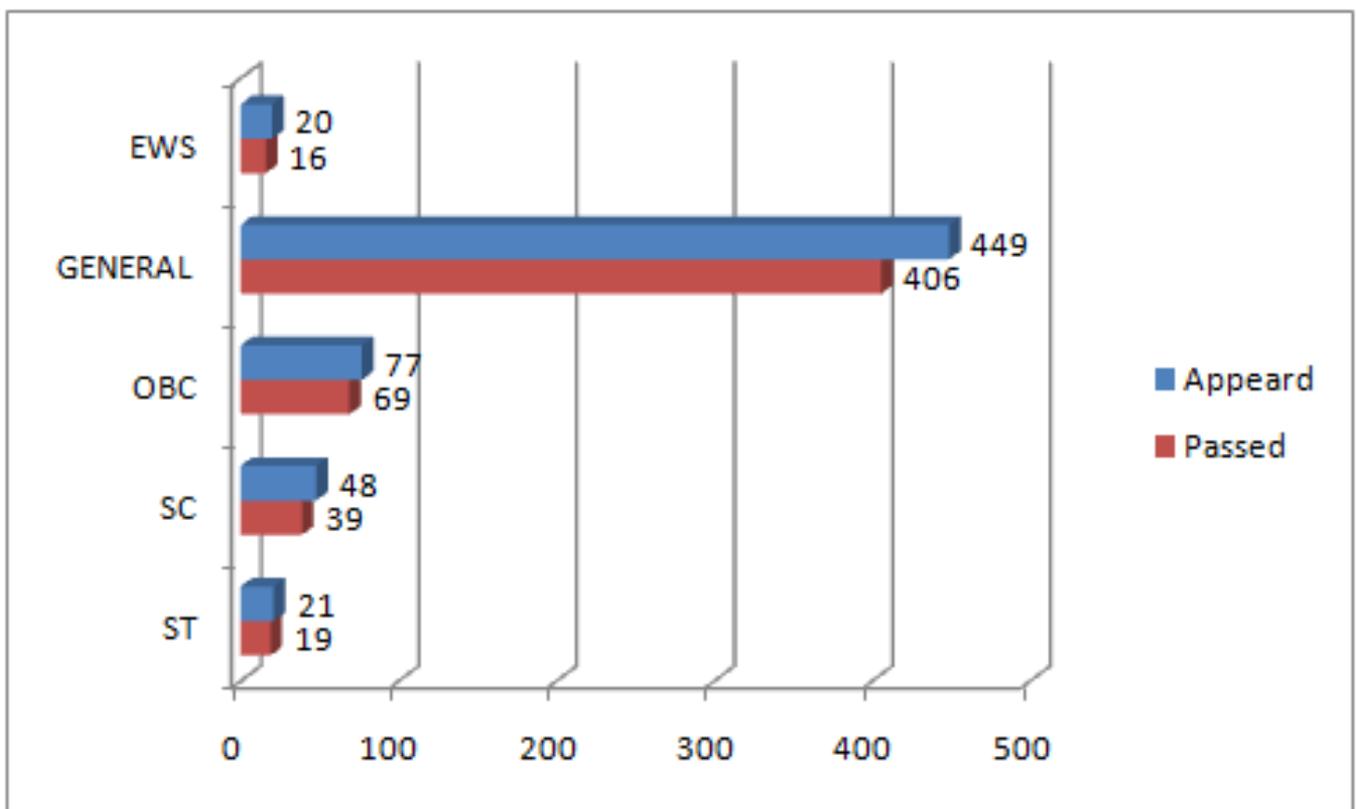
State/UT	Appeared	Passed
Andhra Pradesh	2	1
Assam	2	2
Bihar	48	46
Chattisgarh	1	1
Delhi	2	2
Haryana	4	3
HP	8	7
Jammu and Kashmir	443	389
Jharkhand	1	1
Kerala	40	37
Ladakh	8	8
Madhya Pradesh	4	4
Odisha	4	4
Punjab	2	2
Rajasthan	16	16
Telangana	4	4
Uttar Pradesh	20	17
West Bengal	6	5
	615	549



