



# ANNUAL REPORT

UNIVERSITY OF JAMMU

2022-2023

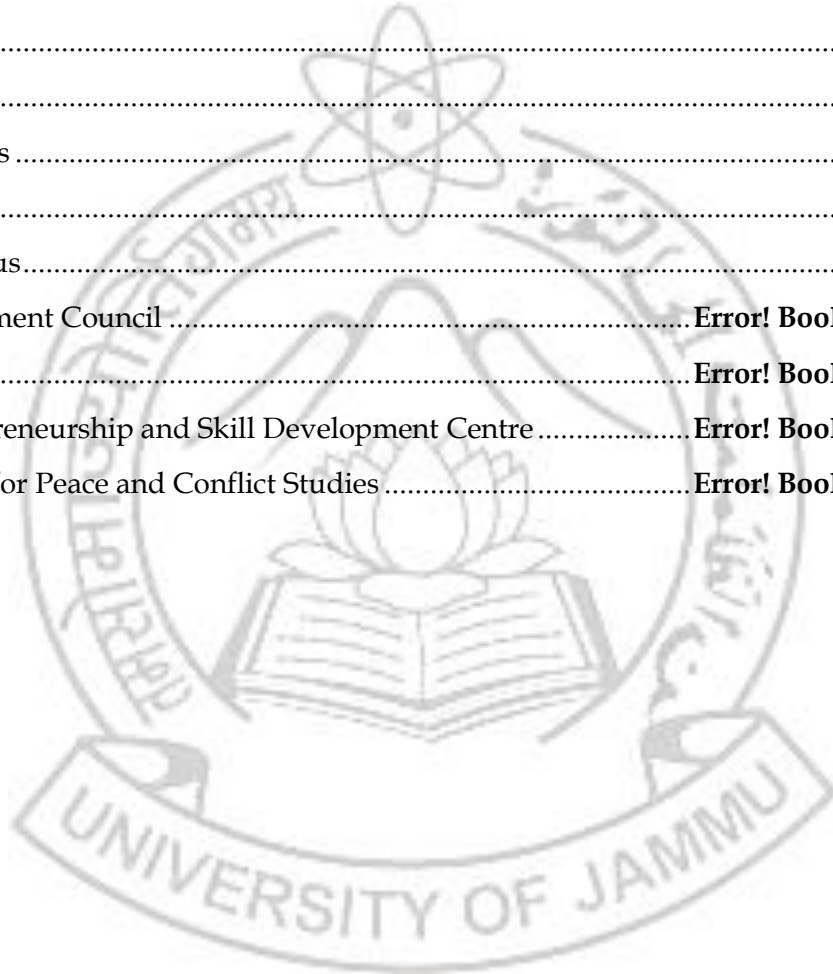


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## INTRODUCTION OF THE UNIVERSITY

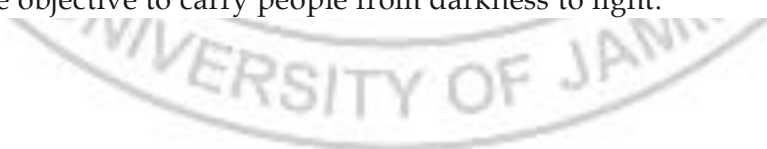
The University of Jammu strives for Achieving world-class excellence in teaching, research and knowledge transfer and making valuable contributions to the socioeconomic development of the region and country. Imparting quality education to the students, promoting their all-round development by participation in sports, extracurricular and other socially relevant activities and including the skill of decision making and democratic values.

Providing state of the art facilities and opportunities for academic growth and to carry out research in the modern areas, particularly of applied nature and technology.

Cradled in the lap of mountains at the foothills of auspicious Trikuta, besides the river Tawi at an altitude of 1030 ft. is Jammu. This 'city of temples' has many places that are flocked by people from every nook and corner. Among all these, also comes the famed University of Jammu. A place, where imparting education is not considered just as a mere duty, but as a commitment towards the advancement of the society. A university with a vision and a single-minded mission. To make Jammu university a name to reckon with. A saga that has been continuing from the time of its inception.

The University of Jammu, accredited as '**A+**' **Grade University by National Assessment & Accreditation Council of India** came into existence in 1969 vide Kashmir and Jammu Universities Act 1969 following bifurcation of the erstwhile University of Jammu and Kashmir. The University provides instructions in such branches of learning as it deems fit and makes provision for research and the advancement and dissemination of knowledge. The University stands for spiritual and material elements in life thirst for knowledge and virtue under the backdrop of holy peaks of Trikuta Hills.

University of Jammu holds examinations, grants degrees, generates knowledge and confers diverse academic distinctions on persons who pursue approved courses of study in the University or in constituent colleges/institutions approved for the purpose also for those who appear as external/private candidates. It also confers honorary degrees or other distinctions on the persons of exceptional caliber. The University also admits, maintains, recognizes, affiliates colleges and other institutions. It is primarily a research, teaching, affiliating, and examining body involved in promotion of arts, science and other branches of learning. The University is open to all classes and creeds with the sole objective to carry people from darkness to light.



**UNIVERSITY COUNCIL**  
**(as on March 31, 2023)**

**I EX-OFFICIO MEMBERS**

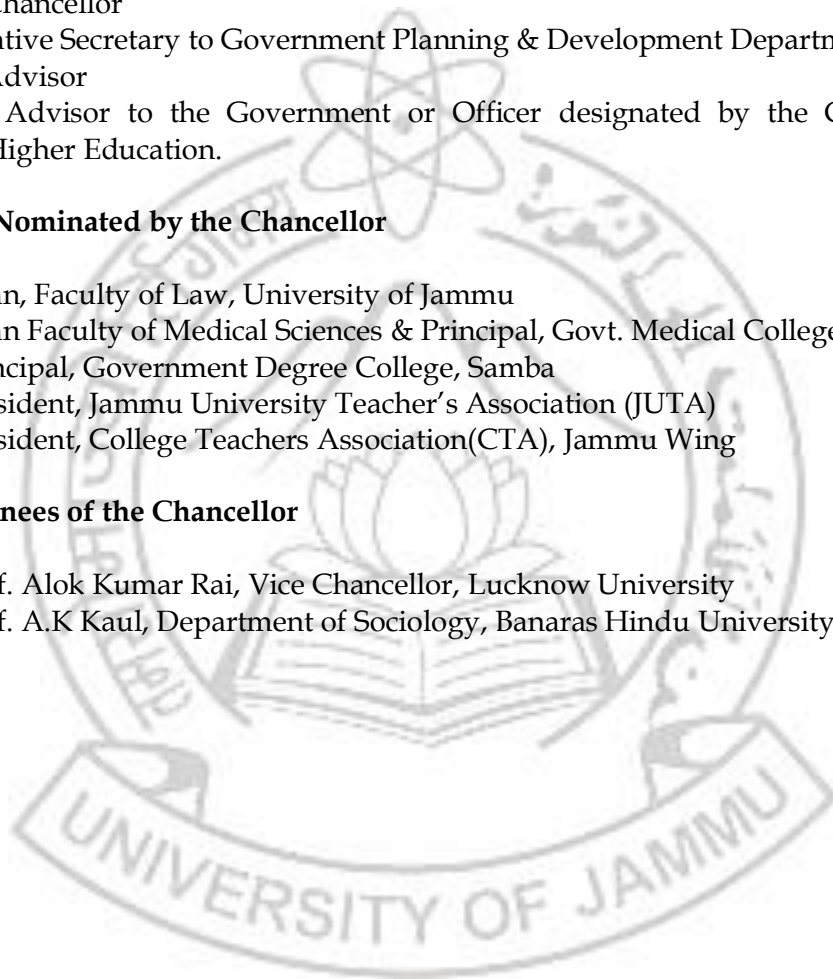
1. Chancellor
2. Pro-Chancellor
3. Education Minister
4. Vice Chancellor, University of Jammu
5. Vice Chancellor, University of Kashmir
6. Pro- Vice Chancellor
7. Administrative Secretary to Government Planning & Development Department
8. Financial Advisor
9. Education Advisor to the Government or Officer designated by the Government to the Incharge, Higher Education.

**II Members Nominated by the Chancellor**

- i) Dean, Faculty of Law, University of Jammu
- ii) Dean Faculty of Medical Sciences & Principal, Govt. Medical College, Jammu
- iii) Principal, Government Degree College, Samba
- iv) President, Jammu University Teacher's Association (JUTA)
- v) President, College Teachers Association(CTA), Jammu Wing

**III Two Nominees of the Chancellor**

- i) Prof. Alok Kumar Rai, Vice Chancellor, Lucknow University
- ii) Prof. A.K Kaul, Department of Sociology, Banaras Hindu University, Varanasi



**UNIVERSITY SYNDICATE**  
(as on March 31, 2023)

- Vice Chancellor
- Pro- Vice Chancellor
- Education Advisor to the Government or Officer designated by the Government to the Incharge, Higher Education.
- Financial Advisor
- Dean Faculty of Social Sciences, University of Jammu
- Dean, Faculty of Life Sciences, University of Jammu
- Dean, Faculty of Business Studies
- Dean, Faculty of Arts
- Principal, Government Degree College, Bani
- Principal, Government Degree College, Marwah
- Prof. K.S Charak, Department of Mathematics, University of Jammu
- Prof. Aneesa Shafi, Head, Department of Sociology, University of Kashmir
- Prof. Anwar Hassan, Dean, School of Physical & Mathematical Sciences, University of Kashmir
- Prof. Sunita Singh Sen Gupta, Faculty of Management Studies, University of Delhi
- Prof. Chandra Bhushan Sharma, School of Education, IGNOU, New Delhi
- Prof. J.P Pandey, Director, Kamla Nehru Institute of Technology, Sultanpur

**ACADEMIC COUNCIL**  
(as on March 31, 2023)

**I. Vice-Chancellor**

**II. Deans of Faculties of the University of Jammu**

- Dean, Faculty of Science
- Dean, Faculty of Law
- Dean, Faculty of Business Studies
- Dean, Faculty of Education
- Dean, Faculty of Life Sciences
- Dean, Faculty of Social Sciences
- Dean, Faculty of Arts
- Dean, Faculty of Mathematical Sciences
- Dean, Faculty of Medical Sciences
- Dean, Faculty of Engineering.
- Dean, Faculty of Music & Fine Arts

**III. Heads of Departments of University**

**IV. Six Principals of Affiliated/Constituent Colleges Nominated by The Vice Chancellor**

- Principal, Govt. Degree College Kathua
- Principal, Govt. Degree College for Boys, Udhampur
- Principal, Govt. Degree College, Poonch
- Principal, Govt. Degree College, Kishtwar
- Principal, Govt. M.A.M College, Jammu
- Principal, Govt. Degree College, Reasi

**V. Four College Professors Nominated by the Vice-Chancellor**

- Head, Department of Persian, Govt. Degree College, Rajouri
- Head, Department of Arabic, Govt. Degree College, Doda
- Head, Department of Music, Govt. Degree College for Women, Gandhi Nagar, Jammu
- Head, Department of Philosophy, Govt. College for Women, Parade, Jammu

**VI. Deans of Faculties of Kashmir**

- Dean, Faculty of Arts
- Dean, Faculty of Applied Science & Technology
- Dean, Faculty of Biological Sciences
- Dean, Faculty of Physical & Material Sciences
- Dean, Faculty of Social Sciences
- Dean, Faculty of Commerce & Management Studies
- Dean, Faculty of Education
- Dean, Faculty of Law



- Dean, Faculty of Oriental Learning
- Dean, Faculty of Engineering
- Dean, Faculty of Medicine
- Dean, Faculty of Music & Fine Arts
- Dean, Faculty of Dentistry

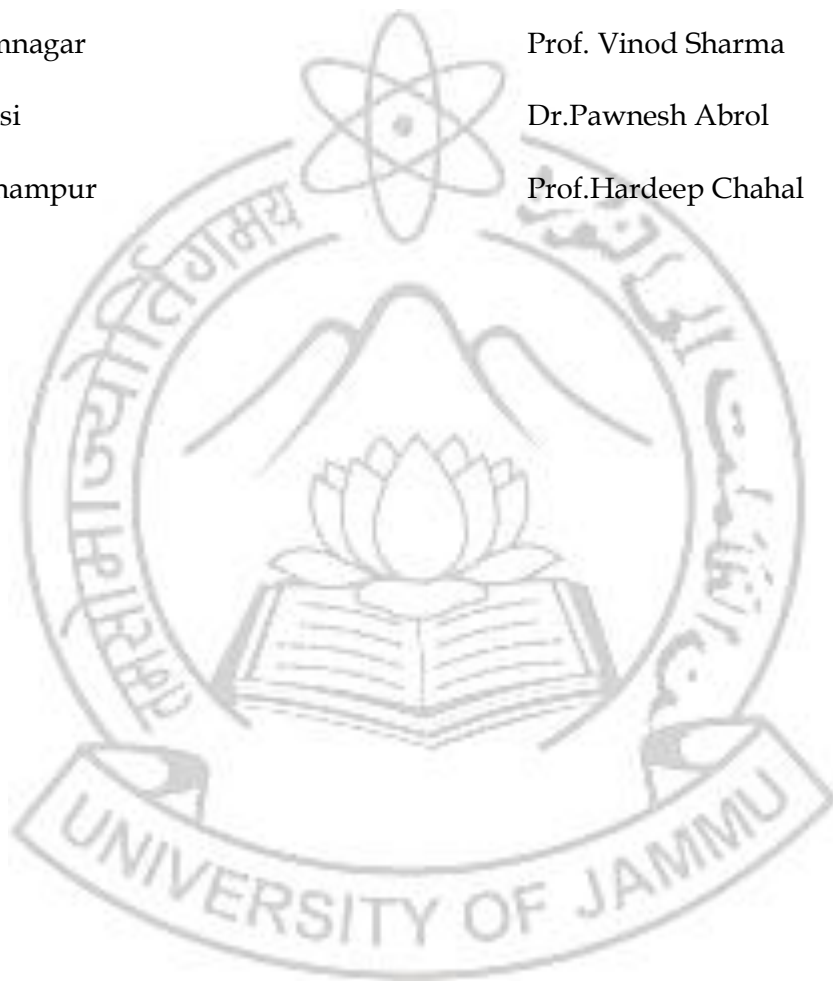
**VII. Five Persons to be co-opted by the Academic Council**

- Dean Academic Affairs, University of Jammu
- Dean Research Studies, University of Jammu
- Controller of Examinations, University of Jammu
- Director, Directorate of Colleges Development Council, University of Jammu
- Director, Directorate of Distance Education, University of Jammu



## RECTORS/DIRECTORS OF THE CAMPUSES

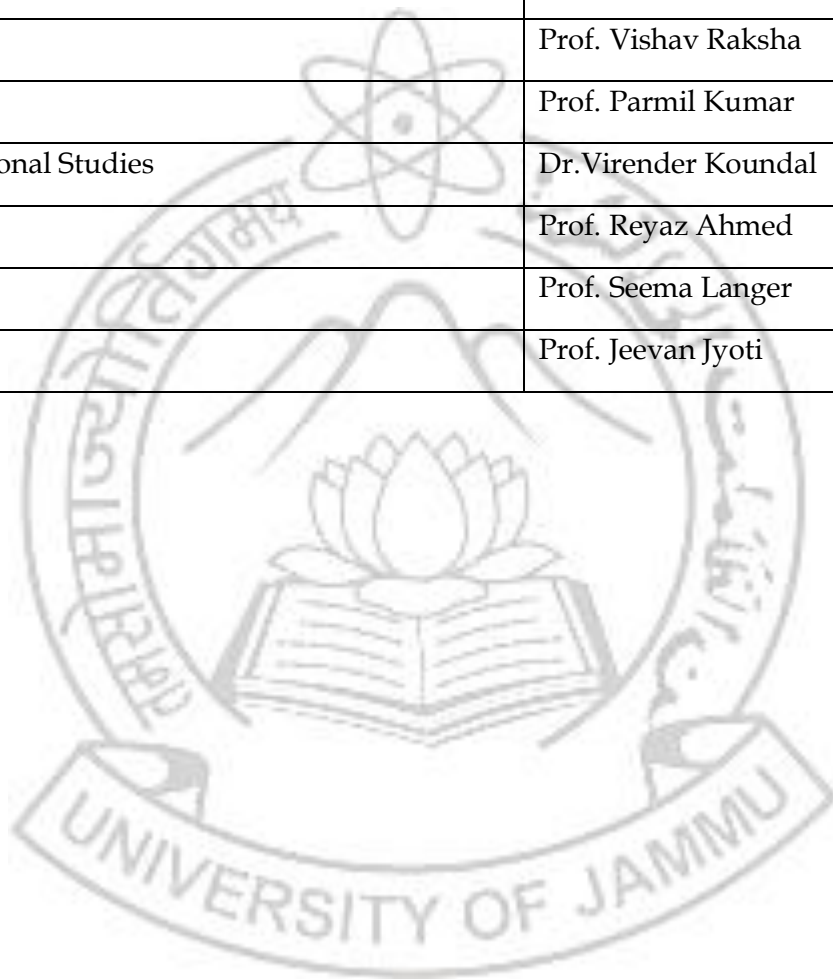
<b>Campus</b>	<b>Rector/Director</b>
Bhaderwah	Prof.Rahul Gupta
Kathua	Dr. Meenakshi Kilam
Kishtwar	Prof.Haq Nawaz Shiekh
Poonch	Prof. Rakesh Vaid
Ramnagar	Prof. Vinod Sharma
Reasi	Dr.Pawnesh Abrol
Udhampur	Prof.Hardeep Chahal



**HEADS OF THE UNIVERSITY TEACHING DEPARTMENTS**  
(As on March 31, 2023)

Name of the Department/ Directorate	Head/Director
Biotechnology	Prof. Sanjana Koul
Botany	Prof. Veenu Kaul
Buddhist Studies	Prof. Shohab Inayat Malik
The Business School	Prof. Alka Sharma
Chemistry	Prof. K.K. Kapoor
Computer Science & IT	Prof. Pawnesh Abrol
Commerce	Prof. Hardeep Chahal
Dogri	Prof. Sushma Devi
Economics	Prof. Prakash Anthal
Education	Prof. Renu Nanda
Electronics	Prof. P.K Lehna
English	Prof. Sucheta Pathania
Environmental Sciences	Prof. Piyush Malviya
Geography	Prof. Anuradha Sharma
Geology	Prof. Rajnikant
Hindi	Prof. Sushma Sharma
History	Prof. Suman Jamwal
Home Science	Prof. Samridhi Arora
Human Genetics	Prof. B.K Bajaj
Hospitality & Tourism Management	Prof. Anil Gupta
Law	Prof. Satinder Kumar
Law School	Prof. Manju Jamwal
Library Science	Prof. Sangita Gupta
Life Long Learning	Prof. Jeevan Jyoti
Mathematics	Prof. Romesh Kumar
Physical Education	Prof. Daud Iqbaal Baba

Name of the Department/ Directorate	Head/Director
Physics	Prof. Arun Bharti
Political Science	Prof. Baljit Singh
Psychology	Prof. Satnam Kour
Punjabi	Prof. Baljeet Kaur
Remote Sensing	Prof. Avtar Singh Jasrotia
Sanskrit	Prof. Sushma Devi
Sociology	Prof. Vishav Raksha
Statistics	Prof. Parmil Kumar
Strategic and Regional Studies	Dr.Virender Koundal
Urdu	Prof. Reyaz Ahmed
Zoology	Prof. Seema Langer
ICccR& HRM	Prof. Jeevan Jyoti



**OFFICERS OF THE UNIVERSITY**  
(As on March 31, 2023)

**Vice Chancellor's Secretariat**

Prof. Umesh Rai

Dr. Neeraj Sharma  
Sh. Imran Farooq

Special Secretary to Vice Chancellor  
Public Relation Officer

**Office of Dean Academic Affairs**

Prof. Naresh Padha  
Dr. Sumita Sharma  
Ms. Supriya Sharma

Dean Academic Affairs  
Deputy Registrar  
Assistant Registrar

**Dean Research Studies**

Dr. Rajni Dhingra  
Ms. Alka  
Dr. Pallavi Anand

Dean Research Studies  
Assistant Registrar  
Assistant Registrar

**Administration**

Prof. Rahul Gupta  
Mr. Avinandhan Sharma  
Ms. Renu Bhai

Registrar  
Assistant Registrar (Establishment)  
Deputy Registrar (Teaching Wing)

**Finance**

Sh. Sanjeev Mahajan  
Ms. Dhritika Singh  
Mr. Tanv Sharma  
Ms. Satakshi Gupta  
Sh. Dinesh Gupta

Joint Registrar (Finance)  
Dy. Registrar  
Assistant Registrar  
Assistant Registrar  
Programmer

**Controller of Examinations wing**

Sh. Sanjeev Mahajan  
Sh. Vivek Salathia  
Dr. Raj Kumar  
Sh. Ajay  
Sh. Mahim Jitendra  
Sh. Ashwani Kumar  
Smt. Neena Gupta  
Smt. Sangeeta Gupta  
Sh. Vinod Kumar Gupta

Controller of Examinations  
Joint Registrar  
Joint Registrar  
Joint Registrar  
Deputy Registrar  
Assistant Registrar  
Assistant Registrar  
Assistant Registrar  
Assistant Registrar

Smt. Usha Kumari  
S. Rajinder Singh  
Sh. Kuldip Kumar  
Sh. Arun Abrol  
Sh. Ravi Kant

Assistant Registrar  
Assistant Registrar  
Assistant Registrar  
Assistant Registrar  
Programmer

### **College Development Council**

Prof. Rajni Kant  
Sh. Khem Pal

Director  
Deputy Registrar

### **Directorate of Internal Quality Assurance**

Dr. Meenakshi Kilam  
Ms. Ginny Dogra  
Er. Ameet Targotra  
Ms. Akanksha Sharna

Director  
Deputy Director  
Assistant Director  
Assistant Registrar

### **Office of Dean Students Welfare**

Prof. Prakash Chand Anthal

Dean Student Welfare

### **Central Library**

Prof. Rahul Gupta  
Ms. Anju Gupta  
Ms. Anita Sachar  
Dr. Gurdev Singh  
Ms. Nimmi Suri

I/C Librarian  
Assistant Librarian  
Assistant Librarian  
Assistant Librarian  
Assistant Librarian

### **Works Department**

Er. Rajeev Kumar  
Er. Jeevan Singh  
Er. Akash Bhola

Assistant Executive Engineer  
Assistant Executive Engineer  
Assistant Executive Engineer

### **Hostels**

Prof. Yash Pal Sharma  
Prof. Shashi Manhas

Provost (Boys Hostel)  
Provost (Girls Hostel)

### **Health Centre**

Dr. Bharat Bhushan  
Dr. Goutam Sharma

Medical Officer  
Dental Surgeon

### **Gen. Zorawar Singh Auditorium**

Mr. Sanjeev Mahajan

### **Centre for IT Enabled Services**

Dr. Anik Gupta

I/c Director

**E- Governanace**

Dr. Guneet Sudan  
Ms. Jsvinder Kour

Incharge  
System Development Engineer

**Computer Centre**

Sh. Raman Gupta  
Sh. Amit Mahajan  
Sh. Som Raj

I/c Director  
System Analyst  
Assistant Registrar

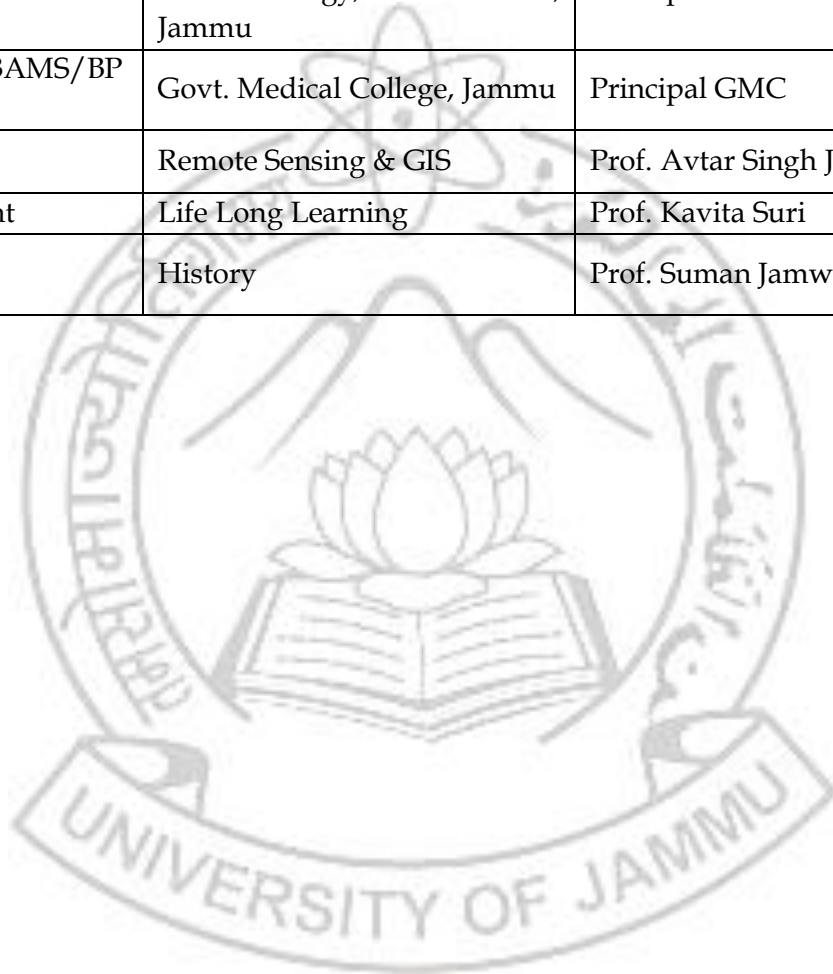


**CONVENERS OF BOARDS OF STUDIES**  
(As on 31<sup>st</sup> March 2023)

Subject	Department/Institute/College	Convener
History	History	Prof. Suman Jamwal
Commerce	Commerce	Prof. Hardeep Chahal
Sociology	Sociology	Prof. Vishaw Raksha
Chemistry	Chemistry	Prof. K.K Kapoor
Music and Fine Arts	Institute of Music and Fine Arts, Poonch House, Talab Tillo, Jammu	Principal, Institute of Music and Fine Arts
Zoology	Zoology	Prof. Seema Langer
Sericulture	Sericulture	Prof. R.K Vaid
Fish and Fisheries/ Human Genetics	Fish and Fisheries/ Human Genetics	Prof. Seema Langer
Computer Application	Computer Science	Prof. Pawnesh Abrol
Museology	Museology	Prof. Poonam Choudhary
Teacher Education /Education Education /Physical Education	Education	Prof. Renu Nanda
Electronics	Electronics	Prof. P.K Lehna
Urdu	Urdu	Prof. Reyaz Ahmed
Dogri	Dorgi	Prof. Sushma Devi
Physics	Physics	Prof. S.S Sambyal
Hindi	Hindi	Prof. Rajni Bala
English	English	Prof. Sucheta Pathania
Buddhist Studies	Buddhist Studies	Prof. Shohab Inayat Malik
Botany	Botany	Prof. Veenu Kaul
Mathematics	Mathematics	Prof. Romesh Kumar
Political Science	Political Science	Prof. Baljit Singh
Food Science Technology/Quality Control/ Home Science	Home Science	Prof. Samridhi Arora
Geography	Geography	Prof. Anuradha Sharma
Bio-Technology/Bio-Chemistry/Microbiology	Biotechnology	Prof. B.K Bajaj
Business Management/ Business Administration/ MTM /Marketing Management	The Business School	Prof. Sameer Gupta
Punjabi	Punjabi	Dr. Baljeet Kaur
Economics	Economics	Dr. Aroon Sharma
Psychology	Psychology	Prof. ArtiBakshi



Sanskrit	Sanskrit	Prof. Sushma Devi
Environmental Science	Environmental Science	Prof. Piyush Malviya
Kashmiri	Kishtwar Campus	Dean, Faculty of Arts
Geology	Geology	Prof. Rajnikant
Library Science	Library Science	Prof. Sangita Gupta
Information Technology	Information Technology	Dr.Pawnesh Abrol
Statistics	Statistics	Prof. Parmil Kumar
Law	Law	Prof. Satinder Kumar
Engineering	Govt. College of Engineering & Technology, Kot Bhalwal, Jammu	Principal GCET
MD/MS/MBBS/BAMS/BPT/BDS	Govt. Medical College, Jammu	Principal GMC
Remote Sensing	Remote Sensing & GIS	Prof. Avtar Singh Jasrotia
Rural Development	Life Long Learning	Prof. Kavita Suri
Islamic Studies	History	Prof. Suman Jamwal



**Courses Offered in Various Teaching Departments of the University:**

Faculty	Department	Programmes
Arts	Buddhist Studies	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• Ph.D</li> </ul>
	Dogri	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• Ph.D</li> </ul>
	English	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• Ph.D.</li> </ul>
	Hindi	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• Ph.D.</li> </ul>
	Punjabi	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• Ph.D.</li> </ul>
	Sanskrit	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• Ph.D.</li> </ul>
	Urdu	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• Ph.D.</li> </ul>
Business Studies	Business School	<ul style="list-style-type: none"> <li>• MBA.</li> <li>• MBA (IB).</li> <li>• PGDBM.</li> <li>• Ph.D.</li> </ul>
	Commerce	<ul style="list-style-type: none"> <li>• M.Com.</li> <li>• Ph.D.</li> <li>• PG Diploma in Accounting &amp; Finance (PGDA&amp;F).</li> <li>• PG Diploma in Banking &amp; Risk Management (PGDBRM).</li> <li>• PG Diploma in Marketing &amp; Sales Management (PGDMSM).</li> </ul>
	SHTM	<ul style="list-style-type: none"> <li>• MBA (H&amp;T).</li> <li>• BBA.</li> <li>• Ph.D.</li> <li>• PG Diploma in Destination Management</li> </ul>
Education	Education	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• M.Ed.</li> <li>• Ph.D.</li> </ul>
	Physical Education	<ul style="list-style-type: none"> <li>• MPED.</li> <li>• BPED.</li> </ul>
Law	Law	<ul style="list-style-type: none"> <li>• LLB 3-Years</li> <li>• LLM.</li> <li>• Diploma in Criminology</li> <li>• Ph.D.</li> </ul>
	Law School	<ul style="list-style-type: none"> <li>• LLB 5 Years</li> </ul>

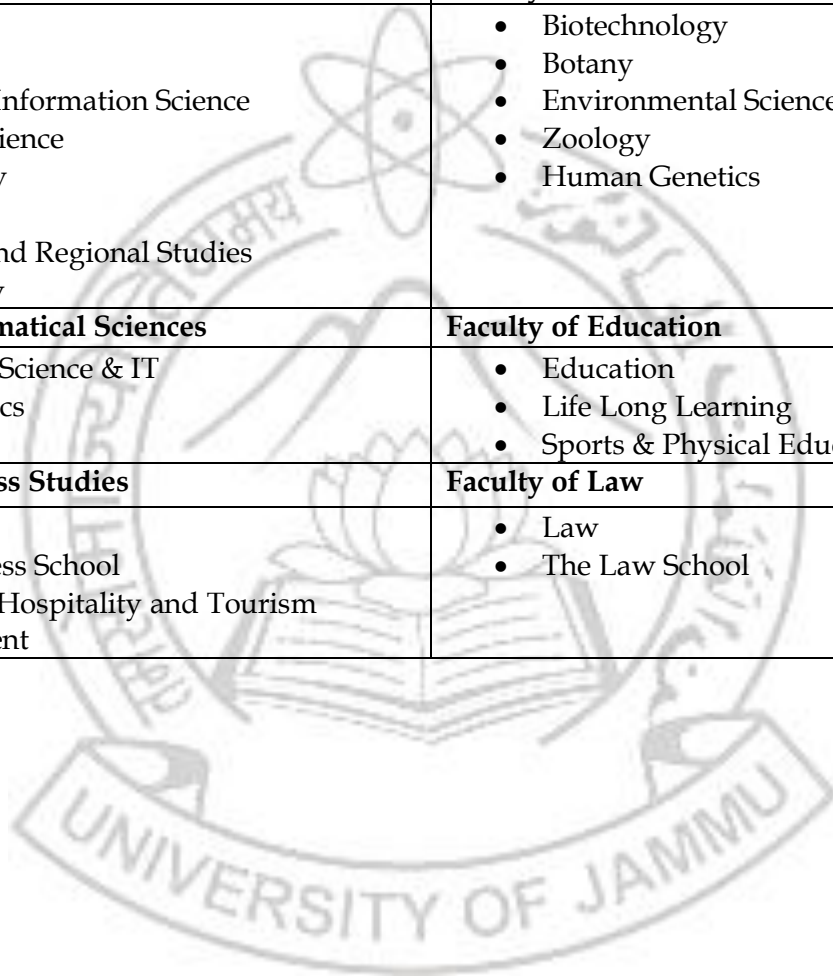
Faculty	Department	Programmes
		<ul style="list-style-type: none"> <li>• Diploma in Human Rights &amp; Duties</li> </ul>
Mathematical Science	Mathematics	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Statistics	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Computer Science	<ul style="list-style-type: none"> <li>• MCA.</li> <li>• M.Tech.</li> <li>• Ph.D.</li> </ul>
Science	Chemistry	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Geology	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Geography	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Home Science	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Physics	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Electronics	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Remote Sensing	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
Life Science	Biotechnology	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Biochemistry	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Microbiology	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Botany	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Environment Science	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Zoology	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Human Genetics	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
Social Science	Economics	<ul style="list-style-type: none"> <li>• M.A Economics</li> <li>• Ph.D.</li> </ul>
	History	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• M.Phil.</li> <li>• Ph.D.</li> </ul>
	Political Science	<ul style="list-style-type: none"> <li>• M.A.</li> <li>• Ph.D.</li> </ul>
	Library Science	<ul style="list-style-type: none"> <li>• M.LI. Sc.</li> <li>• B.LI. Sc.</li> </ul>

Faculty	Department	Programmes
		<ul style="list-style-type: none"> <li>• Ph.D.</li> </ul>
	Life Long Learning	<ul style="list-style-type: none"> <li>• M.A.</li> </ul>
	Sociology	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>
	Psychology	<ul style="list-style-type: none"> <li>• M.Sc.</li> <li>• Ph.D.</li> </ul>



## Departments under Various Faculties of the University

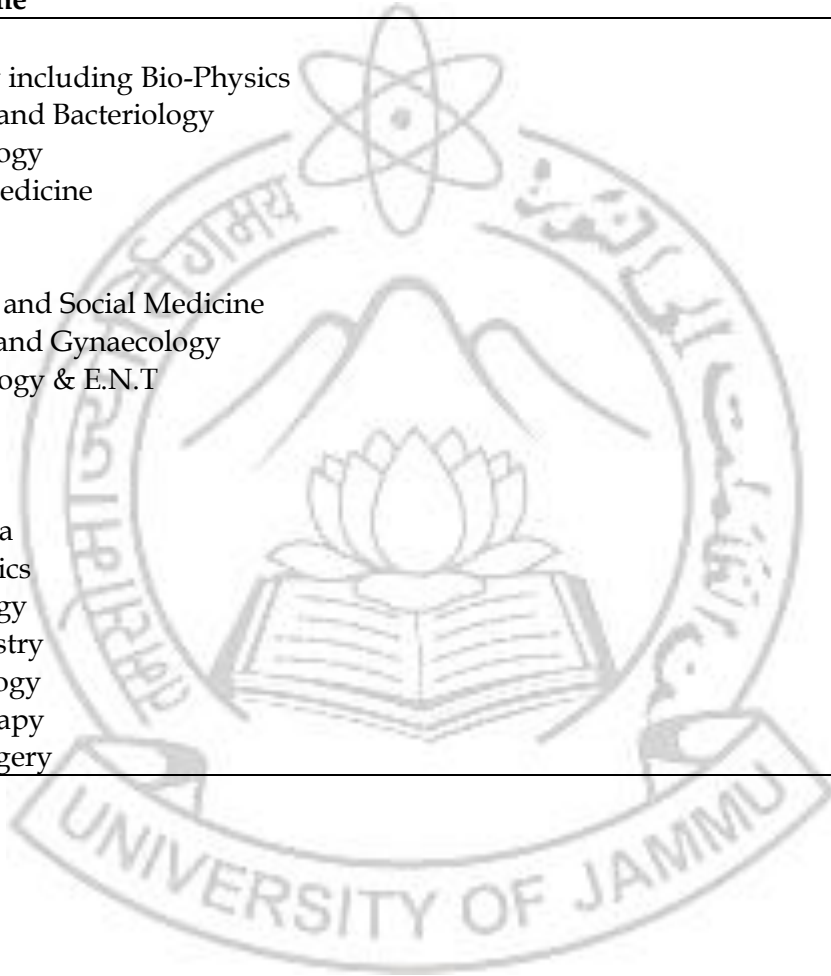
<b>Faculty of Arts</b>	<b>Faculty of Sciences</b>
<ul style="list-style-type: none"> <li>• Buddhist Studies</li> <li>• Dogri</li> <li>• English</li> <li>• Hindi</li> <li>• Punjabi</li> <li>• Sanskrit</li> <li>• Urdu</li> <li>• Journalism &amp; Media Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Chemistry</li> <li>• Geology</li> <li>• Geography</li> <li>• Home Science</li> <li>• Physics &amp; Electronics</li> <li>• Remote Sensing</li> </ul>
<b>Faculty of Social Sciences</b>	<b>Faculty of Life Sciences</b>
<ul style="list-style-type: none"> <li>• Economics</li> <li>• History</li> <li>• Library &amp; Information Science</li> <li>• Political Science</li> <li>• Psychology</li> <li>• Sociology</li> <li>• Strategic and Regional Studies</li> <li>• Philosophy</li> </ul>	<ul style="list-style-type: none"> <li>• Biotechnology</li> <li>• Botany</li> <li>• Environmental Sciences</li> <li>• Zoology</li> <li>• Human Genetics</li> </ul>
<b>Faculty of Mathematical Sciences</b>	<b>Faculty of Education</b>
<ul style="list-style-type: none"> <li>• Computer Science &amp; IT</li> <li>• Mathematics</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Education</li> <li>• Life Long Learning</li> <li>• Sports &amp; Physical Education</li> </ul>
<b>Faculty of Business Studies</b>	<b>Faculty of Law</b>
<ul style="list-style-type: none"> <li>• Commerce</li> <li>• The Business School</li> <li>• School for Hospitality and Tourism Management</li> </ul>	<ul style="list-style-type: none"> <li>• Law</li> <li>• The Law School</li> </ul>



## Boards of Studies under various Faculties of the University

<b>Faculty of Arts</b> <ul style="list-style-type: none"> <li>• Buddhist Studies</li> <li>• English</li> <li>• Sanskrit</li> <li>• Persian</li> <li>• Arabic</li> <li>• Hindi</li> <li>• Urdu</li> <li>• Punjabi</li> <li>• Music</li> <li>• Dogri</li> <li>• Functional English</li> <li>• Kashmiri</li> <li>• English Literature</li> </ul>	<b>Faculty of Life Sciences</b> <ul style="list-style-type: none"> <li>• Botany</li> <li>• Zoology</li> <li>• Environmental Sciences</li> <li>• Bio-Technology</li> <li>• Microbiology</li> <li>• Bio-Chemistry</li> <li>• Human Genetics</li> <li>• Sericulture</li> <li>• Industrial Fish and Fisheries</li> <li>• Biological Techniques and Specimen Preparation</li> </ul>
<b>Faculty of Science</b> <ul style="list-style-type: none"> <li>• Physics and Electronics</li> <li>• Chemistry</li> <li>• Geology</li> <li>• Remote Sensing and GIS</li> <li>• Geography</li> <li>• Home Science</li> <li>• Food Science and Quality Control</li> </ul>	<b>Faculty of Social Sciences</b> <ul style="list-style-type: none"> <li>• Economics</li> <li>• History</li> <li>• Political Science</li> <li>• Library Science</li> <li>• Public Administration</li> <li>• Anthropology</li> <li>• Rural Industries</li> <li>• Interior Decoration</li> <li>• Strategic and Regional Studies</li> <li>• Sociology</li> <li>• Psychology</li> <li>• Philosophy</li> <li>• Islamic Studies</li> </ul>
<b>Faculty of Mathematical Sciences</b>	<b>Faculty of Education</b>
<ul style="list-style-type: none"> <li>• Computer Science &amp; IT</li> <li>• Mathematics</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Education</li> <li>• Teacher Education</li> <li>• Physical Education</li> </ul>
<b>Faculty of Business Studies</b>	<b>Faculty of Ayurvedic Medicine</b>
<ul style="list-style-type: none"> <li>• Business Management</li> <li>• Marketing Management</li> <li>• Business Administration</li> <li>• Tourism Management</li> <li>• Commerce</li> </ul>	<ul style="list-style-type: none"> <li>• Medicine</li> <li>• Midwifery and Gynaecology</li> <li>• Social and preventive Medicine (Kaya Chikitsa Charak, Prasuti Stri Rog, Swasthvir)</li> <li>• Anatomy and Surgery, Eye and E.N.T. (Sharira Shalya Shalakaya)</li> <li>• Physiology and Pathology (D.D.M. V. &amp; Nidan)</li> <li>• Pharmacy and Pharmacology, Medical</li> <li>• Jurisprudence and Toxicology (Ras Shastra, Dravya Guna and Agad Tantra)</li> <li>• Basic Sciences and Languages (Padarth</li> </ul>

	Vigyan, Basic Sciences and Sanskrit)
<b>Faculty of Law</b>	<b>Faculty of Engineering</b>
<ul style="list-style-type: none"> <li>• Law</li> <li>• The Law School</li> </ul>	<ul style="list-style-type: none"> <li>• Civil Engineering</li> <li>• Electrical Engineering</li> <li>• Mechanical Engineering</li> <li>• Electronics/Communication/Computer</li> <li>• Engineering</li> <li>• Physics</li> <li>• Chemistry</li> <li>• Mathematics</li> </ul>
<b>Faculty of Medicine</b>	
<ul style="list-style-type: none"> <li>• Anatomy</li> <li>• Physiology including Bio-Physics</li> <li>• Pathology and Bacteriology</li> <li>• Pharmacology</li> <li>• Forensic Medicine</li> <li>• Surgery</li> <li>• Medicine</li> <li>• Preventive and Social Medicine</li> <li>• Obstetrics and Gynaecology</li> <li>• Ophthalmology &amp; E.N.T</li> <li>• Radiology</li> <li>• Psychiatry</li> <li>• Pediatrics</li> <li>• Anaesthesia</li> <li>• Orthopaedics</li> <li>• Dermatology</li> <li>• Bio-Chemistry</li> <li>• Micro-Biology</li> <li>• Physiotherapy</li> <li>• Dental Surgery</li> </ul>	







## DEPARTMENT OF BUDDHIST STUDIES

The Department of Buddhist Studies was established in May 1987 at University of Jammu, and it was formally inaugurated on May 19, 1987 by the then Governor of Jammu & Kashmir State, Shri Jagmohan, the ex-officio Chancellor of University of Jammu.

Prof. M.L. Lakhanpal was the Hon'ble Vice-Chancellor at that time. Shri Jagmohan and Prof. M.L.Lakhanpal were instrumental in establishment of this Department. The vision behind establishing this Department as a distinguished Centre of teaching and research in Buddhist Studies in the northern most state was to preserve, sustain and disseminate the traditional Buddhist wisdom and the chequered history of its glorious past in Jammu, Kashmir and Ladakh regions, which happened to be the most prominent stronghold of Buddhism since the days of Ashoka and Kanishka.

The Department has been engaged in offering the Master's Degree Program as well as the Doctoral Degree Program since the inception of the Department. Buddhism stands for universal peace, compassion, tolerance, rational thinking and scientific orientation. The relevance of Buddhism in today's strife-torn world is far more than ever before. It is the inheritor of an old tradition and the creator of a new culture, besides being a treasure-trove of knowledge, value, wisdom and research.

The Department aims at bringing into light through research work - philosophical wisdom, cultural glory, art, architecture, iconography and archaeology of Jammu and Kashmir, which is presently languishing in oblivion.

### Programmes offered by the Department

- M.A.
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):** Nil

### Thrust Areas of Teaching and Research

- Pali and Theravada Buddhism
- Buddhist History, Art, Architecture and Iconography
- History of Buddhism in India and Abroad
- Tantric Buddhism / Tibetan Buddhism

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Prof. Shohab Inayat Malik	Ph.D.	Professor & HoD		33
Dr. Rajesh Sharma	Ph.D.	Assistant Professor		

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Rohit Sharma	Ph.D.	01
Dr. Ekta Kumari	Ph.D.	03

**Research Projects including international projects and national collaborative projects:** Nil

### Details of Publications:

Name of the Author	Title of Paper/s
Dr. Rajesh Sharma	<ul style="list-style-type: none"><li>Buddhist Art and Architecture in Paddar Valley" in "Pali Prakriti Anushilanam</li></ul>

### Activities/Events organized by the department:

- A Lecture on “Indian Constitution Based on Buddhism” by Mr. M.S. Prabhu Maurya, Faculty, Department of BTTM, Lumbini Buddhist University, Nepal.
- One-day Seminar on “Buddhism and its Impact in Daily Life”. Venerable Mingyur Dorjay from Zanskar, Ladakh was the Key Note Speaker and Dr. Chhering Tandup was the Chief Guest of the Seminar.
- A heritage tour to the Buddhist site of Ambaran near Akhnoor, Jammu. Students learned about the historic and cultural importance of the ancient monastic complex of Ambran, how it had remain active from the 2<sup>nd</sup> century BCE to the 6<sup>th</sup> century CE as a center for the propagation of Buddhism in the region and also as an important transit station for the monks going to Kashmir and further to Central Asia. The students also visited Akhnoor Fort and the Jia Pota Ghat, the site of the coronation of Maharaja Gulab Singh by Sher-e-Punjab Maharaja Ranjit Singh in 1822.
- Department of Buddhist Studies in collaboration with Bharat Tibet Sangh organised two days National Seminar. Shri. Penpa Tsering, Hon’ble Sikyong, Central Tibetan Administration was the Chief Guest and Prof. Ramnandan Singh, Head, Department of Sanskrit and pali, Central Sanskrit University, Lucknow was the Resource Person.

## DEPARTMENT OF DOGRI

University of Jammu has the honour of being one and the only University in India, which offers Post Graduate Programme in Dogri (language, literature and research). Research work on various aspects of the language, literature, culture, history and folklore is being conducted by the Department.

The Department of Dogri started functioning as a Dogri Research Cell in the University in the year 1971. In 1975, this Research Cell was upgraded as Dogri Research Centre which was further upgraded into a post graduate department in the year 1983. The Department has produced quality research work in the field of linguistics, grammar, literary criticism, poetics, etc. The Department takes responsibility of providing research material to its students and scholars engaged in their research activities.

### Programmes offered by the Department:

- M.A.
- Ph.D.

**Interdisciplinary Programmes offered and details of Departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research:

- Dogri Linguistics
- Grammar
- Folklore
- Translatology
- Literary Criticism

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Prof. Sucheta Pathania	Ph.D.	HoD		29
Prof. Sushma Sharma	Ph.D.	Professor	Dogri Literature, Folklore, Criticism, Translation, Children Literature	26
Dr. Padam Dev Singh	Ph.D.	Assistant Professor	Dogri Literature, Folklore, Criticism, Translation, Children Literature	07
Dr. Sandeep Dubey	Ph.D.	Assistant Professor	Literary Criticism, Literature, Linguistic	07

### Contractual Faculty in the Department

Name	Qualification	Experience in Years
Dr. Shahshi Bharti	Ph.D.	01
Dr. Radha Sharma	Ph.D.	08

**Research Projects including international projects and national collaborative projects (Ongoing):**  
Nil

**Research Projects including international projects and national collaborative projects (Completed):**  
Nil

**Collaborations:**

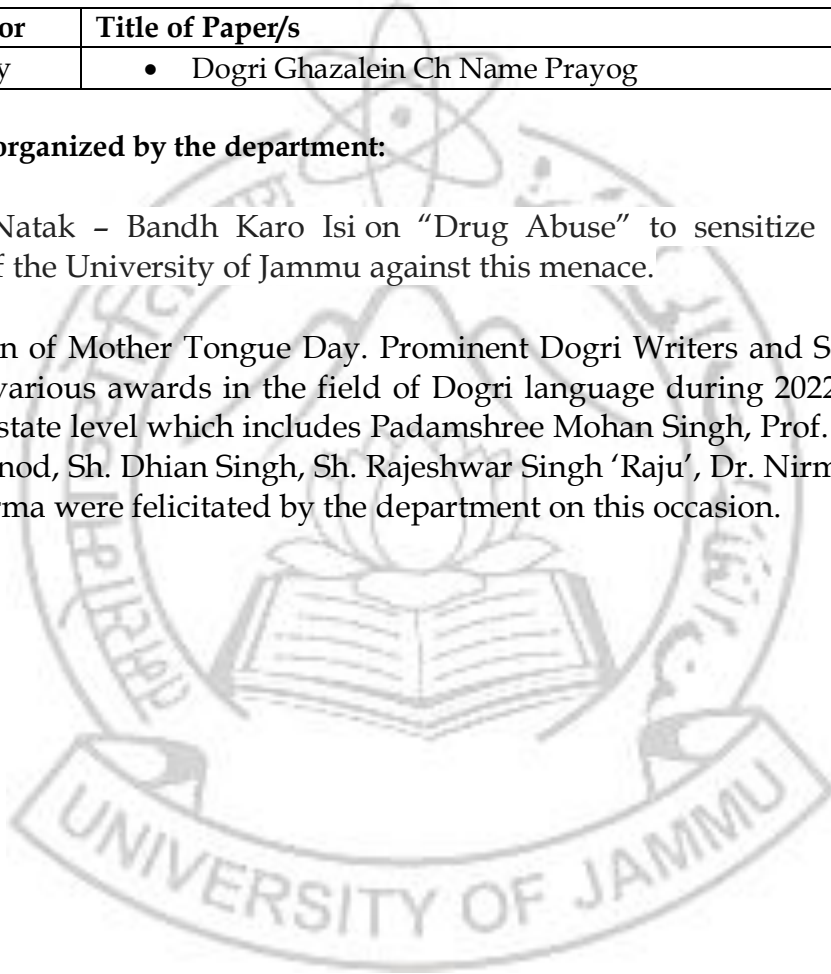
The Department of Hindi has been collaborating with Kunwar Viyogi Memorial Trust for organizing seminar annually on Kunwar Viyogi, a renowned Dogri Writer out of endowment fund of Rs. 15 lakhs deposited by the Kunwar Viyogi Memorail Trust (KVMT) with the University.

**Details of Publications:**

Name of the Author	Title of Paper/s
Dr. Sandeep Dubey	<ul style="list-style-type: none"><li>Dogri Ghazalein Ch Name Prayog</li></ul>

**Activities/Events organized by the department:**

- A NukudNatak - Bandh Karo Isi on "Drug Abuse" to sensitize the students and scholars of the University of Jammu against this menace.
- Celebration of Mother Tongue Day. Prominent Dogri Writers and Scholars who were awarded various awards in the field of Dogri language during 2022-23 at national as well as at state level which includes Padamshree Mohan Singh, Prof. Veena Gupta, Dr. Nirmal Vinod, Sh. Dhian Singh, Sh. Rajeshwar Singh 'Raju', Dr. Nirmal Sareen and Dr. Ashu Sharma were felicitated by the department on this occasion.



## DEPARTMENT OF ENGLISH

The Post Graduate Department of English was one of the first three departments established in the University in 1965. The Department has been able to meet academic challenges and keep pace with the emerging trends in the field of English language and literature. New areas of study have been introduced, in order to strengthen the academic activities in the Department. Academicians from National and International institutes have been visiting the Department for various academic activities like seminars and extension lectures.

The Department has started a Scholars' Literary Club in which paper presentations, scholarly and literary discussions and performance are held on regular basis.

The Scholars of the department have been publishing regularly contributing to various journals and books. They have also been participating in seminars and conferences at the National and International.

### Programmes offered by the Department:

- M.A.
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research:

- Indian Writing in English
- Post Colonial Literature
- American Fiction
- Australian Fiction
- Canadian Fiction
- British Literature
- Literature in Translation
- African Literature
- Caribbean Literature
- Gender studies
- Communication Studies

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Prof. Sucheta Pathania	Ph.D.	Professor	American Literature & New Literature in English	29
Prof. Monika Chadha	Ph.D.	Professor	American Literature & New Literature in English	23

Prof. Satnam Kour	Ph.D.	Professor	Modern and Post Modern American Fiction and Indian Writing in English	28
Dr. Sadaf Shah	Ph.D.	Professor	Indian Writing in English	16
Dr. Ravinder Singh	Ph.D.	Professor	American Fiction, Narratology, Literary Theory	17
Dr. Garima Gupta	Ph.D.	Professor	Indian Writing in English, Comparative Studies, Communication Skills	16
Dr. Pardeep Kumar	Ph.D.	Assistant professor	Indian Writing in English	13

#### Contractual Faculty in the Department

Name	Qualification	Experience in Years
Dr. Pallavi Gupta	Ph.D.	06
Dr. Divya Sharma	Ph.D.	05
Dr. Pragati Jasrotia	Ph.D.	05

**Research Projects including international projects and national collaborative projects (Ongoing):**  
Nil

**Research Projects including international projects and national collaborative projects (Completed):**  
Nil

#### Details of Publications:

Name of the Author	Title of Paper/s
Prof. Sucheta Pathania	<ul style="list-style-type: none"> <li>Gender and Detective Fiction: A Feminist Study of Kishwar Desai's Witness the Night.</li> <li>Eco-Marxist Study of Chandershekhara Kambar's Alibaba Nalavattu Mandi Kallaru.</li> </ul>
Prof. Sadaf Shah	<ul style="list-style-type: none"> <li>Dyslexia in a Disability Society: A Study of Philip Schultz's My Dyslexia.</li> <li>Dyslexia from the Inside Out: A Study of Lynn Pelkey's Autobiographical Essay "In the LD Bubble".</li> <li>Wounding Journey: A Study of Victimization and Trauma of Women in Nawal El Sadawi's Woman at Point Zero.</li> <li>Disability from a Misfit's Perspective: A Study of Malini Chib's One Little Finger.</li> <li>From 'Passing' to 'Coming Out': A Study of Samantha Abeel's My Thirteenth Winter.</li> <li>Asperger's from an Insider's Perspective: A Study of John Elder Robinson's Look Me In the Eye.</li> <li>Unearthing the Trauma of Kashmiri Pandit's Experience in Rahul</li> </ul>

	Pandita's Our Moon has Blood Clots.
Prof. Garima Gupta	<ul style="list-style-type: none"> <li>• At the Crossroad of Tradition and Modernity: Re-visioning Widowhood in Tagore's Choker Bali.</li> <li>• Ramayana through Folksongs: a Case Study of Telgu Folksong "Urmila Devi's Nidra".</li> <li>• Female Psyche in the Complexity of Transition and Change in Agle Janam Mohe Bitiya Na Kijo by Qurrutulain.</li> <li>• Children's Literature and Pedagogy: An Ideological Perspective.</li> <li>• "Love" in the Folksongs of Ladakh: A Feminist Perspective.</li> <li>• Night is not a Woman's Stry": A Study of Sexual and Gender Based Violence against Refugee Women in The Girl Who Smiled Beads.</li> <li>• Dynamics of Motherhood Multicultural Contexts: A Study of La Cao's Family Six Tones.</li> <li>• Contours of partition and Gender in the Selected Works of Qurrutulain Hyder.</li> <li>• The Engima of Cleopatra as a Ruler/ Woman/ Witch/Whore in Shakespeares Anton and Cleopatra through the Lens of Rasa.</li> <li>• Twice Accursed: A Study of Mrinal Pandey's Daughter's Daughter.</li> <li>• Female psyche in the complexity of transition and change in agle janam mohe bitiya na kijo by Qurratulain hyder.</li> </ul>
Dr. Ravinder Singh	<ul style="list-style-type: none"> <li>• The Posthuman Turn in Cory Doctorow's Short Story "I, Robot" ( 2007).</li> </ul>
Dr. Pardeep Kumar	<ul style="list-style-type: none"> <li>• Marriage and individuation: A psychological study of Shashi Deshpande's Shadow Play.</li> <li>• Mother-complex: A psycho-Archetypal Study of Shashi Deshpande's Small Remedies.</li> <li>• Exploring the Masculine Anxieties: A Study of Kiran Desai's Hullabaloo in the Guava Orchard.</li> <li>• Narendranath Mitra's Bikalpa: A Critique of the Social Constructs of Caste, Class and Gender.</li> <li>• Unveiling the Tumultuous Tapestry: Exploring Conflict, Identity and Marginalization in Shyam Selvadurai's Literary Masterpieces.</li> </ul>

#### Activities/Events organized:

- Department of English organized Prof. D.K. Rampal Memorial National Seminar on "Texts and Contexts of Identity through Literature and Language". The seminar aimed to unravel this intricate tapestry of identity through scholarly discourse, inviting papers that explore various facets of identity formation and discourse within literature.
- Department of English organized three day multi lingual workshop on writing "Andaaz-e-Nigaarish" by Sh. Pritam Katoch. Two lectures on the theme "Unraveling the Nuances of Good Writing" and "Crafting Compelling Narratives" were organized during the workshop.