Category

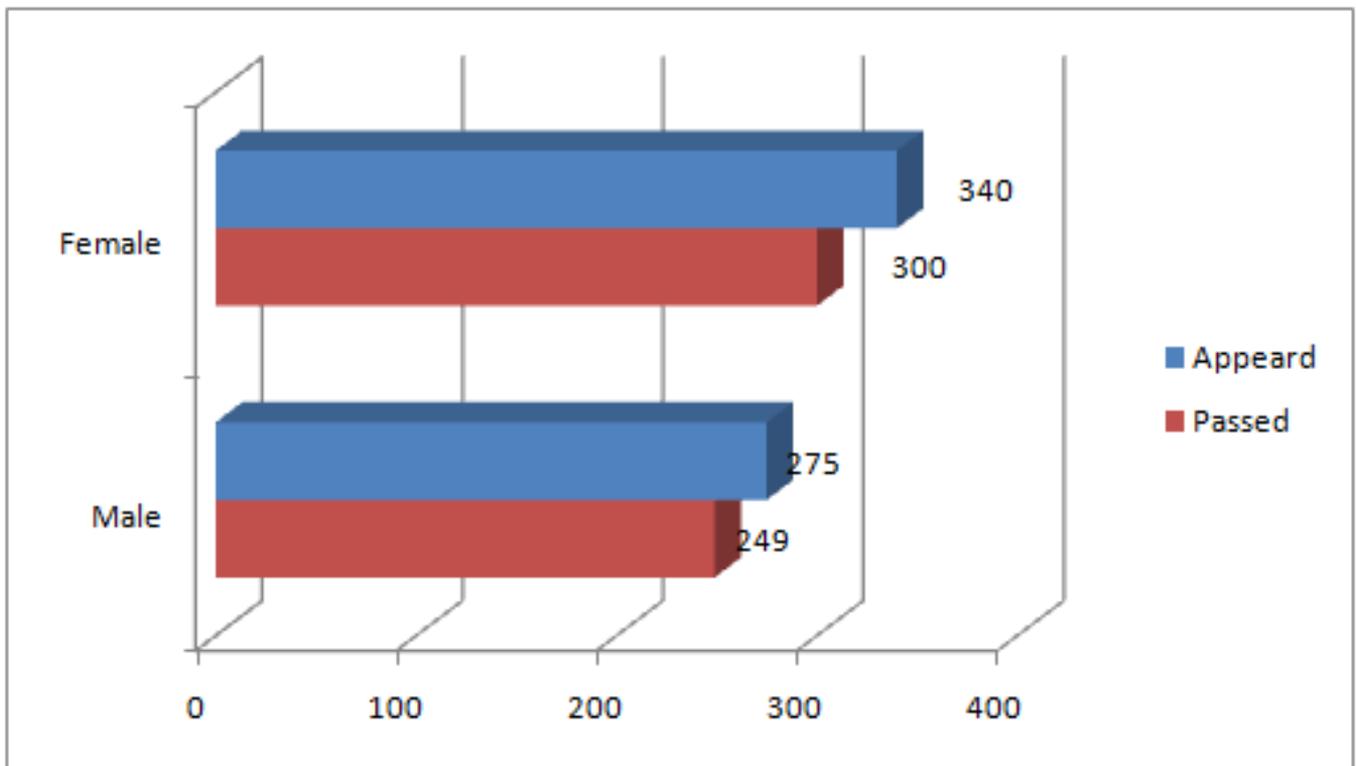


Category	Appeared	Passed
ST	21	19
SC	48	39
OBC	77	69
GENERAL	449	406
EWS	20	16
	615	549



Gender Wise

Gender	Appeard	Passed
Male	275	249
Female	340	300
	615	549



Training and Placement



CENTRAL UNIVERSITY OF JAMMU

जम्मू केंद्रीय विश्वविद्यालय

2024 - 2025

SUPER DREAM OFFERS!



Prof. Sanjeev Jain
Hon'ble Vice Chancellor
Central University of Jammu

 Muhammad Syaid Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Hagla Kanti Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Aparna Bhatt Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Ananya Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Anmol Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA		 Isha Chaudhary Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Riyaal Datta Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Muskan Datta Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Nupur Gargi Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Pooja AT Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA
 Adish Gargi Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Heery Sharma Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Nishal Sankhraj Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA		 Brijesh Dha Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Tanvi Bhagat Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Ushad Shivraj Malik Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Vishal Sharma Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Muskan Choudhary Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Piyush Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Manjota Mehta Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA
	 Nishita Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Anshu Vaid Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Shubhanshu Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Shreemadh AS Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Leena Bhardwaj Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Kanya Piyta Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA		 Harshita Gupta Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Rajvansh Mathia Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Komal Anandya Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA
 Iremah Sharma Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Nandini Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Sahil Singh Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Shreyas Bana Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Saurav Sangal Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Khushi Sonam Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Anshika Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Bharti Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Aarti Chahal Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Nishit Chughayya Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Akshay P Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA
 Akanksha Mahapatra Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Arpit Mishra Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Aniraj Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Manish Kumar Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Zilhan Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Anshika Saini Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Urvashi Kanti Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA	 Pranav Company Name: ITC Department: HR (Jammu) Package: 3.5 LPA			

Best of Luck on your journey ahead; may your future be filled with success & fulfillment!

Mr. Viraj Magotra
Training & Placement Officer



CENTRAL UNIVERSITY OF JAMMU

(Established by the Central Universities Act, 2009)

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

Jammu (Jammu & Kashmir)

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