## DEPARTMENT OF HINDI

जम्मू विश्वविद्यालय का हिंदी विभाग विद्यार्थियों के सम्पूर्ण विकास के लिए हमेशा सन्नद्ध रहा है। यह विभाग सन् 1965 से लेकर अब तक क्षेत्रीय, राष्ट्रीय और अंतर्राष्ट्रीय भाषा के रूप में हिंदी का विकास करने के लिए प्रयासरत है। हिंदी साहित्य और भाषा से जुड़े पाठ्यक्रम ने समय के साथ नए विकल्पों और विषयों को भी अपने में समाहित किया है, ताकि छात्र भविष्य में बेहतर रोजगार के अवसरों का लाभ उठा सकें। यह विभाग विद्यार्थियों को जड़ों से जोड़ता है, ज्ञान क्षेत्र का विस्तार करता है, मानव प्रकृति को समझने की प्रेरणा देता है, सृजन, विवेचन और मूल्यांकन की क्षमता का विकास करता है, भाषा प्रयोग की दक्षता बढ़ाता है।

हिन्दी विभाग का उद्देश्य विद्यार्थियों को भारत की गौरवशाली परम्परा, साहित्य एवं संस्कृति से अवगत कराना और वैश्विक स्तर पर हिन्दी साहित्यकारों के योगदान का प्रचार-प्रसार एवं साहित्य की संवेदना से परिचित कराना है।

हिन्दी स्नातकोत्तर विद्यार्थियों के लिए भाषा-शिक्षण, मीडिया, जनसंचार, पत्रकारिता, अनुवाद, सृजनात्मक लेखन, रंगमंच, विज्ञापन, हिन्दी कम्प्यूटिंग, हिन्दी अधिकारी, जनसम्पर्क अधिकारी आदि कार्यक्षेत्र खुले हैं। यहाँ अध्यापन का कार्य शोध कार्य में रुचि रखने वाले समर्पित अनुभवी प्राध्यापकों द्वारा किया जाता है, जो स्वयं को क्रियाशील बनाये रखने के साथ-साथ विभिन्न कार्यशालाओं, राष्ट्रीय और अंतर्राष्ट्रीय संगोष्ठियों में भाग लेते रहते हैं।

हिन्दी विभाग पाठ्यक्रम प्रशिक्षण के अलावा छात्रों के बौद्धिक, सामाजिक और सांस्कृतिक विकास के लिए सतत् प्रतिबद्ध है। इसके लिए विभाग द्वारा विभिन्न कार्यशालाओं, सम्मेलनों और संगोष्ठियों का आयोजन करवाया जाता रहा है। पाठ्यक्रमों के बीच संतुलन कायम रखते हुए यह विभाग एक ओर विद्यार्थी को समाज और समाज में घट रही घटनाओं के प्रति संवेदनशील बनाता है, वहीं व्यावसायिक पाठ्यक्रमों के संयोजन द्वारा उसके भीतर बाजार की माँग के अनुसार भी रुचि और कौशल विकसित करने में सहायता करता है। भाषा-शिक्षण की प्रविधियों में निरंतर नए प्रयोग करते हुए हिंदी विभाग विद्यार्थियों में शोध के प्रति उत्साह जगाने के लिए प्रयासरत है। विविध क्षेत्रों के विशेषज्ञों एवं साहित्यकारों को आमंत्रित करके हिंदी विभाग प्रतिवर्ष विद्यार्थियों को अपने अनुभव और ज्ञान के फलक को विस्तृत करने के अवसर प्रदान करता है।

विभाग भाषा और साहित्य के प्रति अपनी ज़िम्मेदारी को समझते हुए निरंतर शोध एवं शिक्षण को समानांतर रूप से महत्व देता रहा है। विभाग के प्राध्यापक विशेषज्ञता और अंतर-अनुशासनिक दृष्टि के साथ अध्यापन करते और प्रशिक्षण देते हैं तथा एक व्यापक मानवीयता के साथ कक्षा के भीतर और बाहर छात्रों के मार्गदर्शन के लिए तत्पर रहते हैं। रंगमंच और नाट्य विधा को समर्पित कार्यक्रमों का आयोजन भी विभाग का महत्वपूर्ण हिस्सा है। हिंदी विभाग द्वारा हिंदी साहित्य की विभिन्न विधाओं (कविता, कथासाहित्य, नाटक आदि) साहित्य के इतिहास, आलोचना, मीडिया एवं पत्रकारिता, भाषा-विज्ञान, अंतर अनुशासनिक अध्ययन आदि से जुड़े कार्यक्रमों का आयोजन समय-समय पर किया जाता रहा है जिससे छात्रों - शोधार्थियों को अध्ययन की व्यापकता के साथ-साथ भविष्य का चुनाव करने में भी सहयोग मिलता रहा है। हिन्दी विभाग से उत्तीर्ण छात्र अनेक क्षेत्रों में अपनी प्रतिभा से नाम रौशन कर चुके हैं। अनेक विश्वविद्यालयों, महाविद्यालयों और विद्यालयों में वे योग्य शिक्षक के रूप में सक्रिय हैं।

### **Programmes offered by the Department:**

- M.A.
- Ph.D.

### **Interdisciplinary Programmes offered and details of Departments/disciplines involved: Nil**

### **Recognition/Accreditation of the programmes offered by the Department (other than University): Nil**



### Thrust Areas of Teaching and Research

- Novel
- Kahani
- Poetry
- Natak Aur Rangmanch
- Linguistic
- Journalism

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Prof. Rajni Bala	Ph.D.	Professor & HoD	Ajneya Sahitya, Lambi Kavita	21
Dr. Parshotam Kumar	Ph.D.	Assistant Professor	Hindi Upnyas	13
Dr. Bandana Thakur	Ph.D.	Assistant Professor	Hindi Drama	07

### Contractual Faculty in the Department

Name	Qualification	Experience in Years
Dr. Neelam Kumari	Ph.D.	12
Dr. Koshika Sharma	Ph.D.	06
Dr. Bhagwati Devi	Ph.D.	06
Ms. Sonika Koushal	M.A.	12

**Research Projects including international projects and national collaborative projects (Ongoing):**  
Nil

**Research Projects including international projects and national collaborative projects (Completed):**  
Nil

### Details of Publications:

Name of the Author	Title of the Paper/s
Dr. Parshotam Kumar	<ul style="list-style-type: none"><li>• Jatindra Shrivastav ki Kavitaon mein Stri Jeevan.</li><li>• Prayavarniya Chetna Ke Kahanikaar.</li><li>• Hindi Baal Sahitya: Ek Anusheelan.</li><li>• Sanatan: Dalit Jeevan Ka Dastavej</li><li>• Dalit Jeevan Ka Dastavej Buss Bahut ho chukka.</li><li>• The Storyteller of Environmental Consciousness: S. R. Harnot.</li><li>• Aadivasi Pehchan ka Sankat: Prathna mein Pahad.</li></ul>
Dr. Bandana Thakur	<ul style="list-style-type: none"><li>• Girish Karnad Ke Yyathi Mein Mithkai Chetna.</li><li>• Hindi Abstract Naatkoo Mein Vissangti Bodh Aur Anjanvipan.</li><li>• Hindi Laghu Natakon Ka Shilp Vidhan.</li><li>• Vashvikaran Ke Daur Mein Hindi Bhasha.</li><li>• Hindi Natak Chaunotiyon Aur Sambhavyan.</li></ul>

## **Books Published:**

### **(Dr. Rajni Bala)**

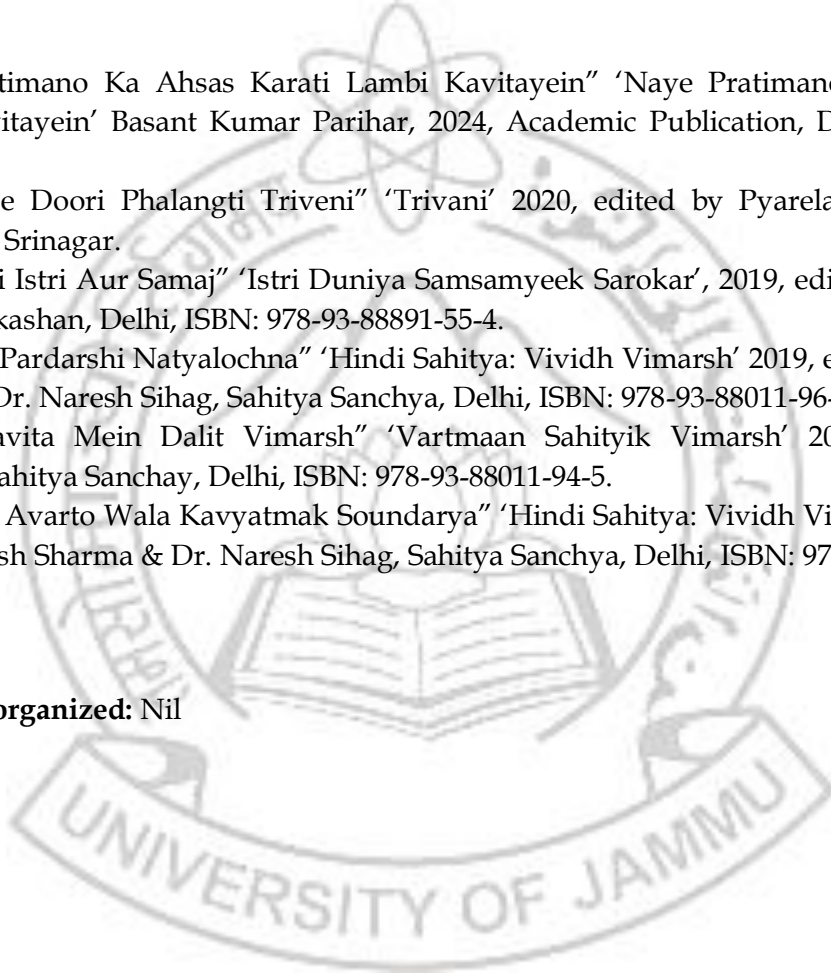
1. "Itihaas Se Bahar Kahan Rakhu Ise... Narendra Mohan Rachna Sanchayan" 2022 (edited) Academic Publication, Delhi, ISBN: 978-9391798-71-0.
2. "Drishya Aur Drishti ka Sanyojan: Rachna Aur Alochna" 2021 (criticism) Academic Publication, Delhi, ISBN: 978-81-95402-13-7.

## **Papers in Books:**

### **(Dr. Rajni Bala)**

1. "Naye Pratimano Ka Ahsas Karati Lambi Kavitaeyin" 'Naye Pratimano Ka Ahsas Karati Lambi Kavitaeyin' Basant Kumar Parihar, 2024, Academic Publication, Delhi, ISBN: 978-81-19680-59-7.
2. "Bhashaiyee Doori Phalangti Triveni" 'Trivani' 2020, edited by Pyarelal Hatash, Gulshan Publishers, Srinagar.
3. "Kaamkaji Istri Aur Samaj" 'Istri Duniya Samsamyek Sarokar', 2019, edited by Rekha Rani, Swaraj Prakashan, Delhi, ISBN: 978-93-88891-55-4.
4. "Sanslisht Pardarshi Natyalochna" 'Hindi Sahitya: Vividh Vimarsh' 2019, edited by Dr. Rajesh Sharma & Dr. Naresh Sihag, Sahitya Sanchya, Delhi, ISBN: 978-93-88011-96-9.
5. "Lambi Kavita Mein Dalit Vimarsh" 'Vartmaan Sahityik Vimarsh' 2019, edited by Dr. Mahzabi, Sahitya Sanchay, Delhi, ISBN: 978-93-88011-94-5.
6. "Bahuvarti Avarto Wala Kavyatmak Soundarya" 'Hindi Sahitya: Vividh Vimarsh' 2019, edited by Dr. Rajesh Sharma & Dr. Naresh Sihag, Sahitya Sanchya, Delhi, ISBN: 978-93-88011-96-9.

**Activities/Events organized:** Nil



## DEPARTMENT OF PUNJABI

University of Jammu is one of the few Universities, which has a Post Graduate Department of Punjabi. Department was established in 1972. The curriculum of the programme has been formulated in such a manner that a student pursuing the course not only learns about Punjabi language, literature and culture but also understands the concept of Indian literature and world classics. Thus, the knowledge acquired by a student /scholar familiarizes him/her with a global perspective of literary and cultural traditions. The main objective of the Department has been to provide quality education in the field to the students/scholars through the latest trends and pedagogy of teaching and research with professional competency.

### Programmes offered by the Department

- M.A.
- Ph.D.

**Interdisciplinary Programmes offered and details of Departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research:

- Punjabi language, Literature and culture
- Comparative study of Punjabi language & Literature with other languages.
- Punjabi Theatre and Drama
- Punjabi Fiction
- Post modern literary trends
- Punjabi poetry
- Criticism- Meta criticism
- A comparative study of dialects of Jammu region and dialects of Punjabi region
- Impact of electronic media on Punjabi language and literature

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Prof. Baljeet Kour	Ph.D.	Professor & HoD	Drama & Literary Criticism	21
Dr. Harjinder Singh	Ph.D.	Assistant Professor	Medieval Poetry & Meta Criticism	11
Dr. Pritam Singh	Ph.D.	Assistant professor	Fiction and Culture	06

### Contractual Faculty in the Department

Name	Qualification	Experience
Dr. Mamta Rani	Ph.D.	02 Years

Ms. Harpreet Kaur	M.Phil.	02 Years
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**Research Projects including international projects and national collaborative projects (Ongoing):**  
Nil

**Research Projects including international projects and national collaborative projects (Completed):**  
Nil

**Details of Publications:**

Name of the Author	Title of the Paper/s
Prof. Baljeet Kour	<ul style="list-style-type: none"> <li>Taraatan' Kaav Sangreh Da Bhawatmak Adhiyan.</li> <li>Mitti Dhundh Jag Chanan Hoa': Vichardharaee Paripekh.</li> </ul>
Dr. Pritam Singh	<ul style="list-style-type: none"> <li>Parvasi Punjabi Dia Jeevan Gatha.</li> </ul>
Dr. Harjinder Singh	<ul style="list-style-type: none"> <li>Parvasi Punjabi Dia Jeevan Gatha (Ninder Guhgianvi).</li> <li>Sigmund Frued the Vihanik Mano-Vishleshan: Kujh Buniyadi Pehlu.</li> </ul>

**Activities/Events organized by the department:**

- Department of Punjabi in collaboration with Punjabi Lekhak Sabha (PLS), Jammu under the banner of "Azadi Ka Amrit Mahotsav" organized a Symposium on Dr. Monojit's Contribution to Punjabi Satire. A Punjabi satire novel titled 'Ik Naal Ik Free' written by Dr. Monojit was also released on the occasion.
- Department of Punjabi in collaboration with Punjabi Sahtik Sabha (PSS), R S Pura released a book titled 'Shabdan De Sur Panchhi' written by Harjit Singh Uppal in presence of large number of intellectuals, writers, faculty members, research scholars and students.
- Department of Punjabi in collaboration with Punjabi Lekhak Sabha (PLS), Jammu under the banner of Azadi Ka Amrit Kaal organized two days Seminar and Play on Persona and Literary Contribution of S. Devinder Singh Vishvanagrik in the field of Punjabi poetry. Dr. Manjinder Singh, Head, Deptment of Punjabi, Guru Nanak Dev University, Amritsar was the special guest on this occasion. A large number of intellectuals, writers, research scholars, students and others attended the Seminar. Dr. Sukhwinder Singh, HoD, Punjabi, Guru Nanak Dev University College, Sujanpur (Punjab was the Keynote Speaker.
- Guru Nanak Chair, Department of Punjabi, University of Jammu under Azadi ka Amrit Kaal organized a one-day national Seminar on 'Guru Nanak Dev Ji Di Bani Di Samkali Parsangikta'. Prof. Sarabjeet Singh, Chairperson, School of Punjabi Studies, Panjab University, Chandigarh was the Keynote Speaker.

## DEPARTMENT OF SANSKRIT

Department of Sanskrit was established in the year 1963 under the affiliation of University of Jammu and Kashmir with a soul objective to promote Sanskrit in different sections of society. Later on, the Department got spitted into two universities. In the beginning, Department has only two teachers however, was increased to four in the next decade. According to U.G.C. Sanskrit Department of University of Jammu is one of the prestigious Departments since its inception, in north India. The Journey to the pinnacles of success of Sanskrit Department is owed to Professor Ved Kumari Ghai, Late Prof. Shambhu Nath Sharma, Prof. Kaushalya Walli, Prof. Ramprat, Late Prof. Mahesh Sharma, Dr. Uma Pandey and Prof. Jagir Singh. (Superannuated on Jan. 2010). Prof. Purshottam Sharma (April 2013), Prof. Sharada Gupta (Oct. 2013). The Faculty is Sincerely engrossed for the upliftment of teaching as well as research standards of the Department Several research projects in collaboration with International and National agencies have been got successfully completed by the teachers named Prof. Purshottam Sharma, Prof. Ramnika Jalali, Prof. Keadr Nath Sharma, Prof. Jagir Singh and Dr. Rambhadur Shukla. The Department is following the U.G.C. syllabi for the teaching of post graduate classes. Four specialization groups are being run in the department as literature and poetic, Epigraphy, Philosophy and linguistics. At present CBCS pattern is being followed. The syllabi for M.Phil. and Ph. D. level is framed according to NET syllabus based on UGC syllabi. A phonetic has been initially started in 1986 and established since 1997 for phonetic studies.

### Programmes offered by the Department:

- M.A.
- Ph.D
- Certificate Course on Jyotisha and Karmakanda
- Certificate Course on Learning of Sharada Script

### Interdisciplinary Programmes offered and details of departments/disciplines involved:

- Two Courses offered in 3<sup>rd</sup> & 4<sup>th</sup> Semester
- 04 Credits each for the students of other disciplines.
- Arts, Social Sciences and Sciences disciplines are involved.

### Recognition/Accreditation of the programmes offered by the department (other than University):

Nil

### Thrust Areas of Teaching and Research

- Sanskrit Literature: Prose, Poetry, Drama.
- Indian Philosophy
- Kashmir Shaivsim
- Linguistics
- Epigraphy
- Ved & Vyakarana
- Jyotisha & Vastu

## Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Prof. Ram Bahadur Shulka	D.Phil.	Professor & HoD	Poetics, Philosophy, Jyotish & Shastras	23
Prof. Sushma Devi	Ph.D.	Professor	Indian Poetics, Epigraphy, Linguistics & Natya-Shastra & Vastu Shastras	26
Dr. Vidhyadhar Singh	Ph.D.	Assistant Professor	Sanskrit Grammar, Linguistics, Vastushastra, Poetics	15
Dr. Satyapriya Arya	Ph.D.	Assistant Professor	Grammar, Vedas, Philosophy and Linguistics	12
Dr. Priyanka Arya	Ph.D.	Assistant Professor	Grammer, Vedas and Sanskrit Literature	

## Contractual Faculty in the Department

Name	Qualification	Experience in Years
Dr. Umesh Paudel	Ph.D.	06
Dr. Prince Sharma	Ph.D.	06
Dr. Kamni Sharma	Ph.D.	03
Dr. Pankaj Sharma	Ph.D.	01

**Research Projects including international projects and national collaborative projects (Ongoing):**  
Nil

**Research Projects including international projects and national collaborative projects (Completed):**  
Nil

## Details of Publications:

Name of the Author	Title of the Paper/s
Dr. Tirtharaj Bhoi	<ul style="list-style-type: none"><li>• Sculptures and Monuments of Jammu: The Mute Spectators of Ancient History.</li><li>• Animal Representation in the Sculpture of Jammu Region: Insight from Temple and Baoli.</li><li>• Environment in India: A Study of Continuity and Changes of Forest in Dandakaranya.</li></ul>

## Activities/Events organized by the department:

- Department of Sanskrit under the theme of Sanskrit Mahakavi Jayanti organized Maharshi Ved Vyas Jayanti. A Shloka Citation competition from Mahabharata was also

organized in which 30 participants from various departments of the University participated.

- Department of Sanskrit celebrated Geeta Jayanti. More than 30 students from various colleges of Jammu participated in the Shloka Recitation competition.



## DEPARTMENT OF URDU

The Department of Urdu was established in the year 1965 as a full-fledged Department of the Jammu Division of the erstwhile University of Jammu & Kashmir. At the initial stages of existence, the Department was threatened by the non-availability of students and scholars and as such University Council had therefore to allow Department to run its classes in the evening. This shift to the evening timing also enhanced the number of the students. With the passage of the time, research gained momentum and in 1972, the first scholar of the department was awarded Ph.D. Prof. Gian Chand Jain, Internationally known scholar of Urdu language, he was also the first Head of the Department and Prof. J.N Azad, later on glorified this Department internationally.

### Programmes offered by the Department

- M.A.
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):** Nil

### Thrust Areas of Teaching and Research

- Shayeri
- Fiction
- Translation
- Journalism
- Criticism

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Shohab Inayat Malik	Ph.D	Professor	Urdu Literature in J&K, Classical Poetry	34
Dr. Mohd Reyaz Ahmed	Ph.D	Professor	Urdu Fiction , Literary Movements and Trends, Urdu Criticism, Classical Fiction	22
Dr. Chaman Lal	Ph.D	Assistant Professor	Classical Literature, Urdu Fiction, Urdu Drama	13
Dr. A.R. Manhas	Ph.D	Assistant Professor	Urdu Literature in J&K, Urdu Fiction, Urdu Non Fictional Prose	13
Dr. Farhat Shamim	Ph.D	Assistant Professor	History of Urdu language and Literature, Urdu Ghazal , Urdu Short Story	12



### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Abdul Qayoom	Ph.D.	05
Dr. Javaid Ahmad Shah	Ph.D.	03
Dr. Ajaz Ahamad	Ph.D.	03
Dr. Parshotam Paul Singh	Ph.D.	4.5

**Research Projects including international projects and national collaborative projects: Nil**

### Details of Publications:

Name of the Author	Title of the Paper/s
Prof. Shohab Inayat Malik	<ul style="list-style-type: none"><li>• Munfrad Lab o Lehjay Ka Shayar Rahat Indori.</li></ul>
Dr. Chaman Lal	<ul style="list-style-type: none"><li>• Ibn-e-Nishati Aur Unka Fann.</li><li>• Jammu-O-Kashmir Ki Adbi Riwayat Aur Brij Premi.</li><li>• Marsia Ek Jaiza.</li></ul>
Dr. Farhat Shamim	<ul style="list-style-type: none"><li>• Saghr e Adab.</li><li>• Mushaira: Urdu Zaban Ka Maqbool-e-Aam tahzibi-O-Saqafat Idarah.</li><li>• Chotha Ka Joor ek Tuzyee.</li><li>• Jadded Urdu Afsana ek Mutala.</li><li>• Hamidi Kashmiri aur rahguzar-dar-rahguzar.</li><li>• Chawthi Ka Jooda Ik Jaiza</li><li>• Jigar Muraad Aabadi Shakas aur Shair.</li><li>• Taraqi Pasan Tehreek aur Faiz Ahmad Faiz.</li></ul>
Dr. Mohd. Reyaz Ahmed	<ul style="list-style-type: none"><li>• Ishtiyar aur Urdu Dastan.</li></ul>

### Awards/Fellowships:

- Prof. Shohab Inayat Malik, Professor of Urdu University of Jammu was honoured by the Department of Arabic, Persian & Urdu of Madras University, Chennai for his contribution to Language & Literature.

### Activities/Events organized:

- Department of Urdu organized educational tour for the Research Scholars and Students of the department at J&K Dharmarth Trust Shri Raghunath Temple Library, Jammu. The Research Scholars and students examined books written in Sanskrit, Hindi, English, Persian, Brahmi, Sarada, Ladakhi etc. especially books and manuscripts of Vedic Sanskrit such as Rig Veda, Yajurveda, Samaveda, Atharvaveda, Upanishadas, Puranas, Shrimad Bhagwat Gita, Ashth Adhyaya, Rajatarangni etc.
- Department of Urdu organized a one day seminar on "Intellectual Property Rights" in connection with the Azadi Ka Amrit Mahotsav. Prof. R.D. Sharma, Ex Vice Chancellor,

University of Jammu and Prof. Sanjay Gupta, Professor, Department of Law, University of Jammu were the Keynote Speakers.



## **DEPARTMENT OF JOURNALISM & MEDIA STUDIES**

The media industry's growth especially driven by technological advances coupled with acceleration given to people's participation in governance process has fuelled the urgency to develop a human resource in the form of communication and media practitioners who can bring more thought and societal orientation to demonstration of skill and technique. The Department of Journalism and Media Studies Department, University of Jammu is dedicated to providing comprehensive education and training in the field of Journalism and Mass Communication. Established in 2022, the department aims to meet the growing demand for skilled media professionals. The department offers a postgraduate program, which are designed to equip students with theoretical knowledge and practical skills in areas such as news reporting, media production, digital journalism, and communication research. Such study programmes are required which can build theoretical insight and scholarship about core subjects and simultaneously encourage an intuitive understanding of critical global and local issues. Various communication professions rely on the "cultural values and epistemology" as well as the technical skills, the knowledge and aesthetic sensibility of their practitioners. Communication training, thus, requires more than technical knowledge and skills in its practitioners. Those who practice the profession need an "internally organized body of knowledge" which reflects a clear understanding of their society and culture and a personal repertoire of intellectual and imaginative skills. The department has a faculty of experienced academicians and industry professionals who bring valuable insights into the classroom. Students have access to modern facilities, including state-of-the-art studios, computer labs, and media equipment, ensuring they receive hands-on training that aligns with current industry standards. In addition to academic courses, the department emphasizes extracurricular activities and industry interactions. Workshops, seminars, guest lectures, and internships are integral components of the curriculum, providing students with opportunities to engage with media practitioners and gain real-world experience. The department undertakes many activities, like publishing the quarterly newsletter JU Post in four major languages of the region, viz English, Hindi, Dogri and Urdu to ensure practical knowledge of the students. The students also actively participate in maintaining and running community radio programmes of the University of Jammu. The Department is committed to promoting a dynamic learning environment that encourages critical thinking, creativity, and ethical practices in journalism. Through its program, the department aims to produce competent and responsible media professionals who can contribute positively to the media landscape.

### **Programmes offered by the Department**

- M.A.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Nil

### **Thrust Areas of Teaching and Research**

- S
- d
- f
- f
- f

### **Faculty Profile**

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Garima Gupta	Ph.D	Professor & HoD	Creative Writing, Communication Skills, Folklore Studies and Translation	16

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Pardeep Singh Bali	Ph.D.	
Ms. Kumerjit Chajgotra	M.A.	

#### Activities by the Department:

- Department of Journalism and Media Studies in collaboration with Dean Student Welfare, University of Jammu under Trans-Disciplinary Lecture Series organized a lecture on "Innovation in the Context of University Education". Padma Shri, Prof. Dinesh Singh, Former Vice Chancellor, University of Delhi, Hon'ble Chancellor, K.R. Manglam University, Vice Chairman, Jammu & Kashmir Higher Education Council was the Keynote Speaker.
- Department of Journalism and Media Studies in collaboration with National Institute of Social Defense (NISD), Ministry of Social Justice and Empowerment, Government of India organized one-day workshop on "Transgender: Representation & Reality". Shri Dinesh Manhotra, Secretary General, Press Club of Jammu; Advocate Shakeel Ahmed and Advocate Dinesh Chauhan were the Resource Persons. The Workshop was attended by more than 200 participants from Cluster University, Jammu; IIMC; Central University of Jammu and University of Jammu.
- Department of Journalism and Media Studies in collaboration with the National Institute of Social Defence (NISD), Ministry of Social Justice and Empowerment, Government of India organized a one-day workshop on "Transgender: Representation and Reality".
- Department of Journalism and Media Studies organized two-day workshop on photography, photojournalism and storytelling with a special focus on digital photography. The workshop was conducted by Mr. Shib Narayan Acharya, Photography Officer of Public Relations Office, Ministry of Defence, Jammu. Mr. Acharya is two times national award winning photographer.

The logo of the University of Jammu is a circular emblem. At the top is an atomic symbol. Below it are stylized mountains. In the center is an open book with a lotus flower on top. The emblem is surrounded by text in Hindi and Urdu. A banner at the bottom reads "UNIVERSITY OF JAMMU".

**FACULTY OF BUSINESS STUDIES**

## DEPARTMENT OF COMMERCE

Department of Commerce was established in 1964. The Department is recognized across India and is in the SAP DRS III phase with the thrust area of 'Advances in Marketing'. The Department aims to provide quality education to the students and to make department well-equipped with the latest knowledge and skill required for employment. The teaching and learning pedagogy comprises of class room teaching, quizzes, case studies, presentations, interactive sessions etc. Industrial trips are organized to equip the students with various industrial processes. Guest lectures and placement sessions on contemporary areas of Commerce & Management are also organized to create awareness and enhance students' educational experience. The Department has a spacious library with a rich collection of 7335 books pertaining to all functional areas of business. Under the financial assistance of SAP (Special Assistance Programme), the Department has developed a computer lab equipped with 13 computer systems with a server, online UPS, two projectors and internet facility. Students are placed as Assistant Professors in J&K Higher Education, Assistant Directors & Statistical Assistants in Directorate of Economics & Statistics, Bank officials, BSNL, Semi Government and Corporate sector.

### Programmes offered by the Department:

1. M.Com.
2. Ph.D.
3. Post-Graduate Diploma courses under self financing mode
  - a. P.G.Diploma in Marketing and Sales Management
  - b. P.G. Diploma in Banking and Risk Management\*

*\*Collaboration with NSE*

### Thrust areas of Teaching and Research

- Accounting & Finance
- Marketing
- Human Resource Management

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Hardeep Chahal	Ph. D.	Professor	Marketing Management, Services management, Brand Management	29
Dr. Gurjeet Kaur	Ph. D.	Professor	Strategic Marketing, Marketing Research	23
Dr. Jeevan Jyoti	Ph. D.	Professor	Strategic HRM and Entrepreneurship	17
Dr. Tarsem Lal	Ph. D.	Associate Professor	Accounting and Finance	16
Dr. Jyoti Sharma	Ph. D.	Associate Professor	Marketing Management, Services Marketing	12
Dr. Sunil Kumar	Ph. D.	Assistant Professor	Marketing Management and Taxation	12
Dr. Harleen	Ph.D.	Assistant Professor	Human Resource Management and Finance	08

### Contractual Faculty in the Department

Name of the Faculty Member	Qualification	Experience in Years
Dr. Rupa Mahajan	Ph.D.	07
Dr. Vishal Gupta	Ph.D.	06

**Research Projects including international projects and national collaborative projects: Nil**

### Details of Publications:

Name of the Author	Title of the Paper/s
Prof. Hardeep Chahal	<ul style="list-style-type: none"> <li>• Conceptualising and measuring experiential health-care services: role of consumer involvement.</li> <li>• How operational capability affects hospital performance? Role of environmental turbulence.</li> <li>• Investigating and evaluating multi-level analysis of sustainable business practices in emerging countries.</li> <li>• Revisiting brand performance metrics and its impact on customer loyalty in Indian banking sector: role of relational quality and duration.</li> <li>• Guest Editorial: Investigating and evaluating multi level analysis of sustainable business practices in emerging countries.</li> <li>• Role of Individual Level Culture in the UTAUT: Exploring the Determinants of Intention to use online Shopping.</li> <li>• Omnichannel Integration: Literature Review and Future Research Agenda.</li> <li>• Examining the Impact of Economic Factors on Retirement Planning Behaviour of Salaried Employees</li> <li>• Investigating and evaluating multi-level analysis of sustainable business practices in emerging countries.</li> </ul>
Prof. Jeevan Jyoti	<ul style="list-style-type: none"> <li>• Investigating and evaluating multi-level analysis of sustainable business practices in emerging countries.</li> <li>• Fun at workplace and intention to leave: role of work engagement and group cohesion.</li> <li>• Memorable Tourism Experiences (MTE): Integrating Antecedents, Consequences and Moderating Factor.</li> <li>• Guest Editorial: Investigating and evaluating multi level analysis of sustainable business practices in emerging countries.</li> <li>• Cross-cultural training and adjustment through the lens of cultural intelligence and type of expatriates.</li> </ul>
Prof. Gurjeet Kour	<ul style="list-style-type: none"> <li>• Will teachers continue to teach online post-COVID-19?</li> <li>• New product innovations in times of crisis: How did women entrepreneurs survive the COVID-19 crisis?</li> <li>• Assessing co-creation based competitive advantage through consumers' need for differentiation.</li> <li>• Fostering engagement among emotionally exhausted frontline</li> </ul>

	<p>employees in financial services sector.</p> <ul style="list-style-type: none"> <li>• Who Gets the Money? Strategic Orientations and Resource Attraction by Not-for-Profit Organizations.</li> </ul>
Dr. Sunil Kumar	<ul style="list-style-type: none"> <li>• Shifting balance of power and the formation of AUKUS in the Indo-Pacific region.</li> <li>• NeoBanks: Future Prospects, Challenges and Strategies.</li> <li>• The Role of COVID-19 in Popularising Travel Insurance in Post-Pandemic Era.</li> <li>• Estimation of population mean in cluster sampling over successive sampling in the presence of non response.</li> <li>• Exploring academic dishonesty among university students: University of Jammu, India.</li> <li>• Assessing the effect of nonresponse and measurement error using a novel class of efficient estimators.</li> <li>• Using randomized response to estimate the population mean of a sensitive variable under the influence of measurement error.</li> <li>• Estimation of Population Mean of a Sensitive Variable Using Randomized Response Technique Under Two-Phase Sampling.</li> <li>• A general class of estimators in the presence of non-response and measurement error.</li> </ul>
Dr. Tarsem Lal	<ul style="list-style-type: none"> <li>• Examining the Impact of Economic Factors on Retirement Planning Behaviour of Salaried Employees.</li> <li>• Impact of Economics and Finance, 3(1), 121-142. Demographic Factors on Usage of Financial Services by Marginalised Communities through Financial Inclusion.</li> <li>• Perception of Rural Households with Regard to Service Quality of Cooperative Banks in J&amp;K.</li> <li>• Indicator Free Intraday Trading Strategy for Generating Return from Investment in the Stock Market.</li> <li>• Impact of Demographic Factors on Usage of Financial Services by Marginalised Communities through Financial Inclusion.</li> <li>• Measuring Impact of CAMELS Models on Financial Performance of Indian Commercial Banks.</li> <li>• Impact of Microcredit on Financial Well-being of Poor Households.</li> <li>• Investigating Perception of Rural Households with Regard to Service Quality of Cooperative Banks in J&amp;K.</li> </ul>
Dr. Harleen	<ul style="list-style-type: none"> <li>• Decoding the factors impacting the dynamics of digital payment service adoption in MSMEs.</li> <li>• A discourse on role of digital payments adoption to drive MSMEs towards the attainment of sustainable advantage.</li> </ul>

**Activities/Events organized:**



- Department of Commerce (SAP-DRS III) organised two-day workshop on Structural Equation Modelling: Skill-Enabled Learning. Dr. Neeraj Kaushik, Head, Department of Business Administration, National Institute of Technology, Kurukshetra was the Resource Person. The participants were given hands-on sessions for running data analysis on AMOS and SmartPLS version 4.
- Department of Commerce visited Panchayat Rajpur Koular of Tehsil Bari- Brahamana, District Samba under its extension and outreach programme to distribute ration kits and other essential items among needy families especially the differently-abled people and widows who were unable to send their children to the school. The distribution of the essential kits is an attempt to express the support and solidarity of the department with the poor and needy families.
- Department of Commerce conducted an outreach programme at Government Middle School Kotli (Birpur), District Samba.
- Department of Commerce under outreach and extension activities programme visited Government Middle School Kotli (Birpur), Zone Vijaypur to appreciate the academic performance of students in recently held exams. The meritorious students from classes 5<sup>th</sup> to 8<sup>th</sup> were awarded scholarships and certificate distribution program was also organized in the aforesaid school. The scholarship in the form of cash award and certificate of appreciation were given to the position holders. Six teachers of the school were also given certificates of appreciation for their true and selfless service as nation builders.
- Department of Commerce in collaboration with Government College of Engineering & Technology (GCET) Jammu under the banner of Azadi Ka Amrit Mahautsav organized one-day workshop on “Business Model Canvas”. Dr. Harleen Kaur and Dr. Rupa Mahajan from University of Jammu were the Resource Persons.
- Department of Commerce organized a lecture for the students of the department on “Gender Inequality: A Legal Perspective on Equal Opportunity Legislation”. Dr. Monica Narang Associate Professor, The Law School, University of Jammu was the Resource Person. Dr. Narang apprised the students on sociological aspects of gender inequality and equal opportunity legislation prevalent in India. She also threw light on the constitutional provisions and recent developments in Indian law.

## **THE BUSINESS SCHOOL**

The Business School (TBS), University of Jammu (SAP DRS-II Department) earlier known as Department of Management Studies started its two-year full time Master Degree Programme in Business Administration (MBA) in the year 1986. Since the past more than 30 years, TBS has successfully made its mark in the field of management education and has earned prestigious credentials from various pioneer agencies like Association of Indian Management School (AIMS), The Week Hansa Research, Marketing and Development Research Associates (MDRA), India Today, Business Today, Dewang Mehta etc. These awards and recognitions constantly strengthen the acknowledgement of the Department's constant endeavour of building up its capabilities to generate and share knowledge that contributes significantly towards the institution building. The faculty members of TBS have also played an important role in the acclamations as they have internationally published research to their credit. The Business School has also focused attention on programmes like Management Development Programme for management executive in various corporates, Entrepreneurship Development Programme amongst the students and budding entrepreneur and Social Immersion Programme as an extension activity. Continuing with the tradition of striving for excellence, The Business School has achieved various awards and recognitions where the most recent ones are 5<sup>th</sup> in government institutes in North and 21<sup>st</sup> across India (The Week, October 2017) and 9<sup>th</sup> in ROI across India (Business Today, November 2017).

### **Programmes offered by the Department:**

- MBA
- PGDBM
- Ph.D.

### **Interdisciplinary Programmes offered and details of departments/disciplines involved:**

- Open courses offered by Department: PSMBATC110- Fundamentals of Management, PSMBATC211- Innovation & Entrepreneurship.
- Departments of which students come to The Business School for open courses: Physics Department of Computer Science, Education, English, ICCCR & HRM.
- Departments in which our students go for open courses: English, ICCCR & HRM, Chemistry and Physics.

### **Recognition/Accreditation of the programmes offered by the department (other than University):** AICTE

### **Year of validity of Recognition/Accreditation: 2018**

### **Thrust Areas of Teaching and Research:**

- Marketing
- Finance
- Human Resource Management
- Operations & Information Technology Management
- Tourism Management Entrepreneurship
- Supply Chain Management

## Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Vinay Chauhan	Ph.D.	Professor & Director	Tourism Management & Marketing	21
Prof. Neelu Rohmetra	Ph.D. Post Doc (UK), IVLP (USA)	Professor	HRD, OB, Cross Culture Management	34
Prof. Versha Mehta	Ph.D., Post Doc., CEP	Professor	Systems & E-Business	36
Prof. Alka Sharma	Ph.D.	Professor	Marketing	31
Prof. Sameer Gupta	Ph.D.	Professor	Finance	31
Prof. Parikshat Singh Manhas	Ph. D.	Professor	Marketing, E-Commerce, Consumer Behaviour, Communication, Tourism Management, Journal Mgt & HRM, Entrepreneurship	
Prof. Rajendra Mishra	Ph.D., CAIIB	Associate Professor	Human Resource Development, Entrepreneurship and Tourism Management	31
Prof. Amisha Gupta	Ph.D.	Professor	Finance	19
Prof. Anil Gupta	Ph.D.	Professor	Marketing, Strategic Management, Service Marketing	18
Prof. Komal Nagar	Ph.D.	Professor	Marketing	19
Dr. Rachna	Ph.D.	Associate Professor	Marketing & IT	17
Ms. Saloni Devi	MBA	Assistant Professor	Human Resource Management	13
Dr. Farah S Choudhary	Ph.D.	Assistant Professor	Finance & Marketing	12
Dr. Aubid Parrey	Ph.D.	Assistant Professor	Organizational Behaviour, Human Resource Management, Entrepreneurship	10
Dr. Shelleka Gupta	Ph.D.	Assistant Professor	Marketing	18

## Contractual Faculty in the Department

Name of the Faculty Member	Qualification	Experience in Years
Dr. Garima Kohli	Ph.D.	
Dr. Rajani Kumari Sarangal	Ph.D.	

### Details of Research Projects

Name of the Project	Agency	Amount Sanctioned (in Lakhs ₹)	Status (Ongoing/ Completed)
Analysing the Effectiveness of Governance Reforms in Reorganised Jammu and Kashmir	ICSSR	12,00,000.00	Ongoing

**International Projects:** Nil

### Collaborations:

Name of the Collaborating Agency	Year of Collaboration	Status
ICT Academy under JEET	2021	Ongoing
All India Management Association (AIMA)		Ongoing
Indian Institute of Management (IIM)	2008	Ongoing

### Publications:

Name of the Author	Title of the Paper/s
Prof. Vinay Chauhan	<ul style="list-style-type: none"> <li>Historical Progression of Luxury.</li> <li>Investigating the impact of artificial intelligence on consumer's purchase intention in e-tailing.</li> <li>Green Tourism: A study of young consumers in Indian Himalayan settings.</li> <li>Redefining Management with advent of Artificial Intelligence in the current business world.</li> </ul>
Prof. Alka Sharma	<ul style="list-style-type: none"> <li>Exploring antecedents of electronic word-of-mouth in tourism: A case of Tripadvisor.</li> <li>Enhance Customer Engagement via Facebook Fanpage for Increased Purchase Intentions: Case of eWallet.</li> </ul>
Prof. Sameer Gupta	<ul style="list-style-type: none"> <li>Modeling Conditional Volatility and Causality Linkages between Spot and Future Markets of Crude Oil using VECM and GARCH.</li> </ul>
Dr. Amisha Gupta	<ul style="list-style-type: none"> <li>Demographic factors that influence the usage of credit cards: A study of Jammu region.</li> </ul>
Dr. Farah Choudhary	<ul style="list-style-type: none"> <li>In-Store Atmospherics: A Contextual Background Influencing Patronage Intentions.</li> <li>Does visual merchandising affect response behaviour? Role of atmospheric cues in online retailing.</li> <li>Impact of Stock prices fluctuations on Investment Behaviour with relevance to investment analysis in the Indian Stock market.</li> <li>Analysing Online Reviews Using NVivo: A Study of e-Tailing.</li> <li>Exploring antecedents of electronic word-of-mouth in tourism: A case of Tripadvisor.</li> <li>Economic resilience and rationality: A study of Indian stock investors investment decisions and performance.</li> </ul>
Dr. Aubid Hussian Parrey	<ul style="list-style-type: none"> <li>Work from home amid black swan event (Covid-19): A</li> </ul>

	<p>Bibliometric Analysis from a Social Science Perspective.</p> <ul style="list-style-type: none"> <li>• Critical Performance Analysis of Health Insurance Sector during Covid19 outbreak.</li> <li>• Effectuation and Causation Decision-making Logics: Scale Development and Validation.</li> </ul>
Dr. Saloni Devi	<ul style="list-style-type: none"> <li>• Exploring the Moderating Role of Perceived Security between Digital Banking and Online Shopping Behavior.</li> <li>• Opportunities and challenges of work from home during Covid-19 pandemic: A study using systematic literature Review.</li> </ul>
Dr. Rachna Mahajan	<ul style="list-style-type: none"> <li>• The impact of influencer-sourced brand endorsement on online consumer brand engagement.</li> </ul>
Dr. Shelleka Gupta	<ul style="list-style-type: none"> <li>• Understanding the Role of Social Networking Sites in Political Marketing.</li> <li>• The Enhancement of Digital Content Marketing: Insights from Beauty Brands' Consumers.</li> <li>• Specialty Agriculture and Marketing: An Exploration of Linkages through Case Study Analysis.</li> <li>• Agripreneurs and Speciality Cultivation: The Valuable Insights.</li> </ul>

#### Activities/Events organized:

- The Business School (TBS) in collaboration with Anti-Corruption Bureau (ACB) observed Vigilance Awareness Week-2022 with the theme, "Corruption Free India for Developed Nation".
- The Business School organized a corporate lecture on "Innovation & Entrepreneurship" by Dr. Rahul Mirchandani, Chairman and Managing Director, Aries Agro Ltd. Dr. Rahul Mirchandani has 23 years of experience as Director of Aries Agro Limited and was ranked amongst the 30 Most Innovative CEOs in India in 2014.
- The Business School organised a one-week workshop aimed to enhance the professional competencies of MBA students. During the weeklong workshop, a total nine sessions were conducted by various industry experts, leading academicians and motivational speakers within and outside the university namely Mr. Priyanker, HDFC Bank; Mr. Gautam, Chamber of Commerce and Industries; Ms. Swati Basotra, Talkeasytakeeasy; Ms. Geetika Kohli, Thinksta; Prof. Vishav Raksha, University of Jammu; Ms. Maansi Rattan, MG Design School; Mr. Akash Bali, Amazon India; Ms. Jasleen Kaur, Branding Elves; Mr. Aman Talla, Talla Jewellers and Mr. Satish Koul, Emcure Pharmaceuticals Ltd.
- The Business School conducted Businessline Campus Connect lecture series for the students of MBA, PGDBM and Research Scholars. The event was aimed at fostering dialogue and connects between academic and corporate spheres. Mr. Sunil Mirza, GM North, 'The Hindu', was the Resource Person.
- The Business School organized a three-day Management Development Programme (Training the Trainer) on Agricultural Marketing, Post Harvest Management and Export Promotion for the Department of Horticulture Planning and Marketing, Government of Jammu & Kashmir.

Grading and Marketing Inspectors and Assistant Grading and Marketing Officers were trained during the MDP. During the three days of the Management Development Program, various sessions were held on Marketing of Agricultural Produce, Branding and Brand Management for Agricultural and Horticulture products, Digital Branding with special reference to Agricultural products, International Business and Trade Exports, Export Policy, Value Chain and Forward Linkages, and Startup Success Stories of Agripreneurs. Prof. Alka Sharma from The Business School, University of Jammu; Prof. Sudhakar Dwivedi and Dr. Anil Bhat from SKUAST, Jammu; Dr. Supran Kumar Sharma from SMVDU, Katra and Dr. Rajeshwari S M, Director , Project Management Unit , HADP program, Secretariat, Jammu & Kashmir were the Resource Persons.

- The Business School in collaboration with Human Resource Development Centre, University of Jammu and Thapar Institute of Engineering and Technology, Patiala, organized a one-week Faculty Development Programme(FDP) “Train the Trainer” on Outcome-based Learning Pedagogy. More than 40 faculty members from different departments of the University of Jammu and its affiliated colleges attended the FDP. Prof. Tejinder Paul Singh, Head, Department of Mechanical Engineering; Prof. Manmohan Chhibber, School of Chemistry & Biochemistry; Prof. Rajesh Khanna, Department of Electronics and Communication Engineering; Dr. Anoop Verma, School of Energy and Environment; Dr Parag Nijhawan, Department of Electrical and Instrumentation Engineering and Dr. Karminder Ghuman, Chief Coordinator, Science and Technology Entrepreneur’s Park from Thapar Institute of Engineering & Technology (TIET) were the Keynote Speakers. All these trainers were trained by Centre for Academic Practice and Student Learning at Trinity College, Dublin, for 18 weeks and have completed Special Purpose Certificate in Academic Practice (SPCert) and “Train the Trainers” program.
- The Business School organized the interaction session for students of MBA with consultants from Price Water House Coopers (PWC). Dr. Yashpal Malik, Associate Director, Social Sector Division and Abhinav Sharma Manager, Management Consulting Division from PWC were the Resource Persons.
- The Business School initiated a lecture Series on “Indian Ethos and Human Values”, which is in line with the New Education Policy. The first lecture in the series on “The Timeless Wisdom of GITA” was delivered by Prof. Arvind Jasrotia, Professor of Law and Registrar, University of Jammu. Prof. Jasrotia highlighted the importance of Upanishads, GITA and Brahmasutra in creating philosophical ideology that marks the foundation for human values. He further emphasized that GITA has been studied and praised for centuries for its clarity, insight and wealth of spiritual knowledge that forms the guidebook for living a meaningful and joyful life. The spiritual journey from ignorance to knowledge enlightens the path of human beings to create a difference in society.
- The Business School in an effort to enrich the Research Scholars from various functional areas in management organized one-day doctoral workshop on “e-views”. The workshop was conducted by Dr. Ritu Rana, Post Doctoral Fellow at Indian Institute of Management (IIM), who presented in-depth sessions about the E-views software and its application within the discipline of management. More than 50 scholars from different functional areas of management participated in the workshop.

## **SCHOOL FOR HOSPITALITY AND TOURISM MANAGEMENT**

University of Jammu started a two year full time Master's Degree Programme in Tourism Management in the year 2001-2002. The programme was started as a part of the Department of Management Studies. Within four years of its existence, the programme was able to establish its own credentials among the academia and the industry. Looking into the success of the programme, University of Jammu established School of Hospitality & Tourism Management on 27<sup>th</sup> July 2005 that is upgraded to School since 2009, with an objective to develop tourism professionals and promote research. In year 2009, keeping in view the UGC requirements the degree has been renamed as Masters in Business Administration (Hospitality & Tourism). In year 2010, BBA (Hotel Management) course was introduced in the Department to train the student for hospitality sector. Recently, the Department started a new programme of PG Diploma in Global Destination Management. In pursuit of excellence, School of Hospitality and Tourism Management is committed to produce competent professionals, who are dynamic and responsible enough to assume office in various managerial and administrative cadres in various tourism and related organizations. Students from all over the country learn to channelize potential in the right direction and put up concentrated effort, which are well organized and implemented to give practical dimension to the theoretical aspects in Tourism Management.

### **Programmes offered by the Department**

- BBA( Hotel Management)
- MBA(Hospitality and Tourism)
- Post Graduation Diploma in Global Destination Management
- Ph. D.

### **Interdisciplinary Programmes offered and details of departments/disciplines involved**

- Open Choice Course
- Post Graduation Diploma in Global Destination Management
- Global Understanding Course

### **Recognition/Accreditation of the programmes offered by the department (other than University):**

Nil

### **Thrust Areas of Teaching and Research**

- Tourism Management
- Hospitality Management
- Peace Conflict Building
- E-Marketing
- Hotel Management
- Responsible Tourism

### **Faculty Profile**

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Anil Gupta	Ph.D	Profesor & Director	Marketing, Strategic Management, Service Maketing	18
Prof. Parikshat Singh Manhas	Ph.D.	Professor	Marketing, E- Commerce, Consumer Behavior, Communication, Tourism Management, Entrepreneurship	
Dr. Suvidha Khanna	Ph.D	Assistant Professor	Tourism & Hospitality Management	15

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Poonam Sharma	Ph.D.	
Dr. Priyanka Sharma	Ph.D.	
Dr. Nikita Dogra	Ph.D.	
Dr. Rajesh Singh	Ph.D.	
Dr. Honeyka Mahajan	Ph.D.	
Mr. Tapas Tandon	Ph.D.	

#### Details of Research Projects

Name of the Project	Agency	Amount Sanctioned	Status(Ongoing / Completed)
Comprehensive Tourism revival Framework for socio-economic Development in Post-Conflict Kashmir; Lessons from Northern Ireland	UGC Major Research Project and British Council	₹ 30 Lakhs (approx)	Ongoing

#### Publications:

Name of the Author	Publication
Prof. P. S. Manhas	<ul style="list-style-type: none"> <li>Investigating the Relationship between Experience, Well-Being, and Loyalty: A Study of Wellness Tourists.</li> <li>An Examination of the Effect of Tourist Emotional Experience on Place Attachment.</li> <li>Cross-Cultural Diversity in Tourism Business Operations: Finding Space for Strategic Partnership amongst the Nations (India-Eu).</li> <li>Impact of Ceasefire Violation on Tourism and Local Community in Jammu and Kashmir (UT).</li> <li>Impact of Hotel Service Quality Dimensions on Hotel Brand Image and Guest Repeat Patronage.</li> </ul>
Prof. Anil Gupta	<ul style="list-style-type: none"> <li>Exploring the Switching Intention of Patients to Online Health Consultations Platforms: Blending Inertia with Push-Pull-Mooring</li> </ul>



	<p>Framework.</p> <ul style="list-style-type: none"> <li>• It's Not Just About Money in Peer-To-Peer Accommodation: Examining Residents' Intentions Using Motivation-Opportunity-Ability Theory.</li> <li>• Switching to Peer-to-Peer Accommodation (P2PA) amidst pandemic: An Extended Push-Pull-Mooring Model Perspective from Emerging Economy. Submitted to Journal of Hospitality and Tourism Management.</li> <li>• User Attitude Towards E-learning Platforms: An Insight through the Expectation Confirmation Model and the Affordance Theory Lens.</li> <li>• Are millennial travelers ready to switch to branded hostels? Empirical investigation using push-pull-mooring model.</li> </ul>
Dr. Suvidha Khanna	<ul style="list-style-type: none"> <li>• Application of the Extended Theory of Planned Behavior to Street Food Consumption: Testing the Effect of Food Neophobia among Indian Consumers.</li> <li>• Evaluation of Customer Satisfaction and Behaviour Intension using Expectation confirmation theory: A Study of Home Cooked Food in North India.</li> </ul>

#### Activities/Events organized:

- A fireless cooking competition “डोगरेंदाखान-पान! डोगरेंदामान!” with an objective to create awareness about the local cuisines and culture. Students of different colleges participated in the fireless cooking competition.. The students were asked to prepare any food item which was a fusion of local and any other culture but its presentation reflected local culture. All the teams presented the delicacies representing various cultures. The competition was adjudged by Dr. Sarika Manhas, Associate Professor, Department of Home Science, University of Jammu; Dr. Rajinder Singh Chib, Lecturer, Food Craft India and Mr. Vishal Saproo, Executive Chef, Lemon tree, Jammu. A Kite Flying event was also organized after the competition.
- An educational day trip to Pauni, Reasi for the students of MBA (HT) and BBA (HM) under the supervision of Prof. Parikshat Singh Manhas, Director-SHTM. The students attended Ati Vishnu Mahayagya which was arranged by Sant Sri Bal Yogeshwar Das Ji Maharaj to pay homage to the great martyrs who have sacrificed their lives in the service of the country. The students also got the opportunity to witness Armed Forces Flag Day celebration at Pouni, Reasi.

**INTERNATIONAL CENTRE FOR CROSS CULTURAL RESEARCH AND HUMAN  
RESOURCE MANAGEMENT  
(ICccR & HRM)**

International Centre for Cross Cultural Research and Human Resource Management (ICccR & HRM) was established in the University under the aegis of Faculty of Business Studies (erstwhile Faculty of Management Studies) vide Order No: Coord/res./67-UC/08/4833 dated 26.03.2008 vide University Council Resolution No: 67.124 in its meeting held on 25.02.2008 with Professor Neelu Rohmetra (presently, Director, IIM, Sirmaur (HP), as the founder Director. The mission of the Centre reads as: "Developing People with Ultimate Flexibility". The International Centre (ICccR & HRM) seeks to promote education, research, training and consultancy in the area of Cross-Cultural Management / International Management / International Business and Human Resource Management. The broad spectrum of activities in the International Centre revolve around promoting cooperation in education and research; run Post-Graduate Degree / Diploma /Certificate Programmes besides Doctoral Research in the area of Cross-Cultural Management; organize visits and exchange programmes; organize seminars /workshops /conferences in the discipline, and conduct Management Development Programs/Trainings etc.

The International Centre also seeks to undertake activities to promote education, research, training and consultancy in the area of International Business and Management, Cross-Cultural Management and International Human Resource Management. ICccR & HRM is presently undertaking to inculcate an entrepreneurial spirit amongst the students.

**PROGRAMME/COURSES OFFERED:**

- i) MBA: International Business MBA(IB) (2-Year, 136 Credit Programme spread across four semesters)
- ii) PG Diploma in Composite Culture Management (PGDCCM) (1- Year Programme spread across two semesters) offered through JUET.
- iii) 3-months' Certificate Courses (as per enrolment and viability)
  - Cross-Cultural International Management
  - Human Resource Management Practices and Labour Laws
  - Certificate Course in Business Communication Skills
  - Certificate Course in Entrepreneurial and Project Management Skills
- iv) PhD Programme in International Business

**Interdisciplinary Programmes offered and details of departments/disciplines involved:**

The PG Diploma in Composite Culture Management is an interdisciplinary Programme which was initially offered under the 'UGC Innovative Programme - Teaching and Research in Interdisciplinary and Emerging Areas' from 2012-2017.

**Recognition/Accreditation of the programmes offered by the department (other than University):**

MBA (International Business) Programme is an AICTE approved Programme.

**Thrust Areas of Teaching and Research:**

- International Business
- Leadership issues across Cultures
- Enterprise and Entrepreneurship

- Gender and Cultural Studies
- Multiculturalism and Innovation
- Cross-Cultural Communication/ Intercultural Negotiations
- Knowledge Creation and Transfer
- Cross-Cultural Competencies and Organizational Management
- Organization Climate and Work Ethics
- Diversity Management Studies
- Global Careers

### Faculty Profile

Name	Qualification	Designation	Specialization	No. of years of Experience
Prof. Deepak Raj Gupta	Ph.D.	Director, ICccR & HRM	Marketing, Tourism & Rural Marketing and Statistical Methods	
Dr. Pallvi Arora	Ph.D	Assistant Professor	Human Resource Management, OB, Cross-Cultural Management, Cultural Studies & Marketing	11
Dr. Isha Sharma	Ph.D	Assistant Professor	Human Resource Management, Marketing Management and Strategic Management	10

### Contractual Faculty in the Department

Name of the Faculty Member	Qualification	Experience in Years

### Publications:

Name of the Author	Publication
Dr. Isha Sharma	<ul style="list-style-type: none"> <li>• Embedded Traditional Roles vs Emergent Academic Context: Relooking the Transition.</li> <li>• Influential Factors Determining Work-integrated Learning: Evidence from Adoption of Experiential Learning Approaches.</li> <li>• Assessing the effectiveness of post graduate HRD curriculum in higher educational institutions: a case reflection of Indian students in HEIs.</li> <li>• Mind the Gap Bridging Theory and Practice in a post- Covid Era.</li> <li>• Do Entrepreneurial Learning Impacts Innovation? Examining the Relationship in Context of Indian Academia.</li> </ul>

## Healthy practice/practices of the Department, which Department wants to highlight

International Centre for Cross Cultural Research and Human Resource Management has started an in-house 'Mentorship Program' with the objective of creating a rich and holistic learning experience for mentees (students) through the faculty (mentors). It acts as a facilitator for exchange of knowledge and ideas, sharing of interests as well as working towards the professional development of the participants. Also, the Management Club activities alongwith the Self-Development Exercises are a significant feature at ICcCR & HRM, University of Jammu aimed at the transformative personal development of the students.





## DEPARTMENT OF EDUCATION

Department of Education was established in the year 1973. Initially, the Department had started M.Ed. class of one year with an intake capacity of 25 students along with one Professor and four lecturers. Later on another class of M.A. Education of two-years was started in 1978 with an intake capacity of 50 students. The distinguishing feature of Department is that DRS-II has been granted to it under Special Assistance Programme (SAP) by UGC in the year 2018-23 for the Period of five years i.e. up to 2023. The department promotes research culture through M. Phil and Ph. D programmes. Many students of the Department have cleared UGC-NET/JRF and have been absorbed in various teaching departments of the State as well as Central Government. The educational programmes of the department are innovative and methodologically unique. The department provides quality teaching, practical experience, School internship and a unique chance to share and develop the vision, knowledge, initiative and critical thinking needed to meet professional challenges and community needs. Moreover, the Department also initiated to train Teacher Educators of different colleges of education affiliated to University of Jammu on constructivist approach and also adopted Government Girls Higher Secondary School, Satwari, Jammu to develop it as a Model institution of Excellence in the Region.

### Programmes offered by the Department:

- MA (Education).
- M. Ed.
- Ph.D.

**Interdisciplinary Programmes offered and details of Departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research:

- Special Education
- Curriculum Studies
- Teacher Education

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Renu Nanda	Ph.D	Professor	Teacher Education, Non-Formal Education, Educational Technology	26
Prof. Rajeev Rattan Sharma	Ph.D	Professor	Comparative Education, Cross-Socio-Cultural Studies, Application of ICT in Teaching Learning Process	31
Dr. S.K. Panda	Ph.D	Assistant Professor	Educational research and Statistics, Educational Measurement and Evaluation, Contemporary Issues in Education, Distance Education	17

Dr. Kajal Devi Manhas	Ph.D	Assistant Professor	Special Education, Psychological Foundation of Education, Teacher Education	20
Ms. Minakshi Chaudhary	MA (Education & Hindi) M.Ed.	Assistant Professor	Educational Technology, Research Methodology	10

#### Contractual Faculty in the Department

Name of the Faculty Member	Qualification	Experience in Years
Dr. Ana Bali	Ph.D.	05
Dr. Sheetal Sharma	Ph.D.	04
Dr. Anuradha	Ph.D.	06
Dr. Upasana Sharma	Ph.D.	10
Dr. Minakshy Sharma	Ph.D.	06

#### Research Projects including international projects and national collaborative projects (ongoing):

Number of Ongoing Projects	Value of Ongoing projects	Total number of Teachers	Number of ongoing research projects per teacher	Value of ongoing projects per teacher
03	60.10 Lacs	05		

#### Research Projects including international projects and national collaborative projects (Completed): Nil

#### Details of above mentioned projects

Name of the Project	Agency	Amount Sanctioned	Status (Ongoing/Completed)
Explorative Study on Undergraduate Curriculum through the Lenses of National Educational Policy (NEP) 2020 with reference to University of Jammu	University of Jammu (Under Research & Seed Grant)	100000.00	Ongoing
Reviving the Indigenous Wisdom : Preserving and Promoting Dogri Language, Folk Songs and Folklores for Cultural Continuity	University of Jammu (TDRS)	410000.00	Ongoing
UGC-SAP	UGC	5500000.00	Ongoing

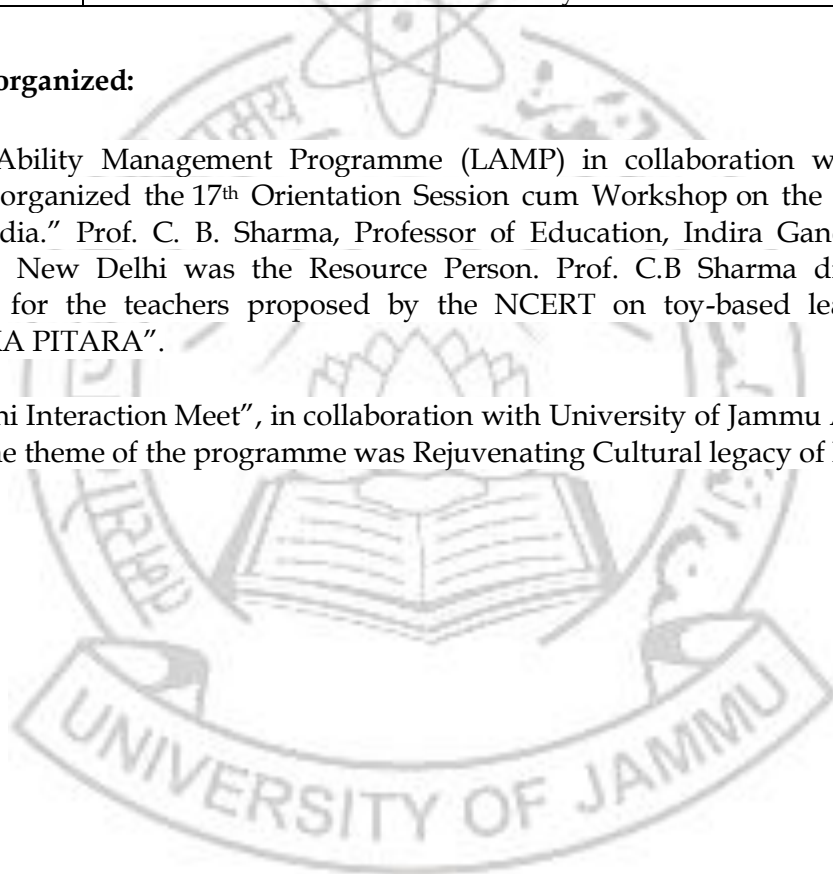
#### Details of Publications:

Name of the Author	Title of Paper/s
Prof. Renu Nanda	<ul style="list-style-type: none"> <li>Learning English through theatre and drama: The road less travelled.</li> <li>Reforms in English textbooks in schools of Jammu district.</li> <li>ICT initiatives for the preparation of teacher educators in J&amp;K for 21st century skills.</li> <li>Reinventing curriculum for teacher education in pursuance of NEP 2020: Concerns and Prospects.</li> </ul>

	<ul style="list-style-type: none"> <li>• Development of life skills through various forms of folklore pedagogy at elementary level of education.</li> <li>• TALASH Abhiyan a first of its kind reform movement for fulfilling the goal of Right to Education.</li> <li>• Abrogation of Article 370 and 35A: Elementary Education in Jammu district of Jammu &amp; Kashmir.</li> </ul>
Dr. S. K. Panda	<ul style="list-style-type: none"> <li>• Role of Information and Communication Technologies (ICTS) in Promoting Learning Environment in Classroom.</li> <li>• Implementation of Rashtriya Uchchar Shiksha Abhiyan (RUSA) in Promoting Higher Education in Jammu and Kashmir.</li> <li>• Essentiality of Special Education and Disability Management as Inclusive Policy in Teacher Education.</li> <li>• Status and Functioning of Govt. Pre Primary Schools in Jammu District- An Evaluative Study.</li> </ul>

**Activities/Events organized:**

- Learner's Ability Management Programme (LAMP) in collaboration with Department of Education organized the 17<sup>th</sup> Orientation Session cum Workshop on the theme "Indigenous Toys of India." Prof. C. B. Sharma, Professor of Education, Indira Gandhi National Open University, New Delhi was the Resource Person. Prof. C.B Sharma discussed about the Handbook for the teachers proposed by the NCERT on toy-based learning and named it "JADU KA PITARA".
- An "Alumni Interaction Meet", in collaboration with University of Jammu Alumni Association (UJAA). The theme of the programme was Rejuvenating Cultural legacy of India".





## DIRECTORATE OF SPORTS AND PHYSICAL EDUCATION

The Directorate of Sports and Physical Education was established in the University in the form of a Directorate with no academic Courses being conducted by it. The primary objective of the Directorate was to monitor and conduct Inter- Collegiate tournaments in various disciplines and ensure participation of University of Jammu Teams in Zonal and All India Inter- University Championships. The Campus Sports Activity was convened by the P.T.I Campus who worked under the direct supervision of the Chairman Campus Sports Committee and entrusted with the responsibility of conducting the Inter-Departmental Sports Competitions and prepare teams of the various P.G. Department for participation in the Inter Collegiate Championships.

The Directorate also becomes an Academic Department in the Session 2002-03 with the introduction of the B.P.Ed. Professional Course of one year duration and M.P.Ed. professional course of two years duration in the session 2007-08. Whereas, the Yoga Centre also merged with the Directorate from the session 2015-16. The vision of the Directorate is in the line with the quality policy of the University. The Directorate of Sports and Physical Education aspires to make the University of Jammu a Centre of Sports and attain academic excellence in the country.

### Programmes offered by the Department

- B.P.Ed. Course (Two years) Semester System
- M.P.Ed. Course (Two years) Semester System
- One Year P.G. Diploma in Yoga

### Thrust Areas of Teaching and Research

- Sports
- Games
- Physical Education

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Daud Iqbal Baba	Ph.D.	Director		
Dr. Mandeep Singh	Ph.D.	Assistant Professor	Biomechanics	14
Sh. Vimal Kishore	M.P.Ed.	Assistant Professor	Sport Psychology	
Sh. P.D.Singh	M.P.Ed.	Sports Supervisor	Hockey	15
Sh. Jai Bharat	M.P.Ed.	Sports Supervisor	Wrestling	15
Sh. Raj Kumar Bakshi	B.P.Ed.	Cricket Coach	Cricket	07
Sh. Ravish Vaid	M.P.Ed.	T. T. Coach	Table Tennis	04
Sh. Gagan Kumar	M.P.Ed.	Football Coach	Football	04
Sh. Vikas Karlopa	M.P.Ed.	Volleyball Coach	Volleyball	04

### Details of Contractual Faculty

Name of the Faculty	Qualification	Experience in Years
Mr. Harinder Pal Singh	MPED	06
Mr. Sanjeev Sharma	MPED	03
Mr. Tarvinderpal Singh	MPED	01

Name of the Faculty	Qualification	Experience in Years
Ms. Bhavna Sharma	MPED	01

**Research Projects including international projects and national collaborative projects:** Nil

**Collaborations/Linkages:**

**MOUs:** Directorate of Youth Services and Sports, J&K.

**Outcome of linkages (use of infrastructure, publications, student exchange, faculty exchange etc.):**

Useful for the promotion the Games and Sports activities among the youth of the State.

**Outstanding Performance (Medals/Awards) of students in Sports**

University level	State level	National level	International level

The Fencing team of University of Jammu won three Team Bronze Medals in 3<sup>rd</sup> Khelo-India University Games-2022 in Men's Epee Team, Men's Sabre Team and Women's Sabre Team held at Lucknow (U.P.). Prof. Umesh Rai, Vice Chancellor University of Jammu congratulated the Fencing teams who won medals for the University and applauded the efforts of Dr. Daud Iqbal Baba, Director, Directorate of Sports & Physical Education and entire staff of the Directorate for this achievement at 3<sup>rd</sup> Khelo India University Games.

**Outstanding Performance (Medals/Awards) of students in Cultural Activities**

University level	State level	National level	International level

**Student Organized Initiatives**

Fairs			Exhibitions		
State Level	National Level	International Level	State Level	National Level	International Level

**Activities/Events organized:**

- Directorate of Sports and Physical Education celebrated National Sports Day 2022. Prof. Umesh Rai, Vice Chancellor, University of Jammu, was the Chief Guest. Prof. Umesh Rai, in his address, enlightened the gathering with the message that “We celebrate National Sports Day to embrace sportsmanship and brotherhood that comes with sports. An award ceremony was also held in which the prominent personalities of J&K in Sports, Players along with Coaches & Managers who won medals for the University in All India Inter University / National/ International competitions for the session 2021-22 were felicitated with Letter of Appreciation and souvenir T-Shirt.

- Directorate of Sports and Physical Education, University of Jammu in collaboration with SPIC MACAY J&K organized a Swagat and Flag-off ceremony of Antt Yatra (an inner journey) of Dr. Kiran Seth (founder SPIC MACAY) from Jammu to Kanya kumara. While addressing, Dr. Kiran Seth emphasizes that SPICMACAY's intention is to enrich the quality of formal education by increasing awareness about different aspects of Indian heritage and inspiring the young mind to imbibe the values embedded in it. It seeks to inspire youth through experiencing the mysticism embodied in the rich and heterogeneous cultural tapestry of Indian and World Heritage, with a hope that the beauty, grace, values, and wisdom embodied in these arts will influence their way of life and thinking and inspire one to become a better human being.
- Directorate of Sports & Physical Education in collaboration with Bhaderwah Campus, University of Jammu organized a week long "Hiking and Trekking Expedition" at Bhaderwah. A total of 45 students from University of Jammu and various affiliated colleges participated in the event. Prof. Umesh Rai, Vice Chancellor, University of Jammu appreciated and advised the participants to enjoy the trekking, maintain discipline and follow the guidelines. As a part of Swachh Bharat Abhiyan, a cleanliness drive was also carried out at different locations of Seog meadows during the expedition.
- Directorate of Sports & Physical Education, University of Jammu hosted the All India Inter University Fencing (Men & Women) Championship 2022-2023. The Championship was inaugurated by Hon'ble Lieutenant Governor of Jammu & Kashmir UT, Shri Manoj Sinha. The Hon'ble Chancellor emphasized that the improved sports infrastructure had substantially increased sports activities in J&K and sportsperson-centric policies and schemes, promotion of sports at grassroots level, world class coaching and training facilities have infused new hopes and dreams among the budding sportspersons. He complimented the University of Jammu for holding this event addressed the fencers from across the country who participated in the championship.
  - The Chancellor also spoke on the reforms introduced to promote sports in the educational institutions and steps taken to encourage more youth to participate in sports for their holistic development. National Education Policy, he said, has made sports an integral part of the academic curriculum. It also emphasized that the curriculum should focus on holistic education, in which science, social science, art, humanities and sports will promote material and human efficiency together.
  - Around 1100 players from 96 teams from various universities across the nation participated in the event. The defending Champion G.N.D.U University Amritsar once again showed its supremacy by lifting the Overall Trophy of the All India Inter-University Fencing (M&W) Championship 2022-23.
- Directorate of Sports & Physical Education organized Inter-collegiate Handball (Men & Women) Tournament 2022-23 and Inter-Collegiate Cricket (Men) Tournament 2022-23.
- The Wushu team of University of Jammu brought laurels by winning 1 Gold, 1 Silver and 2 Bronze in the All India Inter-University Wushu Championship organized by Chandigarh University. The Gold medal has been won by Hrithik Charak in 85 kg category, Silver medal by Gurmeet Singh in 90 kg whereas 2 bronze medals by Rohan Sharma in 65 Kg and another bronze by Pratham in 80 kg category. Prof Umesh Rai, Vice Chancellor, University of Jammu congratulated the team and said that it is hardwork and continual efforts of Directorate of

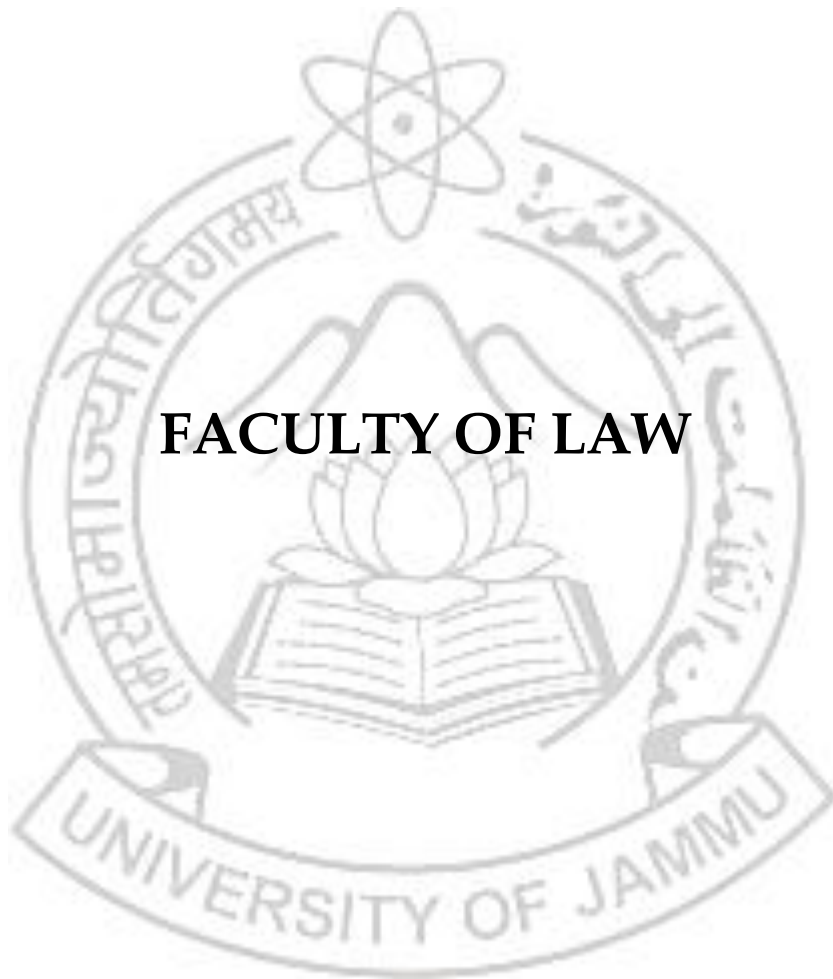
Sports and Physical Education University of Jammu that Sports of JU has established its name not only in Jammu and Kashmir but also has earned its reputation in entire nation.

- University of Jammu Roller Inline Hockey (M) team won the Gold medal in the All India Inter-University Roller Inline Hockey Tournament 2022-23 organized by the Andhra University Visakhapatnam. S. Jaideep Singh of Jammu University was declared as the highest goal scorer and best goal awardee of the tournament.
- Shri Manoj Sinha, Hon'ble Lieutenant Governor, Jammu & Kashmir and Chancellor, University of Jammu inaugurated a three-day Inter-University Sports Festival "Sauhard-2023" in the sports disciplines of Athletics (Men & Women), Basketball (Men & Women), Cricket (M), Kabaddi (Men & Women), Volleyball (Men & Women) and Table Tennis (Men & Women) organized by Directorate of Sports & Physical Education, University of Jammu. Sh. Rajeev Rai Bhatnagar, Advisor to the Hon'ble Lt. Governor J&K UT, was the Guest of Honour on the occasion. More than 550 participants from various Universities of J&K UT like University of Kashmir, Cluster University of Kashmir, Islamic University of Science & Technology Awantipora, Cluster University of Jammu, SMVDU Katra, BGSBU Rajouri and the host University of Jammu along with team of Directorate of Distance & Online Education participated in the event. University of Jammu lifted the overall trophy.
- Directorate of Sports and Physical Education, University of Jammu in collaboration with Cloud Camps and Treks (OPC) Pvt. Ltd. organized 4 days camping and trekking expedition at Jungle Gali, Udhampur. 60 students from University of Jammu actively participated in the trek.
- Directorate of Sports and Physical Education, University of Jammu organized 3 days hiking and trekking expedition at Chilla, Sanasar. 50 students from University of Jammu participated in the expedition.
- All India Football Federation in collaboration with Directorate of Sports and Physical Education, University of Jammu conducted 4 days E certificate. Apart from certification a special camp for Football players of University of Jammu was also organized by Football Academy in which Shri Arun Malhotra, Former Indian Player and Current Member, AIFF was the Resource Person.
- Directorate of Sports & Physical Education, University of Jammu organized 7-day Yoga Camp. The yoga session was conducted by Sh. Sanjeev Kumar Pandey, Teaching Assistant, University of Jammu who gave information about different Asanas, Pranayama, and the trending utilization of Yoga Mudras.
- Directorate of Sports & Physical Education, University of Jammu in collaboration with Confederation of Indian Industry (CII) under the banner of "Har Ghar Dhyaan Abhiyaan" celebrated the 9<sup>th</sup> International Yoga Day. About 150 participants including employees, students and people from the civil society participated.

**Healthy practices of other departments/institutions emulated and adopted:** Academic and sports audit at the end of every semester/year.

**Healthy practice/practices of the Department, which Department wants to highlight:** Regular meetings of departmental bodies related to games and sports. Regular meetings with the different college representatives for updation regarding games and sports. Good relationship with alumni seen by way of maintaining alumni data and their contribution/interaction with the department.





## DEPARTMENT OF LAW

The Department of Law was established in 1969 to impart legal education. The department offers the LL.B, LL.M, and Doctorate in Law and Post Graduate Diploma in Criminology and Police Science. The Department of Law has an efficient regular faculty and the alumni are in teaching, judiciary, and other administrative posts. The post graduate diploma in Human Rights is on the anvil. In future the department is interested in initiating the post graduate degree course in Criminology and Police Science as well as various other post graduate diploma courses with the inter-disciplinary approach.

### Programmes offered by the Department

- LLB (3 Years)
- LLM (2 Years)
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Bar Council of India

**Year of validity of Recognition/Accreditation:** 2017-18

### Thrust Areas of Teaching and Research:

- Constitutional Law
- Human Rights
- Environmental Law
- International Law
- Family Law
- Labour Law
- Administrative Law
- Criminal Law
- Corporate Law

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Satinder Kumar	Ph.D	Professor & HoD	Labour Law, Contract Law, Law of Torts	22
Prof. Arvind Jasrotia	Ph.D.	Professor	Environmental Law, Human Rights	25
Prof. Manju Jamwal	Ph.D.	Professor	Family Law, Women & Law	22
Prof. Sanjay Gupta	Ph.D.	Professor	Administrative Law, IPL, Law of Torts	25
Prof. Seema Nargotra	Ph.D	Professor	Constitutional Law, Election Law, Property Law	22
Dr. Savita Nayyar	Ph.D	Assistant	Gender Issue, Criminal	12

		Professor	Law and Criminology, Constitutional Law, Human Rights	
Dr. Mohd Arif	Ph.D.	Assistant Professor	Women Workers, Child Labour Society and Educationally Backward Classes/ ADR	16
Dr. Aarti Sharma	Ph.D.	Assistant Professor	Consumer Law, Insurance Law, Law of Torts, Environment Law	15
Dr. Vijay Sehgal	Ph.D.	Assistant Professor	Constitutional Law	17
Dr. Raj Kumar	Ph.D.	Assistant Professor	Business Law	11
Dr. Navdeep Kour Sasan	Ph.D	Assistant Professor	Intellectual Property Law	06
Dr. Sonia Aneja	Ph.D	Assistant Professor	Women & Law	10

**Contractual Faculty in the Department:** Nil

**Details of Research Projects**

Name of the Project	Agency	Amount Sanctioned	Status (Ongoing/ Completed)
Childline India Foundation	Childline India foundation	₹ 4,20,000 Per Year	Ongoing
Efficacy of Building and construction workers Act 1996: A Socio Legal Study in the Jammu Province	ICSSR	₹ 2,50,000.00	Ongoing
Impact of kashmir Conflicts on Refugees, forced Migrants and Displaced Population:A study of Demographic and Socio- Economic Consequences-Children and Elderly	ICSSR	₹ 20.00 Lacs	Ongoing
Stride Scheme component-III	UGC	₹ 2.00 Lacs	Completed

**International Projects:** Nil

**All India Collaborative Projects:** Nil

**Collaborations/Linkages:**

**MOUS Signed:**

- Centre for Environmental Research and Advocay (Ceera), National Law School of India University Nagarbhavi, Bengaluru.



**Detail of Publications:**

Name of the Author	Title of the Paper/s
Prof. Arvind Jasrotia	<ul style="list-style-type: none"> <li>• Vehicular Pollution in Jammu City: Implications on Environment and Health.</li> <li>• CSR Initiatives during COVID-19 Pandemic: A Select Study of Indian Companies.</li> <li>• Securing rights by following duties: a substantial conceptualization reinforcing Gandhian credence.</li> <li>• UAPA in Jammu and Kaashmir: A Functional Analysis.</li> <li>• Marine fisheries insurance in India: Issues Challenges and future Strategies.</li> <li>• Evolution of CSR Jurisprudence in India: An Appraisal.</li> </ul>
Dr. Raj Kumar	<ul style="list-style-type: none"> <li>• Indian Competition Law and Patent Law: An Interface.</li> <li>• Vertical Agreements under the Competition Act, 2002.</li> <li>• Scope of Judicial Intervention in Competition Law violations in India.</li> <li>• Corporate Governance: Regulation of Oppersion and Mismanagement.</li> <li>• Impact of COVID-19 on Legal Education: Indian Experience.</li> <li>• The Dyanamics of Separation of Powers: A Comparitive Study.</li> </ul>
Dr. Savita Nayyar	<ul style="list-style-type: none"> <li>• Women workers well-being and workplace standards in textile mills of Kashmir (India): A socio-legal investigation under the Indian factories Act of 1948.</li> </ul>
Dr. Vijay Sehgal	<ul style="list-style-type: none"> <li>• Examining the Prevalence and Impact of Physical Violence from a Psychological Perspective.</li> <li>• Role of Public Information Officers in Implementation of Right to Information Act.</li> <li>• The Undefined Contours of Article 142 of Indian Constitution: Power to do Complete Justice.</li> <li>• Courts Inherent Power of Judicial Review: A Constitutional Perspective.</li> <li>• Ramsar convention: History, Structure, Operations and Relevance.</li> <li>• Courts and socio economic changes: Lessons from the Indian Experiences.</li> </ul>
Dr. Mohd. Arif	<ul style="list-style-type: none"> <li>• Alternative to Litigations in India: An Empirical Analysis.</li> </ul>
Dr. Navdeep Kour Sasan	<ul style="list-style-type: none"> <li>• Empoerment of Women and reservation in Indian Politics: A viewpoint.</li> <li>• Right to free speech and sedition: A Perspective.</li> <li>• Refugees and Human Rights: A Perspective.</li> </ul>
Dr. Sanjay Gupta	<ul style="list-style-type: none"> <li>• Indian Competition Law and Patent Law: An Interface.</li> <li>• Corporate Governance: Regulation of Oppersion and Mismanagement.</li> <li>• Impact of COVID-19 on Legal Education: Indian Experience.</li> <li>• The Dyanamics of Separation of Powers: A Comparitive</li> </ul>

	Study.
Dr. Satinder Kumar	<ul style="list-style-type: none"> <li>Hazardous Wastes and environmental degradation: A perspective.</li> </ul>

#### Activities/Events organized:

- Department of Law, University of Jammu organized lecture series on “Consumer Rights Awareness” for LLB students. CMA Mr. Maheep Gupta, Member State Consumers Dispute Redressal Commission Jammu and Kashmir was the Keynote Speaker.
- Department of Law, University of Jammu organized the Intra Department Debate Competition for LL. B Students on the topic “In the opinion of the house Same-sex marriage should be allowed in India” in the Moot Court Hall of the Department of Law. The debate provided a platform for students of LL.B (3 Years course) to engage in a meaningful dialogue on the various aspects of same-sex marriage. The debate competition was judged by Prof. Dipanker Sengupta of Department of Economics, University of Jammu; Dr. Garima Gupta, HoD, Journalism and Mass Communication, University of Jammu and Dr. Jasleen Kaur of Department of Distance and Online Education, University of Jammu. A total 25 students from University of Jammu participated in the debate competition.
- Department of Law, University of Jammu organized a lecture on the topic “Role of Prosecutor in the Criminal Justice System” by Ms. Sunita Kargotra, Deputy Director, Prosecution, Directorate of Prosecution, Jammu. Ms Sunita Kargotra made a holistic approach to the role played by a prosecutor in the administration of the criminal justice system. At the outset, she apprised the students of the process of appointment of a prosecutor and the various roles allotted to the Prosecuting Officers appointed in different government departments vis-à-vis Public Prosecutors, besides explaining the hierarchical positions and working of the Prosecutors. While emphasizing the role of the Prosecutor, who acts as a bridge between various investigating agencies in the State and the Centre and the Court.
- Department of Law, University of Jammu organized an Extempore Debate Competition for LL.B students. The event witnessed enthusiastic participation from students of law department, University of Jammu. The Extempore Debate Competition served as a platform for budding legal minds to showcase their oratory skills, critical thinking abilities, and depth of legal knowledge. The competition was designed to challenge participants to brainstorm and deliver compelling arguments in response to given topics or questions, without any prior preparation. Such extempore debates not only enhance public speaking skills but also develop the ability to analyze complex legal issues and present coherent arguments in a limited timeframe. The participants displayed remarkable expertise in presenting their viewpoints and engaging in thought-provoking exchanges. The competition witnessed lively discussions on diverse subjects of current, contemporary, and socio-legal relevance.

## THE LAW SCHOOL

The Law School, University of Jammu was established in Nov. 2003 with a purpose to education in the form of a 5 years law course after 10+2 Stage.

The Law School is governed by the statutes as applicable to the 5yrs law course, notified by the University of Jammu. The Law School has adopted a multi-disciplinary, scientific, flexible and innovative approach in its programs and methods. The Law School is duly approved and recognized by Bar Council of India.

### Programmes offered by the Department

- BA.LLB-5 years.
- PG Diploma in Human Right and Duties Education.

### Interdisciplinary Programmes offered and details of departments/disciplines involved:

BA.LLB 5 years Course is interdisciplinary course with the involvement of faculty from political Science, English, Sociology, History and Economics besides Law.

### Recognition/Accreditation of the Programmes offered by the department (other than University):

Bar Council of India (BCI)

Year of Validity of Recognition/Accreditation: 2017-20108

### Thrust Areas of Teaching and Research

- Law
- Political Science
- History
- Sociology
- English
- Economics
- Human Rights
- International Humanitarian Law (IHL)

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Seema Rohmetra	Ph.D.	Associate Professor	Gandhian Thought	18
Dr. Monica Narang	Ph.D.	Associate Professor	Law(Natural Justice), Human Rights	17
Dr. Seema Sharma	Ph.D.	Associate Professor	Women and law, Internally Displaced Persons and Family Law	18
Dr. Shubha Vats	Ph.D.	Assistant Professor	American Literature	10
Dr. Bindu Sangra	Ph.D.	Assistant Professor	Constitutional Law	16

Dr. Monika Bhardwaj	Ph.D.	Assistant Professor	Environmental Laws	16
Dr. Palvi Mathavan Puri	Ph.D.	Assistant Professor	Bussiness Law (Cyber Law,IPR,Company Law)	1.5

### Contractual Faculty in Department

Name of the Faculty Member	Qualification	Experience in Years
Dr. Renu Jamwal	Ph.D.	13
Dr. Mrilinalini Atrey	Ph.D.	20
Dr. Upasana Sharma	Ph.D.	10
Dr. Vandita Sharma	Ph.D.	07
Dr. Ramesh Kumar	Ph.D.	07
Ms. Anjali Sharma	Ph.D.	
Dr. Mool Raj Sharma	Ph.D.	
Dr. Rajneesh Khajuria	Ph.D.	16
Dr. Nitán Sharma	Ph.D.	02

**Outcome of linkages (use of infrastructure, publications, student exchange, faculty exchange etc.):**

#### Faculty Acheivements:

- Dr. Monika Narang received the Nirmala Deshpande Women Empowerment Award 2023 from Gandhi Global Family, J&K.

#### Detail of Publications:

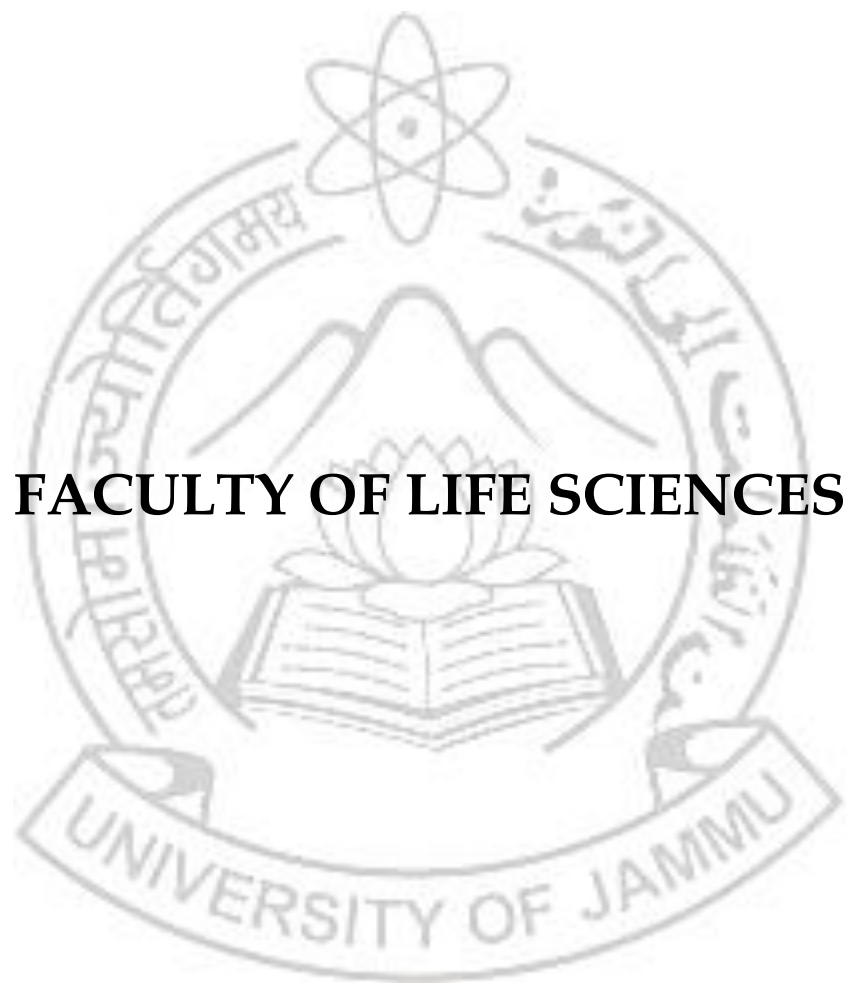
Name of the Author	Title of the Paper/s
Dr. Monica Narang	<ul style="list-style-type: none"> <li>• Covid-19 pandemic: Lessons for an inclusive, Resilient and Green Sustainable Pathway.</li> </ul>
Dr. Monika Bhardwaj	<ul style="list-style-type: none"> <li>• Wetlands Threats and Conservation: A Study of Legal Mechanism.</li> </ul>
Dr. Bindu Sangra	<ul style="list-style-type: none"> <li>• Right to information Amendment Bill, 2019: A Critical Appraisal.</li> <li>• Significance of Judicial Independence in a Constitutional Democracr: An Analysis with special refrence to Indian Practice.</li> </ul>

#### Activities organized in the Department:

- The Law School organized a one-day training programme for the students and faculty on the theme "Salient features of Manupatra- A legal database" in order to provide access to quality online resources and best practices to use them. The training was a part of a series of initiatives taken by The Law School to enhance the research output of the department.
- The Law School in collaboration with Gandhi Peace Foundation Jammu chapter organised an interactive session between the students and the Gandhian activists, Sh. Kumar Kalanand Mani from Goa; Prof. Shekhar Sonalkar from Maharashtra; Sh. Manoj Meeta from Bihar; Sh. Ramesh Chand Sharma and Sh. SP Verma from Gandhi Global Family. The activists were on a "Gandhi 75 Kashmir Smriti Aman Yatra". Sh. Kumar Kalanand Mani emphasised the need to preserve and protect the environment. He cited different environmental movements and their impact on strengthening environmental laws. Prof. Shekhar Sonalkar talked about the role of

youth in the nation-building process. They collectively emphasised upon the contemporary relevance of Mahatma Gandhi in the present context of consumerist cultures.

- The Law School started an Awareness/Sensitization Activities/ Programme/Lecture series on “Constitutional Obligations: Values, Rights, Duties and Responsibilities” to sensitize the students and scholars about their constitutional obligations and prepare them to become responsible and informed citizens.
- The Law School organized Legal career counseling Workshop for the students by Ms. Sammanika Rawat. Ms. Rawat, the Resource Person for the workshop spoke about the different career options after BA, LLB.
- The Law School in collaboration with Department of Psychology organized an Awareness/Sensitization Activities/ Programme/Lecture series related to Constitutional Obligations: Values, Rights, Duties and Responsibilities of the citizens as such activities constitute an integral part of good academic practices so as to sensitize the students and prepare them to become responsible and informed citizens. Dr. Palvi Mathavan Puri was the Resource Person.
- The Law School in collaboration with Department of Education organized an Awareness/Sensitization Activities/ Programme/Lecture related to Constitutional Obligations: Values, Rights, Duties and Responsibilities of the citizens. The lecture was attended by Students, Scholars and Employees of the Department of Education. Dr. Bindu Sangra, Faculty, Department of Law was the Resource Person.
- The Law School organized an interactive session on “The Role of Police in the Criminal Justice System”. Sh. Nitish Kumar, IPS, Inspector General of Police, CID was the Chief Guest and Mr. Zahid Manhas, Senior Superintendent Police, CID, Jammu was the Guest of Honour on the occasion. Sh. Nitish Kumar in his interaction deliberated upon four important pillars in the criminal justice system and police being one of the foundation pillars. He also said that the police plays a vital role in mainstreaming public order to combat crime and discussed how police functionaries have developed enforcement mechanism while coordinating with the judiciary to provide administration of justice. The lecture was followed by a question-and-answer session where the enthusiastic students asked questions related to the criminal administration system.
- The Law School organized Poster Making/ Slogan Writing Competition on the theme “Go Green, Breathe Clean” to commemorate the “World Environment Day”. The competition was adjudged by Dr. Seema Sharma and Dr. Monica Narang, Associate Professors, The Law School, University of Jammu.



## **SCHOOL OF BIOTECHNOLOGY**

The Department of Biotechnology was established during the year 1999 with the funding from the Department of Biotechnology (DBT), Government of India, New Delhi. During 2008, the nomenclature of the Department was changed to School of Biotechnology as we shifted to the new building. The admission to M.Sc. Biotechnology program is made on the basis of All India Combined Biotechnology Entrance Examination conducted by Jawaharlal Nehru University, New Delhi.

Over the years the Biotechnology program of the School has been generously funded by the DBT. The School is housed in State-of-art building. For this we are extremely grateful to UGC and University of Jammu for funding. Three M.Sc. laboratories and the Central facility laboratory are fully equipped to conduct practicals prescribed in the curricula. The School also houses six research laboratories wherein all the necessary facilities including sophisticated equipment have been placed. The School was awarded with DST-FIST during 2008 to strengthen research programs. The faculty has been able to attract extra-mural funding from the National and International funding agencies. So far more than 250 students have graduated from the school of which about 90% have cleared national tests like NET-JRF (CSIR-UGC), BET-JRF (DBT) and NET-JRF (ICMR) and GATE. The students have been placed in the most prestigious research institutes across the globe for pursuing Ph.D and Post-doctoral studies. DBT has provided grants for establishment of Bioinformatics Centre in the School. In addition to the main Bioinformatics laboratory, internet facility has been extended to the entire faculty and research laboratories. The School conducts short-term courses and workshops in Bioinformatics for the University and College teachers and research scholars.

The School has created DNA Sequencing facility under PURSE scheme of DST. The School has been awarded grants from UGC for establishing Animal cell culture laboratory. The School has been awarded with Special Assistance Program of the UGC since 2012. The School has also started PG Diploma in Bioinformatics under UGC Innovative Program Scheme. The School was again awarded DST-FIST during 2016.

All the laboratories and faculty rooms were networked through LAN. We also connected the School with the University server with fibre optics line so as to avail the online access to the journals provided through the UGC-INFLIBNET. We have also provided Wi-Fi line to the school, a facility being availed by all the research scholars and faculty having the laptops.

The School has been ranked 'A' by the DBT in the first meeting of DBT Task Force on Human Resources Development. The School has also created four new research laboratories, central facility and cell culture facility in the 2<sup>nd</sup> floor of existing building of the School.

### **Programmes offered by the Department**

- M.Sc Biotechnology (DBT funded)
- M.Sc Microbiology (Self-financing)
- M.Sc Biochemistry (Self-financing)
- Ph.D in Biotechnology
- Ph.D in Microbiology
- Ph.D in Biochemistry
- P.G. Diploma in Bioinformatics (one year) under UGC Innovative Programme

### **Interdisciplinary Programmes offered and details of departments/disciplines involved**

- Biotechnology

- Biochemistry
- Microbiology

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

**Thrust Areas of Teaching and Research**

- Plant Genomics and Molecular Biology
- Plant Biotechnology
- Fermentation Technology and Bioprocess Engineering
- Microbial Biotechnology
- Metagenomics
- Natural products from plants and microbes
- Animal Biotechnology
- Bioinformatics
- Bioprocess development for robust enzymes & Biofuel production
- Probiotics

**Collaborations/Linkages:**

**Linkages:**

- Penn State University, Pennsylvania, USA
- Kansas State University, Kansas, USA
- Institute of Plant Genetics, Gatersleben, Germany
- Ohio State University, USA
- University of Naples, Italy
- Tel-Aviv University, tel-Aviv, Poland
- University of Mickwitz, Poznan, Poland
- Jawaharlal Nehru University, New Delhi
- University of Kashmir, Srinagar
- North Eastern Hill University, Shillong

**Faculty Profile**

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Sanjana Kaul	Ph.D.	Professor & Head	Fungal Biotechnology, Microbial diversity and prospecting	33
Prof. M.K. Dhar	Ph.D.	Professor	Plant Genomics and Molecular Biology, Molecular Cytogenetics	
Prof. Jyoti Vakhlu	Ph.D.	Professor	Microbial Biotechnology, Metagenomics	24
Dr. B.K. Bajaj	Ph.D.	Professor	Industrial Biotechnology	22



Name	Qualification	Designation	Specialization	Experience in Years
Dr. Madhulika Bhagat	Ph.D.	Professor	Cell culture techniques, Natural product research pharmacogenosy	18
Dr. Ritu Mahajan	Ph.D.	Assistant Professor	Plant Molecular Genetics and Plant Tissue culture	13
Dr. Nisha Kapoor	Ph.D.	Senior Assistant Professor	Immunology	12
Dr. Yashpal Khajuria	Ph.D.	Assistant Professor	Microbial Genetics and Genomics, Host-pathogen interaction, Microbial Biotechnology	06
Dr. Sheetal Ambardar	Ph.D.	Assistant Professor	Omics Biology, Microbiomics, Genomics, Transcriptomics	04
Dr. S. Bharathiraja	Ph.D.	Assistant Professor	Cancer Biology and Biochemistry, Stem cells in regenerative medicines and diseases, Glycobiology in Health and Disease (GI cancers), Host-pathogen interactions	

#### Contractual Faculty in Department

Name of the Faculty Member	Qualification	Experience in Years
Dr. Sakshi Sharma	Ph.D.	04
Dr. Mridhu Sharma	Ph.D.	02
Dr. Suruchi Gupta	Ph.D.	3.5

#### Research Projects including international projects and national collaborative projects

Number of Ongoing Projects	Value of Ongoing projects	Total number of Teachers	Number of ongoing research projects per teacher	Value of ongoing projects per teacher
11	1084.84 Lacs	11		

Research Projects including international projects and national collaborative projects (Completed):  
11

#### Details of above mentioned projects

Name of the project	Agency	Amount sanctioned ( in Lakhs ₹ )	Status Ongoing / Completed
Development of Genomic resources, elite lines and germplasm conservation on high density rootstocks in Apple	DBT, GoI	203.00	Ongoing

Name of the project	Agency	Amount sanctioned ( in Lakhs ₹ )	Status Ongoing / Completed
Network Programme for Enrichment and Update of Database on Genome Related Information for Indian Spermatophyta and Archegoniatae Taxa- Phase II	DBT, GoI	200.00	Ongoing
To restraint or regulate the reproductive health issues of human from J&K region	ICMR-CAR	140.00	Completed
Development of on-site barcode based LAMP assay for rapid detection of pathogenic Fusarium oxysporum in saffron fields.	SERB, DST	43.00	Ongoing
To study molecular interactions of Bacillus arybhatai antagonism towards Fusarium oxysporum corm rot of Crocus sativus L."	NMPB, Minsitry of AYUSH	38.70	Completed
Stable isotopes and endomicrobiome as a marker for origin of saffron in absence of genetic marker.	DST -WTZ-OEAD	16.00	Completed
Characterization of the Germplasm and Development of Quality Planting Material in Walnut	DST, GoI	57.84	Ongoing
Breaking the Barrier of Saffron Cultivation through Technological Interventions for Enhancing Production and Livelihood of Farmers in Kashmir and Non-traditional Area	DBT, GoI	455.44	Ongoing
Network Programme for enrichment and update of Database on Genome related information for Indian Spermatophyta and Archegoniate Taxa Phase-II	DBT, GoI	33.00	Ongoing
"Green synthesis and characterization of gold nanoparticles using fruit waste product and establishing its biological efficacies "	UoJ (Seed Grant)	2.00	Ongoing
Development of polymeric nanogels loaded with essential oil from medicinal and aromatic plants	JK Science Technology & Innovation Council , DST	7.50	Ongoing
In vitro conservation and phytochemical analysis of Curcuma zedoaria Roscoe (safed haldi): an underutilized medicinal plant	NMPB, Minsitry of AYUSH	31.24	Completed

Name of the project	Agency	Amount sanctioned ( in Lakhs ₹ )	Status Ongoing / Completed
Development of simple sequence repeat markers in wild pomegranate and their cross species transferability	DST, J&K	9.50	Completed
Metabolic profiling and expression analysis of flavonoid biosynthesis genes in fruits of wild Himalayan fig (Ficus palmate Forssk.)	UoJ (Seed Grant)	2.00	Completed
Characterization and cultivation of Wild Pomegranate (Punica granatum L.) for generating livelihood security and entrepreneurship in Himalayan region of Jammu division of J&K	DBT, GoI	38.00	Ongoing
Screening of Potential genes for their tag SNPs that are responsible for susceptibility to Schizophrenia and generation of LD maps in Dogra population of Jammu region	DST, J&K	9.06	Ongoing
Association of Rare variants with Schizophrenia in the population of Jammu Region	UoJ (Seed Grant)	2.00	Completed
Molecular genetic study of Kidney stone (Nephrolithiasis) in Jammu region of J&K UT	DST, J&K	8.90	Completed
Characterization of small secretory proteins (SSPs) from Venturia inaequalis, causal agent of apple scab	UoJ (Seed Grant)	1.00	Completed
Establishment of reference genome of Crocus sativus being grown in the fields of Kashmir, J&K, India	DST WOS-A, Department of Science and Technology	36.00	Ongoing
Screening of anti-inflammatory activity of chosen bioactive compounds for improving the chemo-sensitivity of multidrug resistant colon cancer cells- an invitro study	UoJ (Seed Grant)	1.00	Completed
Targeting inflammatory mediators with chosen bioactive compounds for chemo sensitization of multidrug resistant colon cancer cells - an intro study	UoJ (Seed Grant)	2.00	Completed

#### Detail of Publications:

**Prof. Sanjana Kaul:**

- Suruchi Gupta, Malvi Choudhary, Baljinder Singh, Ravail Singh, Manoj K. Dhar and Sanjana Kaul (2022). Diversity and biological activity of fungal endophytes of *Zingiber officinale* Rosc. with emphasis on *Aspergillus terreus* as a biocontrol agent of its leaf spot. *Biocatalysis and Agricultural Biotechnology* 39: 102234. DOI: 10.1016/ j.bcab.2021.102234.

**Prof. Manoj K. Dhar:**

- S. Gupta, R. Singh, P. Paul, S. Kaul, S. Lattoo and M. K. Dhar (2023) Gene clustering and coexpression analysis for the identification of putative transcription factors associated with the genes of secondary metabolic pathways in *Plantago ovata* Forsk. and its wild allies. *Plant Biotechnology Reports*. doi.org/10.1007/s11816-023-00825-w
- S. Bhushan, D. Sharma, Rakshant, S. Kaul, M. K. Dhar, M. Sharma (2023) Recent strategies to engineer alkaloid biosynthesis in medicinal plants. *Medicinal Plants*. Husen, A., Iqbal, M. (eds) Springer, Singapore. [https://doi.org/10.1007/978-981-19-5611-9\\_15](https://doi.org/10.1007/978-981-19-5611-9_15).
- B. A. Akhoun, S. K. Gupta, M. K. Dhar (2023) Dissecting the genome, secretome, and effectome repertoires of *Monilinia* spp.: the causal agent of brown rot disease: a comparative analysis. *Postharvest Biology and Technology* 195: 112120
- Suruchi Gupta, Ravail Singh, Arti Sharma, Surinder Kumar Lattoo and Manoj Kumar Dhar (2022). Comparative transcriptome mining for terpenoid biosynthetic pathway genes in wild and cultivated species of *Plantago*. *Protoplasma*, 259(2), 439-452. DOI:10.1007/s00709-021-01663-9.
- Suruchi Gupta, Malvi Choudhary, Baljinder Singh, Ravail Singh, Manoj Kumar Dhar and Sanjana Kaul (2022). Diversity and biological activity of fungal endophytes of *Zingiber officinale* Rosc. with emphasis on *Aspergillus terreus* as a biocontrol agent of its leaf spot. *Biocatalysis and Agricultural Biotechnology*, 39, 102234. DOI: 10.1016 /j.bcab. 2021.102234.
- SudershanAmrit, Kanak Mahajan, Rakesh Panjaliya, Manoj Kumar Dhar and Kumar P (2022). Algorithm for sample availability prediction in a hospital-based epidemiological study spreadsheet-based sample availability calculator. *Scientific Reports*, 12(1), 1-8. DOI:10.1038/s41598-021-03399-1.
- Suruchi Gupta, Ravail Singh, Arti Sharma, Gulzar Ahmed Rather, Surinder Kumar Lattoo and Manoj Kumar Dhar (2022). Comparative transcriptome mining for terpenoid biosynthetic pathway genes in wild and cultivated species of *Plantago*. *Protoplasma*, 25(9), 439-452. DOI:10.1007/s00709-021-01663-9.
- Venu Sharma, AremQayumA, Kamal Kumar Kapoor, Debaraj Mukherjee, Shashank Kumar Singh, Manoj Kumar Dhar and Sanjana Kaul (2022). Synthesis of 14-deoxy-benzylidene-8, 17-epoxy-diene-andrographolide derivatives and evaluation of their anticancer activities. *Journal of the Indian Chemical Society*, 100490. DOI: 10.1016/ j.jics.2022.100490.
- Deepak Sharma, Sakshi Bhushan, Dinesh Chandra Agrawal, Manoj Kumar Dhar and Sanjana Kaul (2022). Cannabis as a Potent Therapeutic Agent for Pharmaceutical Drugs: Recent Advancement in Drug Discovery and Human Healthcare. *Cannabis/Marijuana for Healthcare*, 77.

**Prof. Jyoti Vakhlu:**

- Bhagat, N., Mansotra, R., Patel, K., Ambardar, S., & Vakhlu, J. (2024). Molecular warfare between pathogenic *Fusarium oxysporum* R1 and host *Crocus sativus* L. unraveled by dual transcriptomics. *Plant Cell Reports*, 43(2), 42.
- Bhagat, N., & Vakhlu, J. (2024). Effects of biocontrol *Bacillus* sp. strain D5 on the pathogenic *Fusarium oxysporum* R1 at the microscopic and molecular level in *Crocus sativus* L. (saffron) corm. *FEMS microbes*, 5, xtad025.
- Sharma, S., Kumari, M., & Vakhlu, J. (2023). Metatranscriptomic insight into the possible role of clay microbiome in skin disease management. *International Journal of Biometeorology*, 67(11), 1803-1811.
- Horacek, M., Lage, M., & Vakhlu, J. (2023). Exploring the potential of <sup>87</sup>Sr/<sup>86</sup>Sr isotope ratio with strontium and rubidium levels to assess the geographic origin of saffron. *Foods*, 12(15), 2830.
- Mansotra, R., Ali, T., Bhagat, N., & Vakhlu, J. (2023). Injury and not the pathogen is the primary cause of corm rot in *Crocus sativus* (saffron). *Frontiers in Plant Science*, 14, 1074185.
- Bhagat, N., Magotra, S., Gupta, R., Sharma, S., Verma, S., Verma, P. K., & Vakhlu, J. (2022). Invasion and colonization of pathogenic *Fusarium oxysporum* R1 in *Crocus sativus* L. during corm rot disease progression. *Journal of Fungi*, 8(12), 1246.
- Ambardar S, Vakhlu J and R Sowdhamini (2022) Insights from the analysis of draft genome sequence of *Crocus sativus* L. *Bioinformatics* 18(1): 1-13 9. Sharma, S., & Vakhlu, J. (2021). Evolution and biology of CRISPR system: a new era tool for genome editing in plants. *The Botanical Review*, 1-22.

**Prof. B.K. Bajaj:**

- Ridhika Bangotra, Bhavneet Kour, and Bijender Kumar Bajaj (2023). Probiotic functional attributes of lactic acid bacteria from indigenously fermented milk product kalarei. *Indian Journal of Experimental Biology (IJEB)* 61.07: 546-557.
- Diksha Sawhney, Surbhi Vaid, Ridhika Bangotra, Surbhi Sharma, Harish Chander Dutt, Nisha Kapoor, Ritu Mahajan, Bijender Kumar Bajaj (2023). Proficient bioconversion of rice straw biomass to bioethanol using a novel combinatorial pretreatment approach based on deep eutectic solvent, microwave irradiation and laccase *Bioresource Technology* 375, , 128791 <https://doi.org/10.1016/j.biortech.2023.128791>
- Vishal Sharma, Parushi Nargotra, Surbhi Sharma, Diksha Sawhney, Surbhi Vaid, Ridhika Bangotra, Harish Chander Dutt, Bijender Kumar Bajaj (2023). Microwave irradiation assisted ionic liquid or deep eutectic solvent pretreatment for effective bioconversion of sugarcane bagasse to bioethanol. *Energy, Ecology and Environment*, Jan 23, 1- 16 <https://doi.org/10.1007/s40974-022-00267-0>.
- Surbhi Sharma, Ridhika Bangotra, Bijender Kumar Bajaj (2023). 'Application of nanomaterials for biofuel production from lignocellulosic biomass' In *Nanotechnology for Advanced Biofuels*, pp. 189-212. Elsevier, 2023. <https://doi.org/10.1016/B978-0-323-91759-9.00005-8>

- Surbhi Sharma, Mei-Ling Tsai, Vishal Sharma, Pei-Pei Sun, Parushi Nargotra, Bijender Kumar Bajaj, Chiu-Wen Chen, Cheng-Di Dong (2023). Environment Friendly Pretreatment Approaches for the Bioconversion of Lignocellulosic Biomass into Biofuels and Value-Added Products *Environments* 2023, 10, 6 <https://doi.org/10.3390/environments10010006>
- Shikha Sharma, Surbhi Vaid, Nisha Kapoor, Harish Chander Dutt, Bijender Kumar Bajaj, (2023). Bioprocess for enhanced production of a fibrinolytic protease with high thrombolytic potential from *Aspergillus flavus* SH71. *Research Journal of Biotechnology* 18(4):49-63 <http://dx.doi.org/10.25303/1804rjbt049063>
- Surbhi Vaid, Surbhi Sharma, Harish Chander Dutt, Ritu Mahajan, Bijender Kumar Bajaj (2022). An eco-friendly novel approach for bioconversion of *Saccharum spontaneum* biomass to biofuel-ethanol under consolidated bioprocess. *Bioresource Technology*, 363, 127784. <https://doi.org/10.1016/j.biortech.2022.127784>
- Parushi Nargotra, Vishal Sharma, Surbhi Sharma, Ridhika Bangotra, Bijender Kumar Bajaj (2022). Purification of an ionic liquid stable cellulase from *Aspergillus aculeatus* PN14 with potential for biomass refining. *Environmental Sustainability* <https://doi.org/10.1007/s42398-022-00232-x>.
- Gupta, Mahak, Ridhika Bangotra, Surbhi Sharma, Surbhi Vaid, Nisha Kapoor, Harish Chander Dutt, and Bijender Kumar Bajaj (2022). Bioprocess development for production of xylooligosaccharides prebiotics from sugarcane bagasse with high bioactivity potential. *Industrial Crops and Products* 178 (2022): 114591. <https://doi.org/10.1016/j.indcrop.2022.114591>
- Bisma Habib, Surbhi Vaid, Ridhika Bangotra, Surbhi Sharma, Bijender Kumar Bajaj (2022). Bioprospecting of probiotic lactic acid bacteria for cholesterol lowering and exopolysaccharide producing potential. *Biologia* 77, 1931–1951 <https://doi.org/10.1007/s11756-022-01058-y>
- Ram Sarup Singh, Navpreet Kaur, Dhandeep Singh, Bijender K. Bajaj, and John F. Kennedy (2022). Downstream processing and structural confirmation of pullulan – A comprehensive review. *International Journal of Biological Macromolecules* 208: 553-564. <https://doi.org/10.1016/j.ijbiomac.2022.03.163>
- Gurleen Kour, G, R Choudhary, S Anjum, A Bhagat, Bijender Kumar Bajaj, Z. Ahmed (2022). Phytochemicals targeting JAK/STAT pathway in the treatment of rheumatoid arthritis: Is there a future? *Biochemical Pharmacology*, p.114929. <https://doi.org/10.1016/j.bcp.2022.114929>.

#### **Prof. Madhulika Bhagat:**

- Sharma P, Urfan M, Anand R, Sangral M, Hakla HP, Sharma S, Das R, Pal S, **Bhagat M**. Green synthesis of zinc oxide nanoparticles using *Eucalyptus lanceolata* leaf litter: characterization, antimicrobial and agricultural efficacy in maize. *Physiol Mol Biol Plants*. (2022). <https://doi.org/10.1007/s12298-022-01136-0>. Issn no 0971-5894 .
- Faheem M M, **Bhagat M**, Sharma P, Anand R. Induction of p53 mediated mitochondrial apoptosis and cell cycle arrest in human breast cancer cells by plant mediated synthesis of silver nanoparticles from *Bergenia ligulata* (Whole plant). *International Journal of*

- Faheem MM, Rahim JU, Ahmad SM, Mir KB, Kaur G, **Bhagat M**, Rai R, Goswami A. Heterochiral dipeptide d- phenylalanyl- l- phenylalanine (H- DPhe- LPhe- OH) as a potential inducer of metastatic suppressor NM23H1 in p53 wild- type and mutant cells. *Molecular Carcinogenesis*. 2022 Dec;61(12):1143-60. <https://doi.org/10.1002/mc.23465> .
- Mir KB, Faheem MM, Ahmad SM, Rasool JU, Amin T, Chakraborty S, **Bhagat M**, Ahmed Z, Ali A, Goswami A.  $\beta$ -(4-fluorobenzyl) Arteannuin B induced interaction of ATF-4 and C/EBP $\beta$  mediates the transition of breast cancer cells from autophagy to senescence. *Frontiers in Oncology*. 2022;12. <https://doi.org/10.3389/fonc.2022.1013500>.

#### Dr. Ritu Mahajan:

- Surbhi Vaid, Surbhi Sharma, Harish Chander Dutt, **Ritu Mahajan** and Bijender Kumar Bajaj (2022) An eco-friendly novel approach for bioconversion of *Saccharum spontaneum* biomass to biofuel-ethanol under consolidated bioprocess. *Bioresource Technology* 363: 127784.
- Lubna Aslam, Ramanjeet Kaur , Shajaat Hussain, Nisha Kapoor and **Ritu Mahajan** (2022) LC-MS/MS identification and structural characterization of isolated cyclotides from precursor sequences of *Viola odorata* L. petiole tissue using computational approach. *Journal of Biosciences* 47: 50.
- **Ritu Mahajan** and Nisha Kapoor (2023) Potential of Molecular Plant Breeding for Sustaining the Global Food Security. *Biosciences Biotechnology BioResearch Asia* 20(1). [doi.org/10.13005/bbra/3072](https://doi.org/10.13005/bbra/3072).
- Diksha Sawhney, Surbhi Vaid, Ridhika Bangotra, Surbhi Sharma, Harish Chander Dutt, Nisha Kapoor, **Ritu Mahajan** and Bijender Kumar Bajaj (2023) Proficient bioconversion of rice straw biomass to bioethanol using a novel combinatorial pretreatment approach based on deep eutectic solvent, microwave irradiation and laccase. *Bioresource Technology* 375 [doi.org/10.1016/j.biortech.2023.128791](https://doi.org/10.1016/j.biortech.2023.128791).

#### Dr. Nisha Kapoor:

- Isar Sharma, Indu Priya, Sakshi Sharma, Suruchi Gupta, Manu Arora, Ritu Mahajan, **Nisha Kapoor** (2022) Association of toll-like receptor 2 gene polymorphism (rs3804099) with susceptibility to Schizophrenia risk in the Dogra population of Jammu region, North India. *The European Journal of Psychiatry*. [doi.org/10.1016/j.ejpsy.2022.02.001](https://doi.org/10.1016/j.ejpsy.2022.02.001).
- Indu Priya, Manu Arora, H Singh, Isar Sharma, Ritu Mahajan, **Nisha Kapoor** Genetic evidence for association of NOTCH4 variant rs2071287 with schizophrenia susceptibility in the North Indian population. *Indian Journal of psychiatry*, 2022. 64 (6), 567-571.
- Mahak Gupta, Ridhika Bangotra, Surbhi Sharma, Surbhi Vaid, Nisha Kapoor, Harish Chander Dutt, Bijender Kumar Bajaj (2022) Bioprocess development for production of xylooligosaccharides prebiotics from sugarcane bagasse with high bioactivity potential. *Industrial Crops & Products* 178 (2022) 114591.

#### Dr. Sheetal Ambardar:

- Ambardar S, Vakhlu J and R Sowdhamini (2022) Insights from the analysis of draft genome sequence of *Crocus sativus* L. *Bioinformatics* 18(1): 1-13 (2022).

#### **Awards to students/scholars:**

- Research Scholars of Metagenomics Laboratory, School of Biotechnology, University of Jammu, Tahir Ali, Ritika Mansotra and Ayushi Verma were declared winners of the North Zone-Anveshan: Students Research Convention 2022 programme which was held at Desh Bhagat University, Gobindgarh, Punjab in the area of agricultural sciences. The team of scholars presented the idea of increasing saffron corm and stigma quality by evaluating the delivery method of *Bacillus* sp. strain D5 at the zonal level. Prof. Umesh Rai, Vice Chancellor, University of Jammu congratulated the team for the participation and award. He motivated scholars to think out of the box and propose innovative ideas for nation building.

#### **Activities/Events organized:**

- A lecture on “*Drosophila* as the model organism for advanced genetic research” under the aegis of Azadi Ka Amrit Mahotsav. Prof. Jagat Kumar Roy from the Department of Zoology, Banaras Hindu University was the keynote speaker.
- School of Biotechnology in collaboration with the Department of Lifelong Learning organized a lecture on “Gender Sensitization” for the Students, Scholars and Faculty of the Department. Prof. (Dr.) Kavita Suri, Director, Department of Lifelong Learning, University of Jammu was the Keynote Speaker.
- School of Biotechnology in collaboration with Human Resource Development Centre and Centre for IT Enabled Services and Management, University of Jammu organized one week hands on Bioinformatics Workshop on Plant & Microbial Genomics funded by DST-SERB. The workshop was held under Karyshalla scheme of Accelerate Vigyan program of SERB to impart high end skills to researchers and faculty in the STEM area. Prof. Umesh Rai, Vice-Chancellor, University of Jammu said, there is need of dissolving man-made academic boundaries and in life sciences teaching, there is a need to include various subjects such as computer languages, mathematics covering linear equations, hard core statistics, organic chemistry and biophysics as basic courses. Prof. Rup Lal, INSA Senior Scientist, Acharya Narendra Dev College, University of Delhi was the Keynote Speaker in the inaugural event.
- School of Biotechnology organized awareness cum writing workshop on “Biotechnology Ignition Grant (BIG)” as run of activities under the aegis of Azadi ka Amrit Mohatsav. Dr. Aatmeeyata and Ms. Aanchal Verma from Startup Incubation and Innovation Centre, Indian Institute of Technology, Kanpur were the resource persons for the program. Ms. Aanchal Verma enlightened the audience about the BIG grant which is the flagship program of the Biotechnology Industry Research Assistance Council (BIRAC). This scheme is for potential entrepreneurs from Academia, start-ups or Incubatee (Researchers, PhDs, Medical degree holders, Biomedical Engg. Graduates) who have an exciting idea which may be in the nascent and planning stage and there is an unmet need for mentorship and initial funding.



- School of Biotechnology organized an outreach extension activity for the students of Bee Enn College of Nursing and Paramedical students. About 70 students of B.Sc. Nursing and B.Sc. Paramedical along with Mrs. Radhika Sharma, Associate professor in Microbiology at Bee Enn College of Nursing visited School of Biotechnology under extension and outreach program. At the outset, Prof. Sanjana Kaul, Director, School of Biotechnology, welcomed the gathering and enlightened the students with the importance and scope of Microbiology. She further highlighted the contribution of the School of Biotechnology during the corona pandemic in the form of manpower and infrastructure thereby highlighting the importance of their subject and profession. She urged the students to take the optimum benefit of their visit and interact with faculty and research scholars. Students visited various laboratories of the School such as Fungal Biotechnology, Fermentation Technology, Plant genomics, Metagenomics, Immunogenetics, Plant Molecular Biology, Animal cell Culture, Special Facility etc. and were briefed about the different facilities available pertaining to the microbiology programme. Students were educated about the research interest of each lab and also got acquainted with various scientific equipments and microbial techniques such as sterilization techniques, cultivation of microbes on synthetic media, PCR techniques etc. Fascinated by the research in microbiology in SBT, students were inquisitive and interacted with scholars from each lab.
- School of Biotechnology organized an invited talk by Prof. B. S. Balaji, School of Biotechnology, Jawaharlal Nehru University, New Delhi on title “Think Beyond Labs” and Dr. Shri Ram Yadav, Associate Professor, Department of Biosciences & Bioengineering, IIT, Roorkee on title “Studying Evolution of Genetic Regulation in Plants”. Prof. B. S. Balaji encouraged the students and research scholars to consider and explore the concepts and ideas beyond the traditional laboratory setting. He underscored the importance of expanding our perspectives, fostering creative thinking, and actively observing our surroundings to seek alternative solutions to the problems that exist. He stressed the significance of acquiring new skills like 3D printing, statistical analysis, not merely for the sake of learning, but for practical application. Dr. Shri Ram Yadav discussed various root systems in plants and their developmental origin, along with the involvement of specific genes and signaling molecules. He delved into the genetic and evolutionary aspects of gene duplication and emphasized its functionality. The talk was attended by faculty members, students and research scholars of the School of Biotechnology and other departments of the University.

## DEPARTMENT OF BOTANY

The Department of Botany (UGC-SAP DRS-I and DRSII), established in 1998, has earned a name as an important centre of studies in Botany in the country. It has the expertise and infrastructure to help students opt for getting advanced training in many areas of specialization such as Reproductive Biology, Mycology and Plant Pathology, Mushroom Diversity and Cultivation, Bio-systematics, Ecology, Tissue Culture, Bryology and Stress Physiology. While the contributions have been tremendous in the understanding of fundamentals of Plant Sciences, the Department has also kept pace with the changing national priorities. The Department has a sprawling Botanical Garden and a unique Cactus Garden spread over an area of more than 8 acres, which are an abode to plant species from various categories like RET, medicinal and aromatic plants, succulents etc. The Botanical garden also houses a glass house, a green house and a herbarium cum museum. The herbarium cum museum has maintained more than 13,000 plant specimens of angiosperms, gymnosperms, pteridophytes, bryophytes, mushrooms and many artefacts of the plant origin. Recently, the garden has acquired the membership of Botanical Garden Conservation International.

### Programmes offered by the Department

- M.Sc.
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Nil

### Thrust Areas of Teaching and Research

- Mycoflora and Mycotoxicology
- Exploraton of soil micromycetes, keratinophilic and plant pathogenic fungi
- Diversity of Mushrooms and their cultivation.
- Morphological and Molecular Diversity of Vascular Plants
- Reproductive Biology of Economically important and RET Taxa and Weeds
- Analysis of Cytological variability
- Plant Taxonomy and Biosystematics
- Ecology and Ethnobotany
- Plant Physiology

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Dr. Namrata Sharma	Ph.D.	Professor and Head	Plant Reproduction	26
Dr. Susheel Verma	Ph.D.	Professor	Conservation Biology	
Dr.Yash Pal Sharma	Ph.D.	Professor	Mycology and Plant Pathology; Mushroom Biology	27
Dr.Veenu Kaul	Ph.D.	Professor	Cytogenetics and Reproductive Biology	30

Dr. Sikander Pal	Ph.D.	Associate Professor	Plant Physiology and Plant Biochemistry	22
Dr. Geeta	Ph.D.	Associate Professor	Cytogenetics; Plant Tissue Culture	20
Dr. Harish Chander	Ph.D.	Assistant Professor	Ecology; Plant Taxonomy	19
Ms. Skarma Nonzom	M.Phil.	Assistant Professor	Mycology and Plant Pathology, Fungal Diversity	5.5

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Madhu Raina	Ph.D.	03
Dr. Sajan Thakur	Ph.D.	03

#### Details of Research Projects including international projects and national collaborative projects

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Characterization and cultivation of wild pomegranate ( <i>Punica granatum</i> L.) for generating livelihood, security and entrepreneurship in Himalayan region of Jammu Division of J&K	DBT	98.35	Ongoing
Identification of novel root traits regulating phosphate uptake and use efficiency in maize germplasm of North Western Himalayas	SERB	10.42	Ongoing
Genome wide association studies (GWAS) of Maize roots for improving traits regulating phosphate use efficiency	JK STIC	4.50	Ongoing
Exploration of variability in Genetic Systems of <i>Artemisia</i> species abounding NW Himalayas with emphasis on the economic and evolutionary significance of chromosomal races	JK STIC	4.00	Ongoing
Evaluation of Cytological Molecular and Biochemical Diversity in <i>Drimys Indica</i> (Roxb.) Jessop.	JK STIC	4.00	Ongoing

**International Projects:** Nil

**All India Collaborative Projects:** Nil

#### Details of Publications:

- Sharma, YP. 2022. "Rosa machailensis (Rosaceae), a new species from Jammu and Kashmir, India".

- Sharma, Y.P. 2022. "Measuring the Impact of Conservation: The Growing Importance of Monitoring Fauna, Flora and Funga".
- Sharma, Y.P. 2022. "An annotated catalogue of the lichenicolous fungi of Jammu and Kashmir and Ladakh, India with new records and identification key".
- Sharma, Y.P. 2022. "Tricholoma cingulatum (Tricholomataceae): A new record to Indian mycobiota from Trans-Himalayan region of Drass (Ladakh), India".
- Sharma, Y.P. 2022. "Some interesting Myxomycetes of Jammu and Kashmir, India".
- Sharma, Y.P. 2022. "Lactarius badiosanguineus: A new record to Indian mycobiota from Jammu and Kashmir, India".
- Sharma, Y.P. 2022. "Wild Medicinal Mushrooms of the Northwest Himalayas of Jammu and Kashmir, India and Their Traditional and Modern Applications".
- Sharma, Y.P. 2022. "Pleurotus shentelii (Pleurotaceae): a new edible mushroom from Trans-Himalayan region of Ladakh, India".
- Sharma, Y.P. 2022. "Distribution and ethnomedicinal importance of genus Rosa L. (Rosaceae) in India".
- Sharma, Y.P. 2022. "Morphological and molecular characterization of two species of Pholiota from North-western Himalaya, India".
- Sharma, Y.P. 2022. "An annotated catalogue of the lichenicolous fungi of Jammu and Kashmir and Ladakh, India with new records and identification key".
- Sharma, Y.P. 2022. "Tricholoma cingulatum (Tricholomataceae): A new record to Indian mycobiota from Trans-Himalayan region of Drass (Ladakh), India".
- Sharma, Y.P. 2022. "Some interesting Myxomycetes of Jammu and Kashmir, India".
- Sharma, Y.P. 2022. "Mycochemical composition and antioxidant activity of Flammulina velutipes: a comparative study on hydromethanol, decoction and infusion extracts".
- Sharma, Y.P. 2023. "Lactarius bhaderwahensis: a new species of Lactarius subg. Plinthogalus (Russulaceae) from coniferous forests of Northwestern Himalayas, India".
- Sharma, Y.P. 2023. "Microbes mediated plastic degradation: A sustainable approach for environmental sustainability".
- Sharma, Y.P. 2023. "Biodiversity and Functional Attributes of Rhizospheric Microbiomes: Potential Tools for Sustainable Agriculture".
- Sharma, Namrata. 2022. "Spatial Distribution and Floristic Composition of Overstorey Vegetation in Zanthoxylum armatum DC. Inhabited sites of Union Territory of Jammu & Kashmir, India".
- Sharma, Namrata. 2022. "Sexual dimorphism, male biasness and ambiphily in Zanthoxylum armatum; traits for reproductive efficiency".
- Sharma, Namrata. 2022. "Waste Chicken Eggshell-Derived CaO Based Magnetic Solid Base Catalysts for the One-Pot Synthesis of Tetrahydro-4H-chromenes and Benzopyranopyrimidines".

- Sharma, Namrata. 2022. "Synergistic promotion of Ag nanoparticles supported on magnetic Cu based metal organic framework for A3-coupling and synthesis of benzopyranopyrimidines".
- Nonzom, S. 2022. "Dematiaceous fungi as etiological agents of superficial mycosis in North India".
- Nonzom, S. 2022. "Potential and responses of microfungi to the dynamics of cold environments".
- Nonzom, S. 2022. "Comoclathris acuminata (Pleosporaceae, Pleosporales): A new endophytic species from Indian Himalayas".
- Verma, S. 2022. "Ensemble modelling to predict the impact of future climate change on the global distribution of *Olea europaea* subsp."
- Verma, S. 2022. "Time series analysis of climatic variability and trends in Shivalik to Pir Panjal mountain range in the Indian western Himalaya".
- Verma, S. 2022. "Fabric-Based Wearable Self-Powered Asymmetric Supercapacitor Comprising Lead-Free Perovskite Piezoelectrodes".
- Verma, S. 2022. "Invasion and Colonization of Pathogenic *Fusarium oxysporum* R1 in *Crocus sativus* L. during Corn Rot Disease Progression".
- Verma, S. 2022. "Composition and community structure of *Olea ferruginea* Royle forests in Jammu and Kashmir, India".
- Verma, S. 2022. "Invasion and Colonization of Pathogenic *Fusarium oxysporum* R1 in *Crocus sativus* L. during Corn Rot Disease Progression".
- Verma, S. 2022. "Nutrient Analysis, Species Diversity and Phytosociology Community Characteristics of Alpine Grasslands: A Comparative Analysis of Less Studied Biodiversity Heritage Hotspots".
- Verma, S. 2022. "Ambophily in *Olea ferruginea*: a transitional state in the pollination syndrome".
- Verma, S. 2023. "Temperature Induced Flowering Phenology of *Olea ferruginea* Royle: A Climate Change Effect".
- Verma, S. 2023. "Plant growth promoting microorganisms mediated abiotic stress tolerance in crop plants: a critical appraisal".
- Kaul, Veenu. 2022. "Quantification of  $\hat{I}^2$ -ODAP content in seeds of *Lathyrus aphaca* L: a minor crop species of local importance".
- Kaul, Veenu. 2022. "Metabolomics of Above and Below Ground Parts of *Commelina benghalensis* an Amphicarpic Weed Using GC-MS".
- Kaul, Veenu. 2022. "Are subtle phenophasic differences in *Solanum americanum* Mill. between years indicative of climate change?".
- Kaul, Veenu. 2022. "Potential seed dispersal mechanism of *Kigelia africana* (Lam.) Benth. in an urban habitat".

- Dutt, H.C. 2023. "Pedicularis cheilanthifolia var. albida (Orobanchaceae): A new record for the flora of Uttarakhand, India".
- Dutt, H.C. 2023. "Predicting the suitable habitats of *Elwendia persica* in the Indian Himalayan Region (IHR)".
- Dutt, H.C. 2023. "Homogeneity in Traditional Knowledge on Plant-Based Ethno-dyes in Reasi District, Jammu and Kashmir, India".
- Dutt, H.C. 2023. "Impatiens parviflora DC. (Balsaminaceae): An Addition to the Indian Flora".
- Pal, S. 2022. "Paclbutrazol improves surface water use efficiency by regulating allometric trait behavior in maize".
- Pal, S. 2022. "Synergistic promotion of Ag nanoparticles supported on magnetic Cu based metal organic framework for A3-coupling and synthesis of benzopyranopyrimidines".
- Pal, S. 2022. "Waste Chicken Eggshell-Derived CaO Based Magnetic Solid Base Catalysts for the One-Pot Synthesis of Tetrahydro-4H-chromenes and Benzopyranopyrimidines".
- Pal, S. 2022. "Tuning the catalytic performance of a Cu supported silica modified  $\text{Al}_2\text{O}_3$  nanocatalyst via cobalt-doping for A3-coupling".
- Pal, S. 2022. "Recent trends in root phenomics of plant systems with available methods – discrepancies and consonances".
- Pal, S. 2023. "Combinatorial impacts of elevated  $\text{CO}_2$  and temperature affect growth, development, and fruit yield in *Capsicum chinense* Jacq".
- Dutt, H.C. 2022, "An eco-friendly novel approach for bioconversion of *Saccharum spontaneum* biomass to biofuel-ethanol under consolidated bioprocess".

#### **Awards/Fellowships-Faculty:**

- Dr. Harish Chander Dutt, Assistant Professor, Department of Botany, University of Jammu received a prestigious "Scientist of the Year Award" for his contributions to ecological and ethnobotanical research. The award was conferred upon him by the International Academy of Science and Research (IASER), Kolkata during the national conference organized by Government Degree College Doda in collaboration with IASER and Confederation of Indian Universities, New Delhi.

#### **Awards (Students/Scholars):**

- A team from Department of Botany, University of Jammu bagged 1<sup>st</sup> Position in Hackathon 1.0 competition organized by CSIR Indian Institute of Integrative Medicine as a part of National Science Day 2023 for empowering, promoting and strengthening biotech-based Startup Ecosystem & Skill Development in youth of Jammu & Kashmir and Ladakh. More than 30 teams participated from all over J&K with startup ideas which could bring a promising product/technology in the market. The team comprising of Mr. Azhar, Mr. Komal, Mr. Anil, Ms. Shiny and Ms. Sweta along with Prof. Veenu Kaul, Head, Department of Botany and other faculty members was also felicitated by Prof. Umesh Rai, Vice Chancellor, University of Jammu.

## Collaborations/Linkages

- CAS Key Laboratory for Plant Diversity and Biogeography of East Asia, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, Yunnan, China.
- Delhi University, New Delhi, India.
- Jawaharlal Nehru University, New Delhi
- University of Calcutta, Kolkata, West Bengal, India.
- State Forest Research Institute, Jammu, Jammu & Kashmir, India.
- Department of Postharvest Science of Fresh Produce, Agricultural Research Organization, Volcani Center, Rishon LeZion, Israel
- Department of Biological Sciences, University of Lethbridge, Lethbridge, AB, Canada
- Department of Biological Sciences, Indian Institute of Science Education and Research (IISER), Mohali, SAS Nagar, Punjab, India.
- Department of Environmental Science, Assam University, Silchar, Assam
- Department of Plant Pathology and Weed Research, Institute of Plant Protection, Agricultural Research Organization (ARO) – Volcani Institute, Israel
- Assam Agricultural University, Jorhat 785013, Assam, India
- Prince Sattam bin Abdulaziz University (PSAU), Alkharj, Saudi Arabia
- Sher-e- Kashmir University of Agricultural Sciences and Technology, Jammu
- Central University of Kashmir, Ganderbal
- Seoul National University, Seoul
- King Saud University, Riyadh
- Botanical Survey of India, Salt Lake City, Kolkata
- G.B. Pant National Institute of Himalayan Environment (NIHE), Pangthang, Gangtok
- College of Sciences, Taif University, Saudi Arabia
- State Forest Research Institute, Jammu, Jammu & Kashmir
- CSIR-IIIM, Canal Road, Jammu (J&K)
- Institute for biodiversity, conservation and training , Bengaluru
- Botanic Gardens Conservation International Botanical Garden of the Department is registered with Botanic Gardens Conservation International (BGCI).
- Baba Gulam Shah Badshah University, Rajouri
- University of Kashmir, Srinagar
- NASI Jammu Chapter
- Society of Ethnobotanists, India

### **Outcome of linkages (use of infrastructure, publications, student exchange, faculty exchange etc.):**

Quality and impact factor of publications have improved.

### **Healthy practice/practices of the Department, which Department wants to highlight:**

- a) Superannuated teachers are invited time to time for delivering lectures, attending seminars and conferences and chairing sessions
- b) The Department organizes short and long botanical tours for studying diverse plant species at regular intervals.
- c) Seasonal festivals are celebrated regularly.
- d) Tree talks are held frequently

- e) Regular plantation drives are organized
- f) Regular interactions with civil society are held.
- g) Interactive sessions are held with the students and faculty member of different colleges and schools

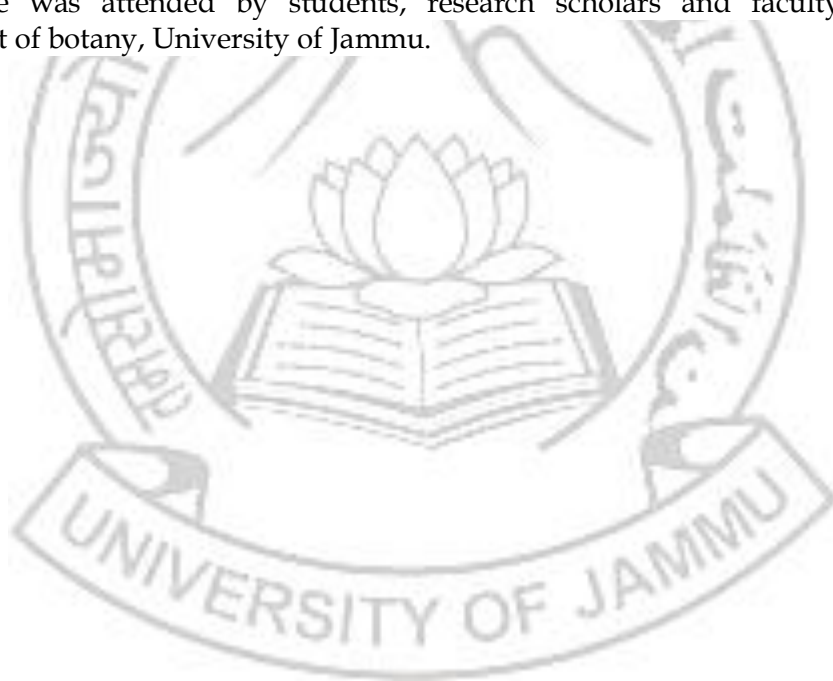
**Activities/Events organized:**

- A four-day National Workshop on the “Polyphasic Identification of Macrofungi” under the project sanctioned by the National Mission for Himalayan Studies (NMHS), GB Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora (MoEF & CC, Government of India). The workshop was aimed to train research students/young faculty for field explorations and laboratory techniques for the identification and characterization of wild macrofungi which would help them set up their research base at their respective laboratories/institutions through morpho-taxonomic and molecular identification approaches. Dr. Dyutiparna Chakaraborty; Dr. Aniket Ghosh and Dr. Manoj Emanuel Hembrom from Botanical Survey of India, Kolkata and Dr. Tahir Mehmood and Dr. Sanjeev Kumar from the Department of Botany were the Resource Persons. Researchers from Panjab University, Chandigarh; Punjabi University, Patiala; University of Delhi; University of Kashmir; SKUAST-Jammu; Government Degree College, Kishtwar and the University of Jammu participated in the workshop.
- A unique ceremony on the eve of ‘Raksha Bandhan’ wherein the traditional sacred and protective threads ‘Rakhis’ were tied to the trees by the students, research scholars and the faculty members in order to express love, affection and harmony towards nature and nation. During the celebration, sacred threads were tied by the participants to some unique plants including sacred Tulsi, historic Magnolia, Sandalwood, Rudraaksh, Mahua, Putranjiva, Peepal, Chandani, Sita-Ashok, Haarshringaar, Paarijaat, etc. The participants while tying the Rakhis, also took a pledge to protect and conserve nature and its bounties to mitigate the challenges of climate change for a healthier future.
- Department of Botany in collaboration with National Mission on Himalayan Studies (NMHS); Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India and Government Degree College, Drass (Kargil) organized a day long workshop. Prof. Yash Pal Sharma, Department of Botany, University of Jammu and the Principal Investigator of the NMHS project “Database Development on Diversity and indigenous knowledge on mushrooms towards their cultivation and conservation in Trans Himalayan District of Kargil”, enlightened the participants on the life cycle patterns of mushrooms, mushroom diversity, their ecological role, and economic importance. The workshop was attended by more than 60 participants including students and faculty members of Government Degree College, Drass (Kargil).
- Six-day National Workshop on “Microtomy: Principle, Procedures and Applications. The event was organized and supported by the Botanical Club of University of Jammu.
- Two-day national seminar on ‘Plant and Microbial Sciences: Achievements and Way forward’ under the aegis of UGC-SAP DRS II program sanctioned to the Department of Botany and funded by DST (SERB) and DBT, GoI. Dr. Sanjay Kumar, Director CSIR-Institute of Himalayan Bio-resource Technology, Palampur was the Keynote Speaker and Prof. Absar Ahmed, a



renowned nano-technologist from Aligarh Muslim University was the special guest on the occasion.

- An Awareness lecture on “Essence of Constitutional Values” by Prof. Arvind Jasrotia, Registrar, University of Jammu. Prof. Jasrotia highlighted some main components of the Indian Constitution and discussed in length about the essence of Justice, Liberty of thought, expression and democracy. He said, Constitution of India is live, elastic and subservient to the needs of society. Further, he also stressed upon the responsibilities of Indian citizens towards national public property like the national anthem, national flag and emblem.
- Botanical Club, Department of Botany in collaboration with Jammu, Kashmir and Ladakh Chapter of Society of Ethnobotanists and Jammu and Kashmir Biodiversity Council, Jammu and Kashmir Forest Research Institute organized a Capacity Building and Awareness Program on updation and verification of People’s Biodiversity Register (PBRs) in University of Jammu. People’s Biodiversity Register is an initiative started by National Biodiversity Authority (NBA), Chennai to document the Biodiversity of the Country and traditional knowledge (TK) associated with it so that IPR’s can be protected. Mr. Rakesh Abrol, DFO Research Forest Division, JK Forest Research Institute was the Resource Person. A small documentary on the PGRs was also visualized wherein the importance and methods of PBR were discussed. The programme was attended by students, research scholars and faculty members of the department of botany, University of Jammu.



## DEPARTMENT OF ENVIRONMENTAL SCIENCES

The Department of Environmental Sciences was established in 1995 as a center in the Department of Bio-Sciences. After trifurcation of latter, a separate department was created in September, 1998. The Department is a part of Faculty of Life Sciences.

The Department has 6 teaching faculty members. The Thrust area of research includes Terrestrial Ecology, Solid Waste Management, Pollution Studies, Limnology & Fisheries. The Department conducts M.Sc., M.Phil & Ph. D. Programmes in Environmental Sciences. Our students are making contribution in areas such as Higher Education, Kashmir Administrative services, various Scientific Institutes of country, Army, Police etc. Besides, many of our students have qualified National Eligibility Test (NET) and GATE.

### Programmes offered by the Department

- M.Sc.
- Ph.D.

### Interdisciplinary Programmes offered and details of Departments/disciplines involved

- Climate Change: Issues & Policies
- Man & Environment: Issues & Policies
- Computer Application
- Environment Economics
- Environmental Law
- Natural Resources: Conservation and Management

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research

- Terrestrial Ecology
- Solid Waste Management
- Air and Water Monitoring
- Phytodiversity and Natural Resource Monitoring
- Waste water Treatment / Bioremediation
- EIA & EMP Studies and Limnology
- Remote Sensing and GIS

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Anil K. Raina	Ph.D.	Professor	Limnology, Forest Ecology & Pollution	
Dr. Piyush Malaviya	Ph.D.	Professor	Environmental Microbiology, Bioremediation	22

Dr. Deepika Slathia	Ph.D.	Senior Assistant Professor	Limnology, Aquatic Microbiology and pollution studies	20
Dr. Rakesh Kumar	Ph.D.	Assistant Professor	Environmental Geochemistry	07

**Faculty Members appointed during the period (Open): Nil**

**Faculty Members Promoted (CAS): Nil**

**Faculty Members Superannuated: Nil**

**Emeritus/Adjunct Professors**

- Prof. R. Jindal Punjab University, Chandigarh.
- Prof. G. A. Bhat Department of Environmental Sciences, University of Kashmir.
- Prof. A. K. Thukral Department of Botanical & Environmental Sciences, GNDU, Amritsar.
- Mr. R. S. Jasrotia (IFS) Forest Department, J&K.

**Contractual Faculty in the Department**

Name of the Faculty	Qualification	Experience in Years
Dr. Meenakshi Khajuria	Ph.D.	12

**Details of above mentioned projects**

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Optimizing fertigation quality of distillery waste water for agricultural use with special reference to Pisumsativum	JKSTIC	9.40	Ongoing
Ecological and Socio-Economic valuation of some riverine wetlands of Jammu for conservation and sustainable use	JKSTIC	9.00	Ongoing
Geochemical Fractionation, Partitioning, and Health Implications of Heavy Metals in Urban Topsoils of Jammu City, India	SERB	10.00	Ongoing

**International Projects: Nil**

**All India Collaborative Projects: Nil**

**Publications:**

Name of the Author	Title of the Paper/s
Prof. Anil K Raina	<ul style="list-style-type: none"> <li>• Spatial water quality assessment of a mountain stream in northwestern India using multivariate statistical techniques.</li> <li>• Carbon dioxide sequestered by trees in an urban institution: A case study.</li> </ul>
Prof. Piyush Malaviya	<ul style="list-style-type: none"> <li>• Performance evaluation of vertical constructed wetland units with hydraulic retention time as a variable operating factor.</li> <li>• Constructed wetlands for textile wastewater remediation: A review on concept, pollutant removal mechanisms, and integrated</li> </ul>

Name of the Author	Title of the Paper/s
	<p>technologies for efficiency enhancement.</p> <ul style="list-style-type: none"> <li>• Recent advances in microalgae-based remediation of industrial and non-industrial wastewaters with simultaneous recovery of value-added products.</li> <li>• Bioelectricity generation from human urine and simultaneous nutrient recovery: Role of Microbial Fuel Cells.</li> <li>• Nanomaterials for remediation of pharmaceutical containing aqueous medium and wastewaters.</li> <li>• Emerging Nano-Bio Material for Pollutant Removal from Wastewater.</li> <li>• Influence of greenhouse gases on plant epigenomes for food security.</li> <li>• Impact of greywater on germination and physiological responses of <i>Triticum aestivum</i> L. HD 2967 in soil amended with poultry biochar.</li> <li>• Short-term impact of poultry biochar amendments to stimulate antioxidant enzyme activity of wheat (<i>Triticum aestivum</i> L. HD-2967) in response to greywater.</li> <li>• Textile wastewater phytoremediation using <i>Spirodela polyrhiza</i> (L.) Schleid assisted by novel bacterial consortium in a two-step remediation system.</li> <li>• Role of Microorganisms in Environmental Remediation and Resource Recovery through Microbe-Based Technologies Having Major Potentials.</li> <li>• Conversion of food waste into energy and value-added products: a review.</li> <li>• Ecosystem services and climate action from a circular bioeconomy perspective.</li> </ul>
Dr. Deepika Slathia	<ul style="list-style-type: none"> <li>• Water quality characterization and pollution source apportionment in the Himalayan river flowing through Jammu City, India, using multivariate statistical approach and geospatial techniques</li> <li>• A Review of Defluoridation Techniques of Global and Indian Prominence.</li> <li>• Application of multiple linear regression models to determine microbial water changes across highly disturbed lower Himalayan stream and the ground water sources in the proximity, Jammu (India).</li> <li>• Assessment of abiotic and biotic characteristics of two wetlands of Jammu region, (J&amp;K), India.</li> </ul>
Dr. Rakesh Kumar	<ul style="list-style-type: none"> <li>• Atmospheric Microplastics: Perspectives on Origin, Abundances, Ecological and Health Risks.</li> <li>• Health implications, distribution and source apportionment of heavy metals in road deposited dust of Jammu City in northern India.</li> <li>• Microplastics in the Air and Their Associated Health Impacts.</li> </ul>

**MoUs:**

- Regional Centre for Urban and Environmental Studies (RCUES), Lucknow.

## Consultancy Services:

- EIA & EMP for commissioning of passenger aerial ropeway at Jammu.
- EIA & EMP of Industrial Estate establishment at Ghatti, Kathua.
- EIA & EMP for commissioning of passenger aerial ropeway Km. 99 of NH 1A to village Sangote & to Patnitop.
- EIA & EMP for H.E. project Kiru, Kishtwar Jammu.
- EIA & EMP for H.E. project Kwar, Kishtwar Jammu.

## Activities/Events organized:

- Department of Environmental Sciences in collaboration with Green Campus Task Force (GCTF-JU) organized an e-rickshaw rally with the objective to motivate Jammu to adopt eco-friendly practices and e-vehicles for good healthy life. The event was supported by 92.7 Big FM and Sai Om power System, Jammu.
- Green Campus Task Force (GCTF-JU) and Directorate of Internal Quality Assurance (DIQA) in collaboration with Digital Age Strategies Pvt. Ltd., Bangalore organized a one-day “Awareness cum Training Programme on Green Auditing for Sustainable Campus”. Mr. Madan Mohan, Lead Consultant, Digital age strategies Pvt Ltd was the Resource Person.
- A two-week online refresher course in Environmental Sciences (Interdisciplinary). The course is being attended by more than 30 faculty members from various institutions across the country.
- Department of Environmental Sciences in collaboration with the Human Resource Development Centre (HRDC) organized five-day workshop on “Advances in Environmental Monitoring and Analysis”. The workshop comprised of twenty sessions wherein eminent resource persons from reputed Institutes/Universities like Jawaharlal Nehru University; The Energy and Resources Institute, Tejpur University; Central University of Jammu; Indian Institute of Integrative Medicine; Sher-e-Kashmir University of Agricultural Sciences & Technology (Jammu) and Directorate of Ecology, Environment and Remote Sensing, were called to deliver lectures on the latest tools and techniques in monitoring and analysis of various environmental components like air, water, and soil. Hands-on training on various visualization methods and statistical techniques for representing and interpreting the environmental data was also provided to the participants during the practical/demonstration sessions. The Keynote lecture of the workshop was delivered by Prof. R K Singhal, Head, Analytical Chemistry Division, Bhabha Atomic Research Center, Mumbai on tools and techniques in environmental monitoring. A total of thirty-two participants from both within and outside the JKUT participated in the workshop.
- An expert talk on “Threats to Birds of India” by ace ornithologist and former Director of Bombay Natural History Society (BNHS), Dr. Asad R Rahmani. Dr. Rahmani delivered a presentation on the Birds of India and deliberated in detail about the issues and concerns the birds face. Dr. Rahmani said that India is a vast country manifested with different climate regimes and a vast array of habitats from subtropical forests to vast grasslands, mountains capes and innumerable water bodies that offer permanent or transitory habitat to the birds that

may be residential, local, or transboundary migrants. India being a developing country has seen unprecedented infrastructural development that has an evident impact on the existence of different life forms, including plants, animals, birds, reptiles and even insects.

- Department of Environmental Sciences in collaboration with Analytik Jena organized a technical seminar on “Elemental and Carbon Analyses Techniques in Environmental, Geological, Soil, and Drinking Water Samples”. The seminar was attended by technical experts from various government departments, including the Pollution Control Board, Agriculture, Horticulture, and PHE, as well as research scholars and faculty members from the University of Jammu. The technical sessions were delivered by Mr. Sudheer Kumar Reddy, Product Manager, Spectroscopy on “Elemental Analysis using AAS, ICP-OES, & ICP-MS Techniques.” and M. Ananthan, Product/Industry Manager of the Elemental Analysis division on “Carbon Analyses”.
- Department of Environmental Sciences in collaboration with ESRI, India and Innovative Systel (Authorized Partner of ESRI India) organized a one-day workshop on ArcGIS Applications in Higher Education: Emerging Trends. The purpose of the workshop was to acquaint the participants with the importance and applications of Geographical information system (GIS) in biological and earth sciences, the use of ArcGIS tools to visualize real-world features, explore spatial data and analyze maps to communicate information and make decisions. Ms. Aprajita Singh, ESRI India; Mr. Mallesh Balina, ESRI India and Mr. Rominder Bedi, Innovative Systel were the Resource Persons. The workshop was organized in hybrid mode wherein around 100 participants from various educational institutes across the country participated.
- Three-day Educational Trip to “Udhmapur-Dudu-Basantgarh-Ramnagar Circuit” to provide students with an opportunity to understand the regional natural heritage and integrate practical knowledge with informal environments to enhance learning capabilities. Students also interacted with the local community to sensitize them regarding the importance of conserving the flora and fauna, cultural heritage, and springs of the area. Students visited several protected monuments, like the Sheesh Mahal in Ramnagar, which is a historical royal mansion built by Raja Ram Singh in 1885. Students were also shown the walls of the exquisite palace, which are ornamented with beautiful murals and paintings depicting the stories of Indian epics like the Mahabharata and Ramayana. The Educational trip was an exposure for the students to understand literary theory practically by visiting ecological and archaeological hotspots in the Jammu region. Dr. Rakesh Kumar and more than thirty post-graduate students from the department participated in the trip.
- One day “Community Sensitization Programme on Solid Waste Management” at Bahu Fort area with the aim to create awareness and increase the knowledge of the local community regarding the causes and consequences of unscientific disposal of waste, and the potential solutions and benefits of waste reduction, reuse, and recycling.

## DEPARTMENT OF ZOOLOGY

The Department of Zoology came into existence in the year 1998 as a result of the split of the erstwhile Department for Bio-Sciences (Botany & Zoology) which was established in 1971.

The Department of Zoology is an excellent institute of teaching, research and extension in various fields of Animal Science, imparting knowledge through M.Sc., M.Phil and Ph.D. programmes. The research activities of the Department are conducted under three main thrust areas viz Aquatic Biology, Terrestrial biology and Animal Cytogenetics. The Department is striving hard to excel in training human resources in various fields of animal sciences like Fisheries, Aquaculture, Limnology, Entomology, Wildlife, Cytogenetics etc. and has been chosen as a Centre for Special Assistance Programme (SAP) by UGC for monitoring the dwindling regional animal resources and thereby to formulate strategies for the conservation of faunal diversity of the state.

The Department of Zoology has been developed as an epicenter, imparting knowledge to all the concerned stakeholders through various in house and field research and academic activities.

There is an excellent placement work track record of our students. They are making contributions in areas such as Higher education, State Administrative (KAS), in various National Scientific Institute, Indian Forest Services, States Fisheries Departments etc. Number of scholars of the Department have been awarded research fellowships such as JRF, SRF, Post Doctoral Fellowships, Fast track young Scientists funded by various national research funding agencies viz UGC, CSIR, ICAR, DST, Ministry of Environment and Forestry etc.

Apart from teaching the faculty members are being invited by various National Universities and Institutes for interphase meetings and for consulting collaborative research programme. The Department is always trying to incorporate innovative ideas to make it a centre of excellence.

### **Programmes offered by the Department:**

- M.Sc. Zoology
- Ph.D. Zoology
- M.Sc. Sericulture (Nodal Centre)
- M.Sc. Human Genetics (Nodal Centre)

### **Interdisciplinary Programmes offered and details of Departments/disciplines involved:**

Open Courses Offered:

M.Sc. 3<sup>rd</sup> semester – Economic Zoology

M.Sc. 4<sup>th</sup> semester – Biological Anthropology

### **Recognition/Accreditation of the programmes offered by the Department (other than University):**

Nil

### **Thrust Areas of Teaching and Research:**

**Aquatic biology:** (Fish & Fisheries, Limnology, Aquaculture, Aquatic Biodiversity, Fish growth, Reproduction and Nutrition Shelf life enhancement and value addition of edible fish, Ornamental fish and Prawn culture Aquatic Biological Invasions, Biofloc utilization & Pollution: Status and Monitoring).

**Terrestrial Biology:** (Entomology, Terrestrial Biodiversity, Terrestrial Biological Invasions)

**Animal / Human Cytogenetics:** Cytological and molecular diversity studies, Molecular genetic diagnosis of Human Genetic disorders and cytogenetic analysis of Congenital anomalies)

### Faculty Profile

Name	Qualification	Designation	Specialization	No. of years of Experience
Prof. Roopma Gandotra	Ph.D	Professor	Aquaculture, Fish Biology, Endocrinology and Microbiology	
Prof. Seema Langer	Ph.D	Professor	Fish, Prawn, Crab, Taxonomy, Culture, Parasitology	28
Dr. Sarbjeet Kour	Ph.D	Associate Professor	Aquatic biology, Ecology, Limnology	12
Dr. Amit Gupta	Ph.D	Associate Professor	Immunology and Pharmacology	
Dr. Arti Sharma	Ph.D	Sr. Assistant Professor	Aquatic Ecology, Aquaculture & Fish & Fisheries	13
Dr. Parvinder Kumar	Ph.D	Sr. Assistant Professor	Human Genetics, Molecular Biology Medical/ clinical genetics Population genetic	13
Dr. Rakesh Kumar	Ph.D	Assistant Professor	Genetics	12
Dr. Ripu Daman Parihar	Ph.D	Assistant Professor	Nematology, Biocontrol	05
Dr. Chinmoyee Maharana	Ph.D	Assistant Professor	Neuroscience, Neurodegenerative diseases	03

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Manvi Khajuria	Ph.D.	05
Dr. Nirmal Singh	Ph.D.	13
Dr. Pankaj Chhibber	Ph.D.	02

### Details of Research Projects including international projects and national collaborative projects

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Morphology & Molecular Taxonomy of Terrestrial Isopods from Jammu Region.	UoJ (Seed Grant)	2.00	Ongoing
Molecular genetics of Kidney Stone (Nephrolithiasis) in Jammu Region of J&K UT	JKSTIC	8.90	Ongoing
Cytogenetic Study of Children borne with Genetic Disorder of Jammu Region	UoJ (Seed Grant)	2.00	Ongoing
Role of nesfatin-1 in regulation of ovarian	UoJ	2.00	Ongoing



Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
functions: A comparative study			
Micro RNAs expression profiling for exploring their potential use as diagnostic biomarkers in human prostate cancer	JKSTIC	8.80	Ongoing
Role of MicroRNA and androgen signalling pathway gene polymorphisms in the Pathophysiology of prostate cancer.	UoJ (Seed Grant)	2.00	Ongoing
Study of Galleria mellonella and its mass rearing in the laboratory on artificial diet.	UoJ (Seed Grant)	2.00	Ongoing
Survey and identification of entomopathogenic nematodes from university campus and its adjoining areas.	UoJ (Seed Grant)	1.00	Ongoing
Unravelling role of miRNAs in understanding AD	UoJ (Seed Grant)	2.00	Ongoing
Discovery of candidates for molecular diagnostics in AD	UoJ (Seed Grant)	1.00	Ongoing

**International Projects:** Nil

**All India Collaborative Projects:** Nil

**Others:** Nil

**Collaborations/Linkages:**

- ZSI, Kolkata
- ICMR, Dibrugarh, Assam
- Kashmir University
- SMVDU, Katra
- GMC, Jammu
- ASCOMS, Jammu

**Linkages**

<b>National</b>
Indian Agricultural Research Institute New Delhi. Zoological Survey of India, Dehradun, Kolkata. Central Institute of Fisheries Education (CIFE), Mumbai. Forest Research Institute, Dehradun. GB Pant Institute of Himalayan Environment and Development, Almora. Punjabi University, Patiala. Kurukshetra University. Delhi University. Guru Nanak Dev University, Amritsar. Gurukul Kangri Vishwavidyalaya, Haridwar. Hemvati Nandan Bahuguna Garhwal University.
<b>Regional</b>
Kashmir University (CORD). Baba Ghulam Shah Badshah University, Rajouri. Islamic University, Kashmir. IIIM, Jammu. SKAUST, Jammu. J&K Fisheries Department. Sericulture Department. Depart of Ecology, Environment and Remote Sensing. State Forest Department.

**Outcome of linkages (use of infrastructure, publications, student exchange, faculty exchange etc.):**

**Healthy practices of other Departments/institutions emulated and adopted:** Nil

**Healthy practice/practices of the Department, which Department wants to highlight:**

**Innovations and best practices:** Field Study Tour and Collection Trips: M.Sc. Students are taken to short as well as long field trips every year within and outside the state to impart knowledge about the ecology, animal diversity and aquatic life. They also visit the coastal areas to study marine biology and visit various national parks and wildlife sanctuaries and numerous National institutions of repute. Students/Research scholars have regular access to ICT enabled resources. Computer laboratory and wifi internet facility provided. Teaching learning process also includes practical, field trips both within and outside the state and practical trainings of scholars in the laboratories reputed national institutions and universities at regular intervals. In the regular Academic curriculum of the Department, a slot has been identified for Tutorial component in which both Indoor (Interactive sessions) and Outdoor activities (Visit to Educational/ Research Institutions etc.) are undertaken.

**Publications:**

Name of the Author	Tiutle of the Paper/s
Prof. Roopma Gandotra	<ul style="list-style-type: none"> <li>• Popularization of Bivoltine seiculture among tribal folk Jammu and Kashmir with Special Reference to Poonch District.</li> </ul>
Prof. Seema Langer	<ul style="list-style-type: none"> <li>• Population Dynamics of Maydelliathelphusa masoniana Henderson 1893 from Freshwater Bodies of Jammu region (Jammu &amp; Kashmir, India).</li> <li>• First report on chromosomal analysis of freshwater prawn, Macrobrachium kistnense (Decapoda: Palaemonidae) from Jammu region of Outer Himalayas, India.</li> <li>• Digenetic Trematode parasites in two fresh water fishes Ophiocephalus punctatus and Xenentodon cancila from North West Himalayas.</li> <li>• Study of Freshwater Prawn Diversity from Different Rivers of Jammu, India.</li> <li>• Studies on freshwater crab population as influenced by physico - chemical attributes in Gho -Manhasan stream, a tributary of river Chenab.</li> <li>• Multivariate analysis showing impact of different environmental factors on species richness and species density of freshwater mollusc communities inhabiting waters of North -West Himalayas.</li> <li>• Variations in water quality parameters and their correlation with fish catch per unit effort of Bhini stream, a tributary of River Ravi.</li> <li>• Molecular genetic diversity of a cultivable freshwater prawn Macrobrachium dayanum (Henderson, 1893) from Outer Himalayas, India.</li> <li>• Effect of stocking Apurva Advances in 2022 density on the growth performance of freshwater prawn, Macrobrachium dayanum from Jammu.</li> <li>• The evolution of integratedmultitrophic aquaculture in context of its design and components paving way to valorization via optimization</li> </ul>

Name of the Author	Tiutle of the Paper/s
	and diversification.
Dr. Arti Sharma	<ul style="list-style-type: none"> <li>• Fulvic acid isolation and characterisation from water of a Ramsar Lake Mansar, J&amp;K, India.</li> <li>• Biodiversity of Some Economically Significant Stored Grain Pests in Jammu, Jammu and Kashmir.</li> <li>• Water quality and heavy metal load in water and sediments of behlol Nullah, a tributary of River Tawi, Jammu (J&amp;K).</li> <li>• A Sustainable biosorption technique for treatment of industrial wastewater using snail shell dust(Bellamya Bengalensis).</li> </ul>
Dr. Parvinder Kumar	<ul style="list-style-type: none"> <li>• Neuroepidemiology study of headache in the region of Jammu of north Indian population: A cross-sectional study.</li> <li>• An Association Study of ESR1 - XbaI and PvuII Gene Polymorphism in Migraine Susceptibility in the Jammu Region.</li> <li>• Migraine as an inflammatory disorder with microglial activation as a prime candidate.</li> <li>• The complexities of migraine: A debate among migraine researchers: A review.</li> <li>• Algorithm for sample availability prediction in a hospital -based epidemiological study spreadsheet - based sample availability calculator.</li> <li>• Risk factors of pediatric acute lymphoblastic leukemia: A review.</li> <li>• Relationship of MTHFD1 G1958A and CBS 844ins68 polymorphism with congenital heart defects in North Indian population (Jammu and Kashmir): A case - control study.</li> <li>• Association of MTHFR and MS/MTR gene polymorphisms with congenital heart defects in North Indian population (Jammu and Kashmir): a case-control study encompassing meta-analysis and trial sequential analysis".</li> </ul>
Dr. Sarabjeet Kour	<ul style="list-style-type: none"> <li>• Studies on the epibiotic association between rotifer Brachionus rubens and cladocerans from water bodies of Jammu and Kashmir, India.</li> <li>• Seasonality of micro inhabitants and abiotic parameters of perennial pond of Jammu.</li> <li>• Zooplankton as bioindicators of trophic status of a lentic water source, Jammu (J&amp;K) with remarks on first reports.</li> <li>• Zooplankton Diversity and Water Quality Assessment of Lentic Waters of Jammu, India.</li> <li>• Bioactive compounds from mushrooms: Emerging bioresources of food and nutraceuticals</li> </ul>
Dr. Rakesh Kumar	<ul style="list-style-type: none"> <li>• An Association Study of ESR1- XbaI and PvuII Gene Polymorphism in Migraine Susceptibility in the Jammu Region.</li> <li>• A new genus and species of subfamily Dendrothripinae (Thysanoptera: Thripidae) from India.</li> <li>• Molecular Identification and Phylogenetic Analysis of Some Common</li> </ul>

Name of the Author	Title of the Paper/s
	Beetles (Coleoptera) of Jammu Region, India Using DNA Barcoding. <ul style="list-style-type: none"> <li>• Association of MTHFR and MS/MTR gene polymorphisms with congenital heart defects in North Indian population (Jammu and Kashmir): a case-control study encompassing metaanalysis and trial sequential analysis.</li> <li>• Algorithm for sample availability prediction in a hospital-based epidemiological study spreadsheet-based sample availability calculator.</li> </ul>
Dr. Ripu Daman Parihar	<ul style="list-style-type: none"> <li>• Heterorhabdits and Photorhabdus Symbiosis: A Natural Mine of Bioactive Compounds.</li> <li>• Regulation of plant defense against biotic stressors by brassinosteroids.</li> </ul>
Dr. Chinmoyee Maharana	<ul style="list-style-type: none"> <li>• An association study of ESR1- XbaI and PvuII Gene Polymorphism in Migraine susceptibility in the Jammu Region.</li> </ul>

#### Activities/Events organized:

- Department of Zoology in collaboration with Indian Institute of Technology (IIT) Gandhinagar, Gujarat organized seven-day workshop on “Atomic Absorption Spectroscopy (AAS) and Polymerase Chain Reaction (PCR) Techniques” sponsored by DST under the STUTI programme. The Department of Zoology has been selected as the training centre in northern India for STUTI Programme sponsored through IIT Gandhinagar, Gujarat. Dr. Ravindra Kumar, Head, Molecular Biology and Biotechnology division of ICAR-National Bureau of Fish Genetic Resources, Lucknow was the Keynote Speaker. The workshop was attended by 32 selected participants and students from various academic institutes of the state and all over India.
- Department of Zoology as a part of outreach and extension activities aiming for the welfare of farmer communities organized a Farmer’s Meet on “Technology Transfer from LAB to LAND” sponsored by J&K Science and Technology and Innovative Council. Sh. Ravi Kumar Bhau, President Border Belt Kisan Committee (BBKC) along with more than 20 farmers of BBKC participated in the programme. Prof. Umesh Rai, Chief Guest on the occasion highly appreciated Department of Zoology for joining hand with farmers on the field and encouraged for composite farming and proposed for land to lab approaches for future activities.
- Department of Zoology in collaboration with Department of Blood Transfusion and Immunohematology GMC, Jammu hosted a pre-conference workshop on “Transplant Immunology” as a part of 47<sup>th</sup> Annual National Conference of Indian Society of Blood Transfusion and Immunohaematology (ISBTI), TRANSCON-2022 B. The theme of the Conference was “Trends, Advances and Future Frontiers in Transfusion Medicine”. The primary goal of the TRANSCON-2022 B conference is to bring the Transfusion Medicine specialists from across the country to a common platform.
- Department of Zoology in collaboration with Rambhau Mhalgi Prabodhini, a unique Leadership Development Academy with an aim to nurture, impart training and capacity

building of social workers, institutions, organizations and start-ups; organized an interactive session cum online Chaupal on “Inclusive Society under G20”. Prof. Seema Langer, along with more than 60 Faculty and Research Scholars came together in the online Chaupal. The chaupal was led by C-20 Working Committee Member and Director, Inclusion at Connecting Dreams Foundation, Dr. Simi Mishra to discuss the topic of “Transgender Inclusion for Societal Development”.



## INSTITUTE OF HUMAN GENETICS

In 2008, as a part of academics, a highly advanced Post Graduate Course in Human Genetics was started. In year 2010, vide Jammu University Council Resolution No. 69.53. The nomenclature of the Department was changed to Institute of Human Genetics, University of Jammu.

The Academics and Research in the field of human genetic diseases is of prime importance as it has direct impact on human health and welfare. Human Genetics and its allied fields are emerging areas of research, dealing with the diagnosis, management and treatment of various genetic disorders. Students opting for post graduation in Human Genetics have a wide range of career avenues to pursue, both in research and academics. A vast number of research opportunities are available throughout the globe in different fields of Human Genetics viz. Medical Genetics, Clinical Genetics, Population Genetics, Cytogenetics, Molecular Biology and Genetic counselling. The passed out students of Human Genetics from Institute of Human Genetics have been placed in different reputed research Institutes in India as well as abroad. A number of students have opted for careers in pharmaceutical and biotechnological multinational companies. Students from the department have qualified the CSIR-NET, GATE and SET fellowships at state and national level. Alumni meets are held at regular intervals in the department where alumni interact with young students and scholars.

### Programmes offered by the Department:

- M.Sc.
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Nil

### Thrust Areas of Teaching and Research:

- Investigating the incidence of Human Congenital anomalies.
- Investigating the Chromosomal cause for these anomalies.
- Pre Natal Diagnosis
- Genetics Counseling
- Molecular Genetics for Hemophilia A, Beta Thalassaemia, fragile X, Diabetes (Type 2). Hereditary cardiovascular diseases etc.
- Molecular Characterization of mutations detected in Human Genetic Disease.
- Genomic Diversity using microsatellites in the different populations of J&K State.
- To analyze the genetic determinants of Type 2 Diabetes Mellitus and their role in its susceptibility in some North West Indian population.

### Faculty Profile

Name	Qualification	Designation	Specialization	No. of years of Experience
Prof. Manoj K Dhar	Ph.D.	Chief Coordinator	Plant Genomics and Molecular Biology, Cytogenetics	

Prof. B.K. Bajaj	Ph.D.	Coordinator	Industrial Biotechnology	22
Dr. Parvinder Kumar	Ph.D.	Deputy Coordinator	Human Genetics, Molecular Biology Medical/ Clinical Genetics; Population Genetics	13
Dr. Nisha Kapoor	Ph.D.	Deputy Coordinator	Host-Pathogen interaction	12

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Minakashee Sharma	Ph.D.	06
Dr. Sonia Sharma	Ph.D.	02
Dr. Monika Pandita	Ph.D.	04

### Collaborations:

- Government Medical College & Hospital, Jammu.
- Shri Maharaja Gulab Singh (SMGS) Hospital, Jammu.
- Acharaya Shri Chander College of Medical Sciences (ASCOMS), Sidhra, Jammu.
- Shri Mata Vaishno Devi University (SMVDU), Katra.
- CSIR-IIIM, Jammu.
- AIIMS, Jammu.

### Details of Research Projects including international projects and national collaborative projects

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Anti-inflammatory potential of probiotic lactic acid bacteria isolated from ecological niches of Jammu and Kashmir	JKST&IC	8.5	Ongoing
Mission program on Pediatric Rare Genetic disorders.	DBT	115.00	Ongoing
Screening of Potential genes for their tag SNPs that are responsible for susceptibility to Schizophrenia and generation of LD maps in Dogra population of Jammu region	JK-DST	9.06	Ongoing
Evaluating the critical role of Somatomedin B and Thrombospondin Type 1 Domain containing (SBSPON) gene in Type 2 Diabetes	SERB	20.00	Ongoing

### Research Publications:

- Ridhika Bangotra, Bhavneet Kour, and **Bijender Kumar Bajaj** (2023). Probiotic functional attributes of lactic acid bacteria from indigenously fermented milk product kalarei. *Indian Journal of Experimental Biology (IJEB)* 61.07: 546-557.
- Diksha Sawhney, Surbhi Vaid, Ridhika Bangotra, Surbhi Sharma, Harish Chander Dutt, Nisha Kapoor, Ritu Mahajan, **Bijender Kumar Bajaj** (2023). Proficient bioconversion of rice straw biomass to bioethanol using a novel combinatorial pretreatment approach based on deep eutectic solvent, microwave irradiation and laccase *Bioresource Technology* 375, , 128791 <https://doi.org/10.1016/j.biortech.2023.128791>
- Vishal Sharma, Parushi Nargotra, Surbhi Sharma, Diksha Sawhney, Surbhi Vaid, Ridhika Bangotra, Harish Chander Dutt, **Bijender Kumar Bajaj** (2023). Microwave irradiation assisted ionic liquid or deep eutectic solvent pretreatment for effective bioconversion of sugarcane bagasse to bioethanol. *Energy, Ecology and Environment*, Jan 23, 1- 16 <https://doi.org/10.1007/s40974-022-00267-0>.
- Surbhi Sharma, Ridhika Bangotra, **Bijender Kumar Bajaj** (2023). 'Application of nanomaterials for biofuel production from lignocellulosic biomass' In *Nanotechnology for Advanced Biofuels*, pp. 189-212. Elsevier, 2023. <https://doi.org/10.1016/B978-0-323-91759-9.00005-8>
- Surbhi Sharma, Mei-Ling Tsai, Vishal Sharma, Pei-Pei Sun, Parushi Nargotra, **Bijender Kumar Bajaj**, Chiu-Wen Chen, Cheng-Di Dong (2023). Environment Friendly Pretreatment Approaches for the Bioconversion of Lignocellulosic Biomass into Biofuels and Value-Added Products *Environments* 2023, 10, 6 <https://doi.org/10.3390/environments10010006>
- Shikha Sharma, Surbhi Vaid, Nisha Kapoor, Harish Chander Dutt, Bijender Kumar Bajaj, (2023). Bioprocess for enhanced production of a fibrinolytic protease with high thrombolytic potential from *Aspergillus flavus* SH71. *Research Journal of Biotechnology* 18(4):49-63 <http://dx.doi.org/10.25303/1804rjbt049063>
- Surbhi Vaid, Surbhi Sharma, Harish Chander Dutt, Ritu Mahajan, **Bijender Kumar Bajaj** (2022). An eco-friendly novel approach for bioconversion of *Saccharum spontaneum* biomass to biofuel-ethanol under consolidated bioprocess. *Bioresource Technology*, 363, 127784. <https://doi.org/10.1016/j.biortech.2022.127784>
- Parushi Nargotra, Vishal Sharma, Surbhi Sharma, Ridhika Bangotra, **Bijender Kumar Bajaj** (2022). Purification of an ionic liquid stable cellulase from *Aspergillus aculeatus* PN14 with potential for biomass refining. *Environmental Sustainability* <https://doi.org/10.1007/s42398-022-00232-x>.
- Gupta, Mahak, Ridhika Bangotra, Surbhi Sharma, Surbhi Vaid, Nisha Kapoor, Harish Chander Dutt, and **Bijender Kumar Bajaj** (2022). Bioprocess development for production of xylooligosaccharides prebiotics from sugarcane bagasse with high bioactivity potential. *Industrial Crops and Products* 178 (2022): 114591. <https://doi.org/10.1016/j.indcrop.2022.114591>
- Bisma Habib, Surbhi Vaid, Ridhika Bangotra, Surbhi Sharma, **Bijender Kumar Bajaj** (2022). Bioprospecting of probiotic lactic acid bacteria for cholesterol lowering and exopolysaccharide producing potential. *Biologia* 77, 1931-1951 <https://doi.org/10.1007/s11756-022-01058-y>



- Ram Sarup Singh, Navpreet Kaur, Dhandeep Singh, **Bijender Kumar Bajaj**, and John F. Kennedy (2022). Downstream processing and structural confirmation of pullulan—A comprehensive review. *International Journal of Biological Macromolecules* 208: 553-564. <https://doi.org/10.1016/j.ijbiomac.2022.03.163>
- Gurleen Kour, G, R Choudhary, S Anjum, A Bhagat, **Bijender Kumar Bajaj**, Z. Ahmed (2022). Phytochemicals targeting JAK/STAT pathway in the treatment of rheumatoid arthritis: Is there a future? *Biochemical Pharmacology*, p.114929. <https://doi.org/10.1016/j.bcp.2022.114929>



The logo of the University of Jammu is a circular emblem. At the top is a stylized atomic symbol. Below it are mountains, a lotus flower, and an open book. The emblem is surrounded by text in Hindi and Urdu. A banner at the bottom reads "UNIVERSITY OF JAMMU".

**FACULTY OF MATHEMATICAL SCIENCES**

## **DEPARTMENT OF COMPUTER SCIENCE & IT**

The Department of Computer Science & IT started in the University of Jammu with the initiation of Diploma Course in Computer Science and Applications in the year, 1987. Since then the Department has been continuously making its mark in the field of Information Technology, at both academic and industrial level. With the inception of MCA programme in 1994, the Department made all possible efforts to grow further besides academics. Presently the Department is quite rich in infrastructure particularly in terms of space, hardware, software and manpower and is continuously improving as pre changing technological developments. The Department has not only improved in academics and infrastructure but has provided the best opportunities for the students in terms of their placement in various multi-national as well as national companies. The majority of the students (alumni) are now placed at very prestigious positions in the global IT market.

With the purpose of promoting professional excellence and nourishing the resource oriented minds, the Department has been actively involved in providing the platform for Ph. D. programme in various domains of Computer Science and IT. Research fields like Data Mining and Warehousing, Visualization Techniques, Network Security, Software Engineering, Information retrieval, Natural Language Processing and Machine translation have been among the best exploited areas.

Being on the path of continuous academic progress and achievements and for enhancing and encouraging the inquisitiveness, the Department has started 2-years M. Tech. (Computer Science) programme from the academic session of 2014-15. The programme is planned and designed as per the needs and requirements of the higher educational institutions as well as industry.

The faculty has undertaken projects for agencies like the World Bank and the Department of Science and Technology, Government of India on issues like watershed management and the use of remote sensing for decentralized planning. The faculty members have also been providing consultancy to agencies like the World Bank.

### **Programmes offered by the Department**

- MCA
- M. Tech. (Computer Science)
- Ph.D.

**Interdisciplinary Programmes offered and details of Departments/disciplines involved: Nil**

### **Recognition/Accreditation of the programmes offered by the Department (other than University)**

AICTE (ID 1-3327170548)

### **Thrust Areas of Teaching and Research**

- Data Mining and Warehousing
- Information retrieval
- Natural language processing and Machine Translation
- Software Engineering
- Visualization Techniques, Textural Synthesis, Texture Graphics
- Soft Computing

- Computer Simulation and Modeling
- Computer Networks and Application Security
- E-governance

### Faculty Profile

Name	Qualification	Designation	Specialization	No. of years of Experience
Prof. Vibhakar Mansotra	Ph.D	Professor	Data Mining, Discrete Math. , Optimization tech. , Computer graphics. , Information retrieval, NM and stats, S/W quality	31
Prof. Vinod Sharma	Ph. D.	Professor	Database, Data Mining, Artificial Intel. Machine Learning	30
Prof. Lalitsen Sharma	Ph. D.	Professor	Computer networks, Theory of Computation, data Structures, network Security, Web technologies	27
Prof. Pawanesh Abrol	Ph. D.	Professor	Digital Electronics, VLSI, Object Oriented Prog. , Compiler Design, Visualization Tech., HCI, Digital Image tampering	26
Dr. Shubhnandan Singh Jamwal	Ph. D.	Associate Professor	Programming Languages, Web Technologies, Natural Language Processing, Machine Learning	17
Sh. Jasbir Singh	MCA, NET-JRF	Sr. Assistant Professor	Algorithms Design and Analysis, Theory of Computation, Network Security, .NET Technologies	104

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Palak Mahajan	Ph.D.	04
Dr. Alka Gupta	Ph.D.	03
Dr. Sawinder Kour	Ph.D.	02

### MoUs/ Collaborations:

- MoU with M/S Sedulity Solutions and Technology, New Delhi for setting up Centre of Excellence Lab.

- MoU with National Institute of Electronics and Information Technology (NIELIT) for imparting various training programmes in the field of IECT at PG Department of Computer Science and IT.
- MoU with Advance tech India Pvt. Ltd., Mohali for imparting various Training Programmes in the field of IoT at PG Department of Computer Science and IT.

**Detail of Research Projects including international Projects and national collaborative projects:**

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Assimilating Domain Knowledge using Ontology Mapping for enhanced reasoning capability	JKST&IC	2.75	Ongoing

**Publications:**

Name of the Author	Title of the Paper/s
Prof. Lalitsen Sharma	<ul style="list-style-type: none"> <li>• A Novel Approach for Detecting SQL Injection Attacks Using Snort.</li> <li>• Linking of Ontologies for Composition of Semantic Web Services Using Knowledge Graph.</li> <li>• Implementing SPARQL-Based Prefiltering on Jena Fuseki TDB Store to Reduce the Semantic Web Services Search Space.</li> <li>• Study of Anomaly Detection in IoT Sensors.</li> </ul>
Prof. Vibhakar Mansotra	<ul style="list-style-type: none"> <li>• LiteCovidNet: A lightweight deep neural network model for detection of COVID-19 using X-ray images.</li> <li>• Analysis of Deep Learning Techniques for Prediction of Eye Diseases: A Systematic Review.</li> <li>• Multiclass multilabel ophthalmological fundus image classification based on optimised deep feature space evolutionary model.</li> <li>• Deep Learning-Based Segmentation of Brain Tumor.</li> <li>• Using recursive feature elimination and fisher score with convolutional neural network for identifying port scan attempts.</li> <li>• Deep learning approach based on adasyn for detection of web attacks in the cicids2017 dataset.</li> <li>• Convolutional bi-directional long-short-term-memory based model to forecast COVID-19 in Algeria.</li> <li>• Designing Contactless Automated Systems Using IoT, Sensors, and Artificial Intelligence to Mitigate COVID-19.</li> <li>• FUNDUS and OCT Image Classification Using DL Techniques.</li> <li>• Sparse Autoencoder and Deep Learning Based Framework for Multi-label Classification of Chronic Diseases.</li> <li>• Deep Learning Approach Based on ADASYN for Detection of Web Attacks in the CICIDS2017 Dataset.</li> <li>• Detection of Mirai Botnet Attacks on IoT devices Using Deep Learning.</li> </ul>
Prof. Pawnesh Abrol	<ul style="list-style-type: none"> <li>• Wrapper-based optimized feature selection using nature-inspired</li> </ul>

Name of the Author	Title of the Paper/s
	<p>algorithms.</p> <ul style="list-style-type: none"> <li>• Parameter Extraction and Performance Analysis of 3D Surface Reconstruction Techniques.</li> <li>• A Genetic Algorithm Based Optimized Convolutional Neural Network for Face Recognition.</li> <li>• A Genetic Algorithm Based Optimized Convolutional Neural Network for Face Recognition.</li> <li>• Analyzing performance of deep learning models under the presence of distortions in identifying plant leaf disease.</li> <li>• Analyzing Performance of Masked R-CNN under the Influence of Distortions.</li> <li>• Similar Plant Species Classification with Dual Input Transfer Learning Models.</li> <li>• Analysis of Multiple Component Based CNN for Similar Citrus Species Classification.</li> </ul>
Prof. Vinod Sharma	<ul style="list-style-type: none"> <li>• Bagged based ensemble model to predict thyroid disorder using linear discriminant analysis with SMOTE.</li> <li>• A Survey on Different Security Frameworks and IDS in Internet of Things.</li> <li>• Deep Learning-Based Recognition and Classification of Different Network Attack Patterns in IoT Devices.</li> <li>• A Framework for Classification of Nematodes Species Using Deep Learning.</li> <li>• Characterization of Molecular Dynamic Trajectory Using K-means Clustering.</li> <li>• Hierarchical Clustering Based Characterization of Protein Database Using Molecular Dynamic Simulation.</li> <li>• Characterization of Molecular Dynamic Trajectory Using K-means Clustering.</li> <li>• Comparison of machine learning techniques in the diagnosis of erythematous squamous disease.</li> <li>• Comparison of machine learning techniques in the diagnosis of erythematous squamous disease.</li> <li>• Classification of Healthy Seeds Using Deep Learning.</li> <li>• Grape Leaf Disease Detection Using Deep Learning.</li> <li>• Hybrid System Based on Genetic Algorithm and Neuro-Fuzzy Approach for Neurodegenerative Disease Forecasting.</li> <li>• Deep Neural Based Learning of EEG Features Using Spatial, Temporal and Spectral Dimensions Across Different Cognitive Workload of Human Brain: Dimensions, Methodologies, Research Challenges and Future Scope.</li> <li>• Machine Learning-Based Hybrid Model for Wheat Yield Prediction.</li> <li>• The efficacy and safety of thrombolytic agents for patients with prosthetic valve thrombosis.</li> </ul>

Name of the Author	Title of the Paper/s
Dr. Subhnandan Singh Jamwal	<ul style="list-style-type: none"> <li>• A Novel Hybrid Approach for the Designing and Implementation of Dogri Spell Checker.</li> <li>• Multiword Expression Extraction Using Supervised ML for Dogri Language.</li> <li>• Natural Language Interface in Dogri to Database.</li> </ul>

#### Activities/Events organized:

- A gender equity program on the topic “Combating Gender Inequalities: A legal Perspective”.
- Department of Computer Science & IT in association with National Institute of Educational Planning and Administration (NIEPA), New Delhi organized One Week Faculty Development Program on MOOCs and E-Learning Technologies. Prof J. N. Baliya, Head, Department of Educational Studies, Central University, Jammu, Dr. Srinivas, Head, ICT & Project Management Unit, NIEPA, New Delhi and Dr. Ashok Sharma, Bhaderwah Campus were the Resource Persons.
- Department of Computer Science & IT, University of Jammu organized Placement Drive. M/s Solitaire Infosys Pvt. Ltd., Mohali, Chandigarh conducted a pool placement for MCA and M. Tech students of main campus and offsite campuses. Solitaire Infosys is an IT company providing services in UX and UI design, android development, web development, enterprise and digital marketing besides consulting services provider that partners with organizations to achieve business and digital transformation. A total of forty students were shortlisted for the technical and HR round which will be conducted at Mohali. The selection process included a written test and a technical interview.
- Department of Computer Science & IT organized Prof. G.L. Kaul Memorial Lecture. Prof. Rattan Lal Hangloo, Honorary Chancellor, Nobel International University, Canada at its USA Campus, and former Vice Chancellor, University of Kalyani, West Bengal and University of Allahabad was the Keynote Speaker. He talked on theme – Science, Technology, and Freedom – a historical perspective. Prof Hangloo deliberated in depth about the relevance of science and technology in shaping the societies and contribution of ancient Indian knowledge in various fields. He said that science has given the freedom to individuals to express their views freely in sharing knowledge for the growth and development of the nation. The lecture was attended by all faculty members, scholars and students of Department of Computer Science & IT.
- Department of Computer Science & IT, University of Jammu, in technical collaboration with The Institution of Electronics and Telecommunication Engineers (IETE), Jammu Sub-Centre celebrated “Telecommunication and Information Society Day-2023”. This day has been celebrated on 17<sup>th</sup> of May, since 1969, to mark the foundation of the International Telecom Union (ITU) and signing of First International Telegraph Convention in the year 1865. On this occasion, two invited talks were organized. Dr. Arvind Selwal, Assistant Professor, Department of Computer Science, Central University, Jammu, gave an invited talk cum demonstration on the topic: Fingerprinting Biometrics for Human Authentication. The second session was taken by Ms. Surbhi Kohli, Owner & Director Life Skills Scoop, on the topic: Communication Skills for Confidence Building & Personality Development.

- Department of Computer Science in collaboration with M/s Sedulity Solutions and Technologies, New Delhi under “Industry Academia cooperation” organized one week lecture series. This programme is an important initiative envisioned by Prof. Umesh Rai, Hon’ble Vice Chancellor, University of Jammu to engage the industry in the academia by inviting the experts from various leading fields of computer technologies for interaction with the students and research scholars. Dr. Anup Girdhar, CEO and Founder, Sedulity Solutions and Technologies, was the Resource Person for the programme. Dr. Anup gave in depth coverage in the domain of Cyber Security along with practical demonstration and explained research approaches to the students and the scholars. The programme was attended by all the faculty members, research scholars, and students of MCA & M.Tech. programmes.





## DEPARTMENT OF MATHEMATICS

The Department of Mathematics was established in 1966 with an objective to provide quality education in the area of Mathematics. The faculty members have established international collaborations with mathematicians from Canada, Finland, Germany, US and UK. The Department has created a Mathematical Society to organize national and international conferences/Seminars/workshops in collaboration with other National and International Mathematical Societies. The Department has a vibrant research atmosphere backed up by excellent infrastructural facilities.

Thrust areas for research in the Department are Algebra, Algebraic Topology, Complex Analysis and Functional Analysis.

Scholars are presently being guided by different faculty members for Ph.D programme in areas like 'Normal Families and Dynamics of Meromorphic Functions', 'A Study of Operators of Convolution Composite Multiplication on Spaces', 'Applications of Composition Operators in Orlicz Spaces'.

Completed research projects of the Department include 'Dynamics of holomorphic functions', funded by National Board of Higher Mathematics and 'Complex Dynamical System and Application', funded by UGC.

### Programmes offered by the Department:

- M.Sc.
- Ph. D.

**Interdisciplinary Programmes offered by the department/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Nil

**Thrust Area of Teaching and Research:** Topology, Functional Analysis and Operator Theory, Complex Analysis, Differential Equation, Partial Differential Equation, Differential Geometry, Functional Analysis, Real Analysis, Graph Theory, Numerical Analysis, variational Inequalities and Equilibrium Problems.

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Romesh Kumar	Ph.D	Professor & HoD	Functional Analysis/Complex Analysis /Operator Theory	25
Prof. K. S. Charak	Ph.D.	Professor	Complex Analysis/ Normal Families	19
Dr. Abdul Khaliq	Ph.D	Associate Professor	Applied Functional Analysis	25
Dr. Shallu Sharma	Ph.D	Associate Professor	Functional Analysis / Operator Theory	14

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Tirth Ram	Ph.D	Sr. Assistant Professor	Applied Functional Analysis	12

#### Contractual Faculty in the Department

Name of the Faculty Member	Qualification	Experience in Years
Dr. Manish Kumar	Ph.D.	02
Dr. Rachna	Ph.D.	04
Dr. Sahil Billawaria	Ph.D.	01
Dr. Sehar Shakeel Raina	Ph.D.	01

**Guest Faculty:** Nil

**Research Projects including international Projects and national collaborative projects:** Nil

#### Publications:

Name of the Author	Title of the Paper/s
Prof. Romesh Kumar	<ul style="list-style-type: none"> <li>Maximal ideals in a bicomplex algebra and bicomplex Gelfand–Mazur theorem, Complex Variables and Elliptic Equations.</li> </ul>
Dr. Tirth Ram	<ul style="list-style-type: none"> <li>Mixed Variational-like Inclusion Involving Yosida Approximation Operator in Banach Spaces.</li> <li>On vector variational like inequality and vector optimization with <math>(G, \alpha)</math>-univexity.</li> <li>Interval-valued vector variational inequalities and vector optimization problems via convexifiers.</li> <li>On interval-valued vector variational-like inequalities and vector optimization problems with generalized approximate invexity by convexifiers Mathematical Foundations of Computing</li> <li>On vector variational inequalities and Nonsmooth vector optimization problems with generalized approximate invexity.</li> <li>On approximate vector variational inequalities and vector optimization problem using convexifactor.</li> <li>Existence of solutions of set-valued strong vector equilibrium problems.</li> <li>On existence of solution of implicit vector equilibrium problems for trifunction.</li> <li>Vector equilibrium problems for trifunction in measurable space and its applications.</li> <li>Setvalued mixed quasi-equilibrium problems with operator solutions.</li> <li>Generalized monotone mapping with an application to variational inclusions.</li> </ul>

Name of the Author	Title of the Paper/s
	<ul style="list-style-type: none"> <li>• Generalized Caley operator with applications to Caley inclusions in uniformly smooth banach spaces.</li> <li>• <math>H(\dots, \dots)</math>-<math>\phi</math>-<math>\eta</math> co-coercive operator with applications to variational inclusions.</li> </ul>
Prof. K.S. Charak	<ul style="list-style-type: none"> <li>• Some remarks on primeness and dynamics of some classes of entire functions.</li> <li>• Counterexamples to bicomplex analogue of Bloch's principle and its converse.</li> <li>• Some Picard type theorem and corresponding normality criteria in several complex variables.</li> <li>• Lappan's normality criterion in <math>C^n</math>, Rendiconti del Circolo Matematico di Palermo, Series.</li> <li>• Normality through sharing pairs of functions with derivatives, Filomat.</li> <li>• Unified value sharing of meromorphic functions, In Formal and Analytic Solutions of Differential Equations.</li> <li>• Fatou and Julia like sets.</li> </ul>
Dr. Sunil Kumar	<ul style="list-style-type: none"> <li>• The joint influence of estimation of sensitive variable under measurement error and non-response using ORRT models.</li> <li>• Exploring academic dishonesty among university students: University of Jammu, India.</li> <li>• Using ORRT Models for Mean Estimation under Nonresponse and Measurement Errors in Stratified Successive Sampling.</li> <li>• An Improved estimator of finite population variance using two auxiliary variable SRS.</li> <li>• Quantify the impact of non-response and measurement error of sensitive variable(s) under two-phase sampling employing ORRT models.</li> <li>• Latent Class analysis of multigroup heterogeneity in propensity for academic dishonesty.</li> <li>• An enhanced ratio-cum-product estimator with non-response and observational error by utilizing ORRT models: a sensitive estimation approach.</li> <li>• Determination of Population Mean Using Neutrosophic, Exponential - Type Estimator.</li> <li>• Modified exponential estimators using auxiliary information under response and non-response.</li> <li>• Applying ORRT for the estimation of population variance of sensitive variable.</li> </ul>
Dr. Shallu Sharma	<ul style="list-style-type: none"> <li>• On Strongly Pretopological Vector Spaces</li> <li>• Applications of <math>\beta</math>-open Sets</li> <li>• Irresolute Topological Rings with Inherent Properties, Journal of Applied Mathematics and Informatics.</li> <li>• Fixed point Theorems in Cone Metric Spaces via <math>c</math>-Distance over</li> </ul>

Name of the Author	Title of the Paper/s
	<p>Topological Module.</p> <ul style="list-style-type: none"> <li>• On <math>M^*</math>-Irresolute Topological Rings.</li> <li>• On <math>h</math>-Irresolute Topological Vector Spaces.</li> <li>• Forms of <math>\omega</math>-continuous functions between bitopological spaces.</li> <li>• Corrigendum to "Forms of <math>\mathfrak{k}</math>-continues functions between bitopological spaces".</li> <li>• Applications of <math>\beta</math>-open Sets.</li> </ul>

### Activities/Events organized:

- Celebrated National Mathematics Day to mark the Birth Anniversary of the legendary Indian Mathematician Srinivasa Ramanujan (1887-1920). On the occasion, a lecture has been organized by the department of Mathematics by an eminent mathematician Dr. B. Sury, Professor, Department of Mathematics, Indian Statistical Institute, Bangalore.
- Department of Mathematics in collaboration with UGC-Human Resource Development Centre organized five day workshop on "Analysis and its Applications". The workshop had 24 one-hour talks given by eminent mathematicians Prof. Indrajit Lahiri from the University of Kalyani, West Bengal; Prof. Hares V. Dedanian, Sardar Patel University Gujrat; Prof S. K. Mishra, Banaras Hindu University; Prof. Swadesk K. Sahoo, IIT Indore; Dr. Krihanendu Gangopadhyay, IISER Mohali; Dr. A. Sairam Kaliraj, IIT Ropar and Dr. Tanmay Sarkar, IIT Jammu. This workshop was attended by 52 participants comprising faculty members and research scholars from the University of Jammu, University of Kashmir, SMVD University, Central University of Jammu, Central University of Kashmir, Cluster University of Jammu, National Institute of Technology Srinagar, Sangam University, Rajasthan and Affiliated colleges of the University of Jammu. The aim of organizing this workshop was to update teachers and research scholars about recent developments in Analysis and to give them the right directions for further studies in some of the areas of Complex Analysis and Functional Analysis.
- Two-day National Seminar on 'Recent Developments in Analysis and Related Areas' and 30<sup>th</sup> Annual Conference of Jammu Mathematical Society (JMS). Prof. Tarun K. Das from University of Delhi was the Guest of Honour. The seminar was presided over by Prof. A.P. Singh, Department of Mathematics, Central University of Rajasthan, and former Head of Department of Mathematics of University of Jammu. The conference was attended by participants from various institutes of the country like University of Delhi; Banaras Hindu University; University of Kalyani; IIT Roorkee; IIT Ropar; IIT Bhubaneswar; Central University of Jammu; Central University of Kashmir and University of Kashmir.

## DEPARTMENT OF STATISTICS

Department of Statistics was established in 1988 with the aim of providing quality education in the field of Statistics, with its application and usefulness to the society and to provide qualified Statisticians for the economic, social, administrative, planning and academic development. The Department has been aided by the Department of Science and Technology, Government of India under its FIST programme.

### Programmes offered by the Department:

- M.Sc.
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Nil

### Thrust Areas of Teaching and Research

Probability Theory, Distribution Theory, Multivariate Analysis, Design of Experiment , Stochastic Process, Econometrics, C++ Statistical Inference, Sampling Theory, Operation Research ,Reliability Theory, Statistical Inference, Sequential Analysis, Information Theory, Bio-Statistics, Sample Survey, Bayesian Inference.

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Parmil Kumar	Ph.D.	Professor & HoD	Information theory, Statistical Inference	22
Prof. J P Singh Joorel	Ph.D.	Professor	Reliability Theory, Operation Research, Sample Survey	36
Prof. Rahul Gupta	Ph.D.	Professor	Statistical Inference	30.5
Prof. Pawan Kumar	Ph.D.	Professor	Reliability Theory , Queing Theory	23
Dr. Vijay Shivgotra	Ph.D.	Assistant Professor	Reliability Theory, Bio-Statistics	12
Dr. Sunil Kumar	Ph.D.	Assistant Professor	Sample Survey, Estimation Theory	12

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Pawan Kumar	Ph.D.	05
Dr. Priyanka Anand	Ph.D.	03

**Detail of Research Projects including international Projects and national collaborative projects:**

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
To Forecast Extreme Weather for J and K State using Machine Learning	UoJ	4.00	Ongoing
Variational Inequalities, Equilibria, and Fixed-Point Theory	UoJ	2.00	Ongoing

**Publications:**

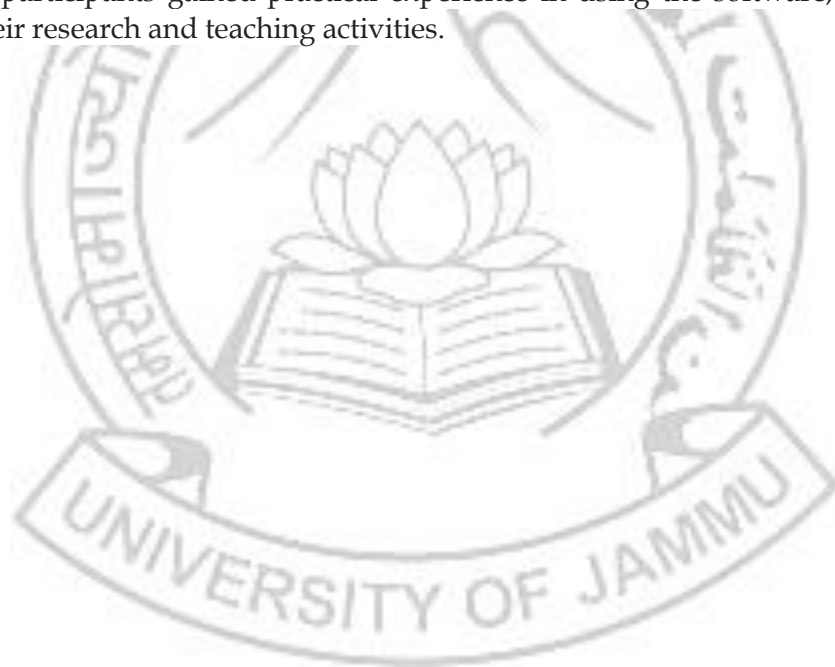
Name of the Author	Title of the Paper/s
Prof. Parmail Kumar	<ul style="list-style-type: none"> <li>• Incidence of Olfactory and Gustatory Dysfunctions in the Early Stages of COVID-19: An Objective Evaluation.</li> <li>• The range of the Brown Hawk Owl <i>Ninox scutulata</i> in northern India – an update.</li> <li>• Bayesian and E-Bayesian Estimation of the Parameters of the Generalized Order Statistics of Exponentiated Distribution Family.</li> <li>• On Mixture of Burr XII and Nakagami Distributions: Properties and Applications.</li> <li>• Prior Preferences for the Inverse Power Lomax Distribution: Bayesian Method.</li> <li>• Properties of Generalized Order Statistics of Truncated Inverted Kumaraswamy Exponential Distribution.</li> <li>• Parameter Estimation of Bayesian and E-bayesian Methods on the Generalized Order Statistics under Exponential Family.</li> </ul>
Dr. V.K. Shivgotra	<ul style="list-style-type: none"> <li>• A multinomial regression model to determine the factors related to morbidity pattern among the geriatric population of Jammu district, Jammu and Kashmir.</li> <li>• Prevalence of Dental Caries among Indian Children: A Meta-Analysis.</li> <li>• Prevalence of cardiovascular diseases among the urban and rural geriatric population of India: A meta-analysis.</li> </ul>
Dr. Pawan Kumar	<ul style="list-style-type: none"> <li>• Reliability Modeling of a single unit System with Normal and Accidental Failure having Correlated Failure and Repair Times.</li> <li>• Profit Function of Two Unit Parallel System with Bad Weather Conditions and Activation Time.</li> <li>• Stochastic Modelling and Analysis of Wire Drawing Machine in an Industry.</li> </ul>
Prof. Rahul Gupta	<ul style="list-style-type: none"> <li>• Estimation Procedures of Length-Biased Nakagami Distribution.</li> </ul>

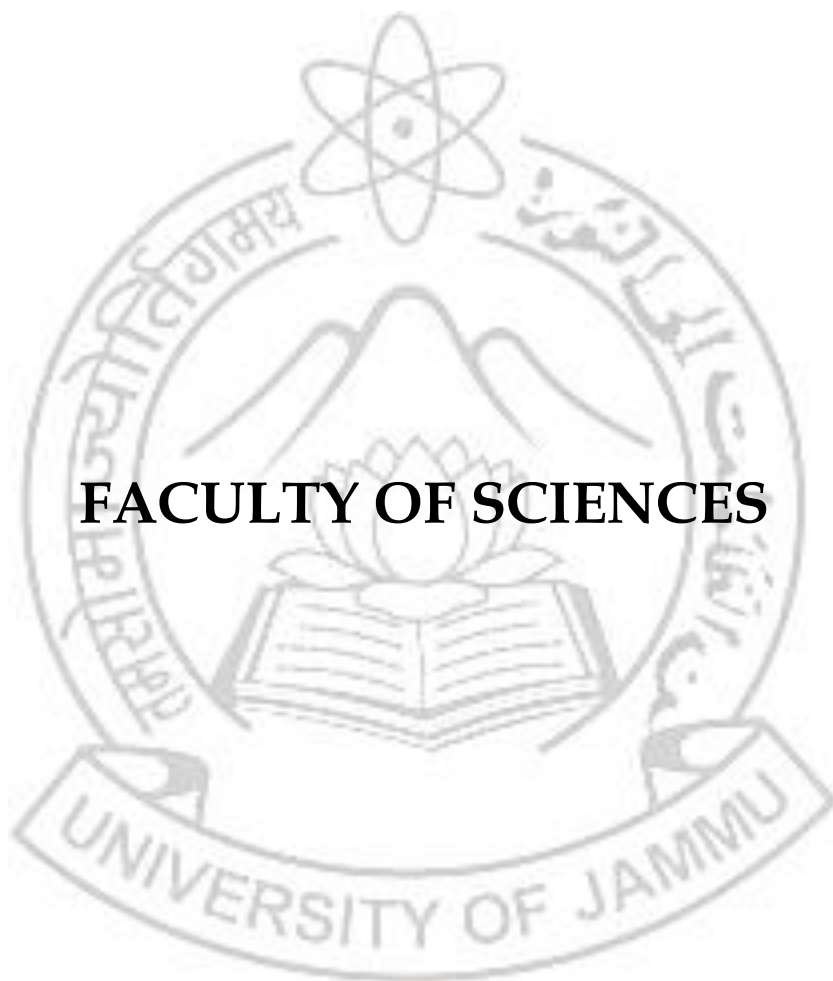
**Activities/Events organized:**

- Three-day Annual Conference on “Significance of Statistical Sciences in Emerging Scenario (SSSES 2023)” with the aim to bring together Statisticians, Researchers, Academics, and Industry Experts from around the world to share their knowledge and insights on the latest trends and best practices in Statistics. The event provided a unique opportunity for attendees to learn from some of the best minds in the field, network with peers, and discover new ways

to advance their work and their careers. Dr. G.P. Samanta, Chief Statistician of India, was the Chief Guest on the occasion. Prof. Balgobin Nandram, WPI, USA was the Keynote Speaker.

- One week long Faculty Development Programme (FDP) on “Data Analytics through SPSS” with the aim to provide an opportunity for faculty members from different colleges and universities across the country to enhance their knowledge and skills in data analytics using SPSS. Mr. Kamal P Patnaik, Regional Director, Reserve Bank of India (UT of J&K and Ladakh) was the Chief Guest. Prof. Suresh Kumar Sharma, Panjab University, Chandigarh; Prof. Gyan Parkash Singh, PHU, Varanasi; Dr. Sushil Sarkar, IASRI, Delhi and Dr. Mukender Singh, Kurukshetra University were the Resource Persons. The workshop was attended by more than 50 participants from University of Jammu.
- Department of Statistics in collaboration with HRDC, University of Jammu organized one-week Faculty Development Program (FDP) sponsored by RUSA - II on Data Analytics through SPSS. A total of 50 faculty members from various institutions across the country participated in the workshop. Prof. Suresh Sharma, Panjab University, Chandigarh; Prof G P Singh, Institute of Medical Sciences, BHU, Varanasi; Dr. Susheel Sarkaar, IASRI, Delhi and Dr. Mukender Kadyan, KU, Kurukshetra were the Resource Persons. The workshop provided an excellent opportunity for faculty members to learn new skills and techniques in data analytics through SPSS. The participants gained practical experience in using the software, which would help them in their research and teaching activities.







## DEPARTMENT OF CHEMISTRY

The Department of Chemistry, one of the oldest Departments of the University, was established in September 1962 under the aegis of the erstwhile University of Jammu & Kashmir. The thrust areas of research in the Department are Coordination and Organometallic Chemistry, Solid State Chemistry, Liquid Crystals, Solution Chemistry, Synthetic Medicinal Chemistry, Microwave Induced Organic Synthesis, Membrane Science, Heterocyclic Chemistry, Catalysis etc. Facilities like NMR (400 MHz) spectrometer, Liquid Nitrogen Plant, DMA (5000M), Flash Chromatograph, Ion Chromatograph, Millipore Water Purification System, Microwave Furnace, Laminar Flow, Thermal Analyzer, FTIR, UV-Visible Spectrophotometer, Faraday Magnetic System, Mettler Hot stage Microscope, Microwave Synthesizer, Cyclic Voltammeter etc. are available for carrying out research. The Department has established a University Chemical Society which aims at familiarizing the students about latest developments, holding symposia, seminars and lectures by eminent scientific personalities.

The Department of Chemistry is housed in a two storied building fitted with a four well equipped practical laboratories and two lecture theatres for P.G. classes. There are ten research laboratories for M.Phil./Ph.D. students. The Department has well equipped state-of-the-art instrumentation laboratory where most of the sophisticated instruments are housed. The Department has a state of art computer laboratory. There are separate rooms for faculty members equipped with all latest computational facilities. A well stocked store is located in the basement of the building. The Department has a well stocked library having a rich collection of 5500 reference and research level books. It subscribes two Indian and two foreign journals annually. A new two storied laboratory complex comprising seminar hall, lecture hall and state-of-the-art practical laboratory for PG students has come up since January 2017.

### Programmes offered by the Department:

- M.Sc.
- Ph.D.

### Interdisciplinary Programmes offered and details of departments/disciplines involved:

- Environmental Chemistry
- Instrumentation and Analytical Methods

### Recognition/Accreditation of the programmes offered by the Department (other than University):

Nil

### Thrust Areas of Teaching and Research

- Coordination and Organometallic chemistry
- Solid State Chemistry
- Liquid Crystals, Solution Chemistry
- Synthetic Medicinal Chemistry
- Microwave Induced Organic Synthesis
- Membrane Science
- Heterocyclic Chemistry
- Catalysis

## Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. H.N. Sheikh	Ph.D.	Professor & HoD	Coordination Chemistry, Coordination Polymers, Material Chemistry, Nanomaterials	27
Prof. Meena Sharma	Ph.D.	Professor	Material Science, Solution Chemistry	31
Prof. S.K. Pandey	Ph.D.	Professor	Dithiophosphate Chemistry, Heterometallic phosphazene Chemistry, Fluorine Chemistry pertaining to the Synthesis of CFC's Alternatives & Electrochemical Fluorination, Phosphazene Chemistry, Metallo-organic Chemistry	28
Prof. Kamal K. Kapoor	Ph.D.	Professor	Organic Synthesis, Green Chemistry, Synthesis of Un-natural Amino Acids, Medicinal Chemistry	24
Prof. Satya Paul	Ph.D.	Professor	Heterogeneous catalysis, Green chemistry, Synthesis of Bio-active Heterocycles	23
Prof. Devinder Singh Sambyal	Ph.D.	Professor	Solid State and Materials Chemistry, Perovskite Oxides, Ruddlesden-Popper Phases, Spinal and Inverse Spinel Ferrites, Pyrochlores	26
Dr. Monika Gupta	Ph.D.	Associate Professor	Organic Chemistry, Heterogeneous Catalysis, Green Chemistry, Ionic Liquids, Synthesis of Bioactive Heterocycles	14
Dr. Ashwani Kumar	Ph.D.	Assistant Professor	Solution Chemistry, Biomolecules in Solutions	13

## Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Kuldeep Raj Sharma	Ph.D.	06
Dr. Annah Gupta	Ph.D.	05
Dr. Samriti Sharma	Ph.D.	02
Dr. Nancy Slathia	Ph.D.	1.5
Dr. Swati Sharma	Ph.D.	05

## Detail of Research Projects including international Projects and national collaborative projects:

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Development of Luminescent Lanthanide Coordination Polymers/Metal organic Frameworks as Chemical Sensors	JKST&IC	8.20	Ongoing
Temperature dependent physicochemical studies of citrates/tartrates in aqueous solutions of ionic liquids	JKST&IC	7.30	Ongoing
Synthesis of photo-catalytically active nanocrystalline mixed oxides and their applications in the removal of organic dyes for environmental remedies	JKST&IC	8.85	Ongoing
Synthesis of hybrid molecules based on styrylquinoxalinones, donepezil and other bio-active heterocyclic compounds as anti-Alzheimer agents	JKST&IC	9.30	Ongoing
New metal complexes with phosphor-I, I-dithiolate ligands; Synthesis, characterization and application	JKST&IC	8.25	Ongoing
Development of supported metal organic frameworks for removal of pollutants from waste water; and their applications in organic synthesis	JKST&IC	8.90	Ongoing
Fabrication, characterization of modified graphene based nanocatalysts and investigation of their catalytic potential in organic transformation	JKST&IC	9.83	Ongoing
Prospecting fungal endophytes of selected ethnomedicinal plants for bioactive metabolites	DBT, GoI	49.86	Ongoing
Design, synthesis and biological applications of next generation cyanoimidazopyridine based fluorescent chemosensors	SERB-DST	39.08	Ongoing
A comprehensive study on molecular interactions of some organic salts in aqueous solutions of ionic liquids at varying temperatures and compositions: Spectroscopic, thermodynamic and theoretical insights	SERB-DST	38.62	Ongoing
Design and synthesis of quinoxalinoidspiropyrrolizine /pyrrolidine by [3+2] cycloaddition for anti-cancer evaluation	UoJ (Seed Grant)	2.00	Ongoing
Synthesis, characterization and application of functional Lanthanide-Metal-Organic Frameworks	UoJ (Seed Grant)	2.00	Ongoing
Designing of recyclable titania based nanomaterials and their applications in synthesis of heterocycles	UoJ (Seed Grant)	2.00	Ongoing
Volumeiric, acoustic and viscometric investigations of some protein model components in aqueous solutions of drugs at various temperatures	UoJ (Seed Grant)	2.00	Ongoing

## Publications:

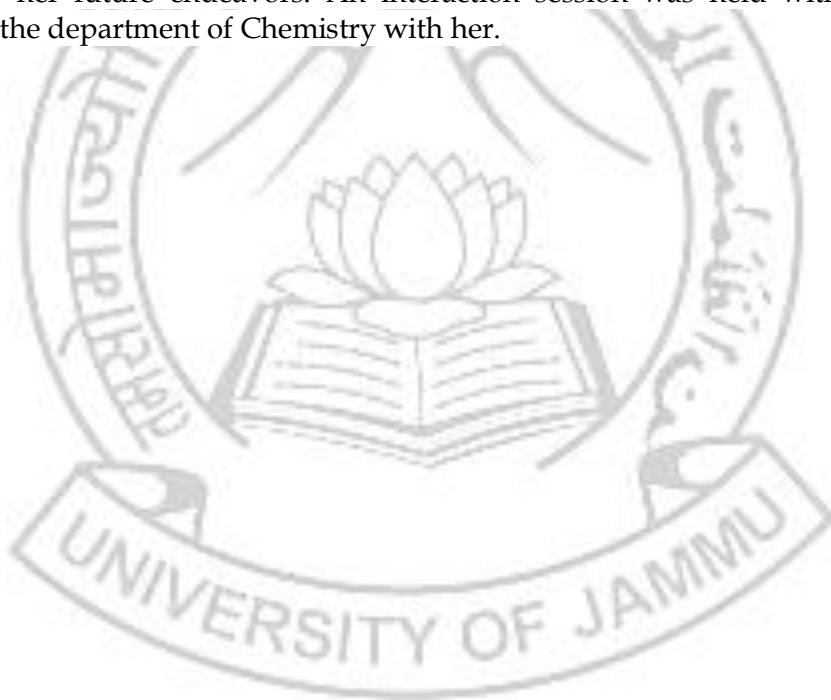
Name of the Author	Title of the Paper/s
Prof. H.N. Sheikh	<ul style="list-style-type: none"> <li>• Luminescent and photocatalytic activity of NaGd(MoO<sub>4</sub>)<sub>2</sub>:Dy<sup>3+</sup>+Eu<sup>3+</sup> and NaGd(WO<sub>4</sub>)<sub>2</sub>:Dy<sup>3+</sup>/Eu<sup>3+</sup> nanorods for efficient sensing and degradation of the antibiotic drug, nitrofurantoin.</li> <li>• Selective and efficient detection of Pb<sup>2+</sup> in aqueous solution by lanthanoid-organic frameworks bearing pyridine-3,4-dicarboxylic acid and glutaric acid.</li> <li>• Fabrication of dual functional 3D-flower shaped NaYF<sub>4</sub>:Dy<sup>3+</sup>+Eu<sup>3+</sup> and graphene oxide based NaYF<sub>4</sub>:Dy<sup>3+</sup>+Eu<sup>3+</sup> nanocomposite material as a potable luminescence sensor and photocatalyst for environmental pharmaceutical pollutant nitrofurazone in aquatic medium.</li> <li>• Lanthanide coordination polymers functionalized by 5-nitroisophthalic acid: Synthesis, structure-DFT correlation and photoluminescent sensor of Cd<sup>2+</sup> ion.</li> <li>• Dual-Ligand Strategy Employing Rigid 2,5-Thiophenedicarboxylate and 1,10-Phenanthroline as Coligands for Solvothermal Synthesis of Eight Lanthanide(III) Coordination Polymers: Structural Diversity, DFT Study, and Exploration of the Luminescent Tb(III) Coordination Polymer as an Efficient Chemical Sensor for Nitroaromatic Compounds.</li> <li>• Axially coordinated tin porphyrins anchored graphene oxide hybrid composites as productive catalyst for catalytic conversion of 4-nitrophenol to 4-aminophenol.</li> </ul>
Dr. Monika Gupta	<ul style="list-style-type: none"> <li>• Design, Synthesis and Anticancer potential evaluation of Novel Naphthoic Acid linked Imidazo[2,1-b][1,3,4]thiadiazoles.</li> <li>• Nanosized Calcined Mixed oxides supported alkali metal (K<sub>2</sub>O/ Al<sub>2</sub>O<sub>3</sub>-CaO) as solid base catalyst: Preparation and investigation of its catalytic efficiency in the synthesis of benzylidene malononitriles / barbiturates and in pyrano[2,3-]pyrimidines.</li> <li>• Transformation of waste toner powder into valuable Fe<sub>2</sub>O<sub>3</sub> nanoparticles for the preparation of recyclable Co(II)-NH<sub>2</sub>-SiO<sub>2</sub>@Fe<sub>2</sub>O<sub>3</sub> and its applications in the synthesis of polyhydroquinoline and quinazoline derivatives.</li> <li>• Nanosized Calcined Mixed oxides supported alkali metal (K<sub>2</sub>O/ Al<sub>2</sub>O<sub>3</sub>-CaO) as solid base catalyst: Preparation and investigation of its catalytic efficiency in the synthesis of benzylidene malononitriles / barbiturates and in pyrano[2,3-d]pyrimidines.</li> <li>• Transformation of waste toner powder into valuable Fe<sub>2</sub>O<sub>3</sub> nanoparticles for the preparation of recyclable Co(II)-NH<sub>2</sub>-</li> </ul>

	<p>SiO<sub>2</sub>@Fe<sub>2</sub>O<sub>3</sub> and its applications in the synthesis of polyhydroquinoline and quinazoline derivatives.</p> <ul style="list-style-type: none"> <li>• NiFe<sub>2</sub>O<sub>4</sub>@B,N,F-tridoped CeO<sub>2</sub> (NFTDNC): A mesoporous nanocatalyst in the synthesis of pyrazolopyranopyrimidine and 1H-pyrazolo[1,2-b]phthalazine-5,10-diones derivatives and as an adsorbent.</li> </ul>
Prof. K.K. Kapoor	<ul style="list-style-type: none"> <li>• A comprehensive review on recent advances in copper sensors.</li> <li>• Unexplored Potential of Polyaniline Embedded Barium Chloride Nanocomposite in the Synthesis of Styrylquinoxalin-2(1H)-Ones.</li> <li>• I<sub>2</sub>TBHP Reagent System: A Modern Paradigm for Organic Transformations**</li> <li>• Microwave-assisted one-pot two-step imine formation-hetero-Diels-Alder-detosylation/aromatization sequence: direct access to dibenzo[b,h][1,6]naphthyridines.</li> </ul>
Prof. S.K. Pandey	<ul style="list-style-type: none"> <li>• New complexes of indium (III) diaryldithiophosphates: Structural characterization and insight into supramolecular interactions.</li> <li>• Synthesis, experimental and theoretical analyses of bis(2-ethylphenyl)phosphorodithioates of nickel(II).</li> <li>• Experimental and Theoretical Study of Tetrel Bonding and Noncovalent Interactions in Hemidirected Lead(II) Phosphorodithioates: An Implication on Crystal Engineering.</li> <li>• Thallium(I)phosphorodithioates containing intra- and intermolecular IĈ-hole triel bonds.</li> <li>• An insight into triel bonds in O,O'-diarylphosphorodithioates of thallium(I): Experimental and theoretical investigations.</li> </ul>
Dr. Ashwani Kumar	<ul style="list-style-type: none"> <li>• Thermophysical studies on molecular interactions of semicarbazide hydrochloride/domiphen bromide in aqueous deep eutectic solvent media at various temperatures.</li> <li>• Studies on molecular interactions of L-histidine/L-serine in aqueous diphenhydramine hydrochloride solutions at various temperatures: Volumetric, ultrasonic and viscometric approach.</li> </ul>
Prof. R.K. Bamezai	<ul style="list-style-type: none"> <li>• Ionic liquid treated leaves of Juglans regia as an adsorbent for the removal of methyl orange dye: experimental, computational, and statistical approach.</li> <li>• Experimental assessment of physicochemical properties of L-phenylalanine and L-arginine in (water + 1-butyl-3-methylimidazolium bromide / tributylmethylammonium chloride) solutions at various temperatures.</li> <li>• Analysing the molecular interactions of ternary (lactose + water + tributylmethylammonium chloride) solutions at different temperatures via physicochemical methods.</li> </ul>

Prof. D.S. Sambyal	<ul style="list-style-type: none"> <li>• A new Ruddlesden-Popper oxide <math>\text{LaSr}_3\text{Mn}_{1.5}\text{Fe}_{1.5}\text{O}_{9.71}</math> as photocatalyst for degrading highly toxic dyes in waste water: Structural, magnetic and transport properties.</li> <li>• Different Fuel-Adopted Combustion Syntheses of Nano-Structured <math>\text{NiCrFeO}_4</math>: A Highly Recyclable and Versatile Catalyst for Reduction of Nitroarenes at Room Temperature and Photocatalytic Degradation of Various Organic Dyes in Unitary and Ternary Solutions.</li> <li>• Influence of Cr substitution on structural, optical, and magnetic properties of <math>\text{La}_2\text{SrFe}_2\text{O}_7</math>: Their application as a photocatalyst for the degradation of Rhodamine B dye.</li> <li>• Solvent-Free Combustion-Assisted Synthesis of <math>\text{LaFe}_{0.5}\text{Cr}_{0.5}\text{O}_3</math> Nanostructures for Excellent Photocatalytic Performance toward Water Decontamination: The Effect of Fuel on Structural, Magnetic, and Photocatalytic Properties.</li> <li>• Synthesis of Ruddlesden-Popper <math>\text{LaSrFe}_{1-x}\text{Cr}_x\text{O}_4</math> phases (<math>x = 0.0, 0.2, 0.4, 0.6</math>) by glycine-nitrate combustion process: Effect of Cr doping on magnetic, optical and photocatalytic properties</li> </ul>
Prof. Satya Paul	<ul style="list-style-type: none"> <li>• A novel core-shell <math>\text{Pd}(0)/\text{SiO}_2\text{-Ni-TiO}_2</math> nanocomposite with a synergistic effect for efficient hydrogenations.</li> </ul>
Dr. Ashwani Kumar	<ul style="list-style-type: none"> <li>• Analysing the molecular interactions of ternary (lactose + water + tributylmethylammonium chloride) solutions at different temperatures via physicochemical methods.</li> <li>• Effect of <math>[\text{Bmim}][\text{Br}]</math> and <math>[\text{Emim}][\text{HSO}_4]</math> on the solution properties of pyridoxine HCl at various temperatures: A physicochemical, thermodynamic and spectroscopic approach.</li> <li>• Explorations on thermophysical properties of nitrogenous bases (uracil/thymine) in aqueous L-histidine solutions at various temperatures.</li> <li>• Insights into molecular interactions of L-histidine and L-threonine in aqueous procaine hydrochloride solutions at different temperatures: Physicochemical and spectroscopic approach.</li> <li>• Investigations on thermophysical properties of glycine and glycyglycine in aqueous betaine hydrochloride solutions at different temperatures.</li> <li>• Studies on molecular interactions of L-histidine/L-serine in aqueous diphenhydramine hydrochloride solutions at various temperatures: Volumetric, ultrasonic and viscometric approach.</li> <li>• Thermophysical studies on molecular interactions of semicarbazide hydrochloride/domiphen bromide in aqueous deep eutectic solvent media at various temperatures.</li> </ul>

### Awards to the students/scholars:

- A student and NSS volunteer, Ms. Srishti Koul from department of chemistry has been conferred with NSS National Award from Hon'ble President of India. Prof. Umesh Rai, Vice Chancellor, University of Jammu congratulated Ms. Srishti Koul for her outstanding achievement. Ms Koul secured First Rank in All Over India Merit for the NSS Award. After going through a series of evaluations and scrutiny at various stages right from the University Level to National Level, she has been selected by the Ministry of Youth Affairs and Sports, Government of India for this award. It is pertinent to mention here that she created awareness about precautionary measures to be taken during the Covid 19 pandemic through e-posters, E-Slogans, short videos and also pasted posters in various areas to create awareness among the public, distributed food, mask and sanitizers apart from numerous other outreach activities.
- Ms. Parsanjeet Kour, an alumna of the Department of Chemistry, University of Jammu brought laurels to the University by securing 11th rank in the Civil Services Examination of UPSC, 2023. Prof. Umesh Rai, Vice-Chancellor congratulated and greeted her and wished best of luck for her future endeavors. An interaction session was held with the students and scholars of the department of Chemistry with her.



## DEPARTMENT OF ELECTRONICS

The Department of Electronics became an independent department in 2017; however the M. Sc. programme was going on since 1995 with the Department of Physics and Electronics. The Department is presently offering Ph. D., M.Phil. and M.Sc. in the field of Electronics besides a 3-months skill development course on Electrical Maintenance and Repair. M. Sc. Electronics programme has six laboratories in total with two laboratories courses each upto 3<sup>rd</sup> semester besides one major project in the 4<sup>th</sup> semester. Presently the Department focuses on the following thrust Areas:

- Analog and Digital Integrated Circuits
- Digital Signal Processing
- Device and Circuit Simulation
- Fabrication and simulation of Nano and Opto Electronic Devices.

The Department has research facilities in terms of 10 user licensed ORCAD PSpice and Silvaco T-CAD Softwares. The Library houses a wide spectrum of National and International Journal/Periodicals in addition to around 6000 text/reference books. The Department has a computer laboratory equipped with more than ten computers and two laser printers. Internet facility is provided in the laboratory for the scholars/students for their research & project work. The Department has multimedia classroom with overhead projector. The students of second semester in M. Sc. Electronics programme have to undergo an industrial training of 4-6 weeks in some reputed national institutes like NITTR Chandigarh, BBRAITT Jabalpur, BSNL, SCL Mohali, NIELIT etc. The students of the Department have been regularly qualifying NET/JRF/SET/GATE and have been pursuing research in the reputed National Institutes as well as in the department itself. Some of the alumni have been absorbed in MNCs, higher & school education departments of the J&K Government, Defence, PSUs like BEL, BSNL etc.

### Programmes offered by the Department:

- M.Sc.
- Ph.D.

**Interdisciplinary Programmes offered and details of Departments/disciplines involved:** Skill Development course on Electrical Maintenance and Repair.

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research:

- Fabrication and simulation of Nano and Photovoltaic Electronic Devices.
- Digital Signal Processing.

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Susheel Sharma	Ph. D	Professor	Analog Electronics, Photovoltaics	28



Name	Qualification	Designation	Specialization	Experience in Years
Dr. Parveen Kumar Lehana	Ph. D	Professor	Signal Processing, Robotics, Biomedical, Smart sensors, IoTs	26
Prof. Rakesh Vaid	Ph.D.	Professor	Simulation, fabrication, and characterization of advanced semiconductor devices, Nanotechnology	26
Dr. Rockey Gupta	Ph.D.	Associate Professor	Low voltage analog digital circuits, Photovoltaics	21

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Usha Parihar	Ph.D.	10
Dr. Isha Gupta	Ph.D.	05

#### Publications:

Name of the Author	Title of the Paper/s
Prof. P.K. Lehana	<ul style="list-style-type: none"> <li>Recent trends in root phenomics of plant systems with available methods – discrepancies and consonances.</li> <li>A Genetic Algorithm Based Optimized Convolutional Neural Network for Face Recognition.</li> <li>“Machine Learning for Rural Healthcare,” Swarm Intelligence and Machine Learning, pp. 71-94, Jul. 2022, doi: 10.1201/9781003240037-5.</li> <li>Analyzing performance of deep learning models under the presence of distortions in identifying plant leaf disease.</li> <li>Identification and classification of schizophrenic speech using convolutional neural network for medical healthcare.</li> <li>Analyzing Performance of Masked R-CNN under the Influence of Distortions.</li> <li>Automatic Control of Microfluidic Flow Using Natural Hydrogels.</li> </ul>
Prof. Susheel Sharma	<ul style="list-style-type: none"> <li>“Harnessing the Role of Charge Transport Layers for Efficient Design of PBDBT/ITIC-OE Based Organic Solar Cell” Transactions on Electrical and Electronic Materials (Springer), <a href="https://doi.org/10.1007/s42341-023-00456-6">https://doi.org/10.1007/s42341-023-00456-6</a>, May 2023 (IF=1.9).</li> <li>“Theoretical optimization of defect density and band offsets for CsPbI<sub>2</sub>Br based perovskite solar cells” Materials Today Communications (Elsevier), 33 (2022): 104546, September 2022 (IF=3.8).</li> <li>Bulk-driven inverter configuration and its application for implementing ring oscillator.</li> <li>Computational approach to explore suitable charge transport</li> </ul>

Name of the Author	Title of the Paper/s
	<p>layers for all inorganic CsGeI<sub>3</sub> perovskite solar cells.</p> <ul style="list-style-type: none"> <li>• Performance evaluation of all-inorganic cesium-based perovskite solar cell with BaSnO<sub>3</sub> as ETL.</li> </ul>
Dr. Rocky Gupta	<ul style="list-style-type: none"> <li>• “Harnessing the Role of Charge Transport Layers for Efficient Design of PBDBT/ITIC-OE Based Organic Solar Cell” Transactions on Electrical and Electronic Materials (Springer), <a href="https://doi.org/10.1007/s42341-023-00456-6">https://doi.org/10.1007/s42341-023-00456-6</a>, May 2023 (IF=1.9).</li> <li>• “Theoretical optimization of defect density and band offsets for CsPbI<sub>2</sub>Br based perovskite solar cells” Materials Today Communications (Elsevier), 33 (2022): 104546, September 2022 (IF=3.8)</li> <li>• Bulk-driven inverter configuration and its application for implementing ring oscillator.</li> <li>• Computational approach to explore suitable charge transport layers for all inorganic CsGeI<sub>3</sub> perovskite solar cells.</li> <li>• Theoretical optimization of defect density and band offsets for CsPbI<sub>2</sub>Br based perovskite solar cells.</li> <li>• Performance evaluation of all-inorganic cesium-based perovskite solar cell with BaSnO<sub>3</sub> as ETL.</li> </ul>
Prof. Rakesh Vaid	<ul style="list-style-type: none"> <li>• Structural and electrical characterization of gold nanoparticles-based flexible triboelectric nanogenerator   Journal of Materials Science: Materials in Electronics, Vol. 34, no. 4, pp. 266 Jan 2023, doi: <a href="https://doi.org/10.1007/s10854-022-09715-3">https://doi.org/10.1007/s10854-022-09715-3</a> Impact factor:2.8 (Springer US).</li> <li>• Application of nanoscale devices in circuits: Nanoelectronics: Physics, Materials and Devices, pp. 359-384, Jan 2023 <a href="https://doi.org/10.1016/B978-0-323-91832-9.00017-8">https://doi.org/10.1016/B978-0-323-91832-9.00017-8</a> (Elsevier).</li> <li>• Physical properties of carbon nanotubes and nanoribbons: Graphene, Nanotubes and Quantum Dots-Based Nanotechnology” pp. 305- 332, July 2022 <a href="https://doi.org/10.1016/B978-0-323-85457-3.00036-0">https://doi.org/10.1016/B978-0-323-85457-3.00036-0</a> (Woodhead Publishing).</li> <li>• Synthesis and Characterization of a Transparent PMMA Based Triboelectric Nanogenerator for Wearable Electronic Applications   ECS Meeting Abstracts, Volume MA2022-01, Z04: 1D/2D/3D/4D Materials and Systems + Soft Robotics (4D↓MS+SoRo).</li> <li>• Fabrication of a Low Cost Triboelectric Nanogenerator (TENG) for Wearable Devices   ECS Meeting Abstracts, Volume MA2022-01, Z04: 1D/2D/3D/4D Materials and Systems + Soft Robotics (4D↓MS+SoRo).</li> <li>• Physical properties of carbon nanotubes and nanoribbons.</li> <li>• Synthesis and characterization of power efficient triboelectric nanogenerator based on contact-separation mode using spray pyrolysis.</li> </ul>

Name of the Author	Title of the Paper/s
	<ul style="list-style-type: none"> <li data-bbox="553 180 1479 245">• A critical review on the material aspects of triboelectric nanogenerators (TENG).</li> </ul>

#### **Awards/Fellowships to faculty:**

- Prof. Rakesh Vaid, faculty in the Department of Electronics, University of Jammu bagged a prestigious “Fulbright Fellowship” in the United States of America (USA).
- Dr. Sandeep Arya, Senior Assistant Professor, Department of Physics, University of Jammu, has been named in the prestigious list released by Stanford University of top 2% scientists in the world of single recent year dataset. He is the only researcher from Jammu University that has been featured in the list. Scientists are classified into 22 scientific fields and 176 sub-fields. Field- and subfield-specific percentiles are also provided for all scientists with at least 5 papers. Career-long data are updated to end-of-2021 and single recent year data pertain to citations received during calendar year 2021. The selection is based on the top 100,000 scientists by c-score (with and without self-citations) or a percentile rank of 2% or above in the sub-field. 195,605 scientists are included in the career-long database and 200,409 scientists are included in the single recent year dataset. This version (4) is based on the Sept 1, 2022 snapshot from Scopus, updated to end of citation year 2021. Dr. Sandeep Arya is working in the field of applied physics. His work is focused on the development of electrochemical sensors, colorimetric sensors, super capacitors, energy storage devices, etc. He has published more than 100 research articles, many of which are published in journals with good impact factors. He is also a member of the editorial boards of numerous prestigious journals and a recipient of National Fellowships and government-funded research initiatives.

#### **Awards to students/scholars:**

- Prof. Umesh Rai, Vice Chancellor University of Jammu felicitated a Research Scholar of the Department of Electronics, University of Jammu, who has been selected for the Prestigious Indo-German Industrial Fellowship, which is funded by the Indo-German Science and Technology Centre, a bilateral Institution of Ministry of Science and Technology, Government of India and Federal Ministry of Education and Research, Government of Germany.

#### **Activities/Events organized:**

- Department of Electronics in collaboration with UGC-Human Resource Development Centre (HRDC) organized three-day workshop on “Internalization of Higher Education: Opportunities and Challenges in line with NEP-2020” under the RUSA-II Faculty Improvement Support. Prof. Nandakumar Kalarikkal, Senior Professor, MGU. Kerala and Prof. K. C. Mohite, Former-Dean, Pune University were the Resource Persons.

## DEPARTMENT OF GEOGRAPHY

The Department of Geography, established in 1988, has made strides in teaching and research work in different fields of the subject. This Department is the only department in the country which imparts education, training and research in Glaciology. The Department has completed two glacial projects on Himalayas, sponsored and funded by Department of Science and Technology, New Delhi and two projects on Resources Planning sponsored by UGC. The Department has well equipped Geomorphology, Soil and Cartographic laboratories with sophisticated instruments.

### Programmes offered by the Department

- M.Sc.
- Ph.D.

### Interdisciplinary Programmes offered and details of Departments/disciplines involved

- Physical Geography
- Human Geography

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research

- Gender Studies
- Agriculture Geography
- Himalayan Resource Evaluation and Management
- Population Geography
- Regional Planning and Management

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Anuradha Sharma	Ph.D.	Professor & HoD		31
Dr. Mohd. Sarfaraz Asgher	Ph.D.	Professor	Environment Planning & Management, Geomorphology and Hydrology	29
Dr. Shashi Prabha	Ph.D.	Associate Professor	Agriculture Geography	23
Dr. InderJeet Singh	Ph.D.	Assistant Professor	Agriculture Geography, Remote Sensing & GIS	12

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
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Dr. Devinder Singh	Ph.D.	05
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**Detail of Research Projects including international Projects and national collaborative projects:**

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Improvement in Socio- Economic Conditions of Tribals of Suru Zanskar Valley (Kargil) through technological intervention	DST	46.42	Ongoing
Assessment of Climate change on the sustainability of wetlands in Jammu Division	JKST&IC	3.00	Ongoing
Variability Analysis of Climate change for sustainable agriculture: An Agro-Ecological based approach of the Himalayan and Sub-Himalayan regions of Union Territory of Jammu & Kashmir	JKST&IC	3.00	Ongoing

**Publications:**

Name of the Author	Title of the Paper/s
Dr. Inderjeet Singh	<ul style="list-style-type: none"> <li>The Individually Owned Agricultural Landholdings in Jammu Province of Jammu and Kashmir: Assessing the Growth and Inequality (2000-2015).</li> <li>Regional Variation of Food Security in Himachal Pradesh.</li> <li>Horticulture in Kashmir Valley: Opportunities and Challenges.</li> </ul>
Prof. Anuradha Sharma	<ul style="list-style-type: none"> <li>Production of Bioethanol Using Agricultural Waste: An Overview.</li> <li>Agriculture Waste Management and Bioresource: The Circular Economy Perspective.</li> <li>Enhanced CO<sub>2</sub> assimilation by engineered Escherichia coli (E. coli).</li> <li>Growing Menace of Microplastics in and Around the Coastal Ecosystem.</li> <li>Human-induced stresses on the rivers beyond their assimilation and regeneration capacity.</li> <li>Structure, Pattern, and Composition of Riparian Vegetation in North-western Himalayas, India.</li> <li>Study of Domestic Violence in Jammu Province - An ongoing Threat to Women.</li> <li>The Individual Owned Agricultural Landholdings in Jammu Province of Jammu and Kashmir: Assessing the growth and Inequality (2000-2015).</li> </ul>
Dr. Mohd. Sarfaraz Asgher	<ul style="list-style-type: none"> <li>Ground water potential mapping of tawi river basin of jammu district, India Using geospatial techniques.</li> <li>Prediction of land use changes at a metropolitan city using</li> </ul>

	<p>integrated cellular automata: past and future.</p> <ul style="list-style-type: none"> <li>• Assessing livelihood vulnerability to climate variability in the Himalayan region: a district level analysis of Jammu province, India.</li> <li>• Analysing Process and Probability of Built - Up Expansion Using Machine Learning and Fuzzy Logic in English Bazar, West Bengal.</li> <li>• Computational Analysis for Assessment of Water, Sanitation and Hygiene Status and its Implications on Empowerment of Gujjar Tribe in Shiwalik Himalayas of Jammu &amp; Kashmir , India.</li> </ul>
Dr. Shashi Prabha	<ul style="list-style-type: none"> <li>• Role of Agricultural infrastructure for Promoting Diversified Agriculture: A Study of Kathua District of Jammu and Kashmir</li> </ul>

**Activities/Events organized:** Nil



## DEPARTMENT OF GEOLOGY

The Department of Geology is one of the oldest departments of the University established in 1956. The Alumni of this Department have risen to high executive and academic positions including two former Director Generals of India and Pakistan. The Department is recognized under FIST - Level II and has received UGC assistance at the level of DRS -1 under Special Assistance Programme (SAP).

### Programmes offered by the Department

- M.Sc.
- Ph.D.

**Interdisciplinary Programmes offered and details of Departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research:

#### Thrust Areas - I

- Biostratigraphy
- Sedimentology
- Geomorphology
- Palaeontology

#### Thrust Areas - II

- Ore Geology
- Mineral Exploration

#### Thrust Areas - III

- Climate Change
- Cryosphere
- Quaternary Climate

#### Thrust Areas - IV:

- Remote Sensing & GIS Application
- Landslide Hazard Zonation
- Seismology and Active Tectonics

### Collaborations:

- Keele University, UK.
- Gotingen University, Germany.
- University College London, UK.
- Wadia Institute of Himalayan Geology, Dehradun.
- Birbal Sahni Institute of Palaeosciences, Lucknow.
- Vinoba Bhave University, Hazaribagh.

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Dr. P. K. Srivastava	Ph.D.	Professor & HoD	Economic Geology & Mineral Exploration	27
Dr. A. S. Jasrotia	Ph.D.	Professor	Remote Sensing & GIS	27
Dr. S. K. Pandita	Ph.D.	Professor	Sedimentology & Disaster Management	27
Dr. Varun Parmar	Ph.D.	Professor	Paleontology & Stratigraphy	20
Dr. Som Nath	Ph.D.	Associate Professor	Palaeontology, Cainozoic stratigraphy & Sedimentology	16
Dr. Yudhbir Singh	Ph.D.	Assistant Professor	Engineering Geology	12

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Neha Arora	Ph.D.	07
Dr. Waquar Ahmed	Ph.D.	05
Dr. Kshetrimayum Deepak Singh	Ph.D.	05
Dr. Sumeet Khullar	Ph.D.	02

#### Detail of Research Projects including international Projects and national collaborative projects:

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Seismotectonic analysis of Jammu region and its adjoining areas (2014-2019)	MoES	206.96	Ongoing
Seismic hazard assessment in the Kashmir Himalaya using geological, seismological and geodetic data (2014-2019)	MoES	163.86	Ongoing
Crustal deformation studies and active fault mapping in Jammu and Kashmir region (2014-2019)	MoEs	158.54	Ongoing
Mega- and microfloristics of the Permo-Carboniferous sediments of Kashmir region: evolutionary, biostratigraphical, palaeoecological and palaeophytogeographical implications	BSIP	23.96	Ongoing
Biodiversity and Palaeobiogeography of the Microbiota from the Deccan Infra and Intertrappean beds of the Malwa Plateau, Central (2018-2021)	DST-SERB	37.36	Ongoing

#### Publications:

Name of the Author	Title of the Paper/s
Prof. Pankaj K. Srivastava	<ul style="list-style-type: none"> <li>Geochemistry and economic potential of tourmalinites from Salumbera Ghatol Metallogenic Belt, southeastern Rajasthan, India.</li> </ul>



	<ul style="list-style-type: none"> <li>Trace element composition of fluorite from the Chumathang pegmatite deposit, eastern Ladakh, India.</li> </ul>
Prof. A.S. Jasrotia	<ul style="list-style-type: none"> <li>Effect of shadow on atmospheric and topographic processed NDSI values in Chenab basin, western Himalayas.</li> <li>Identification of groundwater potential zones using electrical resistivity tomography technique.</li> <li>Investigation of lateral and terminal moraines of DrangDrung glacier using Electrical Resistivity Tomography technique.</li> </ul>
Prof. Varun Parmar	<ul style="list-style-type: none"> <li>First record of Erinaceidae and Talpidae from the Miocene Siwalik deposits of India.</li> </ul>
Prof. G.M. Bhat	<ul style="list-style-type: none"> <li>Geochronology and geochemistry of the Panjal Traps from the southern Pir Panjal Range, Kashmir, India.</li> <li>Platinum-group element geochemistry of the Panjal Traps: constraints on mantle melting and implications for mineral exploration.</li> </ul>
Dr. Yudhbir Singh	<ul style="list-style-type: none"> <li>Geoengineering properties of the Sandstones of Upper Murree Formation, Jammu and Kashmir: A case study.</li> </ul>
Dr. S. K. Pandita	<ul style="list-style-type: none"> <li>Kashmir Valley: Evolution and Prehistory.</li> <li>Geoengineering properties of the Sandstones of Upper Murree Formation, Jammu and Kashmir: A case study.</li> </ul>

**Activities/Events organized:** Nil



## DEPARTMENT OF REMOTE SENSING & GIS

The Department of Remote Sensing and GIS has been established in the year 2008 with all the requisite facilities required for Remote Sensing and GIS studies. The Remote Sensing & GIS lab is well equipped with latest softwares of GIS and Digital Images processing such as Arc Info/ Arc GIS 10, ERDAS 10 with Imagine ERDAS Virtual GIS, Arc IMS, Intergraph Advance RS & GIS Edu. kit Vs 2015 (modules for Remote Sensing and GIS) and ILWIS etc. Seven batches have already passed out, among them 43 students have absorbed in different places in Government and private sector such as Agriculture, SBI & Canara Bank, JKP, Assistant Commandant, Army Lieutenant and Private Sector such as Wipro Co. Jammu, Punjab Remote Sensing, Ludhiana, JDA Jammu, Nokia GIS Mapping Jammu, Dimensions India Delhi, Remote Geoinformatics New Delhi, Innodata India Pvt. Ltd Delhi, Aerial telecom Chandigarh, MGNREGA, Jammu etc.

### Programmes offered by the Department

- M.Sc.
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):** Nil

### Thrust Areas of Teaching and Research

- Remote Sensing & GIS application in Water Resources
- Remote Sensing & GIS application in Climate Change & Hydrology
- Remote Sensing & GIS application in Land use Change Scenario
- Remote Sensing & GIS application in Cryosphere and Glaciology
- Remote Sensing & GIS application in Biodiversity and Biomass
- Remote Sensing & GIS application in desertification Vulnerability
- Remote Sensing & GIS application in Urban and Rural Planning
- Remote Sensing & GIS application in Environmental Impact Assessment

### Collaborations:

- Wadia Institute of Himalayan Geology, Dehradun.
- Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun.
- Integrated Studies of Himalayan Cryosphere using Space-Based Inputs (ISHC), Space Application Centre, (ISRO) Ahmedabad.
- Monitoring of Integrated Watershed Programme (IWMP) Watersheds using Geospatial technologies National Remote Sensing Centre, Hyderabad.
- National Wetland Inventory and Assessment (NWIA) Phase-II (under SARITA programme) Space Application Centre, (ISRO), Ahmedabad.
- Monitoring and Assessment of Mountain Ecosystems and Services in North-West Himalaya (Phase-II): Monitoring and Modeling of Hydrological Processes in Glaciated and Non-Glaciated Watersheds of North-West Himalaya Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun.

- Cryosphere Sciences and Application program (CAP) on “Glacier studies in Indus (North/South) basin funded by Cryosphere Sciences Division Geo-Sciences, Hydrology, Cryosphere Sciences and Application Group, Earth, Ocean, Atmosphere, Planetary Sciences and Applications Area, Space Application Centre (SAC), ISRO, Ahmedabad.

#### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. A.S Jasrotia	Ph.D	Professor & Head	Remote Sensing & GIS	27
Dr. Ajay Kumar Taloor	Ph.D	Assistant Professor	Remote Sensing & GIS	09

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Deepika Baru	Ph.D.	05
Dr. Retinder Kour	Ph.D.	09

#### Detail of Research Projects including international Projects and national collaborative projects:

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Monitoring of Integrated Watershed Programme (IWMP) Watersheds using Geospatial technologies	NRSC, Hyderabad		Ongoing
Monitoring and Assessment of Mountain Ecosystems and Services in North-West Himalaya (Phase-II): Monitoring and Modeling of Hydrological Processes in Glaciated and Non-Glaciated Watersheds of North-West Himalaya	IIRS, ISRO, Dehradun		Ongoing

#### Publications:

Name of Author	Title of the Paper/s
Dr. A.K. Taloor	<ul style="list-style-type: none"> <li>• Characterization of the groundwater quality in Udham Singh Nagar of Kumaun Himalaya, Uttarakhand.</li> <li>• Spatial variations and trend analysis of groundwater salinity along coastal aquifers of Mundra-Kachchh over a decade using thematic maps and GIS mapping.</li> <li>• Remote sensing and GIS applications in water cryosphere and climate change.</li> <li>• Identification of active deformation zone associated with the 28th April 2021 Assam earthquake (Mw 6.4) using the PSInSAR time series.</li> <li>• Geospatial Technology-Based Analysis of Air Quality in India during the COVID-19 Pandemic.</li> <li>• Impact assessment of the seasonal hydrological loading on geodetic movement and seismicity in Nepal Himalaya using GRACE and GNSS measurements.</li> </ul>

	<ul style="list-style-type: none"> <li>• Exploring recent groundwater level changes using Innovative Trend Analysis (ITA) technique over three districts of Jharkhand, India.</li> <li>• Monitoring the dynamics of Bara Shigri glacier using Synthetic Aperture Radar data of Sentinel-1 satellite and effect of climate on mass balances.</li> <li>• Analysis and Variation of the Maiac Aerosol Optical Depth in Underexplored Urbanized Area of National Capital Region, India.</li> <li>• Remote sensing and GIS applications in water science.</li> <li>• Geomorphometric Appraisal for Seismic Hazard Assessment in the Chenab River Basin of the NW Himalayas, India.</li> <li>• Assessment of the geomorphic indices in relation to tectonics along selected sectors of Borpani River Basin, Assam using Cartosat DEM data.</li> <li>• Geospatial technology-based monitoring of HAGL in the context of flash flood: A case study of Rishi Ganga Basin, India.</li> <li>• Assessment of Digital Elevation Models Based on the Drainage Morphometric Parameters for the Tawi River Basin.</li> </ul>
Prof. A.S Jasrotia	<ul style="list-style-type: none"> <li>• Investigation of Lateral and Terminal Moraines of Drang Drung Glacier Using Electrical Resistivity Tomography Technique.</li> </ul>

#### **Achievements of the Department:**

- The Digital Water Level Recorder (DWLR) has been installed near Katal Batal Bridge to Baba Pehad Devta in the Tawi Catchment area of Nagrota, Jammu, in collaboration with the Indian Institute of Remote Sensing (IIRS), ISRO, Department of Space, Government of India.
- The department has uploaded all geospatial data of the Western Himalaya to the web portal of the Department of Remote Sensing and GIS at the University of Jammu.
- The department has also developed advanced research laboratories equipped with facilities such as DGPS, an HP DesignJet 4500 - A0 Scanner, ArcGIS Software (Arc GIS 10.8.1/EIGAP Plus (50 User-5year subscription), Arc GIS Drone2 Map, SARSCAPE Basic Module, Insar Bundle, Envi/ Envi Atmospheric Correction Module), ERDAS Imagine Software 2020 (20 license's), GeoMedia, and geophysical instrument. These laboratories will support research related to Hydrology, Cryosphere, Climate Change, and land use/land cover analysis.

#### **Best Practices of the Department:**

- A diverse array of research interests, combined with excellent facilities, fosters an environment that encourages enthusiastic idea exchange among students.
- Collaborations and MOUs to support advanced research. Research scholars are encouraged to attend conferences and workshops.

#### **Activities/Events organized:**

- Department of Remote Sensing & GIS organized lecture on the topic “Cryosphere related hazards in the Himalayas” by Dr. Irfan Rashid, Department of Geoinformatics, University of Kashmir.
- Department of Remote Sensing & GIS organized the lecture on the topic “Trending Technologies (Python)” by Mr. Balbeer Singh, Head (IT Trainer), National Highway Gangyal, Jammu.
- Department of Remote Sensing & GIS organized the lecture on the topic “Geospatial Trends” by Prof. R. Jaganathan, Department of Geography University of Madras, Guindy Campus, Chennai.



## DEPARTMENT OF HOME SCIENCE

The Department of Home Science was established in 1988 with a specialization in Human Development. Human Development is committed to improving the health and well-being of diverse individuals and families across the lifespan through research and preparation of post graduates and scholars for research, teaching, and professional practice. The Masters' Degree Program, currently, has an intake capacity of 20 students. From 2015 onwards the participation of students from other Departments has been initiated in the form of Open Elective Courses offered to students from other Departments. There were 21 scholars registered for the Ph.D Program in the Department during 2017-2018.

### Programmes offered by the Department:

- M.Sc.
- Ph.D.

### Interdisciplinary Programmes offered and details of departments/disciplines involved:

- Mental Health of Adolescents and Youth ( Open Elective 3<sup>rd</sup> Semester)
- Child and Human Rights( Open Elective 4<sup>th</sup> Semester)

### Recognition/Accreditation of the programmes offered by the department (other than University):

Nil

### Thrust Areas of Teaching and Research:

- Child and Family Studies
- Early Childhood Care and Education
- Advanced Study in Human Development, Reproductive and Post Reproductive Health  
Family life Education and Life Skills
- Statistics; Research Methods and Computer Applications; Techniques of Studying Human Behavior.
- Disability Studies
- Youth and adolescence & Women Issues
- Law, policies and programs for children; Human Rights
- Gender issues
- Adolescence and Youth issues
- Parenting
- Guidance and Counseling, Mental Health
- Tribal Studies
- Health and Well Being

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Samridhi Arora	Ph.D	Professor & HoD	Early Childhood Care and Education, Child Rights, Tribal issues, Evaluative Studies,	22

Name	Qualification	Designation	Specialization	Experience in Years
			Gerontology, health issues related to Adolescents and women	
Prof. Rajni Dhingra	Ph.D	Professor	Early Childhood Development, ICDS impact evaluation, Parenting, Adolescence (with specific emphasis on Adolescent Health), Tribal studies	29
Prof. Neeru Sharma	Ph.D	Professor	Adolescence issues, Health issues for women and girls, Gender issues, Gerontology, Research methodology	31
Dr. Shashi Manhas	Ph.D	Professor	Gender issues, ECCE, ICDS, Adolescent issues	16
Dr. Sarika Manhas	Ph.D	Professor	Disability studies, Parenting, Tribal issues, Evaluative Studies, vulnerable children	19

**Detail of Research Projects including international Projects and national collaborative projects:**

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Trends and determinants of childhood malnutrition and Morbidity among Gujjar Tribals of J&K	CSSEIP, UoJ	0.25	Completed
Screening of Preschool age children of Jammu District for Developmental delays/lags	Innovative Research Grants Scheme of XII Plan	0.67	Completed
Cultural Construction of Dogra Mothers Beliefs	CWS, UoJ	0.25	Completed
Monitoring and evaluation of ICDS in Jammu Province	NIPCCD, New Delhi	8.00	Completed
Health seeking behaviour among women (35-36 years) of Jammu	UGC	9.82	Completed
Adolescents in Jammu District: Relationship of Religiosity with subjective well being among Tribal	UGC	2.00	Completed

**Publications:**

Name of the Author	Title of Paper/s
Prof. Samridhi Arora	<ul style="list-style-type: none"> <li>MidDay Meal Scheme amidst COVID 19 in India- A Review Based Analysis.</li> <li>Knowledge of Gujjar respondents related to postnatal care in Doda district (J&amp;K).</li> </ul>

Prof. Sarika Manhas	<ul style="list-style-type: none"> <li>• Comparative Analysis of body satisfaction and emotional maturity between visually impaired and sighted adolescents.</li> <li>• Sports for Inclusion and Empowerment: Examining the Impact on Persons with Disabilities.</li> <li>• Disability and Disaster: A Challenge to Excel.</li> <li>• Academic Dilemma Experienced By Persons with Disabilities during Covid-19.</li> <li>• Parental Stress: A Comparative Analysis of Single Mother and Single Father of Jammu District.</li> <li>• Sports for Inclusion and Empowerment: Examining the Impact on Persons with Disabilities.</li> </ul>
Prof. Shashi Manhas	<ul style="list-style-type: none"> <li>• A Study on Awareness, Reasons and Challenges Concerning Female Foeticide in District Jammu (J&amp;K).</li> </ul>

### **Achievements of the Department:**

- The Department started a self- sufficient Nursery school and Day Care Centre for University employees (and general public, in case seats are vacant) in 1997. U.G.C. sanctioned financial aid of Rs.2 lacs during IX plan period for the development of school infrastructure was followed by a grant of 10 lacs in 2007. Special grant have also been received to strengthen the infrastructure and other facilities. The nursery school currently caters to 50 preschool children. Variety of teaching and stimulation material is available to meet the developmental needs of children. It acts as a laboratory for M.Sc.students besides providing contact point for reaching out to the community. Every year a parental empowerment programme is organised to strengthen home-school continuum. Interactions are held regularly with the parents and informal counselling facility is also available for the parents and children.
- The Department is actively involved in Community outreach activities. About 40 extension activities were organised by the department for various target groups including Nursery School teachers, ICDS workers, adolescent girls, women and others. These programmes were organised in collaboration with agencies like WWF, ICDS (Govt. of India), Social welfare department, University departments, Home Science Colleges, Nursery school and various NGO's. Teachers are invited to deliver extension lectures. About 30 lectures/popular talks were delivered by teachers during the period of reference.
- The Department has been recognized as one of the Departments to get financial assistance under the PURSE programme of Department of Science and Technology, Govt. of India. The Department has already received financial assistance under DST-PURSE scheme of Ministry of Science and Technology, Govt. of India, during 2011-14. From the year 2017 onwards the grant has been extended for the next four years. The Department has now set up Developmental Stimulation Laboratory, Screening and Assessment Laboratory, Health and Well Being Laboratory, Outreach Laboratory and Parenting and Family Research Laboratory based on the funding received under the various schemes like DST PURSE, RUSA, and State Plan etc.

### **Activities/Events organized:**



- Department of Home Science in collaboration with Human Development Resource Centre, University of Jammu organized five-day FDP on “Development of Leadership Skills among Future Academic Leaders”. Mr. S. A. Mujtaba, Former Member JKPSC and Former DG Prosecution, JKP, was the Chief Guest and Dr. Yasmeen Ashai, Director Colleges, JKUT was the Guest of Honour. Speaking on the occasion Mr. Mujtaba encouraged the participants and lauded the efforts of the Department of Home Science and the UGC HRDC, University of Jammu, in organizing the FDP which was on a very relevant and contemporary theme. He said that communication is an essential tool of leadership and as an academician; knowledge of one’s field plays a key role. He also mentioned that NEP 2020 focused on inculcating leadership skills and it’s a policy that connects various disciplines.
- Department of Home Science in collaboration with National Institute of Social Defense, Ministry of Social justice and empowerment and ANUGRAHA Regional Resource Centre and Training Centre on Ageing organized five-day outreach programme on Primary Health Care for Senior Citizens for the youth. Dr. Aabha Choudhary, Chairperson of ANUGRAHA Regional Resource and Training Centre on Ageing; Dr. Nirojini Bhat, Former Visiting Faculty in Food & Nutrition; Dr. Rohit Bhatia, Renowned Physiotherapist and Visiting Consultant, IIT, Jammu; Dr. Kamini Sharma, Neurologist, K.D Multispecialty Hospital, Jammu; Ms. Deepali Arora, Senior Advocate, J & K High Court were the Keynote Speakers. The programme was attended by all the faculty members, scholars and students of Department of Home Science.



## DEPARTMENT OF PHYSICS

The Department of Physics was established in 1967 and offers four specializations in the frontline areas of research namely Condensed Matter Physics, High Energy Physics, Nuclear theory and Electronics. Our post graduate laboratories offer a comprehensive range of equipment allowing students to explore some of the most modern concepts in physics. The students are provided with computing facility to permit easy access to the web, to process data and carry out simulations. The Department at present is well equipped with necessary facilities and resources for teaching, higher learning and research. The research is organized into six areas- High energy Physics, X-ray crystallography, Crystal Growth and characterization, Solid State Electronics and theoretical Physics. Each of these research laboratories are equipped with state of art research facilities. The High Energy Physics group of the department of Physics has been collaborating in various frontline experiments based at CERN (European Centre for Nuclear Research), Geneva, Switzerland since 1985, at Fermilab and Brookhaven, USA. Recently the group has joined another futuristic international collaborative experiment called compressed Baryonic matter (CBM) at the FAIR facility at GSI, Darmstadt in Germany and the Fermilab-India Nutrinono project at USA. The whole effort is geared towards the creation and study of the Quark Gluon Plasma an extremely hot and dense exotic state of matter, which is believed to have existed after a few quivering moments of the "Big Bang" through which universe was created. As a part of the ALICE Collaboration HEP group is also a part of a worldwide distribution network of the computing resources for data analysis (the LHC GRID) as a TEIR 3 centre. In our endeavour to set up this GRID facility we aim at developing the High Energy Physics Lab at Jammu University to be a viable centre for data analysis of large experiments. The X-ray Crystallography group of the Department is also a part of a collaborative research work with several Indian institutes/universities and also with Howard University, Washington DC in the US. They also are running the Diffractometer facility funded by the DST. The Crystal Growth group also is a part of the collaborative effort with some universities in UK and India.

### Programmes offered by the Department

- M.Sc.
- Ph.D.

### Interdisciplinary Programmes offered and details of departments/disciplines involved

- Material Science (Open Course) (M.Sc Physics 3<sup>rd</sup> Semester)
- Atomic and Molecular Physics (Open Course) (M.Sc Physics 4<sup>th</sup> Semester)

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research

- High Energy Physics
- Theoretical Nuclear Physics
- Physics of Materials
- Condensed Matter Physics (X-ray Crystallography)
- Crystal Growth and Material Research
- Solid State Electronics.

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Naresh Padha	Ph.D	Professor	Optoelectronics	34
Prof. Rajni Kant	Ph.D	Professor	Condensed Matter Physics / X-Ray Crystallography	34
Prof. Anju Bhasin	Ph.D.	Professor	Experimental High Energy Physics (Working in ALICE & CBM collaborations)	29
Prof. Vivek Gupta	Ph.D	Professor	Condensed Matter Physics / X-Ray Crystallography	28
Prof. S. S. Sambyal	Ph.D	Professor	High Energy Physics	28
Prof. Arun Bharti	Ph.D	Professor & Head	Theoretical Nuclear Physics (Nuclear Structure and Nuclear Reactions)	26
Prof. K K. Bamzai	Ph.D	Professor	Experimental Solid State Physics / Crystal Growth & Characterization / Materials Research	26
Dr. Ramni Gupta	Ph.D	Professor	High Energy Physics	21
Dr. Rani Devi	Ph.D	Associate Professor	Nuclear Theory	19
Dr. Sandeep Arya	Ph.D	Assistant Professor	Electronics and Materials Science (Nanomaterials for Sensing and Energy applications)	14
Dr. Rajendra Nath Patra	Ph.D	Assistant Professor	Experimental High Energy Physics and QGP study, Silicon and Gas detector technology	02

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Ridham Bakshi	Ph.D.	01
Dr. Arun Banotra	Ph.D.	05

#### Detail of the Research Projects

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Evolution of quasi-particle structure of some deformed nuclei lying in	SERB-DST	7.59	Completed

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
the mass range $100 \leq A \leq 150$			
Multiplicity fluctuation study of particles generated using EPOS4 Monte Carlo generator	Seed Grant, UoJ	2.00	Completed
Synthesis and characterization of metallic nano wires as super capacitors	Seed Grant, UoJ	1.00	Completed
Complete analysis of structure, spectra and properties of steroids	WAS-A, DST	30.81	Completed
Synthesis and characterization of Nickel and Manganese based nanoelectrodes for high performance self-charging supercapacitors	SERB-DST	42.74	Ongoing
Semiconductor Thin Films and Devices for Photonic Applications (Solar cells and Sensors)	Seed Grant, JU	2.00	Ongoing
Multiplicity fluctuation study of particles generated using EPOS4 Monte Carlo generator	Seed Grant, JU	2.00	Ongoing
Synthesis and characterization of carbon based materials as super capacitors	Seed Grant, JU	2.00	Ongoing

#### Publications:

##### Prof. Arun Bharti:

- Theoretical study of nuclear structure properties of positive parity states of odd mass  $103-117\text{Ag}$  nuclei.
- Structural evolution and shape transitions of even-even  $^{140-150}\text{Ba}$  nuclei using triaxial projected shell model.
- Theoretical analysis of shape transition and axial symmetry in even-even  $\text{Yb}$  isotopes.

##### Prof. Rajni Kant:

- One-Pot Synthesis of Chiral Tetracyclic Dibenzo [b, f][1,4]oxazepine-Fused 1,2-Dihydropyridines (DHPs) under Metal-Free Conditions.
- Expedient synthesis of isolated steroids-fluorine prodrugs, their single crystal X-ray crystallography, DFT studies and mathematical modeling.

- Indium(III) and organotin(IV) 2-(methoxycarbonyl)benzenethiolates: Synthesis, structure and properties.
- Nanosized Calcined Mixed oxides supported alkali metal (K<sub>2</sub>O/ Al<sub>2</sub>O<sub>3</sub>-CaO) as solid base catalyst: Preparation and investigation of its catalytic efficiency in the synthesis of benzylidene malononitriles / barbiturates and in pyrano [2, 3-d] pyrimidines.
- Synthesis and structural studies of Cu(I) methylthiosalicylate complexes and their catalytic application in thiol-yne click reaction.
- Synthesis and structural characterization of Cd(II) complexes based on acetylene dicarboxylate: A 1-D polymer as a precursor to CdO nanoparticles.
- Expedient synthesis of isolated steroids-fluorine prodrugs, their single crystal X-ray crystallography, DF studies and mathematical modeling.
- Supramolecular co-crystal of 4-dimethyl aminopyridine with Picric acid (4DMAP:PA): Synthesis, single crystal investigation, HF/DFT inspection, Hirshfeld surface and antifungal activity.
- Synthesis of a Few Novel Cu(I) Methylthiosalicylate Complexes and their Application for the Synthesis of Vinyl Sulfide via Thiol-Yne Click Reaction.
- Structure, Quantum Chemical and In Silico Molecular Docking Analysis of some Di-Ortho-Substituted Halogenated Biphenyls.
- Synthesis, characterization, quantum chemical calculation, Hirshfeld surface analysis and antibacterial activity of a co-crystal of 4-aminopyridine: p-hydroxybenzoic acid with a water molecule.
- Synthesis, XRD, DFT/HF and Molecular docking investigations of 4-(tert-butyl)-4-methoxy-1,1-biphenyl.
- Synthesis, crystal structure, DFT/HF, Hirshfeld surface and molecular docking analysis of 4-(tert-butyl)-4-nitro-1,1-biphenyl (4TBNB).
- Synthesis, characterization, Hirshfeld surface analysis and molecular docking studies of 3-(cyclohexylthio)-4-hydroxy-6-methyl-2H-chromen-2-one.
- Crystallographic structure, quantum and in silico interaction analysis of 3-(benzylthio)-4-hydroxy-2H-chromen-2-one.
- Camphor sulfonic acid catalyzed one-pot pseudo three-component synthesis of a series of 1,8-dioxo-octahydroxanthenes and comparative crystal structures investigations and Hirshfeld surface analysis of five such derivatives.
- Synthesis, Structural Elucidation, Physico-chemical Quantum Properties and In Silico Interaction Analysis of 2-methyl-3-((4-nitrobenzyl)oxy)quinoxaline.
- Synthesis, Crystal Structures Investigations and Hirshfeld Surface Analysis of Novel Molecule 2, 5-Dihydro [2]Benzopyrano [3,4-c] Pyrazole-water (1/4).

**Prof. Anju Bhasin:**

- Probing strangeness canonical ensemble with  $K^*(1020)$  and  $\Lambda^0$  production in Au+Au collisions at  $\sqrt{s_{NN}}=3$  GeV.
- Evidence for Nonlinear Gluon Effects in QCD and Their Mass Number Dependence at STAR.
- Pair invariant mass to isolate background in the search for the chiral magnetic effect in Au + Au collisions at  $\sqrt{s_{NN}}=200$  GeV.
- Projections of two-particle correlations onto transverse rapidity in Au+Au collisions at  $\sqrt{s_{NN}}=200$  GeV at STAR.
- ATHENA detector proposal - a totally hermetic electron nucleus apparatus proposed for IP6 at the Electron-Ion Collider.
- Measurement of  $K^*(892)^{\pm}$  production in inelastic pp collisions at the LHC.
- Prompt  $D_0$ ,  $D^+$ , and  $D^{*+}$  production in Pb-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV.
- Observation of a multiplicity dependence in the  $p_T$ -differential charm baryon-to-meson ratios in proton-proton collisions at  $\sqrt{s}=13$  TeV.
- Production of light (anti)nuclei in pp collisions at  $\sqrt{s}=5.02$  TeV.
- Hypertriton Production in  $p$ -Pb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV.
- Investigating charm production and fragmentation via azimuthal correlations of prompt D mesons with charged particles in pp collisions at  $\sqrt{s}=13$  TeV.
- General balance functions of identified charged hadron pairs of ( $\pi$ , K, p) in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV.
- Exploring the  $N\bar{N}$ - $N\bar{N}$  coupled system with high precision correlation techniques at the LHC.
- $K_S^0$  and  $K_S^0$  femtoscopy in pp collisions at  $\sqrt{s}=5.02$  and 13 TeV.
- Characterizing the initial conditions of heavy-ion collisions at the LHC with mean transverse momentum and anisotropic flow correlations.
- First study of the two-body scattering involving charm hadrons.
- Production of  $K^*(892)^0$  and  $\Lambda^0$  in pp and Pb-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV.
- Measurement of beauty production via non-prompt  $D_0$  mesons in Pb-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV.

**Prof. Anju Bhasin; Prof. Ramni Gupta; Prof. S.S. Sambyal; Dr. Rajendra Nath Patra and Er. Anik Gupta (ALICE Collaborations):**

- Measurement of prompt  $D_0$ ,  $\Lambda^0$ , and  $\Sigma^0$  production in pp collisions at  $\sqrt{s}=13$  TeV.

- Charm-quark fragmentation fractions and production cross section at midrapidity in pp collisions at the LHC.
- Measurement of inclusive charged-particle b-jet production in pp and p-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.
- Nuclear modification factor of light neutral-meson spectra up to high transverse momentum  $\sqrt{s_{NN}} = 8.16$  TeV.
- Measurement of prompt  $D^+ s^-$  meson production and azimuthal anisotropy in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.
- Measurement of the groomed jet radius and momentum splitting fraction in pp and Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.
- Production of  $\Lambda$  and  $K^0_S$  jets in p-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV and pp collisions at  $\sqrt{s} = 7$  TeV.
- Prompt and non-prompt  $J/\psi$  production cross sections at midrapidity in proton-proton collisions at  $\sqrt{s} = 5.02$  and  $13$  TeV.
- Observation of a multiplicity dependence in the pT-differential charm baryon-to-meson ratios in proton-proton collisions at  $\sqrt{s} = 13$  TeV.
- Investigating the role of strangeness in baryon-antibaryon annihilation at the LHC.
- Polarization of  $\Lambda$  and  $\Lambda^{\bar{}}$  hyperons along the beam direction in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.
- Measurements of the groomed and ungroomed jet angularities in pp collisions at  $\sqrt{s} = 5.02$  TeV.
- Direct observation of the dead-cone effect in quantum chromodynamics.
- Inclusive, prompt and non-prompt  $J/\psi$  production at midrapidity in p-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.
- Forward Rapidity  $J/\psi$  production as a function of charged-particle multiplicity in pp collisions at  $\sqrt{s} = 5.02$  and  $13$  TeV.
- Multiplicity dependence of charged-particle jet production in pp collisions at  $\sqrt{s} = 13$  TeV.
- Neutral to charged kaon yield fluctuations in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV.
- Hypertriton production in p-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.
- Exploring the  $N\Lambda - N\Sigma$  coupled system with high precision correlation techniques at the LHC.
- General balance functions of identified charged hadron pairs of ( $\pi, K, p$ ) in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV.
- $K^0_S K^0_S$  and  $K^0_S K^\pm$  femtoscopy in pp collisions at  $\sqrt{s} = 5.02$  and  $13$  TeV.

- Study of very forward energy and its correlation with particle production at midrapidity in pp and p-Pb collisions at the LHC.
- Characterizing the initial conditions of heavy-ion collisions at the LHC with mean transverse momentum and anisotropic flow correlations.
- Production of  $K^*(892)0$  and  $\phi(1020)$  in pp and Pb-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV.
- First study of the two-body scattering involving charm hadrons.
- Measurement of  $^3\text{He}$  nuclei absorption in matter and impact on their propagation in the galaxy.
- Inclusive quarkonium production in pp collisions at  $\sqrt{s}=5.02$  TeV.
- Constraining the  $K^-\bar{N}$  coupled channel dynamics using femtoscopic correlations at the LHC.
- $\Sigma(1385)\pm$  resonance production in Pb-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV.
- Investigation of  $K^+K^-$  interactions via femtoscopy in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV at the LHC.
- $W^\pm$  -boson production in p-Pb collisions at  $\sqrt{s_{NN}}=8.16$  TeV and PbPb collisions at  $\sqrt{s_{NN}}=5.02$  TeV.
- $K^*(892)0$  and  $\phi(1020)$  production in p-Pb collisions at  $\sqrt{s_{NN}}=8.16$  TeV.
- DFT stimulation and experimental insights of chiral Cu(II)-salen scaffold within the pocket of MWW-zeolite and its catalytic study.

**Prof. Naresh Padha:**

- Sequentially evaporated layer deposition stack of  $\text{Cu}_x\text{S}$  thin films for photonics applications.
- Effect of substrate and annealing temperature on the physical properties of the thin films of  $\text{SnSe}_2$ - $\text{SnSe}$  alloy.
- Impact of annealing on the growth dynamics of indium sulphide buffer layers.

**Dr. Rani Devi**

- Influence of Cross-Sectional Uncertainty on Sensitivity Studies of DUNE and T2HK Experiments.

**Prof. Vivek K Gupta:**

- X-ray crystal structure analysis of  $N'$ -acetyl- $N'$ -phenyl-2-naphthohydrazide.
- A General Method for the Synthesis of 11H-Indeno[1,2-B]Quinoxalin-11-Ones and 6H-Indeno[1,2-B]Pyrido[3,2-E]Pyrazin-6-One Derivatives Using Mandelic Acid as an Efficient Organo-catalyst at Room Temperature.
- Synthesis, characterization, Hirshfeld surface analysis and molecular docking studies of 3-(cyclohexylthio)-4-hydroxy-6-methyl-2H-chromen-2-one.



- Synthesis, Crystal structure, Hirshfeld surface, Nonlinear optical properties and Computational studies of Schiff based (E)-N'-(2,4-dimethoxybenzylidene) benzohydrazide single crystals for optoelectronic applications.
- Mandelic acid catalyzed one-pot pseudo three-component synthesis of various trisubstituted methane derivatives at room temperature.
- Blue fluorescent Zinc (II) complexes bearing schiff base ligand for solution-processed Organic light-emitting diodes with CIEy  $\leq$  0.09.
- Sodium Dodecyl Sulphate Catalyzed One-Pot Three-Component Synthesis of Structurally Diverse 2-Amino-3-cyano Substituted Tetrahydrobenzo[b]pyran s and Spiropyrans in Water at Room Temperature.
- Glycine Catalyzed One-Pot Three-Component Synthesis of Structurally Diverse 2-Amino Substituted Pyran Annulated Heterocycles in Aqueous Ethanol under Refluxed Conditions.
- Structural Engineering and Electronic Properties of Halide-Specific Supramolecular Architectures: Effective for Stabilizing H<sub>2</sub>O<sub>2</sub> + and Fabricating Semiconducting Photoresponsive Diodes.
- Sonochemical synthesis of benzylidene derivatives of enolizable carbonyls and their analogues in aqueous ethanol.
- A simple and efficient method for the synthesis of benzo[3,4-a]phenazin-5-ols and benzo[f]pyrido[b]quinoxalin-5-ol derivatives using trisodium citrate dihydrate as an efficient organo-catalyst at room temperature.
- X-Ray Analysis of N'-Acetyl-4-formyl-N'-phenylbenzohydrazide.

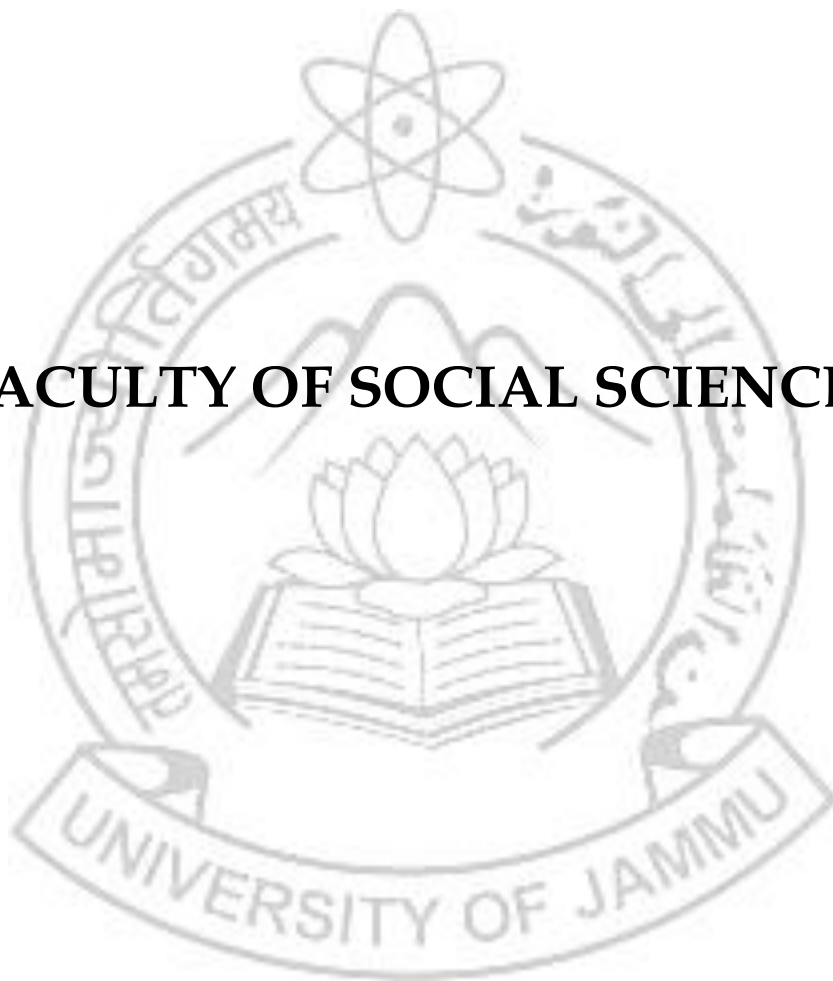
#### **Dr. Sandeep Arya**

- A review of flexible lead-free piezoelectric energy harvester.
- UV-vis spectroscopic method for detection and removal of heavy metal ions in water using Ag doped ZnO nanoparticles.
- Graphene and Its Derivatives: Synthesis and Application in the Electrochemical Detection of Analytes in Sweat.
- Synthesis of various dimensional metal organic frameworks (MOFs) and their hybrid composites for emerging applications – A review.

#### **Activities/Events organized:**

- Three-day 49<sup>th</sup> National Seminar on Crystallography under the aegis of National Committee on Crystallography for International Union of Crystallographs.

**FACULTY OF SOCIAL SCIENCES**



## DEPARTMENT OF ECONOMICS

The Department of Economics, one of the oldest Departments of the University was established in 1956 under the auspices of Jammu and Kashmir University.

In the year 1978, University Grants Commission recognized this Department along with Departments of twelve other Universities for Faculty Improvement Programme. This recognition of the Department attracted students from all parts of the country to undertake M.Phil and Ph.D programme. During the Eighties, the Department completed a number of research projects funded by the University Grant Commission and Indian Council of Social Sciences Research. In the year 1987, the University Grant Commission includes it in Department Research support programme and three research projects on different aspects of the J&K economy were sanctioned to the Department.

The Department actively encourages the faculty members to attend Refresher Courses, organized in the various Academic Staff Colleges, to participate in training programmes, workshops and seminars in their areas of interest.

The faculty has undertaken projects for agencies like the World Bank and the Department of Science and Technology, Government of India on issues like watershed management and the use of remote sensing for decentralized planning. The faculty members have also been providing consultancy to agencies like the World Bank.

### Programmes offered by the Department

- M.A.
- Ph.D.

**Interdisciplinary Programmes offered and details of Departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research

- International Economics
- Development Economics
- Demography
- Gender Economics
- Industrial Economics
- Agriculture Economics
- Financial Institutions
- Environment and Natural Resource Economics
- Human Development
- Economics of Infrastructure, Labour Economics
- Marginalized and Tribal Studies, Rural Development

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Sunita Devi	Ph.D.	Professor & HoD	Industrial Economics Indian Economy, Human Resource Development	29

Prof. Prakash C Antahal	Ph.D.	Professor	Economics of Infrastructure, International Economics, Research Methods	24
Prof. Aroon Sharma	Ph.D.	Professor	Micro Economics, Mathematical Economics and Quantitative Methods	32
Prof. Jasbir Singh	Ph.D.	Professor	Macro Economics, Rural Development, Gender Studies	17
Prof. Dipankar Sengupta	Ph.D.	Professor	Quantitative Techniques, Economic Theory, International Political Economy	18
Prof. Falendra K. Sudan	Ph.D.	Professor	Environmental Economics, Demography, Sustainable Development	33
Prof. Virender Koundal	Ph.D.	Professor	Labour Economics, Financial Institutions, Rural Economy, Macro Economics	22
Dr. Manoj Bhatt	Ph.D.	Professor	Econometrics, Public Economics	18
Dr. Shallu Sehgal	Ph.D.	Associate Professor	Industrial Economics, Agriculture Economics, Development Economics	15
Dr. Tsering Yangzom	Ph.D.	Assistant Professor	Microeconomics, Econometrics and Public Economics	12

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Bhushan Kumar	Ph.D.	02

#### Details of Research Projects

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Impact of Kashmir Conflicts on Refugees, Forced Migrants and Displaced Population: A Study of Demographic and Socio-Economic Consequences, Coping Mechanisms and Survival Strategies Adopted by Women, Children and Elderly	Indian Council of Social Science Research, New Delhi (ICSSR)	20.00	Ongoing
Geo Strategic importance of North Western Border of India	Indian Council of Social Science Research, New Delhi (ICSSR)	9.00	Ongoing

Name of the Project	Agency	Amount Sanctioned (In Lakhs ₹)	Status (Ongoing/ Completed)
Short term empirical project on the contribution of media towards social security and poverty alleviation- A study of Jan Dhan Yojana	ICSSR	12.00	Ongoing
Institutional - Economic Analysis of Water Governance, Conflicts and Cooperation in Indus Sub-Basin of Jammu and Kashmir	ICSSR	16.40	Completed
“The Himalayan Cryosphere: Science and Society” i. Analyzing the role of rural institutions in enabling adaptation to climate change in the agricultural sector in the north-west Himalaya ii. Impact of Artificial Glacier Technology on Mitigating Climate Change and Small Farmers’ Vulnerability in Cold Desert of Leh and Implications for Similar Regions of North-West Himalayan States	Ministry of Science & Technology, Department of Science & Technology, Government of India	448.07	Completed
Seasonal Migration and Human Development: A Study of Bakarwals in Jammu and Kashmir	Ministry of Tribal Affairs	8.00	Completed
Development of Course Materials for Master Degree in Population Studies under e-PG Pathshala	UGC	42.00	Completed

#### Publications:

Name of the Author	Title of Paper/s
Prof. Falendra K. Sudan	<ul style="list-style-type: none"> <li>• Social and economic consequences of violent armed conflicts: Evidence from displaced camps in Jammu and Kashmir, India.</li> <li>• Does Manufacturing Value added can Increase Output in South Asia? A Panel Data Analysis.</li> <li>• Comparing regional integration for sustainable development in ASEAN and CAREC economics.</li> <li>• Leveraging Youth Employment through Human Resource Practices and Vocational Education in Asia.</li> <li>• Assessment of Household Practices of Solid Waste Management in Jammu City, India.</li> <li>• Indo-Pacific Strategy and India’s Opportunities and Challenges for Regional Economic Cooperation and Integration: An Exploratory Review.</li> <li>• Climate Change and Fuel Wood Energy Use in Cold Desert of</li> </ul>

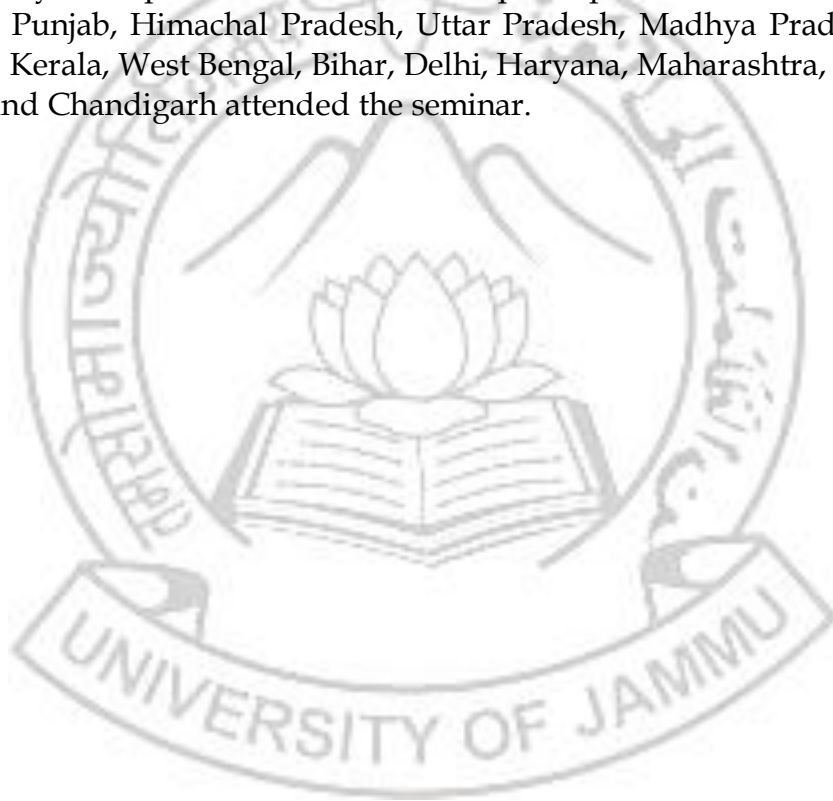
Name of the Author	Title of Paper/s
	<p>Drass in the Himalaya, India.</p> <ul style="list-style-type: none"> <li>• A Pragmatic Approach to Study Vulnerability Using Livelihood Vulnerability Index: A Case Study from Cold Desert of Nubra Valley, Ladakh (Himalaya).</li> </ul>
Prof. Virender Koundal	<ul style="list-style-type: none"> <li>• Performance of Indian Banks in Indian Banking System.</li> <li>• Swatantrata Sangram Mein Jammu-Kashmir Ka Yogdan</li> </ul>
Prof. Prakash C Antahal	<ul style="list-style-type: none"> <li>• Perception of Users Regarding the Water Delivery for Domestic Purposes in Jammu City: A Human Rights Based Approach.</li> <li>• Gender Inequality and Trend Analysis of Wages in the Selected Agricultural Occupations: A Study of Indian Agricultural Workers.</li> <li>• Impact of Climate Change and Nomadic Herders'™ Livelihoods: Evidence from Nomadic Community in the Western Himalayas in India.</li> <li>• Physical Infrastructure and Economic Development in the Erstwhile State of Jammu and Kashmir.</li> </ul>
Dr. Shallu Sehgal	<ul style="list-style-type: none"> <li>• Analysis of Marketing Channels and Marketing Efficiency of Apple Growers in Kashmir (J&amp;K), India.</li> <li>• Analysis of the effects of child malnutrition on school outcomes, cognitive development and gross domestic product (GDP): A systematic Review.</li> <li>• Analysis of the Targets and Progress towards meeting the 2030 Agenda for SDG 7 on Affordable clean Energy: Evidence from India.</li> <li>• Measuring and benchmarking the efficiency of the Indian automobile sector.</li> </ul>
Prof. Aroon Sharma	<ul style="list-style-type: none"> <li>• Trade Openness and Economic Growth Nexus: Evidence from India.</li> <li>• An analysis of India's comparative advantage in merchandise trade with Australia.</li> </ul>
Dr. Tsering Yangzom	<ul style="list-style-type: none"> <li>• Decision Making Ability Differentials among Public and Private Sector Working Women: A Case Study of Ladakh-UT, India.</li> <li>• Determinants of the Paid and Unpaid Workforce in the Self-employment: A Gender's Perspective Empirical Analysis from Leh District, Ladakh.</li> <li>• Employment and Unemployment Challenges during the COVID-19: An Evidence from the Tourism Sector (Ladakh).</li> <li>• Financial and Non-Financial Decisions Making Amongst Tribal Working Women: A Comparative Study.</li> <li>• Gender Inequality and Labour-Force: An Empirical Analysis from the Paid and Unpaid Services in Self-employment in Leh-Ladakh.</li> <li>• Trade-off between Poverty and Unemployment: An Empirical Evidence from the UT -Jammu and Kashmir, India.</li> <li>• Financial and Non-Financial Decisions Making Amongst Tribal</li> </ul>

Name of the Author	Title of Paper/s
	<p>Working Women: A Comparative Study.</p> <ul style="list-style-type: none"> <li>• Entrepreneurship: Panacea for Poverty and Unemployment.</li> <li>• How Social - Cultural and Economic attributes Influence labour force participation amongst females A case of the union territory of Ladakh.</li> </ul>
Prof. Jasbir Singh	<ul style="list-style-type: none"> <li>• Borders of Exclusion: A Study of Tribal Community at Jeora Village.</li> <li>• Pandit Deendayal Upadhyaya Aur Unka Ekatam Manvtavaad: Ek Dhrishtikon.</li> <li>• An Econometric Approach to Design a Multidimensional Poverty Measure for Rural Himalayan Areas.</li> <li>• Migration, Development and Cultural Influences: A Study of Kashmir Migrants in Local Dispora.</li> </ul>
Prof. Sunita Devi	<ul style="list-style-type: none"> <li>• Evolution of Cricket in India with special reference to the Indian Premier League (IPL).</li> <li>• Status of Agriculture in erstwhile Jammu and Kashmir in comparison to India with Speical Reference to Jammu Division.</li> </ul>
Prof. Dipankar Sengupta	<ul style="list-style-type: none"> <li>• Economic Freedom Index in Major States of India: A Principal Component Approach.</li> </ul>

#### Activities/Events organized:

- Department of Economics in collaboration with the Indian Social Science Academy organized two-day international seminar on 'Environment, Energy, and Health: Emerging Challenges and Policies'. Prof. Sharanjit Singh Dhillon, former Professor at Punjab School of Economics, Guru Nanak Dev University, Amritsar was the Keynote Speaker. Various Research Papers on topics such as Fossil Fuel; Renewable Energy; Environmental Sustainability; Expenditure on Consumption of Power and State Finances in Jammu & Kashmir; Health and Environmental Conditions of Primitive Tribes in Jharkhand; Deforestation and Fuel wood Harvesting; Domestic Fuel Consumption in Punjab; Tourism and Environment of Katra; Climate Change, Energy Insecurity and Consequences; Solid Waste Management in Jammu City; Health Status of Working Women in Jammu District; Climate Change and Sustainable Rural Livelihoods; Climate Change and Hydro Power Generation in Himalayan Region; Health Status and Tuberculosis in Kathua District; Technical Efficiency of Primary Health Centres in India, and CSR & Environmental Justice; Climate Change and its Impact on Horticulture and Agriculture Crops in Cold Desert Area of Nubra Valley of Ladakh; Deforestation and Fuel wood Harvesting etc. were also presented during the seminar. More than 100 participants across the states and union territories of India such as Punjab, Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Tamil Nadu, Rajasthan, Kerala, West Bengal, Bihar, Delhi, Haryana, Maharashtra, Odisha, Jammu & Kashmir, and Chandigarh participated in the seminar.

- Two-day Seminar on 'India's Pathways to Next Economic Powerhouse by 2047' sponsored by the Indian Council of Social Science Research (ICSSR), New Delhi. Prof. Raj Kumar Mahajan, Former Professor, Punjabi University, Patiala, Regional Centre Bathinda, Punjab, was the Chief Guest. Prof. (Dr.) Charan Singh, Chief Executive, EGROW Foundation; Non-Executive Chairman, Punjab & Sind Bank; Former Professor, Indian Institute of Management (IIM) Bangalore; Former Director, Department of Economic Policy, Reserve Bank of India (RBI) and Former Senior Economist, International Monetary Fund (IMF); Prof. (Dr.) Aparna Negi, Professor, Department of Economics, H. P. University, Shimla, Himachal Pradesh; Prof. Vikram Chadha, Former Professor, Punjab School of Economics, GND University, Amritsar, Punjab; Prof. (Dr.) Balwinder Singh Tiwana, Former Professor, Punjabi University, Patiala, Prof. Kuldip Kaur, Chairperson, Ambedkar Chair, and Former Professor, Punjab School of Economics, GND University, Amritsar, Punjab and Prof. I. C. Awasthi, Former Professor, Institute for Human Development, New Delhi were the Keynote Speakers. More than 200 participants across the country from the states like Punjab, Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Tamil Nadu, Rajasthan, Kerala, West Bengal, Bihar, Delhi, Haryana, Maharashtra, Odisha, Jammu & Kashmir and Chandigarh attended the seminar.





## DEPARTMENT OF HISTORY

The Department established in 1963 is engaged in teaching and research having three different streams of Ancient, Medieval and Modern which are being pursued alongside papers on World History and Historiography. At the research level the thrust area is Regional History, Social and Economic History.

### Programmes offered by the Department

- M.A.
- Ph.D.

### Interdisciplinary Programmes offered and details of departments/disciplines involved

- PSHISTC311-Nationalism and National Movement in India- 4 CREDITS
- PSHISTC411-History and Culture of Jammu and Kashmir.

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Nil

### Thrust Areas of Teaching and Research

- Ancient Indian History
- Medieval Indian History
- Modern Indian History

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Suman Jamwal	Ph.D.	Professor & HoD	Ancient/Early Medieval Indian History	28
Dr. Shyam Narayan Lal	Ph.D.	Professor	Ancient/Early Medieval Indian History	
Dr. Madhulika Singh	Ph.D.	Sr. Assistant Professor	Modern Indian History	12
Dr. Tirtharaj Bhoi	Ph.D.	Sr. Assistant Professor	Ancient Indian History and Archaeology	12

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Versha Gupta	Ph.D.	15
Dr. Anu Mankotia	Ph.D.	08
Dr. Anju Bala	Ph.D.	04

**Details of Research Projects:** Nil

**Collaborations:**

- Maharaja Gulab Singh Research Centre, Jammu.
- NIIT, New Delhi.
- Indian Council of Historical Research.

**Publications:**

Name of the Author	Title of Paper/s
Dr. Tirtharaj Bhoi	<ul style="list-style-type: none"> <li>• Megalithic Tribal Culture in Kistwar District of Jammu Region; A Preliminary Investigation.</li> <li>• Preliminary Report on Art and Architecture of Bowlis in Care List Bholderwah, Jammu and Kashmir Union Territory.</li> </ul>
Dr. Madhulika Singh	<ul style="list-style-type: none"> <li>• Multiple Framework to study Gandhi: A Conceptual Foundation.</li> <li>• Exploring Oral History Forms and Meaning in Kashmir.</li> <li>• Sacrificial Patriotism of the Unsung Heroes of Jammu in the Indian National Army.</li> </ul>
Dr. Shyam Narayan Lal	<ul style="list-style-type: none"> <li>• The State, Village Communities, and the Agrarian Order in Early Medieval Western Deccan, in the Economic History of India.</li> </ul>
Dr. Suman Jamwal	<ul style="list-style-type: none"> <li>• Imaging the Persona of Maharaja Gulab Singh through the Contemporary Narratives of the West, in 2022.</li> <li>• Avdharanatak Rupantran: Kashmir Sambandhi Europiye Vimarsho Me Stree Nirmityon Ka Sanket-Vigyaani Vishleshan.</li> </ul>
	<ul style="list-style-type: none"> <li>•</li> </ul>

**Activities/Events organized:**

- Department of History and DRISHTI-Stree Adhyayan Prabodhan Kendra Pune released two books, 'Status of Women in Border Areas in India with Special Reference to Jammu and Kashmir' and 'Status of Women Prisoners in Jammu and Kashmir'.

## **DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE**

The Department of Library Science was set up in 1971 at the Old University Campus and a Certificate course in Library Science was started. The Department shifted to the new campus, in the newly constructed University library building in the year 1980. The certificate course continued from session 1971-72 to 1983-84. Beginning with the session 1983-84, the Library Sc. programme was introduced by the University. From the session 1985-86, the Department also started the M.Lib Sc and Ph.D Programmes in Library Science. Since then, the Department of Library Science is functioning as Post Graduate Department of Library Science, under the Faculty of Social Sciences. In 1998, the Department shifted to a separate newly constructed wing on the ground floor of the Central Library of the University of Jammu. The department is recognized as Programme Study center of Indira Gandhi National Open University, New Delhi since March 31<sup>st</sup>, 1995 for its BLIS and MLIS programmes. In January 1999, The Department was also recognized as Study Centre of the National Open School, New Delhi for its CLS programme.

In 2008 the name of the Department was changed from P.G. Department of Library Science to P.G. Department of Library and Information Science. Information has become an integral part of all aspects in modern-day life and in the knowledge society. Acquiring the necessary skills for the effective utilization of information and information sources is imperative for every knowledge worker – from the highest level of governmental decision-making to the lowest decision-making individual entrepreneur. The faculty of the Department of Library and Information Science educates men and women at the master's bachelor's and doctoral levels to become leaders in libraries, archives and information/knowledge centers; conducts research to advance the information sciences; and performs public service to support the information professions and the public good. The M. Lib Sc. degree program provides graduates with a foundation of professional knowledge and skills as well as opportunities for specialized study in Agricultural Information System and Information Technology Applications to Libraries. Furthermore, the Internet, and World-Wide Web in particular, is changing the way people communicate with one another, do business, exchanges ideas, study and transmit information. We all know that the right information at the right time is essential for good decision-making. A working knowledge of the Internet and its applications, as well as the know-how of information management, therefore is an essential skill needed in the modern corporate world.

The Department of Library and Information Science at University of Jammu has responded to the challenges of these changes. We acknowledge the possibilities that exist in the new electronic information environment for a person to develop into an entrepreneur who can process and add value to information for market needs, who can use information technology to achieve a competitive edge, and who can utilize information to improve productivity, create new marketing opportunities and identify challenged to develop new information products.

Students after graduation in library and information science have a wide choice of options to choose and can plan their career according to their aptitudes. As a Librarian, student after qualifying in their professional degrees will find openings in University, College and School libraries, Museums, and Cultural Institutions, government Institutions and Information Centres besides Companies and Business houses with large information handling requirements.

With the emerging knowledge society and information technology playing the key role in information management, there are immense opportunities and considerable scope to diversity into high tech areas such as database generation and management development of digital library resources, the

internet resources organization and assistance, developing virtual libraries, system analysis, electronic publishing, corporate and even freelance consultancy and marketing of information products and resources.

**Programmes offered by the Department**

- B.Lib.I.Sc
- M.Lib.I.Sc
- Ph.D.

**Interdisciplinary Programmes offered and details of departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Nil

**Thrust Areas of Teaching and Research**

- IT Applications in Libraries
- Health Science Information System
- Agriculture Information System
- Library Human Resource Development
- Human Resource Management
- Public Library System

**Faculty Profile**

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Sangita Gupta	Ph.D.	Professor & HOD	Public Library System, IT Application in Libraries, Green Libraries, Library Cataloguing	34
Dr. Meghna Dhar	Ph.D.	Assistant Professor	Human Resource Management, Library Management, Academic Library System, Knowledge Organization: Classification & Cataloguing (Theory & Practice), Research & Technical Library System, Reference Service, Preservation & Conservation of Library	13
Dr. Pramod Kumar Singh	Ph.D.	Assistant Professor	Reference and Information Services, Library Operations, Bibliographic Database and Information Retrieval, Library Classification and	13

			Cataloguing, Library Metrics	
Mr. Ashwin K Kushwaha	M.L.I.Sc.	Assistant Professor	Digital Humanities, Optical Character Recognition (OCR), Library Management, ICT Applications in Libraries	03

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Reenu Arti Thakur	Ph.D.	05

#### Awards/Fellowships to faculty:

- Prof. Sangita Gupta, HoD, Library and Information Science, University of Jammu is awarded the Indian Association of Teachers of Library and Information Science (IATLIS) Mrs. Ratna Laxman Rao Best LIS Woman Teacher Award" at M S University Udaipur for her academic contribution as a teacher in Library and Information Science.

#### Publications:

Name of the Author	Publication/s
Prof. Sangita Gupta	<ul style="list-style-type: none"> <li>• Smartphone Applications as Sources of Information on Covid19: An Analysis in Indian Perspectives.</li> <li>• Tracking the Research Trends in the Library and Information Science: A Case Study of India.</li> <li>• Exploring Factors Affecting Media Information Literacy: A Mediation Analysis.</li> <li>• Libraries in the era Internet of Things (IoT): a critical analysis of university of Jammu.</li> <li>• An application of Bradfords Law of Scattering for the identification of significant-journals of institutional repository Literature.</li> <li>• Status of Library automation in government colleges of Jammu Division: A survey.</li> <li>• Research Visualization of the Emerging Trends in Institutional Repository: A Bibliometric Study.</li> <li>• Atmospheric Microplastics: Perspectives on Origin, Abundances, Ecological and Health Risks.</li> </ul>
Dr. Pramod K. Singh	<ul style="list-style-type: none"> <li>• Visualizing the Lost Script of South Asia under the Umbrella of the Digital Humanities Tool-VisualEye.</li> <li>• Assessing selected book-tube videos to extract "fit for video" features.</li> <li>• Research output on migraine in Asian countries: A scientometric study.</li> <li>• Indian Library Professionals toward ingress of blockchain in</li> </ul>

Name of the Author	Publication/s
	<p>libraries: Perception based analysis.</p> <ul style="list-style-type: none"> <li>• Best Practices and Services in National Libray, Singapur and National Library of India: Comaparative Study.</li> <li>• Assessing selected book-tube videos to extract “fit for video” features.</li> <li>• An Appraisal of Public Library System in Jammu and Kashmir Public Library System in India.</li> <li>• Towards advancing creativity in libraries using natural language processing for data curation: A bibliometric analysis.</li> <li>• Current Trends in the Library System: Academic integrity and plagiarism.</li> <li>• D.Phil. thesis contributed towards the Shodhganga repositories: A study of the Universities in Jammu and Kashmir.</li> </ul>
Mr. Ashwin K Kushwaha	<ul style="list-style-type: none"> <li>• Visualizing the Lost Script of South Asia under the Umbrella of the Digital Humanities Tool-VisualEye.</li> </ul>
Dr. Meghna Dhar	<ul style="list-style-type: none"> <li>• Collection and Services in Selected Engineering College Libraries of Jammu Division: A Users Study.</li> <li>• Utilization of ICT Library Services in the Field of Life Sciences in the Selected University Libraries of UT of Jammu and Kashmir.</li> <li>• Role of Libraries in e-Learning with Special Reference to NDLI e-Learning Experiences: Apps &amp;Tools.</li> <li>• Bibliometric analysis of studies on library security issues in academic institutions.</li> <li>• A Comparative Study of User Satisfaction of Government High School Kawa Library and Bhartiya College of Education Library in Udhampur District of Union Territory of Jammu and Kashmir.</li> <li>• Impact of Information Communication Technologies on Library Resources and Services in the Unversity Libraries of Jammu and Kashmir: A Study.</li> <li>• Student Perception towards Information Retrieval via 43 Smartphone: A Study of University of Jammu.</li> </ul>

**Activities/Events organized:**

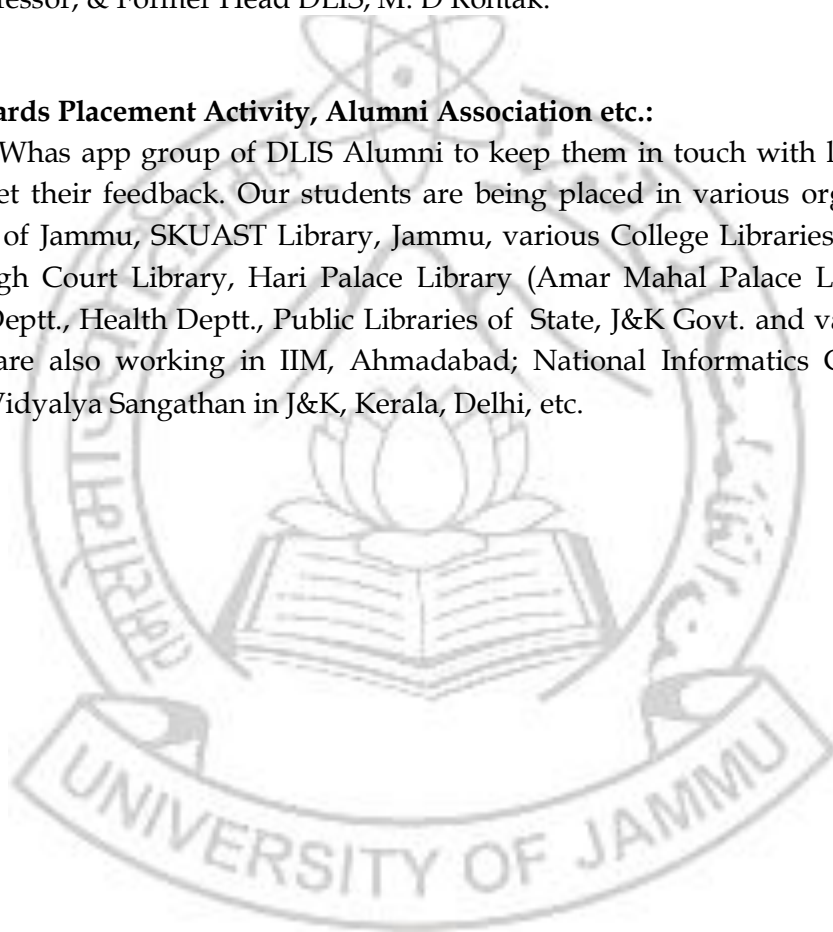
- Lecture on “Intellectual Property Rights: Issues and Concerns” under Ranganathan Lecture Series in Hybrid mode. Professor Jagtar Singh, Head of DLIS and University Librarian, Guru Kashi University, Talwandi Sabo, District Bathinda, Punjab was the resource person who delivered the talk through an online platform.
- 3<sup>rd</sup> lecture on “Emerging Trends & Technologies in Library & Information Services” under Ranganathan Lecture Series. Dr. Nabi Hassan, Librarian & Head, Central Library, Indian Institute of Technology, Delhi was the Keynote Speaker.
- An extension lecture on “Academic Integrity and Plagiarism” with special focus on Plagiarism for all the M.Lib.I.Sc students, research scholars and faculty members. Professor Satish

Malik, Librarian and Former Head of DLIS, M. D. U Rohtak was the Resource Person. The programme proved informative and insightful for all the participants and received a lot of appreciation from the faculty members and the scholars for the successful lecture completion.

- Celebrated World Book and Copyright day to develop the love for reading among the young minds. Prof. Sangita Gupta, Head, Department of Library and Information Science, University of Jammu was the Resource Person. She addressed the audience and inspired them to become readers and creative thinkers. She also highlighted the importance of this day from the perspectives of the librarians. Around 50 Alumni/ Assistant Professors, Faculty members and Scholars from University of Jammu attended this event.
- Department of Library and Information Science, University of Jammu under Ranganathan Lecture Series organized 4<sup>th</sup> lecture on “Librarianship as a Discipline” by Dr. Nirmal Kumar Swain, Professor, & Former Head DLIS, M. D Rohtak.

**Contribution towards Placement Activity, Alumni Association etc.:**

- Mangaing Whas app group of DLIS Alumni to keep them in touch with latest developments and also get their feedback. Our students are being placed in various organizations such as University of Jammu, SKUAST Library, Jammu, various College Libraries across the region, Jammu High Court Library, Hari Palace Library (Amar Mahal Palace Library), Tourism & Cultural Deptt., Health Deptt., Public Libraries of State, J&K Govt. and various Govt. Deptt., etc. They are also working in IIM, Ahmadabad; National Informatics Centre, New Delhi, Kendriya Vidyalaya Sangathan in J&K, Kerala, Delhi, etc.



## DEPARTMENT OF LIFELONG LEARNING

Department of Lifelong Learning was earlier known as Centre for Adult, Continuing Education and Extension, was established in year 1977. The Department focuses upon institutional and field level programme with an objective to create a variety of learning and training opportunities besides promoting skills enhancement for various group of learner.

The importance of Lifelong Learning/Education has been repeatedly stressed upon numerous discourses in India.

Department of Lifelong Learning, University of Jammu revamped its existing MARD programme to Masters in Rural Development Management (MRDM) on the pattern of NIRD, Hyderabad and IRMA, Gujarat. The programme is heavily based on the field and comprehensively reflects the spirit of the NEP -2020.

The main objective of Masters in Rural Development Management is to train students to become specialists in integrated rural development, and focus on socio-economic and institutional aspects. The aim of this programme is to build capacities to strengthen development and rural development work through a strong cadre of young professionals who will have a comprehensive grip on theoretical understanding, along with analytical skills and experiential learning over the two years of the academic programme.

### Programmes offered by the Department

- M. A. Rural Development Management

**Interdisciplinary Programmes offered and details of Departments/disciplines involved:** Nil

**Recognition/Accreditation of the programmes offered by the Department (other than University):**  
Nil

### Thrust Areas of Teaching and Research

- M.A. Rural Development
- Research: Tribal Studies
- Gender, Conflict, Border Studies, Mental Health Studies, Organizational Behaviour Studies, Human Resource Management, Rural Marketing, Women and Adolescent Health, Rural Management
- Rural Entrepreneurship
- Rural Industrialization
- Rural Credits
- Rural Sociology
- Rural Health
- Social Injustice
- Extension Education
- Community Development



## Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Kavita Suri	Ph.D	Director	Gender, Tribal Studies	16
Dr. Priyanka Sharma	Ph.D	Assistant Professor	Organizational Behaviour	21
Dr. Vivek Sharma	Ph.D	Sr. Assistant Professor	Rural Marketing and Tourism	14
Dr. Pallavi Sachdeva	Ph.D	Assistant Professor	Clinical Psychology	15
Dr. Bharti Prabhakar	Ph.D	Assistant Professor	Single Women Adjustment Problems and Cooping Mechanism	
Dr. Sandeep Singh	Ph.D	Assistant Professor	Border Studies, Rural Development, State Politics.	15

## Collaborations/MoUs:

- Indian Adult Education Association
- Jammu Kashmir Dairy Procedures, Processors & Marketing Coopertives Union Ltd., CBBO
- Jammu Paraytan Vikas Cooperative Limited.
- The Shakti Maa Agriculture and Skill Development Cooperative Limited.
- Buddha Art & Painting Studio.

## Publications:

Name of the Author	Publication/s
Dr. Kavita Suri	<ul style="list-style-type: none"> <li>• Challenging issues of tribal education in India: a case study of Buddhist tribe in Kishtwar district of Jammu and Kashmir.</li> <li>• Socio-economic status of tribal Gaddi tribe women: A study of Udhampur District of Jammu and Kashmir.</li> <li>• Health status of tribal women: A study of nomadic Bakkarwal women of twin border districts of Poonch and Rajouri.</li> <li>• Women, conflict and resistance: Exploring women's political activism in Jammu and Kashmir.</li> <li>• Status of tribal women in India: Educational perspectives from Jammu and Kashmir.</li> <li>• Nomadic life as cultural heritage: A case study of Gujjars and Bakkarwals of Jammu and Kashmir.</li> <li>• Skillful futures: Examining challenges and prospects of vocational education in Jammu and Kashmir.</li> <li>• Bridging the gap: understanding the digital gender divide in Jammu and Kashmir union territory.</li> </ul>

Name of the Author	Publication/s
	<ul style="list-style-type: none"> <li>• Empowering Women through Literacy: A Pathway to Achieving Sustainable Development Goals in Jammu and Kashmir.</li> <li>• Landmines and livelihoods: A study of Khour border area in Jammu province of Jammu and Kashmir.</li> <li>• Ramayana: The story of Rama in Indian Pahari miniature paintings.</li> <li>• A study of knowledge and practices regarding menstruation among the females of Nowshera block of Rajouri district in Jammu and Kashmir.</li> <li>• The forgotten heritage-calico printing of Samba.</li> <li>• Role of women in agriculture: A case study of Ranbir Singh Pura in Jammu district.</li> </ul>
Dr. Palavi Sachdeva	<ul style="list-style-type: none"> <li>• A study of cyber bullying, cyber victimization and dipression among rural and urban college students.</li> <li>• Role of self-esteem in predicting depression among college students: a comparative study.</li> <li>• Role of self-esteem in predicting depression among college students: a comparative study.</li> <li>• A study of relationship between social media addiction and sleep quality among undergraduate students of Jammu district.</li> </ul>
Dr. Priyanka Sharma	<ul style="list-style-type: none"> <li>• Impact of positive psychology capital on the work-life balance of bank employees.</li> <li>• Comparitive study of quality of life and mental health of tribal and non tribal college students of Jammu district.</li> <li>• Mental health of tribal and non tribal college students of Jammu district.</li> <li>• Mental health of tribal and non tribal college students of Jammu district.</li> <li>• Religion, Terriorism and Inter Community Relation: An Analysis of Jammu and Kashmir.</li> <li>• Work-life balance as a determinant of well being in the banking sector.</li> <li>• Human Sufferings along the frontier of Jammu and Kashmir: An Empirical Study of Vulnerability in Poonch District.</li> </ul>
Dr. Vivek Sharma	<ul style="list-style-type: none"> <li>• Resilience and Recovery Strategies to Tackle COVID-19 Pandemic and alike Crisis: A Systematic Review and Critical Examination of the Tourism and Hospitality Industry.</li> <li>• Covid-19 - a boon or bane for Indian telecommunication industry.</li> <li>• Women enterpreneurs, family emotional support and work family conflict: new insights into contemporary entrepreneurship.</li> <li>• Unlocking the power of NFTS: understanding the technology, market and legal implications of unique digital assets.</li> <li>• Resilience and recovery strategies to tackle covid-19 pandemic and alike examination of the tourism and hospitality industry.</li> </ul>

Name of the Author	Publication/s
	<ul style="list-style-type: none"> <li>• Job stress among working women- a study of call centre employees.</li> <li>• Leadership behaviour across service sector employees: an empirical study.</li> <li>• Assessing the role of information and communication technology in hospitality and tourism.</li> </ul>

### Activities/Events organized:

- One-day workshop on “Gender Sensitization” for the students of the MARD programme of the Department. Dr. Kavita Suri, Director, Department of Lifelong Learning and Dr. Savita Nayyar, Associate Professor, Department of Law, were the key resource persons.
- Employment Information Cum Advisory Bureau (EIAB), Department of Lifelong Learning (DLL) in collaboration with Government Degree College, Samba organised a career counselling programme in “Careers in Performing Arts” and “Self Employment as a Career”. Dr. Harleen Kour, Sr. Assistant Professor, Department of Commerce, University of Jammu; Mr. Sumit Sharma, Drama Instructor, Department of Student’s welfare, University of Jammu and Dr. Rewa Khajuria, Counsellor, EIAB, DLL were the Resource Persons.
- Employment Information Cum Advisory Bureau (EIAB), Department of Lifelong Learning (DLL) in collaboration with APS, Ratnuchak organized a career counseling programme in “Career options in Sciences and Commerce after 10+2” for the students of the school. Dr. Sarabjeet Kour, Assistant Professor, Department of Zoology, JU, Dr. Harleen Kour, Assistant Professor, Department of Commerce, JU and Dr. Rewa Khajuria, Counsellor, EIAB, DLL were the Resource Persons.
- Employment Information cum Advisory Bureau, Department of Lifelong Learning, University of Jammu started three day workshop series on “Digital Literacy”. In this regard, 02 workshops were organized in collaboration with:
  - Government Degree College, R.S. Pura, Jammu. 35 students have participated in the workshop. Mr. Surjeet Kumar, Department of Life Long Learning was the Resource Person.
  - Government Degree College, Purmandal. 25 students have participated in the workshop. Mr. Sanjay Manhas, Department of Computer Science & IT was the Resource Person.
- Department of Life Long Learning, University of Jammu organized one-week workshop on “Basics of Research Methodologies”. Prof. Rajni Kant, Dean Research Studies & Dean, Faculty of Sciences, University of Jammu was the Keynote Speaker. Prof. Rishiraj Sharma, President - Business Research Plasma and Associate Dean- Gurudaspur Campus-GNDU was the Guest of Honour. The workshop was attended by teachers, scholars and students from various universities and colleges like Mumbai University; University of Jammu; SMVDU-Katra; Central University of Jammu; Government College for Women Parade; Government College of Education, Canal Road Jammu, MAM College-Jammu.

- Department of Lifelong Learning, University of Jammu in collaboration with Government Degree College, Marh and Government Polytechnic College for Women, Jammu organized a three-day workshop on beautician skills at M Cube Centre, Mishriwala, Jammu. Prof. Rakesh Kumar Koul, Principal, GDC Marh elaborated on the importance of skill development programmes and also appreciated the efforts of DLL for providing this opportunity to the students of his college.
- Department of Lifelong Learning, University of Jammu organized one-day interaction on “Constitutional & Legal Provisions for Women in India” with the students of the Master in Rural Studies (MRS). Dr. Bindu Sangra, Assistant Professor, The Law School, University of Jammu was the Keynote Speaker.
- One day-long field trip on “Agricultural Marketing” for the students of MA in Rural Development. The field trip assumes greater significance against the backdrop of the launch of the project named Holistic Agriculture Development Program (HADP) by the government of Jammu & Kashmir in April this year that aims to strengthen the existing market infrastructure and create a robust market ecosystem that caters to the needs of all the stakeholders. It is pertinent to mention that University of Jammu has, from time to time been taking initiatives for strengthening the community-based university interventions.
- Employment Information Cum Advisory Bureau (EIAB), Department of Lifelong Learning (DLL) in collaboration with Department of Chemistry, PSPS Government College for Women, Gandhi Nagar, Jammu organized an awareness programme on Self Employment for the students of their college.
- An internship drive for students of the department by J&K Dairy Producers, Producers and Marketing Cooperatives Limited. The drive was conducted by Mr. Vikrant Dogra, Chairman, J&K Dairy Producers, Producers and Marketing Cooperatives and Ms. Neetu Dhar (Chief Co-ordinator, JKDCUL). JKDCUL is a CBBO (cluster-based organization) empanelled by NABARD for forming FPO’s (Farmer Producer Organizations) under CSS (Central Sector Scheme) since 2020. The organization provides handholding and professional support to develop economically sustainable FPOs while facilitating adequate market and credit linkages.
- Employment Information Cum Advisory Bureau, Department of Lifelong Learning (DLL), University of Jammu, in collaboration with Dogra College of Education, Bari Brahmana, organised a one-day workshop on "Importance of Career Counseling and Self-employment" for the students of the college. Dr. Harleen Kaur, Sr. Asst. Prof., Department of Commerce, and Dr. Rewa Khajuria, Counsellor, Employment Information and Advisory Bureau, Department of Lifelong Learning, University of Jammu were the Resource Persons.

**Healthy practice/practices of the Department, which Department wants to highlight:** The role and importance of Lifelong Learning, University of Jammu has increased in recent times due to initiative in the form of M.A. Rural Development Management. Masters degree in Rural Development Management is a degree program that focuses on identifying methods required to turn rural regions into agriculturally productive areas, and to improve health and nutrition of the rural communities in these rural areas

## DEPARTMENT OF POLITICAL SCIENCE

The Department of Political Science was established in 1968. Since then the Department has continuously and systematically working for the promotion of discipline of Political Science in Jammu Province through teaching, research and other academic activities. It has continuously revised and updated syllabi keeping in view the changing contours of the discipline and the emerging needs of society.

### Programmes offered by the Department:

- M.A.
- Ph.D.

### Interdisciplinary Programmes offered and details of departments/disciplines involved:

- Open choice course offered by the Department for the students of other departments of faculty of social science
- PSPOLTO306-Polity And Politics in India-4 Credits
- PSPOLTO407-India and the World -4 Credits

**Recognition/Accreditation of the programmes offered by the Departments (other than University):**  
Nil

**Year of validity of Recognition /Accreditation:** Nil

### Thrust areas of Research:

- J&K Politics, State Politics, Indian Politics and Politics in South Asia
- International Politics and India's Foreign Policy
- Indian Administration and J&K Administration

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in years
Prof. Baljit Singh Mann	Ph.D.	Professor & HoD	International Politics, Comparative Politics, Politics in South Asia & India's Foreign Policy	29
Prof. Mohd. Tajuddin	Ph.D.	Professor	J&K Politics, Diplomacy, International Relations & Bangladesh	23
Dr. Ellora Puri	Ph.D.	Sr. Assistant Professor	Comparative Politics, State Politics in India, Political Violence, Gender & Politics	16
Dr. Harjit Singh	Ph.D.	Assistant Professor	Ethnicity, Comparative Politics & India's Foreign Policy	

**Healthy practice/practices of the department, which Department wants to highlight:**

- A good number of Placements in State and National Civil Services
- UGC-JRF fellowship and other fellowships
- A sizeable number of students qualified NET/SET
- Regular periodic Upgrading its syllabus and evaluation system
- Credible research on Indian Politics, Politics in South Asia, J&K Politics
- Training in survey research and report writing in M.A 4<sup>th</sup> semester



## DEPARTMENT OF PSYCHOLOGY

The Department of Psychology was established in December 2001 under the aegis of the Faculty of Behavioral Sciences, University of Jammu. The Department was set up as an interdisciplinary centre of higher learning and academic excellence. It has a distinction of being the first Post Graduate Department of Psychology in the state of Jammu and Kashmir and is currently working under the faculty of Social Sciences. The Department offers optional courses in the frontline areas of research namely Organizational Behavior and Clinical Psychology at post graduate level. It also offers Ph.D program in Psychology. The teaching methodologies of the Department are innovative and unique. The Department provides quality teaching, practical experience and a unique opportunity to share and develop the vision, knowledge, initiative and critical thinking needed to meet professional challenges and community needs. The Department actively encourages the faculty members, to attend refresher courses, to participate in training programmes, workshops, conferences and seminars in their areas of interest. The scholars and students of the Department are also encouraged to participate in conferences, workshops, seminars, group discussion and various extension activities. Students qualifying NET/JRF/SET and other competitive/civil services examinations are placed in various organizations and institutions within and outside the state.

### **Programmes offered by the Department:**

- M.A.
- Ph.D.

### **Interdisciplinary Programmes offered and details of Departments/disciplines involved:**

Interdisciplinary programmes offered for other disciplines in 3<sup>rd</sup> Semester MBA, MBA-HT, Education, Chemistry, Sanskrit, Sociology, English, Rural Development and Hindi.

### **Recognition/Accreditation of the programmes offered by the Department (other than University):**

MA Psychology IGNOU, Certificate in guidance (CIG).

### **Thrust Areas of Teaching and Research:**

- Applied Psychology
- Organizational Psychology
- Health Psychology
- Clinical
- Positive Psychology
- Counselling Psychology
- Sports Psychology

### **Collaborations:**

- Cluster University of Jammu.
- Harbans Roshan Bhalla Educational Foundation.

### **Faculty Profile**

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Arti Bakshi	Ph.D	Professor & HoD		
Dr. Sarita Sood	Ph.D	Assistant Professor	Counselling Psychology, Health Psychology, Positive Psychology	09
Dr. Chander Shekhar	Ph.D.	Assistant Professor		

#### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Karuna Gupta	Ph.D.	05
Dr. Dharvinder Singh	Ph.D.	06

#### Publications:

Name of the Author	Publication
Dr. Sarita Sood	<ul style="list-style-type: none"> <li>• Job crafting and Sustainable Development: Applications among Higher education teachers.</li> <li>• Ineffective Parenting: Sowing the Seeds of Pampered Child Syndrome.</li> <li>• Validation of the Parenting Styles and Dimensions Questionnaire in Indian Sample.</li> <li>• Psychological capital and positive mental health of student-athletes: Psychometric properties of the sport psychological capital questionnaire.</li> <li>• Authenticity and Work Engagement in Teachers: A Multigroup analysis based on Gender.</li> <li>• Work Engagement Fosters Job Satisfaction in Higher Education Teachers: The Mediating Role of Job Crafting.</li> <li>• Nexus between entrepreneurial self - efficacy, entrepreneurial motivation, and entrepreneurial intention: a moderated mediation model.</li> <li>• Role of job crafting in burnout of college teachers in Jammu district.</li> <li>• Mediating role of COVID-19 burnout in the relationship between coronavirus stress and well-being of healthcare professionals.</li> </ul>
Prof. Arti Bakshi	<ul style="list-style-type: none"> <li>• Does Social Media use Impact Small Agribusiness Exploitation and Exploration Capability? Perspectives and Recommendations from the UT of J&amp;K.</li> <li>• Examining the Association of Gratitude with Psychological Well-Being of Emerging Adults: The Mediating Role of Spirituality.</li> <li>• Home environment and Selfesteem in the Adolescents: The</li> </ul>



Name of the Author	Publication
	Mediating Role of Emotional Regulation. <ul style="list-style-type: none"> <li>• A Comparative Study of Career Maturity among Adolescents.</li> </ul>

**Activities/Events organized:**

- A lecture cum interactive session on “Communication, Psychology and Literature”. Prof. Anupama Vohra, Faculty, Directorate of Distance Education, University of Jammu was the Resource Person. More than 30 Research Scholars and Students of the Department of Psychology attended the lecture.
- Department of Psychology in collaboration with Jammu and Kashmir AIDS Control Society, Department of Health and Medical Education, J&K organized a workshop on “Awareness cum training on HIV/AIDS & HIV Act 2017. Dr. Bhavna Langer, Associate Professor, Department of Community Medicine, GMC, Jammu and Ms. Sabiha Iqbal, Assistant Director (Mainstreaming) Jammu and Kashmir AIDS Control Society were the Resource Persons. About 100 Students and Research Scholars of the Department of Psychology and Department of Philosophy participated in the workshop.
- A lecture cum interactive session on “Military Psychology in India”. Dr. Nity Sharma, Scientist ‘E’ at Defense Institute of Psychological Research (DIPR), Defense Research and Developmental Organization (DRDO), Ministry of Defence, Delhi was the Resource Person. She elaborated on the roles, importance and contributions of psychologists in defense services. She further stressed upon the various career options in military services and the different recruitment processes in DIPR as well as in military services. She further motivated the students by telling about her own journey and her experiences and expressing her gratitude of being a psychologist in DRDO.



## **DEPARTMENT OF SOCIOLOGY**

The Department of Sociology was established in the year 1999 under the aegis of the Faculty of Behavioural Sciences, University of Jammu, Jammu which was later shifted to Faculty of Social Sciences. The Department offers Post Graduate Programme through semester system and has been running regular M.Phil and Ph.D. Programmes since the year 2002. The Department has introduced Choice Based Credit System since 2014-15 session. Many students of the Department have cleared NET/SLET/JRF and have been placed in various teaching departments as well as other government and research oriented non-government jobs. Some have been awarded higher degrees in the prestigious institutions in India and abroad. The Department of Sociology organizes study tours every year for M.A students for the partial fulfillment of their curricular requirement under two courses 'Methodology of Social Research' and 'Environment and Sustainable Development'.

M.A. Sociology is also being offered at Ramnagar and Reasi Campus of University of Jammu. However, choice based credit system is not applicable in these institutions. The Department has a well equipped library with internet facility for the M.A. Students with collection of 4050 Books. 292 National and International Journals are also subscribed by the Department. The Department also has a Computer Lab with internet facility for the M.A. Students.

### **Programmes offered by the Department**

- M.A.
- Ph.D.

### **Interdisciplinary Programmes offered and details of departments/disciplines involved**

Department Offers "PSSOTO307 - Understanding Society" as an open elective course in 4<sup>th</sup> semester and "PSSOTO306- Marginalized Communities in India" in 3<sup>rd</sup> semester for the students of other teaching departments of the University.

**Recognition/Accreditation of the programmes offered by the department (other than University):**  
Nil

### **Thrust Areas of Teaching and Research**

- Environment & Ecology
- Development Studies
- Subaltern & Dalit Studies
- Gender Studies
- Rural Society & Development
- Migration, Conflict & Peace
- Community and Identity studies
- Marginalized communities
- Identity, Conflict, and Peace studies
- Displacement, Governance, Health, Disability studies
- Tribal Studies, Family, Kinship and Marriage Studies
- Media Studies

### **Collaborations:**

- J&K State Pollution Control Board, Jammu.

- Jammu Municipal Corporation, J&K.
- Anugraha, a national NGO working on Regional Resource and Training Centre on Ageing, Ministry of Social Justice & Empowerment, GoI.
- Rajiv Gandhi National Institute of Youth Development, Sriperumbudur and Regional Centre, Chandigarh.
- School Education Department, J&K.

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Prof. Abha Chauhan	Ph.D	Professor	Gender, Tribal Studies, Kinship, Culture & Community Studies	31
Prof. Vishav Raksha	Ph.D	Head & Professor	Gender and Subaltern studies, Community studies, Media & Folklore studies	23
Dr. Hema Gandotra	Ph.D	Associate Professor	Marginalized group studies, Community studies and Gender studies	20
Dr. Sapna Sharma	Ph.D	Assistant Professor	Crime, Law & Society, Conflict studies, Community Development	19
Dr. Kajal Kalsi	Ph.D.	Assistant Professor	Sociology of Forced Migration, Borderland studies, Sociology of Gender, Caste studies	19

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Gopal Sharma	Ph.D.	03
Dr. Diksha Nargotra	Ph.D.	03

### Details of Research Projects

Name of the Project	Agency	Amount Sanctioned	Status(Ongoing / Completed)
Social Audit of Centrally Sponsored Mid Day Meal Scheme (MDM)	Govt. of J&K Civil Secretariat School Education Department	₹ 7 Lakhs	Completed
Living on the Extreme Margin: The life of the Third Gender (Hijras) in Jammu Region	Centre for the Study of Social Exclusion and Inclusive Policy, UoJ		Completed

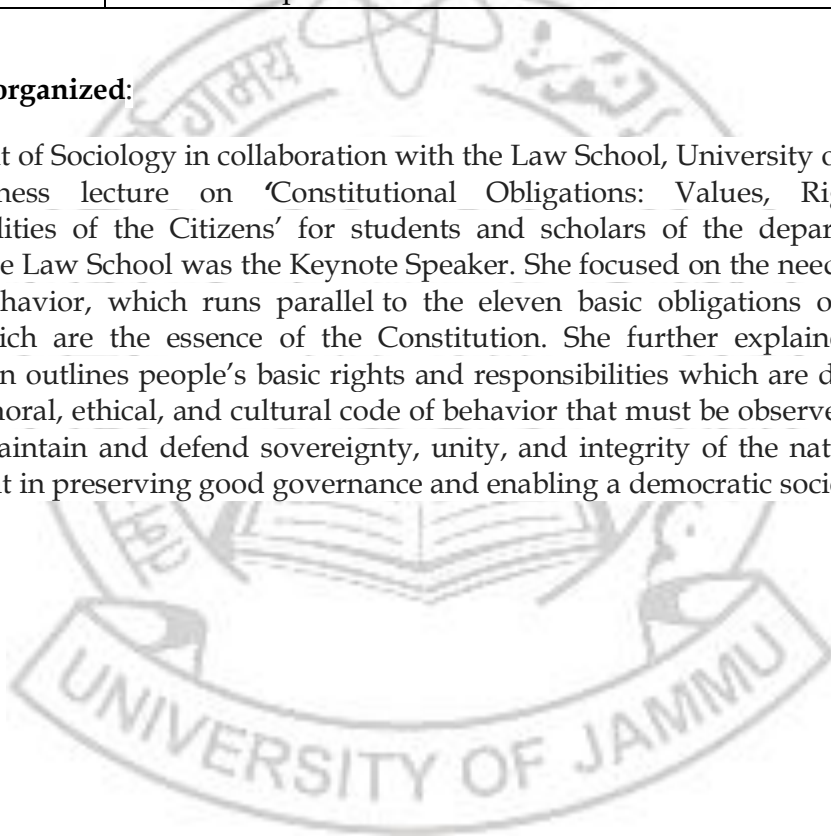
### Publications:

Name of the Author	Publication
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Name of the Author	Publication
Dr. Hema Gandotra	<ul style="list-style-type: none"> <li>• Women headed households and social stigma: A study in the Jammu District.</li> <li>• Mensurating women and Covid-19: Issues and Challenges.</li> <li>• Mensuration and Pandemic: Impact of Covid-19 on mensurating women of Slum areas in Jammu City.</li> <li>• Structure and Function of Home for the Aged and Infirm in Kathua.</li> <li>• Mensuration and Health: A Study in the Slum Area during Covid-19.</li> <li>• The Socially Excluded Third Gender: A Legal Perspective.</li> </ul>
Prof. Vishav Raksha	<ul style="list-style-type: none"> <li>• Inclusive Politics and Surfacing Women Leadership in Urban Local Governance.</li> <li>• Occupational Choices and Gender in Aviation.</li> </ul>

**Activities/Events organized:**

- Department of Sociology in collaboration with the Law School, University of Jammu organized an awareness lecture on ‘Constitutional Obligations: Values, Rights, Duties and Responsibilities of the Citizens’ for students and scholars of the department. Dr. Pallavi, Faculty, The Law School was the Keynote Speaker. She focused on the need to follow the ideal code of behavior, which runs parallel to the eleven basic obligations on the fundamental duties, which are the essence of the Constitution. She further explained that the Indian Constitution outlines people’s basic rights and responsibilities which are developed along the lines of a moral, ethical, and cultural code of behavior that must be observed by the citizens in order to maintain and defend sovereignty, unity, and integrity of the nation, which aids the government in preserving good governance and enabling a democratic society.



## DEPARTMENT OF STRATEGIC AND REGIONAL STUDIES

The Department of Strategic and Regional Studies (DSRS), earlier known as the Centre for Strategic and Regional Studies (CSRS) was conceptualized by then Chancellor of the university and Governor of Jammu and Kashmir General (Retd.) K.V. Krishna Rao in 1985. Subsequently, University Grants Commission appointed a special committee that submitted its report in 1987, recommending that in view of rapidly changing security environment, intensive efforts should be made to promote general awareness of strategic issues and national security in the country. It envisaged setting up a Centre for research on strategic, security and regional issues. Thus, predecessor of the Department of Strategic and Regional Studies (DSRS), Centre for Strategic and Regional Studies (CSRS), was established in the University of Jammu on 27<sup>th</sup> May 2002. It had been conceived to promote and undertake research on strategic issues, national security and geo-strategic developments in the areas contiguous to India in a substantive and inclusive manner. Beside this, since April 2004, the Centre has been offered M. Phil. and Ph. D. programme in strategic studies.

### Programmes offered by the Department

- M.A.
- Ph.D.

### Interdisciplinary Programmes offered and details of departments/disciplines involved:

Interdisciplinary Ph. D.

### Recognition/Accreditation of the programmes offered by the Department (other than University):

Nil

### Thrust Areas of Teaching and Research

- International and Area studies
- Transnational organized crime and nuclear weapon proliferation
- Ethnic politics and conflicts
- Conventional and non-conventional security threats
- Global and regional politics strategic issues
- Globalization and its impact on the regional security
- Asian Politics & the Rise of India & China

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years
Dr. Virender Koundal	Ph.D.	Director	Financial Institutions, Rural and Marginalized Economy	22
Dr. Mohammad Monir Alam	Ph.D	Assistant Professor	Central Asian Studies and Strategic Studies	21
Dr. Suneel Kumar	Ph.D	Assistant Professor	International Relations and South-Central Asian Studies	12
Dr. Surinder Mohan	PhD	Assistant Professor	International Relations and South Asian Studies	10

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Ganesh Malhotra	Ph.D.	09
Dr. Ranjan Sharma	Ph.D.	2.5

#### Detail of Publications:

Name of the Author	Publication
Dr. Surinder Mohan	<ul style="list-style-type: none"> <li>Complex Rivalry: The dynamics of India-Pakistan conflict.</li> <li>Shock and Reconciliation? The Case of India-Pakistan, 1962 &amp; 63.</li> <li>From securitization to security complex: climate change, water security and the India and China relations.</li> </ul>
Dr. Suneel Kumar	<ul style="list-style-type: none"> <li>Regional Organizations and States in International Relations: A Study of India's Approach towards Regional Organizations.</li> <li>The SCO and India.</li> </ul>
Dr. Mohammad Monir Alam	<ul style="list-style-type: none"> <li>India's Strategic Imperatives for Engaging Central Asian States</li> </ul>

#### Activities/Events organized:

- A Public Lecture on "South Asia in International Politics" by Prof. Mathew Joseph C, Jamia Millia Islamia University, New Delhi.
- Department of Strategic and Regional Studies (DSRS) participated in the "G20 - A Primer" programme under "University Connect Initiative" organized by the Research and Information System for Developing Countries (RIS) New Delhi with the Ministry of External Affairs (MEA) on the occasion of India's took over the year-long G20 presidency officially on 1st December 2022 which will continue till 30th November 2023. The key areas where India is going to focus during its presidency are: "Energy Transition: Shaping a Green World", "Promoting Eco-friendly Lifestyle", "Bridging the Divide: Digital Public Goods", "Climate Finance: Funding Green Growth", "Enhancing G20 Collaboration for Food Security", "Democratizing Global Financial Governance: Adapting to 21st Century Realities", and "Sustainable Development Goals (SDGs): Making World a Better Place to Live in".
- Department of Strategic and Regional Studies (DSRS) in collaboration with the Jammu Kashmir Study Centre (JKSC) organized one-day Seminar to commemorate "the Parliament Resolution on Jammu and Kashmir". Major General (Retd.) S.K. Sharma was the Chief Guest at the occasion.
- The Second G20 Public Lecture on "India's Policy towards Neighbourhood". Prof Sangeeta Thapliyal, Chairperson, Centre for Inner Asian Studies, JNU, New Delhi was the resource person. She emphasized on an important shift in India's policy towards neighbours when Prime Minister Narendra Modi invited all the state heads of South Asia in his swearing-in ceremony of 2014. Prof. Thapliyal stressed that South Asian countries have to cooperate with each other on the issue of economic development, non-traditional threats, and calamities.
- A talk on "Research and Publication Ethics in International Relations" by Prof. Rajesh Kumar, Dean Faculty of Social Sciences, Guru Nanak Dev University of Amritsar for the Scholars and Students of the department. Prof Rajesh Kumar introduced the concept of ethics and gave a

detailed account of ethics related to the conduct of research in International Relations and National Security Studies. The focus of his talk was on different types and methods to avoid conflict of interest and suggested to give due respect to copyright norms.

- Department of Strategic and Regional Studies (DSRS), University of Jammu organized the following talks for the research scholars and students of the department on:
  - a. “Research in Security Studies” by Prof. Umrao Singh from the Department of Defence and Strategic Studies, Punjabi University of Patiala. Prof Umrao Singh introduced the concept of security and gave a detailed account of security studies from different perspectives as well as shed light on Research Ethics in National Security Studies.
  - b. “India-China Relations: An Analysis” by Prof. Josukutty C.A., Department of Political Science, University of Kerala, Thiruvananthapuram. Prof. Josukutty first introduced the understanding of India-China relations from an ancient, medieval and modern historical perspective and provided a detailed account of the two neighbours' diplomatic and security equations from different perspectives as well as shed light on it from his field visits to China and Indian parts of North-East and Ladakh.
- A talk on “Prospects of Startups in Rising India”. The talk was delivered by Mr. Bneat Singh, alumni of the University of Jammu and the United Kingdom-based Financial Expert, to the Research Scholars and the students of the master's programme of the department. Mr. Bneat Singh began his talk first by introducing the concept of “Startup” and then explained in detail about the startup companies as new born companies formed on innovative and brilliant ideas. These companies’ focus is to provide innovative service with an intention of catering the needs of the society, market or nation. He also stressed on the major problem start-ups face while creating new innovative business ideas and finding business opportunities.
- A talk on “G-20 Meeting in Kashmir”. Dr. Ganesh Malhotra and Dr. Ranjan Sharma from the Department of Strategic and Regional Studies, University of Jammu were the Keynote Speakers. Dr. Ganesh Malhotra initiated the talk on India’s hosting of the G-20 meeting in Srinagar and its strategic importance particularly for Tourism Working Group (TWG) in Kashmir. Dr. Ranjan Sharma assumed the charge of presenting India’s position from India’s growing influence at the regional and multilateral forums. His talk emphasized more on the relevance of India’s presidential takeover of G20 and how India can use this platform to address relay its viewpoint on national, regional and global interests on the basis of Vasudhaiva Kutumbakam. The deliberations were followed by question-answer session.
- A Panel Discussion on “Current Political Crises in Pakistan”. The session was chaired by Prof. Mathew Joseph C, Academy of International Studies, Jamia Millia Islamia University, New Delhi. The panel for discussion comprised of experts on Pakistan affairs including Brig. (Retd.) Dr. Vijay Sagar Dheman, Managing Director, International Institute of J&K Studies; Mr. Pradeep Dutta, Bureau Chief J&K, Times Now and Dr. Mohd. Monir Alam, Assistant Professor, DSRS, University of Jammu. Prof. Mathew Joseph C, a seasoned academician, during moderation touched upon various aspects of Pakistan politics and presented a broader picture of the current political situation. The panel discussion was also followed by a question-answer session.

- A talk on “Imagining ‘regional’ in Climate Science: Challenges of Scientists in the Himalayas”. The talk was delivered by Dr. Suresh Babu G.S., Faculty in the School of Social Sciences, JNU, New Delhi, to the Research Scholars and students of the Master's Programme of the department. Dr. Suresh Babu also had a brain-storming session with the research scholars and faculty members wherein they discussed varied dimensions of climate change and puzzles that originate from the liberalization, globalization, modernization and other progressive domains of contemporary era. He also shed light on how and why the eight states surrounding the Himalayan region or sharing this region need to look into this issue related to the environment and climate change to make them viable and sustainable modern states in international politics.





## DEPARTMENT OF PHILOSOPHY

The Department of Philosophy was established in the year 2021 under the Faculty of Humanities and Social Sciences at the University of Jammu. This Department enhances the understanding of the students in our Indian traditions like Advaita Vedanta, Kashmir Shaivism, and Bhakti traditions. The Department offers a Master's program in Philosophy and it offers core courses such as Classical Indian Philosophy, Philosophy of Religion, Western Social and Political thought, Philosophy of Religion, Introductory Logic, Indian Social and Political Thought, Kashmir Shaivism, Indian and Western Ethics and many more.

In common parlance, Philosophy is the study of the fundamental nature of Reality, Knowledge, and Existence. This particular course includes a comprehensive study of Philosophy as a discipline at an advanced level. Precisely, it intends to inculcate a critical and systemic approach and its reliance on reasoned arguments to address general problems concerning matter, existence, knowledge, justice, duty, rule, truth validity etc. Besides, the course also encompasses the traditional and contemporary aspects of Indian Philosophy, Western Philosophy, Ethics, Kashmir Shaivism, and Logic. It aims to fathom new ideas and solutions to the problems related to Religion, Society, Environment, and Politics.

### Faculty Profile

Name	Qualification	Designation	Specialization	Experience in Years

### Contractual Faculty in the Department

Name of the Faculty	Qualification	Experience in Years
Dr. Panu Sharma	Ph.D.	
Ms. Ruby Bharti	M.A.	

**Detail of Publications:** Nil

**Detail of Research Projects:** Nil

### Activities/Events organized:

- Department of Philosophy, University of Jammu organized a lecture on the topic "The Self in Descartes, Hume and Kant: A Conceptual and Analytical Journey " by Prof Bijoy H. Boruah, Visiting Professor, Centre for Humanities and Social Sciences, IIT Jammu. Prof. Bijoy in his keynote address explored the three philosophical views on the self that are famously proposed by Rene Descartes, David Hume and Immanuel Kant by showcasing the chronology as well as their conceptual progress. He intentionally chose the above-mentioned thinkers who belonged to Rationalism, Empiricism and Critical Philosophy for the exploration of the notion of self which was guided by their distinctive individual assertions. The talk was attended by all the faculty members & students of department.

## COMPUTER CENTRE

Computer Centre, University of Jammu, is making consistent efforts to up-date the various facilities available in hardware, software and in technical field by organizing regular vocational courses for the students community/other staff of the Universities/Institutions. The various courses run by the Computer Centre helps the students and other community not only to update their knowledge in the field of IT Sector but also gives them an exposure to ensure their adoption in the reputed industries/institutions of the country. In addition the Centre has also undertaken other jobs as highlighted below. The Centre has developed several software programmes on the basis of requests from various organization/ institutions.

### **Academic activities/events/achievements:**

Following activities are carried out by Computer centre for above said period

- Approximately 1.5 lac student data has been handled by computer centre which includes regular, private students (Summer/winter Zone) and colleges under DDE.
- All data and printing related activities such as RR generation admit card, attendance sheet etc. are performed for all semesters (Approx. more than 5 lacs sheets have already been printed).
- Information to the students regarding important announcements is disseminated through SMS.
- Maintenance of database and backups regularly.
- Handling queries of colleges and examination staff.

### **Training Programmes organized:**

#### **Extended support services:**

- Staff of the Computer Centre is actively involved in verification of equipments purchased by different departments/sections of the University of Jammu.
- Director, Computer Centre provided assistance in teaching as a support services in teaching departments free of cost as per requirement.
- Computer Centre is extending its help in development and functioning of language digital lab at the General Zorawar Singh Auditorium, University of Jammu. This lab was set up in collaboration with IIT Kharagpur. Syllabus for 3<sup>rd</sup> and 4<sup>th</sup> semesters students (CBCS) mode were prepared and maintenance of lab, conducting workshop etc was done.
- Extended support for ERP.

#### **Future Initiatives:**

Computer Centre is involved actively in developing software as per need and requirement. In this regard centre has initiated few new assignments:

- Website of Employee Database Management System which includes detailed information of employees i.e employee registration, leave management, qualifications details, management of university orders/circulars etc.
- Computer Centre own Website, which provides information for the students registered with University of Jammu regarding syllabus of all semesters, course numbers with course titles, information on UG-Examination related activities , notifications etc

**Institute of Music and Fine Arts (IMFA)  
University of Jammu**

The Institute is headed by its Director, Prof. Poonam Choudhary.

**Activities of the Institute:**

- Institute of Music & Fine Arts (IMFA) under the banner of “Azaadi ka Amrit Mahotsav” organized the following events:
  - A cultural programme, wherein students of Department of Music presented bhajans & patriotic songs which were highly appreciated by the large number of audience present on the occasion. Mrs. Purnima Sharma, Deputy Mayor Jammu grace the occasion as Chief Guest, while renowned Tabla player Sh. Purshotam Kumar was the Guest of Honour.
  - An interactive meet with the veteran painter of the country from Jammu & Kashmir, Bhushen Koul- National Awardee painter of the country accompanied by Padmashree, Sculptor of the J&K UT, Rajinder Ticku, noted Art Historian & Art critic Dr. Lalit Gupta.
- The students of the Music Department of the Institute of Music & Fine Arts (IMFA) participated in a program organized by Ramakrishna Mission Udhywala, Jammu. The students performed various items like violin, sitar & vocal. A large number of audiences highly appreciated the performance of the students of IMFA.
- Kathak Dance Department, Institute of Music & Fine Arts (IMFA) University of Jammu organized a one day Seminar on the topic “The importance & uniformity of Nritya Hasta in Kathak Dance” at Brig. Rajinder Singh Auditorium, University of Jammu.
- Kathak Dance department of Institute of Music & Fine Arts (IMFA), University of Jammu celebrated World Dance Day where eminent artists, thinkers, practitioners, writers, faculty members of IMFA and students enjoyed the Kathak Dance performance followed by Dogri fusion dance. The mesmerizing Kathak Dance program was attended by Prof. Lalit Mangotra, renowned dogri writer and Sahitya Akademi Awardee; Sh. Deepak Kumar, renowned poetess and Director Rangyug, Swami Antar Nirav Hardeep Singh Deep; Parneeta Kapoor, Senior Tabla Player; Guru Purshotam Kumar and faculty members & students of IMFA.

## Centre for Study of Social Exclusion and Inclusive Policy (CSSEIP)

### Activities organized by the Centre

- Centre for Study of Social Exclusion & Inclusive Policy (CSSEIP) in collaboration with the Department of Philosophy, University of Jammu under the banner of Shiksha Sanskriti Uthan Niyas, JU chapter organized a Public talk on the topic “Influence of Buddhism on Ambedkar”. Dr. Ajay Kumar Singh, Director of the Center for Comparative Religion and Civilization, Central University of Jammu was the Keynote Speaker.
- Centre for Study of Social Exclusion & Inclusive Policy (CSSEIP) in collaboration with Department of Philosophy and Shiksha Sanskriti Uthaan Nyas, Jammu Kashmir Ladakh prant organized an online lecture on “Scientific Orientation in Indian Philosophy: An Inclusive Approach”. Dr. Ayush Gupta, Department of Sanskrit, Tilaka Manjhi Bhagalpur University, Bhagalpur, Bihar was Keynote Speaker.
- Centre for Study of Social Exclusion and Inclusive Policy, University of Jammu organized a literary function by releasing a poetry book “Shyamali” written by Dr. Ashok Gupta (Retd), Department of Hindi. Prof. Naresh Padha, the Chief Guest of the function appreciated the efforts of the teacher who contributed after his superannuation by setting an example for others and also brought laurels to the University. He further highlighted that under the leadership of Prof. Umesh Rai, Vice Chancellor of the University of Jammu the university is making all-out efforts to promote Hindi Language and encourage retired and in-service teachers to publish their Research on local aspects by extending financial support to them under publication grant. The University of Jammu is shortly establishing the Directorate of Hindi to promote the Hindi language in the region. The book contains 77 poems related to Indian Culture, Philosophy, Nature, Place of the women in Indian Society and on the local landscape.



## **Centre for New Literature Culture and Communications**

The Centre for New Literatures started initially as the Centre for Canadian Literatures in September 1994. It soon became the Centre for New Literatures, to be counted as the first of its kind in India and possibly amongst a handful in the world that began providing research and teaching facilities in African, Australian, Canadian, Caribbean as well as Indian Literature in English including translated texts from Indian Literatures into English, under one roof.

The nomenclature of “Centre for New Literature” was further changed to “Centre for New Literatures, Culture and Communication” in 2008 under the ambit of which the scope and activities of the Centre increased manifold. The Centre started facilitating research and studies by following interdisciplinary methodology, involving literary, social, political and anthropological aspects of the research topic. This important dimension of the research provided an impetus to the agreements which were reached between the Centre and the foreign universities, leading to MOUs and agreements with University of Lethbridge, Alberta and University of Calgary, Canada, etc.

The Centre is headed by Prof. Sucheta Pathania

### **Goals and Objectives:**

#### **The objectives of the Centre for New Literatures are:**

- To present a multi-disciplinary view of a fact of languages and literatures in the contemporary scenario through improved and increasingly independent studies and communication in the respective disciplines
- To explore and present the varieties of the English language and literatures in accordance with international requirements which strive to prescribe norms for these varieties as defined by the labels such as Canadian, Australian, American, Indian, Caribbean and South African with the status of English being considered as the global language today with wide variations in vocabulary, syntax and usage that makes the study of British Literature inadequate.
- To provide primary assistance to the research scholars and the faculty members not only belonging to the Department of English but also from other departments of Literatures in the University are welcome to the Centre, to consult its magnificent collections of books and periodicals in order to prepare their proposals for the registration of M.Phil and Ph.D programmes and preparing their papers for presentations at national and international seminars and conferences.
- To encourage the application of interdisciplinary approaches in the research based proposals and thus equip the researcher to present a wider and a complete perspective of the literary studies more appropriate in today's altered scenario.
- To maintain research based study relevant to the University's post-graduate teaching programmes.
- In view of the mutual assistance and formal understanding developed in terms of the MOUs signed with foreign universities, the Centre aims at imparting research facilities which will facilitate the students, scholars and the faculty members to carry out their academic endeavors in the joint research activities, participation in seminars and conferences and exchange of students and faculty members.
- To enhance a better understanding of other world cultures and society.

**Centre for Museology & Sheikh Noor- ud-din Noorani  
Museum of Heritage  
Centre for Studies in Museology  
&  
Sheikh Noor-ud-din Noorani Museum of Heritage**

Sheikh Noor-ud-din Noorani Museum of Heritage and Centre for Studies in Museology was established in 2007 and 2008 respectively. This is the only Centre in the State of Jammu and Kashmir that has been set up to train students in museum profession. The Centre seeks to develop into “laboratory, or an interpretation centre”, where the community studies its past and present , its environment, its natural and cultural heritage, in order to have a clearer grasp of its own future.

The Centre is headed by its Director, Prof.Poonam Choudhary.

**Aims and Objectives:**

- Serve as a major Resource Centre for the preservation and promotion of the diverse cultural facets and arts of the people of the State.
- Exhibit representative collections of cultural development in the region.
- Create a “Folk and Tribal Arts” division with a core collection for conducting study, exhibition and live presentations.
- Organize exhibitions and live performances through multimedia projections, conferences, seminars and workshops between and amongst diverse arts: traditional and contemporary.
- Evolve models of research programmes and art administration pertaining to the region.
- Promote the awareness of historical and cultural linkages between Duggar and other regions.
- Develop network with national and international Institutions.
- Encourage and conduct in-house research in the Arts, Humanities and the Culture of the region.
- Establish in future a network of small eco museums in various parts of the region to involve the local communities in heritage awareness and conservation.
- Provide facilities and support for its staff to pursue innovative research, by responding to developments in the intellectual environment and society at large, and by forging close links with the wider academic world, the professions, industry and commerce.
- Promote challenging and rigorous teaching which benefits from a fruitful interaction with the research environment, facilitating the exchange of ideas through tutorials and small group learning and exploiting the University's resources in its libraries, museums, and scientific collections, to equip its graduates to play their part at a national and international level.

To fulfill its aims and objectives, the Centre has developed a good library which includes books related to different fields like Museology, Architecture, Cultural heritage, History, Anthropology, Archaeology, Heritage Tourism, Folklore, Climatology etc.

**Activities Organized:**

- Centre for Studies in Museology in collaboration with the University Entrepreneurship & Skill Development Centre (UESDC) organized an exhibition on Basholi Painting. Prof. Umesh Rai, Vice Chancellor, University of Jammu and the Chief Guest on the occasion inaugurated the exhibition of the paintings made by the participants of the skill development training program on Basholi Miniature Painting. Basholi Miniature Paintings is a famous school of art under

Pahari miniature paintings but the local artists practicing this art are struggling to keep this art alive and hence this initiative has been taken by the Centre as a small step towards preserving and protecting the skills and knowledge of this traditional art. The trainer of the workshop Mr. Sohan Singh Billawria and his team, have trained the participants who were women from various Self-Help groups associated with JKRLM (Jammu & Kashmir Rural Development Mission) and students from IMFA (Institute of Music and Fine Arts) and other regions of Jammu. The participants have learned the method of preparation of base for Basholi Miniature Painting, have also improved their artistic skills for entrepreneurship, and apply preventive conservation methods to safeguard paintings.

- Centre for Studies in Museology and Sheikh Noor-ud-Din Noorani Museum of Heritage, University of Jammu celebrated International Museum Day. The theme of the function was chosen to align with the International Council of Museums' theme for the year 2023 "Museums, Sustainability and Wellbeing". An interactive program between the four University Museums (Herbarium, Zoological Museum, Wadia Museum, and Sheikh Noor-ud-Din Noorani Museum of Heritage) was organized, where the Resource Persons from respective museums came and interacted with the participants through PowerPoint presentations. They emphasized the role of University Museums- exploring the sustainability of Museums in the present scenario, and the different museum techniques used by them.

#### **Courses Offered:**

- Centre for Studies in Museology is offering an open course in "Museology and Preventive Conservation and Cultural Heritage and Art Appreciation" for the post graduate students under the Choice Based Credit System in the main University Campus.

#### **Publications:**

Dr. Malay Dey: Museum as an Institution of National Unity and Cultural Integration.

## **CENTRE FOR WOMEN STUDIES**

The Centre for Women Studies was established in University of Jammu under UGC scheme for Xth Plan on February 10, 2005.

The Centre is headed by Prof.Suman Jamwal

The Objectives of the Centre have been delineated as:

- Mainstreaming gender issues in the regional context with special reference to Jammu Division and J&K State.
- Developing Research and Training Inputs on Gender Components.
- Strengthening incorporation of Gender themes in the curriculum of post graduate and undergraduate studies.
- Promoting gender sensitive work environment in the Institutions of Higher Learning through Advocacy/Extension/Skill Development.
- Teaching of Foundation / Certificate Course on Gender.
- Encouraging Intersectoral Coordination and Team Building on Gender.

### **Thrust Areas**

- Regional Contextualization on Women's issues and creation of database.
- Institutional leadership through University on Women's issues.
- Education, Empowerment and Quality of Life Improvement.
- Dealing with vulnerability / marginalization/ discrimination / exclusion factors and mainstreaming Women in development process.
- Creation of an enabling environment free from crimes / harassment.
- Promotion of health and well being.
- Women's Writing and Literature.
- Capacity Building.
- Theme based interventions.

### **Activities of the Centre**

- The Centre for Women's Studies under a series of workshops "Gender Sensitization" for the PG students organized the following:
  - The Centre for Women's Studies in collaboration with the Department of Statistics, University of Jammu organized a Gender Sensitization workshop. Dr. Hema Gandotra, Faculty, Department of Sociology, University of Jammu was the Resource Person. The workshop was attended by a large number of participants comprising Students, Scholars and Faculty Members of Department of Statistics.
  - The Centre for Women's Studies in collaboration with the Department of Political Science organized a Gender Sensitization workshop. Dr.Garima Gupta, Faculty, Department of English, University of Jammu was the Resource Person. The workshop was attended by a large number of participants comprising Students, Scholars and Faculty Members of Department of Political Science.
  - The Centre for Women's Studies in collaboration with The Law School organized a Gender Sensitization workshop. Dr. Sarika Manhas, Faculty, Department of Home



Science, University of Jammu was the Resource Person. The workshop was attended by a large number of participants comprising Students, Scholars and Faculty Members of The Law School.

- The Centre for Women's Studies in collaboration with Department of Botany organized a Gender Sensitization workshop. Prof Vishav Raksha, Director, Centre for Women Studies and Dr. Sonia Aneja, Faculty Department of Law was the Resource Persons. The workshop was attended by a large number of participants comprising Students, Scholars and Faculty Members of the Department of Botany.
- The Centre for Women's Studies, in collaboration with Institute of Human Genetics, University of Jammu. Dr. Savita Nayyar, Faculty, Department of Law, University of Jammu was the Resource Person. The workshop was attended by a large number of participants comprising Students, Scholars and Faculty Members of the Department of Law.
- Centre for Women's Studies, in collaboration with Sanskrit and Dogri Department, University of Jammu organized 11<sup>th</sup> workshop under ongoing series for the students and scholars of the Sanskrit and Dogri Department. Dr. Monika Narang from The Law School, University of Jammu was the resource person.
- Centre for Women's Studies organised the following workshops under its ongoing series of workshops on Gender Sensitization in collaboration with various departments:
- 13<sup>th</sup> Workshop in collaboration with Department of Economics. Dr. Bindu Sangra, Faculty, The Law School, University of Jammu was the Resource Person.
- 14<sup>th</sup> workshop in collaboration with Department of Urdu and Punjabi, Dr. Savita Nayyar, Faculty, Department of Law, University of Jammu was the Resource Person.
- 15<sup>th</sup> workshop in collaboration with the Directorate of Sports and Physical Education, University of Jammu. Prof. Jasbir Singh, Dean Faculty of Social Sciences, University of Jammu was the Resource Person.
- 16<sup>th</sup> workshop in collaboration with the Department of Computer Science and IT and Electronics. Dr. Sonia Aneja, Faculty, The Law School, University of Jammu was the Resource Person.
- 17<sup>th</sup> workshop in collaboration with Department of Geography, University of Jammu. Dr. Ellora Puri, Faculty, Department of Political Science, University of Jammu was the Resource Person.
- Centre for Women's Studies, in collaboration with the Office of Programme Coordinator NSS, University of Jammu organized a 'Nukkad Natak' to commemorate National Girl Child Day. The aim of the Nukkad Natak was to generate awareness among all scholars and students of the University.

## Central Library

The Central Library of the University, the 'Dhanvantri Library' is housed in a three storied building constructed over an area of 60,000 sq.ft. It has a rich collection of books, journals, periodicals, manuscripts, dissertations, thesis etc. which cater to the varied academic and research needs of the users. The library has large reading halls and compact stack areas with open access. About 500 students can be accommodated in the reading area of the library. Most of the functions of the library have been computerized. RFID technology is being used for the security purpose. Access of EDUSAT is provided to the students, research scholars and faculty members.

### Facilities for students, scholars and faculty members:

- Reading Room facility is functional 24 X 7 for faculty, bonafide Research Scholars, Students, Alumni and others in all the three floors of the Library.
- On-Line Public Access Catalogue (OPAC ) provided at the Circulation Counter and the stack areas for the Users of the Library.
- Browsing Room special facility for consultation of magazines and newspapers.
- Resource Cell for Visually Challenged Students.
- Facility of Separate Section for Research Scholars.
- INTERNET Section of the Dhanvantri Library provides access to Journals
- Research and Documentation section provides access of any news/articles on Jammu & Kashmir published in local/national news papers.
- INFLIBNET E-JOURNALS CONSORTIUM provides access to more than 14000 online ejournals in the Dhanvantri Library.
- Edusat programmes running regularly.
- Online available database demonstration organized for the students and faculty members to access their usefulness.
- Xerox facility available during all working days
- Uninterrupted power supply assured in the library
- Latest procured books displayed in the new arrivals
- Self issue/return of books through Smart Card.

### Library Services

	Existing			Newly added			Total		
	No.	Copies	Value	No.	Copies	Value in ₹	No.	Copies	Value in ₹
Text Books	11271	N.A.	N.A.	284	N.A.	290400.00	11555	N.A.	N.A.
Reference Books	9439	N.A.	N.A.	133	N.A.	169400.00	9572	N.A.	N.A.
e-Books	-	-	-	-	-	-	-	-	-
Journals	-	-	-	118	-	3788702.00	118	-	3788702.00
e-Journals	-	-	-	-	-	-	-	-	-

Digital Database	13	-	-	13	-	Centrally Funded (eSS)	13	-	-
CD& Video	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-

**Reading room facility:**

**Number of users (category wise) on daily basis**

Teachers	Students	Scholars	Outsiders	Any other category

2% increase due to better facilities provided to users in reading halls.

**Internet usage**

**Number of users (category wise) on daily basis**

Teachers	Students	Scholars	Outsiders	Any other category

Percentage increase/decrease of number of users from the last year and reasons thereof: 5% increase

**Book issue-return details**

**Number of Books issued and returned (Category wise) on daily basis**

Teachers	Students	Scholars	Outsiders	Any other category

4% increase in the number of users as new version of user friendly LibSys Software and L-Smart has been installed.

**Initiatives taken for promoting & popularizing use of Library among teachers, Students, Scholars, General Public etc.**

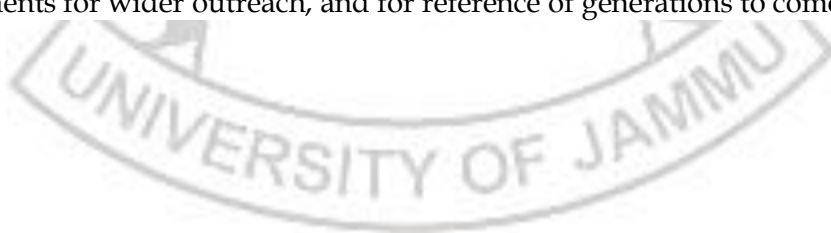
- Installation and AMC of Central A/C in the Reading Halls, Textbook Section and Browsing Section for Library Users.
- Regulation of CCTV Cameras for surveillance, security and help of Library Users.
- Provision of Lift in the Library .

**Any special feature:**

- Conducted Internship/ Counselling of 30 nos. of M.Lib.Sc. students deputed on one month's Internship programme from Library & Information Science Department of the University of Jammu.
- 600 theses, synopses and dissertations have been checked for plagiarism.
- Uploading of thesis routinely in Shodhganga Website.
- Organized Two-Days National Workshop on Digitization in collaboration with IIT, Kharagpur and MIET, Jammu.

#### **Activities/Events organized:**

- A Book Exhibition at University of Jammu. The Book Vendors who participated in the exhibition were M/S's Radha Krishan Anand Book Publishers; Oberoi Book Service; Yak Book Channel; Vinod Book Depot; Jay kay Book House; Fair Deal Books; Amazon Infotech Centre; Anand Books Distributor and Qasmi Kutub Khana. The books on display included Reference Books, Encyclopedias, General Books, Subject Related Books and Compendiums etc. The purpose of holding the Exhibition was to encourage the consultation and usage of Books among the scholars and students.
- Celebration of World Book and Copyright Day, 2023 by organizing an Exhibition of Rare Books of the Dhanvantri Library and from the Departmental libraries of Urdu, Hindi, Punjabi, and Dogri Departments of the University of Jammu. More than 500 Rare books like Agnipuran, Upnishad, Mahabharat Katha, Pali Sahitya ka Itihyas, Sardar Patel's Correspondence (1945-50), Picturesque Kashmir, Srimadh Valmiki Ramayan (Sanskrit), Tahir-e-Kashmir, Firangi Kulayat Mir, Mukhtasar Tariq J&K were displayed including Dogri, Manuscripts in Takri Lipi, Giligit, Buddhist Manuscripts, Gulabnama in Urdu Language, Punjabi Literature, copies of old newspapers like Hamari Zaban, The weekly Mashriq, Javeed, The Chand, Jadid Kashmir, Awami Daur, Khayyam, The Weekly Ranbir, Mughal Art, Dogra Wall Paintings in J&K etc. The purpose of the exhibition was to display and promote the linguistic diversity of indigenous languages of India and to move towards digitization of these rare documents for wider outreach, and for reference of generations to come.



## **Centre for IT Enabled Services and Management**

The era of Internet started in the University under the aegis of Department of Computer Science in the year 1999-2000. A Central Internet facility was created in the Department of Computer Science for the rest of the Departments. In the Year 2002-03 the University established a Campus wide Network on Optical fibre backbone connecting all the Teaching departments and Administrative offices and the internet connectivity was extended to almost all the academic departments.

The centre today offers essential ICT services including Internet Access, Emailing, IT security, Wi-Fi access, development and maintenance of Various University Portals, Problem diagnostics and troubleshooting etc. through a network comprising approximately 4000+ nodes. All ICT services offered by the centre remain operational 24x7 across the University.

To provide Internet facility and access to online learning material, the Centre administers a 1-Gbps link to the National Knowledge Network. In addition, the centre manages an additional Internet bandwidth of 500 Mbps available through other operator.

### **Wi-Fi Facility**

- Wi-Fi Campus Network covers entire campus which includes all buildings and outer surroundings
- Seamless Roaming facility
- 24X7 hours Availability
- 802.11g/b/n/ac/ax protocol used

### **Measures for Cyber Security in University of Jammu**

- University of Jammu installed SOPhos XG750 UTM firewall Device with the following features:
- Web & application Protection: control over all users' web and application activity.
- Provides enterprise-level Secure Web Gateway policy controls to easily manage sophisticated user and group web controls.
- Enables user-aware visibility and control over thousands of applications with granular policy and traffic-shaping (QoS) options based on application category, risk, and other characteristics.
- Provides protection from the latest spam campaigns, phishing attacks, and malicious attachments.
- Load balancing.
- Firewall rules: You can allow or disallow traffic flow between zones and networks based on the matching criteria. You can implement policies, specify access for endpoint devices and servers, and prioritize traffic.
- Frames User authentication Policy.

## Functions / Activities:

### Computing Services

- Management of the Centralized Internet Facility.
- Management of the Campus-wide Network.
- Operation & Maintenance of Website of the University.
- Providing IT support services to Various Departments, Administrative Sections, Hostels & Guest
- House of the University .The services include:
  - Creation of Users
  - Configuring of LAN/ WI-FI Settings on Individual machines/Laptops
  - Troubleshooting of various problems etc.
  - Preparing and processing the tender document for selection of a vendor for supply of various networking items.
  - Technical support on Video conferencing for running Global Understanding Programme being run in collaboration with University of East Carolina.
  - Providing Video Conferencing facility through NKN for various events organized at the Centre/State level.
  - Conducting training programmes in the field of IT and Computer networks.
  - Maintaining Complete Telephone directory of the University with E-mail addresses



## Guest House

University Guest House, one of the important constituents of the University was established in April 1981 in February 2014, four number of suite rooms in the first floor of Faculty Transit House were constructed and furnished. The main guest house has been renovated. The waterproof treatment of the entire roof area of main guest house has been done to control the water leakage and seepage. Old electric panels in the main guest house have been replaced to control power supply. Faculty transit house has been renovated. Guest House refurbished five VIP rooms and two Meeting Halls. For bookings in all the three guest houses, a booking form has been introduced, which is available on University Website. The housekeeping of the main guest house and Transit House has been outsourced but the housekeeping of the Faculty House near Directorate of Distance Education, University of Jammu, majorly caters to the candidates attending refresher courses/ orientation courses conducted by Academic Staff College, University of Jammu.

Total revenue generated through occupancy during the period was ₹ /-, revenue generated through food/catering has been approx. ₹ /- and number of guests stayed during the period are . Mess of the main guest house has been catering to all the three guest houses by providing customized and personalized services to guests staying especially in faculty transit house. Mess is being run on no profit no loss basis with in house cooks ensuring the quality of food at subsidized rates, approved by University.



## **Auditoriums**

### **General Zorawar Singh Auditorium Complex**

The General Zorawar Singh Auditorium Complex, one of the mega infrastructural projects of the University was established in 2007. The Auditorium showcases the rich, diverse and pluralistic traditions and heritage of Ladakh, Jammu and Kashmir and is a step towards meeting the needs and aspirations of the students and the people of the region. The Complex houses an auditorium, a museum and an art gallery. The auditorium is named after General Zorawar Singh, a Dogra soldier, famous for his military expeditions. The Museum is named after Shiekh Noor-Ud-Din Noorani, a great sufi and propagator of Rishi cult in Kashmir and the Art gallery is named after Rinchen Bzangpo, a scholar and propagator of Buddhism in Ladakh and the founder of Gompas, famous for their architecture and design.

The Auditorium has a seating capacity of around 1400 and can be divided into two with the help of a state-of-art hydraulic stage and sliding-folding partition to create a mini auditorium with a seating capacity of 400. The Complex also has a brainstorming room, a reading room cum library, an exhibition hall, a souvenir shop, a green room etc.

The major collection of the Gallery is of contemporary paintings. These paintings have been received from the artists who participated in the "All India Contemporary Artists Camp" at Patnitop (Jammu) in October 2004, organized by the University of Jammu. The other collection is of black and white photographs, sketches and paintings which have been donated by renowned artists and art historians like Prof. S.D.S Charak, Sh.Satti Sahni and Sh.Sarbjeet Singh. The Art Gallery also houses some beautiful wooden sculptures, which were carved in the special "Wood Carving Camp" organized by the University of Jammu in 2005 and attended by renowned sculptors from all over the country.

The Shiekh Noor-Ud-Din Noorani museum housed in the ground floor of the complex has a collection of artifacts covering the history of our State through various ages. The interesting displays in the museum include the remains of Krimchi Temple and a replica of Burzahom pit.

Through this unique combination of an art gallery, a museum and an auditorium, the University seeks to create a holistic academic ambience, where students have exposure to visual arts, performing arts and culture not just for career building but enriching their existing faculties and bringing forth new ones.

The Auditorium is being utilized for holding conferences, seminars, award functions, concerts by the various departments of the University, affiliated colleges, educational institutions, social organizations, etc. During the period under reference, more than hundred events were organized in the General Zorawar Singh Auditorium (both from inside and outside the University).

**Some of the major activities/functions organized in the Auditorium during the period include:**

### **Brigadier Rajinder Singh Auditorium**



Brig. Rajinder Singh Auditorium is a compact auditorium with 325 seating capacity. Most of the functions are organized by or for the students throughout the year. The nature of the programmes organized at Brig. Rajinder Singh Auditorium are:

- **Cultural programmes :** Organized by the students and professionals, prominent amongst them is Display Your Talent which is a flagship programme of the Department of Students Welfare and around 1500 students from the teaching departments and affiliated colleges participate in it.
- **Literary Events**
  - ✓ Seminars/Workshops
  - ✓ Fresher's/Farewell programmes of the departments.
  - ✓ Other programmes by outside organisations (non political and non religious)

#### **Maintenance plans:**

To make the Auditorium upgraded and enhance its utility for different programmes, following upgradations are urgently required at Brig. Rajinder Singh Auditorium in a Phase Manner:

Phase 1: Upgradation to the Light & Sound System

Phase 2: Carpeting and Retouching of the interiors

#### **Main events organised at Brig. Rajinder Singh Auditorium Complex**



## Health Centre

A First Aid Centre was initially established in the premises of the boys' hostels of the University managed by a part-time medical assistant. Later, the First Aid Centre was upgraded to a full fledged Health Centre in the early seventies to provide medical aid benefits to the University community and the dependents of the University employees.

### Facilities and Services provided:

The Health Centre has grown manifold over the years. The facilities provided are as follows:

- OPD Level Treatment (8 A.M - 8 P.M)
- Dental Facility
- Physiotherapy
- Ultra Sound weekly
- Clinical Laboratory
- ECG Facility
- X-Rays thrice weekly
- Ambulance Service
- Emergency Services on call/ telephone
- Referral to GMC & associated hospital in need
- Reimbursement facilities during hospitalisation
- Immunization camps for Polio eradication
- Treatment of sports personnel during sports meeting
- Inspection of canteens/ cafeterias
- Cleanliness and Sanitation of the campus.

Apart from this, the Health Centre also looks after sanitation and cleanliness in and around the campus, canteens, hostels and undertakes disposal of garbage in collaboration with the Municipality of Jammu.

### Number of patients catered during the period

- General OPD - 2500 per month
- Dental - 300-400 per month
- Physiotherapy - 350-450 per month

Different Lab tests like routine Blood (Hb%, TLC, DLC, BT, CT, Blood Group ,PBF) Urine R/E, stool exam and different biochemical tests like Blood Sugars, Cholestrol, Lipid Profile, B Urea, S. Creatinine, S. Billirubin, Widal tests have been conducted on 331 patients during the period.

### Activities/Events organized:

- Health Centre, University of Jammu in collaboration with Office of the Chief Medical Officer, Jammu organized a week long booster dose COVID vaccine camp for Students, Scholars and

Staff of the University. A weeklong camp for Ayushman Bharat-Pradhan Mantri Jan Arogya Yojana-SEHAT was also organized by the University Health Centre.

- University Health Centre and Department of Students Welfare, University of Jammu in collaboration with SMVD Narayana Superspeciality Hospital Katra organized a Health Talk on Breast Cancer today for the female students and employees of the University of Jammu at Brig. Rajinder Singh Auditorium, University of Jammu as part of the observance of Breast Cancer Awareness Month. Dr. Arunima Rathore, Consultant Gynecologist from SMVD Narayana Superspeciality Hospital was the resource person. Dr. Arunima emphasized on generating awareness about the symptoms, screening and early detection of breast cancer.
- Health centre, University of Jammu in collaboration with Medanta Medicity, Gurugram and Sharp Sight Eye Hospital, Jammu organized one-day free medical camp for cardiology and eye related issues.



## HOSTELS

The University of Jammu provides hostel facility to its students and scholars. There are three girls hostels located on the main campus and four boys hostels, one of which is located in the old campus and the other three in the new campus. The allotment to the hostels is done by Provost Hostels on the basis of merit, to those students who reside more than 45 kms away from the University Campus. Each hostel has a capacity of 100-150 seats.

### Hostel Occupancy

Name of the Hostel	Name of the Warden	Year of Establishment	Intake capacity
Nehru Hall Boys Hostel	Dr. Satinder Kumar	1984	125
Swami Vivekananda Hostel	Dr. Gurdev Singh	1987	120
Boys Hostel Old Campus	Dr. Lalit Sen Sharma	1969	100
Baba Jitto Boys Hostel		2011	120
Chanderbhaga Girls Hostel	Prof. Shashi Manhas	1980	145
Priyadarshani Girls Hostel	Dr. Sarita Sood	1996	230
Sarojini Naidu Girls Hostel	Prof. Gurjeet Kour	2007	240

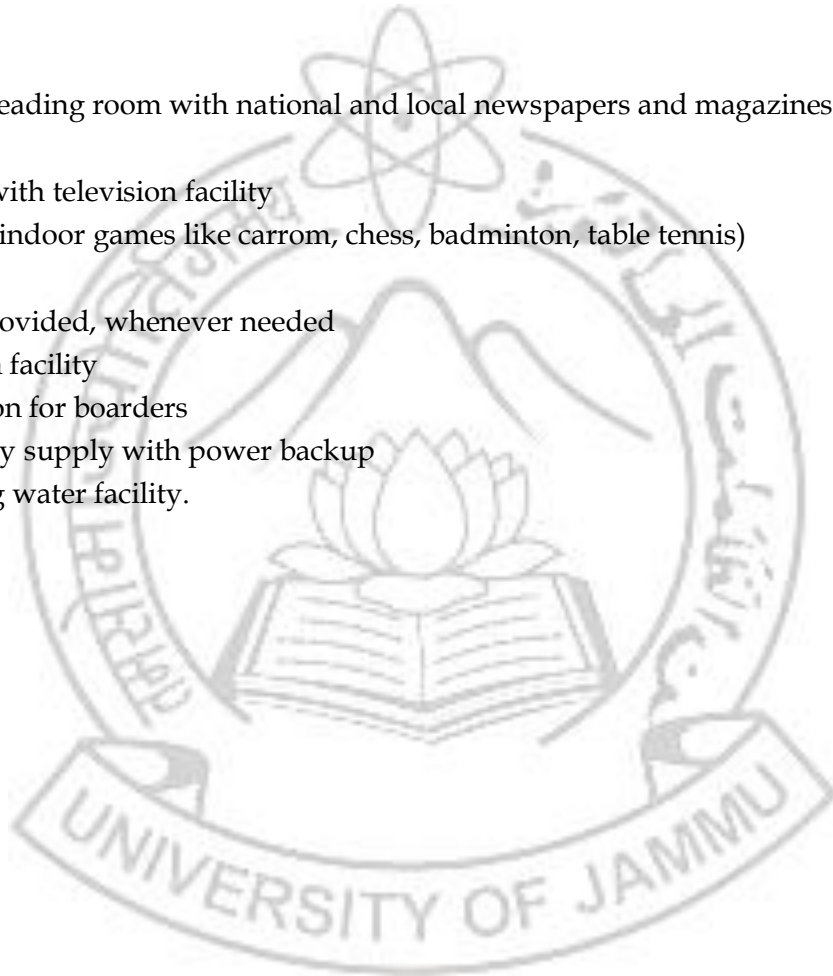
### District-wise occupancy in various Hostels

District	Baba Jitto Boys Hostel	Swami Vivekananda Boys Hostel	Nehru Hall boys Hostel	Boys Hostel (Old Campus)	Total	Priyadarshini Girls Hostel	Sarojini Naidu Girls Hostel	Chandrab agha Girls Hostel	Total
Anantnag									
Baramulla									
Budgam									
Doda									
Jammu									
Kathua									
Kargil									
Kulgam									
Kishtwar									
Ladakh									
Poonch									
Pulwama									
Rajouri									
Ramban									
Reasi									
Samba									
Srinagar									
Shopian									
Udhampur									
Bhaderwah									

District	Baba Jitto Boys Hostel	Swami Vivekananda Boys Hostel	Nehru Hall boys Hostel	Boys Hostel (Old Campus)	Total	Priyadarshini Girls Hostel	Sarojini Naidu Girls Hostel	Chandrabagha Girls Hostel	Total
Sopore									
Outside J&K									
<b>Total</b>									

**Facilities provided:**

- Co-operative mess
- Dinning hall
- Guest room
- Well furnished reading room with national and local newspapers and magazines
- Internet facility
- Recreation hall with television facility
- Sports facilities (indoor games like carrom, chess, badminton, table tennis)
- First aid facility
- Ambulance is provided, whenever needed
- Telephone booth facility
- Security provision for boarders
- 24 hour electricity supply with power backup
- Filtered drinking water facility.



## National Service Scheme (NSS)

The National Service Scheme was started to establish a meaningful linkage between the campus and the community. The NSS was started in the University of Jammu in the year 1981. The University of Jammu is the only University in India, which gives substantial credit to NSS Volunteers for seeking admission in the various post graduate courses of the University of Jammu on the basis of their performance as an NSS volunteer. In recent past, NSS in the University of Jammu has made tremendous strides in the field of social work, community extension and reach out and personality development.

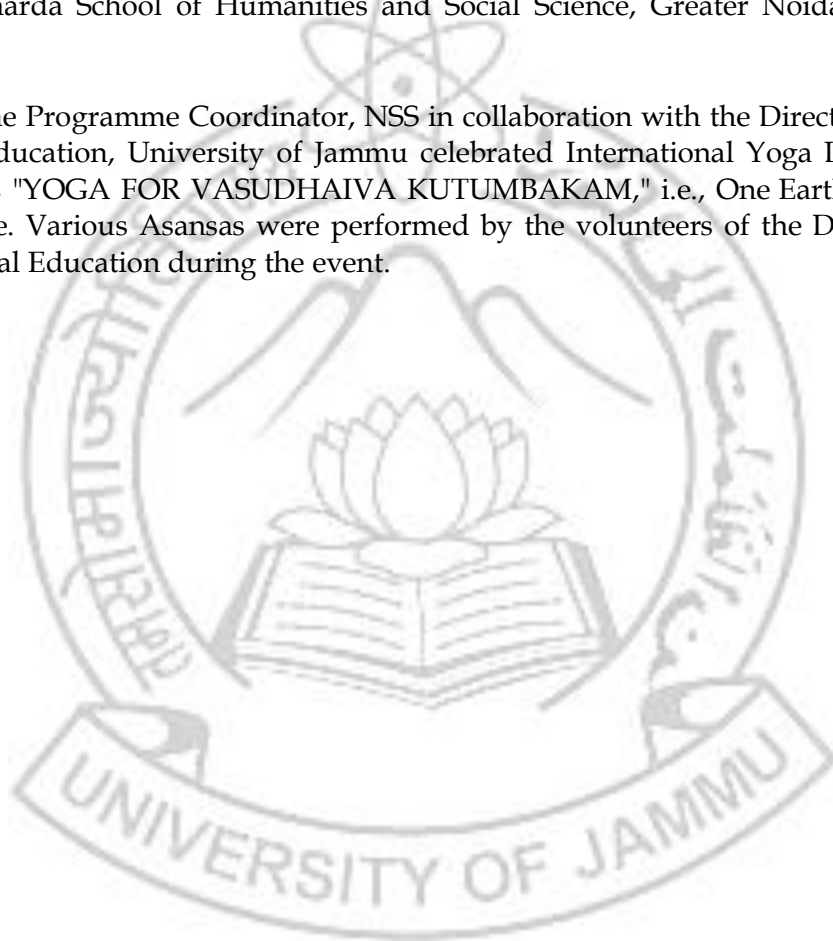
### Activities/Events organized:

- NSS Campus Units in collaboration with The Law School, University of Jammu celebrated Constitution Day. During the event a symposium on the topic "Know your Constitution: Fundamental Rights and Duties of every citizen" was also organized. The event was attended by the all the faculty members and students of The Law School.
- The Office of the Programme Coordinator, NSS commemorates 'National Youth Day' in the University of Jammu. The National Youth Day is celebrated to mark the birth anniversary of Swami Vivekananda ji- the great Indian Thinker, Philosopher and Social Leader. More than 100 volunteers from various departments of the University and from different colleges participated in the programme. Swami Yajnadharananda ji, Secretary Ramakrishna Mission Jammu was the Keynote Speaker.
- The Office of the Programme Coordinator NSS in collaboration with Unnat Bharat Abhiyaan, Jammu University Chapter organized winter Clothes donation drive at Akhnoor(Mathwar-village), in one of the adopted villages of Jammu University. Around more than 200 villagers participated in the camp belonging to all the age groups.
- NSS Campus Units in collaboration with the Department of Computer Science & IT organized an Induction cum Orientation Programme for Newly enrolled NSS volunteers of Campus Unit II. Prof. Rajni Kant, Dean Research Studies, University of Jammu and Dean, Faculty of Science was the Chief Guest of the function. In his address, he through his personal life experiences motivated the students to social work with zeal and enthusiasm for the welfare of the society and nation which will help in their overall personality development also.
- National Service Scheme (NSS), University of Jammu in collaboration with Centre for Women's Studies, University of Jammu organized two day workshop on the theme: 'G20 and Women: Unlocking the Potential'. Prof. Naresh Padha, Dean Academic Affairs was the Chief Guest. Prof. Naresh Padha, in his address stressed upon unlocking the potential of women and not restricting them to gain more knowledge. He also gave details about the G20 and said that it will provide a platform to showcase its efforts towards the social upliftment of the women. While interacting with the students he mentioned that the visibility of women in the society is limited and suggested various remedies to bring equality, focusing more on equity. The workshop was attended by more than 100 students including NSS Volunteers from various Degree Colleges, B.Ed Colleges and from various Departments of University of Jammu.

- NSS Campus Unit-II, University of Jammu organized two day Cleanliness and Plantation Drive under the theme “Go Green, Stay Clean.”. The volunteers cleaned the surroundings of Dhanvantri Library and painted the adjoining walls and rocks and planted more than 50 fruit plants of various varieties including citrus fruits, mangoes, guava, litchi, loquat, peach, amala were planted in the backyard of Dhanvantri Library.
- Office of the Programme Coordinator, NSS in collaboration with National Institute of Social Defense, Ministry of Social Justice and Empowerment and RRTC Anugraha organized Sensitization Programme on the theme ‘Intergenerational Bonding’ in the MIER college of Education for the NSS Volunteers. Dr. Aabha Choudhary, Chairperson, Anugraha was the Chief Guest and Keynote Speaker. She in her address appreciated the Office of the Programme Coordinator, NSS and the NSS Unit of MIER college of Education for undertaking such types of awareness programmes. Focusing on the various problems of the elderly people, she motivated the younger generation to come forward and contribute towards the social and psychological well-being of the elders.
- NSS Campus Unit, University of Jammu on the occasion on International Women’s Day organized an interactive lecture on “Social Perception of Feminization and Gender Construction: An Enquiry” by Prof. Jasbir Singh, Professor, University of Jammu. Dr. Singh said that there is a need to restructure and reorganize the role of women with changing dimensions of the society and the time has come to create a safe space for people to express their true potential regardless of what society’s gender stereotypes and expectations. Role sharing is the need of the hour to build up a balanced society.
- NSS Volunteers from University of Jammu participated in three-day awareness drive on Solid Waste Management organized by Jammu Municipal Corporation. The volunteers displayed placards in their hands with slogans on “NO IMMERSION OF SAKH IN RIVER TAWI”, “SAVE SURYA PUTRI TAWI” and “SAY NO TO POLYTHENE”. They also interacted with the people passing over the bridge and spread awareness regarding Solid Waste Management and made people aware about the ill effects of throwing garbage in the Tawi River.
- Department of Students Welfare and Office of Programme Coordinator, NSS University of Jammu in collaboration with National Institute of Social Defense, Ministry of Social Justice and Empowerment and Anugraha organized Intergenerational Bonding Mela. The event was attended by around 150 persons including elderly citizens, NSS volunteers and faculty members. Dr. Aabha Choudhary, Chairperson, RRTC, Anugraha was the Keynote Speaker. She motivated the younger generation to come forward and contribute towards the social and psychological well-being of the elders.
- Office of the Programme Coordinator, NSS commemorated “World Bicycle Day”. The event was aimed to popularize and adopt the use of cycling as a solution to avert global warming and as a norm for healthier lifestyle while celebrating and cherishing the noble ideas that inspired freedom struggle. A cycle rally was also organized in the University Campus in which more than 80 NSS volunteers participated. The cycles for the said programme were sponsored by the Chairman, Smart city Project, Jammu.
- NSS Volunteers of Campus Unit-IV in collaboration with the Office of the Coordinator NSS, University of Jammu along with more than 100 participants from various departments of Jammu organized the Green Program of Celebrating “World Environment Day”. Volunteers

took the initiative of decorating the Parks in a natural way without the use of plastic. NSS Unit-IV has come up with an annual calendar which involves many activities and celebrations for the purpose of matching NSS objectives and to serve the society best. NSS volunteers also shared their views on the Green Earth Concept and attempted opportunities to deliver various means to contribute best to the process of making the environment clean and green.

- National Service Scheme (NSS) Campus Unit-I in collaboration with department of Economics, University of Jammu as a part of "International Yoga Day" celebrations organized Yoga Workshop for the NSS volunteers and students of department of Economics to raise awareness about the benefits of the ancient and traditional system of keeping the mind and body healthy through Yoga. More than 40 Volunteers from NSS Campus Unit-I and students of Department of Economics participated in the workshop. Dr. Ritu Chaku, Associate Professor, Yogic Science, Sharda School of Humanities and Social Science, Greater Noida was the Resource Person.
- Office of the Programme Coordinator, NSS in collaboration with the Directorate of Sports and Physical Education, University of Jammu celebrated International Yoga Day. The theme for this year is "YOGA FOR VASUDHAIVA KUTUMBAKAM," i.e., One Earth, One Family, and One Future. Various Asanas were performed by the volunteers of the Directorate of Sports and Physical Education during the event.





## University Science Instrumentation Centre

The University Science Instrumentation Centre (USIC) was established in the year 1987 with the following objectives and goals:

### Goals, objectives and action plan developed to achieve these objectives:

- (i) To provide service to University Departments/Centres/Offices/Affiliated Colleges in repairs and Maintenance of their instruments.
- (ii) To provide and assist analytical services on specialized instruments available in the University.
- (iii) To provide support facilities in designing and fabrication of teaching-aids and kits of scientific equipment to all the departments of the University in their teaching and research programmes.
- (iv) All purchase proposals of the science faculty for purchase of scientific items are being routed through SSO, USIC for scrutiny and who also conducts proceedings of the Central Purchase Committee (Sciences) meeting.

USIC is headed by Prof Meena Sharma (Hon'y Director)

### Physical infrastructure, equipments and facilities

#### Physical Infrastructure:

- USIC building including plinth area: 2500 sft. + 1000 sft. i.e.
- Laboratory area (Analytical Lab., Electronics, Electrical, Office & SSO Room): 2500 sft.
- Three workshops (Glass blowing, Mechanical, Refrigeration): 1000 sft.
- 1<sup>st</sup> Floor of USIC with area of approx. 1000 sft. consists of 3 Rooms housing computer section, store and analytical section.

### Equipments available in USIC

#### Glass Blowing Section:

1. Glass Blowing lathe
2. Glass Cutting Machine
3. Furnace
4. Surface Grinding Machine
5. Pentograph Machine
6. Glass Grinding Machine etc.

#### Mechanical Section:

1. HMT Lathe
2. Drill Machine (.25 mm)
3. Hecksaw Machine
4. Grinding Machine
5. Welding Set (300 Amp.)

6. Air Compressor etc.

**Electrical Section:**

1. Testing Equipment etc.

**Electronics/ Analytical Section:**

1. UV-Vis-Spectrophotometer
2. Ion Analyzer
3. Water Quality Analyzer
4. Cathode Ray Oscilloscope
5. Electronic Balance
6. pH meter
7. LCR Meter
8. IC Tester
9. Soldering De-soldering Station
10. UPS -2KVA etc.
11. Gas Chromatograph

**Refrigeration Section:**

1. Testing Equipment etc

**Office:**

1. Computers
2. Printers (Ink jet & Laser)
3. Scanner etc.

**Facilities**

**Refrigeration Section:**

- Repair of:**
1. Refrigerator
  2. Air Conditioner - Window type
  3. B.O.D./Incubator
  4. Water Cooler
  5. Rewinding of compressor and Fan motor of air conditioner

**Electrical Section:**

- Repair of:**
1. Transformer
    - (a) Automatic
    - (b) Manual
  2. Heating mantle
  3. Stirrer
  4. Hot plate

5. Oven
6. Furnace
7. Melting point apparatus
8. Conventional heat convector/Blowers
9. Water bath
10. Normal checking of conductivity of instruments
12. Fabrication of single phase transformers (automatic and manual) upto 8KVA capacity.

#### **Mechanical Section:**

1. Welding
  - (a) Electrical
  - (b) Gas
2. Sheet cutting
3. Drilling upto 1 inch-diameter
4. Turning and lathe applications
5. Grinding
6. Gauge measurements
7. Fabrication of mechanical jobs as per the design specifications given by the concerned.

#### **Glass Blowing Section**

- Repair of:**
1. Tower apparatus
  2. Measuring cylinder
  3. Conical flask
  4. Burette
  5. Guard tube

**Fabrication of:**

1. Capillaries
2. Condenser bulb type
3. Guard tube
4. Dean stark apparatus
5. Column

#### **Electronics Section**

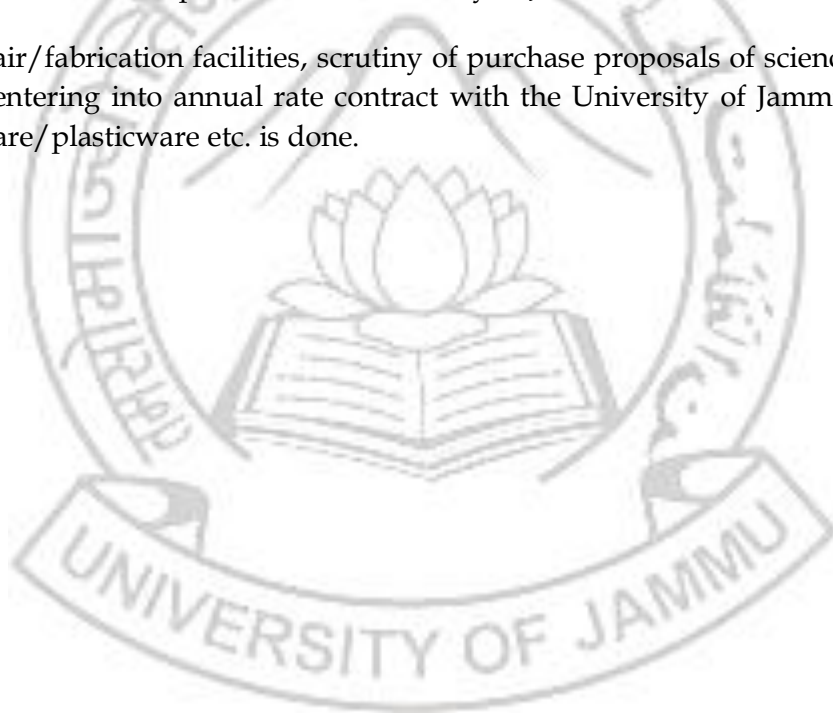
- Repair of:**
1. Projectors
    - (a) Overhead
    - (b) Slide
  2. Muffle furnace
  3. Microscope
    - (a) Binocular
    - (b) Stereoscope
    - (c) Optical
  4. Single pan balance

5. Conventional Camera
6. Lux meter
7. Dissection light
8. Emergency lights (handy)
9. Handy air sampler
10. Sound meter

**Measuring and testing:**

1. Digital IC testing.
2. Inductance, capacitance and resistance measurements/testing.
3. Conductivity, total dissolved oxygen, pH value, salinity measurement.
4. Ion analysis: ammonia, bromide, cadmium, calcium, chloride, copper, carbondioxide, fluoride, lead.
5. Electronic weighting facility available (200 gm) upto 3 decimal place.
6. UV-analysis (range 190nm-1100nm) - spectrum, time scan, photometric, concentration.
7. USIC has procured a gas chromatograph which is used as centralized facility for all the science departments of University of Jammu.

In addition to repair/fabrication facilities, scrutiny of purchase proposals of science departments and scrutiny of firms entering into annual rate contract with the University of Jammu for the supply of chemicals/glassware/plasticware etc. is done.



### **Department of Dean Students Welfare**

The Office of the Dean Students Welfare was established in 1972. Department organizes various cultural/literary competitions to inculcate creativity among the students in about 16 events with active participation from almost all Affiliated Colleges and Teaching Departments of the University. On the basis of the performance in Inter-Collegiate contests, the students are deputed for Zonal, National and International Level Competitions being organized by Association of Indian Universities, Ministry of Youth Affairs and Sports and Ministry of Parliamentary Affairs, Government of India, Indian Council of World Affairs, National Council for Cooperative Training, Shiksha Mandal Wardha and other Universities and prestigious Institutions. Arranges performances by the visiting artists of National and International repute and conducts special lectures and workshops etc. To date our students have excelled in various competitions and have even visited countries like USSR, JAPAN, BULGARIA, U.K and SOUTH KOREA etc.

The Department supervises the infrastructural facilities for organizing various Academic and Cultural/Literary activities, working of the Cafeteria, Canteens, Eat Points, Kiosks for various student services viz. Photo Copying, Stationery, PCO, Book Shop and Daily Needs Shop etc. Law & Order and Maintaining Discipline on the Campus also includes the designated duty of the Department.

The emphasis has been laid to provide the students and scholars, quality food and sumptuous edibles, juices, snacks and beverages etc. at the Campus as they have to stay at the Campus for long hours attending the practical classes and consulting the libraries etc. The Canteen Committee keeps complete check on all these central facilities.

### **GOALS, OBJECTIVES AND ACTION PLANS DEVELOPED TO ACHIEVE OBJECTIVES**

- To plan, organize and conduct Students Welfare programmes including cultural and literary activities, festivals, extension and special lectures, youth clubs, societies etc.;
- To co-ordinate the work of student services and agencies in the University and motivate faculty involvement in the students' welfare programmes;
- To prepare the activities calendar in co-operation with the Heads of the teaching Departments of the University and Heads of affiliated/constituent colleges;
- To provide secretarial services to the Board of Sports and Youth Welfare and pursue and implement decisions taken by it or the Syndicate in regard to Students Welfare activities;
- To maintain discipline and deal with cases of indiscipline in the University Campus and provide secretarial services to the Discipline Committees in accordance with the Discipline Regulations that may be framed by the University from time to time;
- To devise ways and means for promoting the well-being of the University students social, moral, emotional and inculcating among them regard for great ideals like loyalty to the country, devotion to duty and pursuit of truth;
- To supervise the working of Cafeteria, Canteens, Eat Points, Kiosks and Reharris etc.
- To prepare reviews and reports of the activities pursued during a year; and
- To perform such other functions as the University Council or the Syndicate or the Vice-Chancellor may direct or as may be deemed necessary for promotion of Youth Welfare and maintenance of discipline among students.

- To form various Clubs like Theater Club, Music Club, Fine Arts Club etc to enhance the cultural activities in University.

### Activities/Events organized:

- The Department of Students Welfare, University of Jammu initiated ‘Training Outreach Programme’, a new programme which would offer training opportunities in performing arts and fine arts to the students of colleges located outside Jammu. The inaugural workshop is being warmly hosted by Government College for Women, Udhampur. Prof. Vishav Raksha (Chairperson, Campus Cultural Committee), Prof. Sanjana Kaul (Co-Chairperson, Campus Cultural Committee), Dr. Monika Sharma (Principal, GCW, Udhampur) along with other dignitaries inaugurated the 5-day theatre workshop in this series.
- The Red Ribbon Club of the Department of Students Welfare, University of Jammu in collaboration with J&K AIDS Control Society, Department of Health and Medical Education, J&K Government commemorated International Youth Day (IYD) which is celebrated every year on 12<sup>th</sup> August by the countries around the world. The theme of IYD-2022 was “Intergenerational Solidarity: Creating a World for All Ages”. Students from various teaching departments of the university participated in Mobile Film Making, Poster Making and Elocution competitions and exhibited their creative and intellectual talents on highly relevant topics.
- Department of Students Welfare in commemoration of ‘Gandhi Jayanti’, organized Painting, Essay Writing and Declamation contests for the students of affiliated colleges and teaching departments of University of Jammu. Around 110 students from different districts of Jammu province participated in these events and expressed their creativity and intellect. The winners were also felicitated during the event.
- Department of Student Welfare organized “Display Your Talent 2022-2023”. Sh. Rohit Kansal, IAS, Principal Secretary, Higher Education, J&K Government, JKUT was the Chief Guest. In his address, Sh. Rohit Kansal congratulated the organizing team behind this vibrant mega festival, which is full of enthusiasm and aspiration. Citing the role and relevance of ‘Artificial Intelligence in the coming years, he insisted that ‘Human Skills’ have still a pivotal role to play and that such wonderful cultural events stimulate those skills in youth. He also complimented Prof. Umesh Rai, Vice Chancellor, University of Jammu for his innovative approach towards such endeavours. He quoted that the Universities have a very important role in the nourishment of colleges and the University of Jammu has always been an able patron, mentor and guide for its affiliated colleges. He also expressed satisfaction over the participation of many students from colleges located far and distant from Jammu province. A total of 27 events of music, dance, theatre, Fine arts and literary activities were conducted during the event which is in synchronization with the events of Association of Indian Universities and around 1500 students from more than 35 colleges and teaching departments of the university participated in this mega-festival. Overall Champion Trophy was won by the Institute of Music and Fine Arts. The overall Runners-Up Trophy was shared by GCW, Parade and GCW Udhampur. Over All Trophy for Best Student was awarded to Charu Sharma from GCW, Udhampur. Overall Trophy for Best Performance in Theatricals was awarded to GCW, Udhampur. Overall Trophy for Best performance in Fine Arts was awarded to Sheetal Goswami from GCW Parade. Overall Trophy for Best Performance in Music was awarded to

IMFA. The overall Trophy for Best performance in Quiz was awarded to Department of Zoology, JU.

- Department of Students Welfare, University of Jammu organized a Motivational Lecture 'Towards a better Society' by Prof Achyuta Samanta, Member of Parliament, Lok Sabha, Educationist, Philanthropist, Founder, Kalinga Institute of Industrial Technology (KIIT) and Kalinga Institute of Social Sciences (KISS) for students and scholars of University of Jammu.
- Department of Students Welfare, University of Jammu in collaboration with Jammu Municipal organized a Lecture cum Interaction programme on the topic 'Towards a Transparent and Corruption Free System'. Sh. Rajinder Sharma, Hon'ble Mayor, Jammu was Resource person.
- Disability Initiatives Unit, University of Jammu in collaboration with Dean Student Welfare, University of Jammu and NGO partner, The Association of Deaf and Aphasic (ADAJ) organized a day-long cultural event and short film festival for the deaf and aphasic children. More than 150 children and youth having hearing impairment from different parts of India including Delhi, Hyderabad, Bengaluru, Kerala, Punjab, West Bengal participated in this cultural fiesta. Folk dance, magic show, quiz session, fashion show, short drama and short documentary screening were held under this festival. Sh. Arun Manhas (JKAS), Managing Director, J&K Agro Industries Development Corporation was the Chief Guest. Speaking on the occasion, he remarked that empathy towards the divyang community is much needed, if we have to truly embrace them. He further mentioned that there is provision in NEP for creating inclusive classrooms and schools for the benefit of the specially-abled children. He emphasized on the need to involve the disabled community to realize the goal of national development. He also lauded the efforts of the University in highlighting the cause of the specially-abled by hosting a unique cultural festival.
- Department of Students Welfare, University of Jammu in collaboration with University Health Centre organized a Lecture and Demonstration session on the topic "Exercises and Importance of Physiotherapy in the Management of Injuries". Dr. Amit Kumar, MPT, BPT (Spine Neurology and Biomechanics Specialist), New Delhi was the Resource Person. Dr. Amit Kumar conducted a highly informative session with the employees and students of the University. The highlight of the session was a live demonstration of several exercises that help in strengthening the muscles, keeping the posture correct, and managing acute and chronic pains with the help of Physiotherapy.

## Placement Cell

### Profile & objectives of the office

Placement Cell, University of Jammu was established in 2009 under the Deanship of Prof. B.C. Sharma. The cell in its short span of establishment has undertaken a number of initiatives for increasing placement opportunities of the students. Students of departments of Commerce, English, Chemistry, Biotechnology, Hindi, history, Mathematics, Physics & Electronics, Botany, zoology MBA, MCA and campuses of Bhandarwah and Kathua have been placed in various organizations. A Memorandum of Understanding (MOU) has been entered into with HDFC Bank, Pratishta, Vaishnavi biotech Ltd., and Reliance Money Infrastructure. Professor Neelu Rohmetra has also remained Dean Students Placement for a period of seven months from 7-12-11 to 2-7-12. Professor Deepak Raj Gupta took over as Dean Students Placement on 31 -12- 16 for a period of six months and handed over the Deanship to the Professor Dipankar Sengupta on 19- 6- 2017.

### Details of campus placement

On Campus			Off Campus		
Number of Interviews Conducted	Number of Students Participated	Number of Students Placed	Number of Interviews Conducted	Number of Students Participated	Number of Students Placed

### Activities/ Initiatives organized by students (during the period)

Fairs		Exhibitions	
University Level	:NA	University Level	: NA
State Level	: NA	State Level	: NA
National Level	: NA	National Level	: NA
International Level	:NA	International Level	:NA

### Activities/ Initiatives organized by the University (During the period)

Fairs		Exhibitions	
University Level	: NA	University Level	:YES
State Level	: NA	State Level	:YES
National Level	: NA	National Level	:NA
		International Level	:NA
International Level	: NA		

### Details of activities and support from Alumni Association, Parent-Teacher Association, any other association w.r.t. placements

Parent Teacher meet regularly under the banner of project "UDAAN" and the Alumni Association of The Business School and the Computer Science Department are actively involved by interacting with



the students and help them in placements. Alumni are acting as backbone of the various professional departments. Alumni Interaction with the Hon'ble Vice- Chancellor was also conducted on 22<sup>nd</sup> August, 2016 by the office of Dean Students Placement.

### **Details of activities and events for building relations with Industry with respect to Placements and improving job prospects**

#### **Details of MOUs & Collaborations, if any with the Industry for generating avenues for placements**

Yes, University does have the institutionalized mechanism for students placement. In this regard University has signed number of MOUs with the different corporate houses.

University had signed MOU with HDFC Bank from 2009. Under this MOU, HDFC is providing training on retail banking and soft skills to the students. They stopped this training from 2013 onwards. From 2009 they are regularly conducting the Placement in the Business School under the clauses of MOU. In 2013 they have upgraded the Business School from T3 to T2. Due to recession, they have not visited the campus in 2014. This year even the bank has provided summer internship to the students by paying the stipend of Rs. 10,000/- per month.

University has signed MOU with Reliance Money Infrastructure from 2012 for the placement of students of offsite Campuses. As it involves training and subsequent placements with a minimum cost out of which 50% of the cost of training will be paid out of the placement fees charges by the respective campuses and remaining 50% will be borne by the participating students. Students have shown reluctance in paying money. Hence this MOU would not be taken into its logical conclusion.

Besides this University has also signed the following MOU for the Training/ Placement of the students.

- Pratihtha
- Vaishnavi Biotech Ltd.

#### **Details of Feedback Mechanism of various placement related activities and action taken on the feedback received.**

Office is in the process of devising a feedback mechanism in the light of University Council decision held on 77<sup>th</sup> University Council Meeting vide resolution No. 3.2.3(ii).

#### **Any other activity/ event organized for enhancing the employment prospects of students.**

Office of Dean Students Placement is also a nodal office for Project UDAAN. Under this scheme specific employability skills are being given to the students for making them placeable. Large number of University students have been benefited by this initiative.

#### **Details of Committees constituted for improving the job prospects of students.**

There are departmental Placement committees constituted by the respective HOD's / Directors. These Committees assist in organizing placement drives and makes efforts for finding Job prospects of the students.

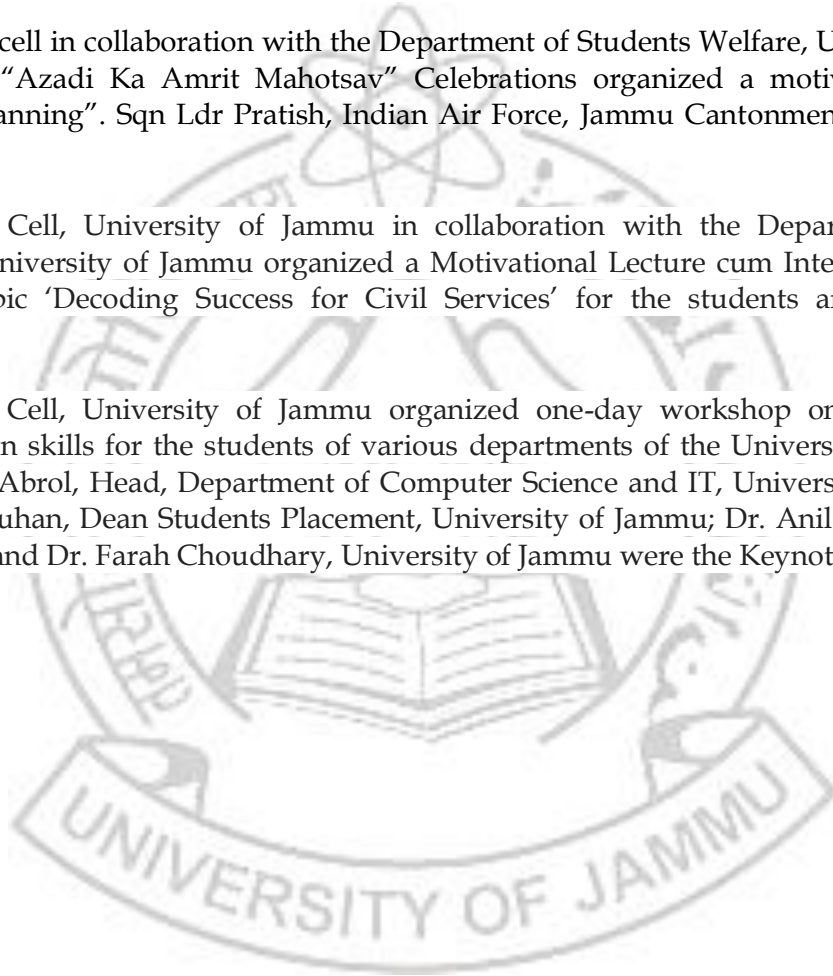
**Whether students, industry experts are part of it:** Yes

**Feedback received from employers & Action initiated on it:**

Employers feedback was used to revise curriculum in the past.

**Activities organized by the Placement Cell:**

- Placement cell in collaboration with the Department of Students Welfare, University of Jammu as part of "Azadi Ka Amrit Mahotsav" Celebrations organized a motivational lecture on "Career Planning". Sqn Ldr Pratish, Indian Air Force, Jammu Cantonment was the Resource Person.
- Placement Cell, University of Jammu in collaboration with the Department of Students Welfare, University of Jammu organized a Motivational Lecture cum Interaction programme on the topic 'Decoding Success for Civil Services' for the students and scholars of the University.
- Placement Cell, University of Jammu organized one-day workshop on computation and presentation skills for the students of various departments of the University of Jammu. Prof. Pawanesh Abrol, Head, Department of Computer Science and IT, University of Jammu; Prof. Vinay Chouhan, Dean Students Placement, University of Jammu; Dr. Anil Gupta , University of Jammu and Dr. Farah Choudhary, University of Jammu were the Keynote Speakers.



## Global Understanding Course

University of Jammu became the charter member of the International Association of Global Understanding (IAGU) in 2008 and started a Certificate Course in Global Understanding in collaboration with twenty five foreign universities from sixteen countries. Subsequently, the International Association of Global Understanding (IAGU) was renamed as Global partners in Education (GPE). The course became a major component of the global academic initiatives taken in the University of Jammu.

The Global Understanding course provides opportunity to students from twenty three Universities on five continents to study and collaborate with their peers through face to face class meetings using live video, audio, and chat technologies. Through lectures, small group discussions and by working with individual partners, the students learn about universal issues ranging from family structure to cultural prejudices and stereotypes.

The course provides unique opportunities to learn, to communicate, appreciate, work with and understand people from other cultures through direct and personal interaction with students from other cultures.

The 23<sup>rd</sup> batch of this course concentrated on the Global Cultural issues. The course aimed at developing an understanding of communication and culture, in both global and community settings, and the way members of diverse cultures and subcultures utilize unique systems, symbols and media representation to communicate among themselves and other groups. Special emphasis was on developing communication competence, appreciating cultural diversity in our lives, listening, developing effective communication skills when interacting with diverse populations, overcoming communication apprehension, and the understanding of culture through the collection of oral histories and stories.

This course was offered as a partnership between East Carolina University, the United States Department of State, Faculdade de Jaguariúna (Brazil), Shandong University (China), and University of Jammu (India). Intended to foster cross-cultural understanding of global climate change, it was the first of its-kind partnership which kicked off on February 3, with a presentation by President Obama's top science adviser, John P. Holdren, on "Science and the Impact of Climate Change." Holdren, Director of the Office of Science and Technology Policy, delivered a lecture through videoconferencing, to students at ECU and at partner universities in India, China and Brazil – three countries that are major players in the climate change debate. Austin Bunch, ECU Associate Provost, hailed the partnership as a "feather in the cap" for the universities worldwide.

### Course Goals

- To become aware of topics, theories, concepts, and themes at the centre of the study of intercultural communication.
- To become aware of the necessity of the study of intercultural communication.
- To assess one's degree of intercultural apprehension, level of individualism/collectivism, value orientations, ethnocentrism, and intercultural competence.
- To improve your intercultural communication competencies in multicultural settings and to develop the ability to adapt to, predict, and control communication outcomes.
- To develop an awareness of the dynamics of the multicultural classroom and organization.

- Specifically to understand and put into practice the communication principles which contribute to a positive classroom and organizational communication environment.

### **Partner Universities**

- ECU - East Carolina University - Greenville, N.C. U.S.A
- ANU - University of Agostinho Neto - Angola
- CAU - Chinese Agricultural University - Beijing, China
- DCT - "Dreams Come True" International Hotel & Business Management School - Vitznau, Switzerland
- FJU- Fu Jen Catholic University - Taiwan
- IJU - University of Jammu - Jammu-Kashmir, India
- ILCs - Institute for Language and Communications Studies - Rabat, Morocco
- IU - Istanbul University - Istanbul, Turkey
- LMSU - Lomonosov Moscow State University - Moscow, Russia
- MSUN - Maritime State University - Vladivostok, Russia
- NTCB - National Taiwan College of Business - Taiwan
- SNNU - Shaanxi Normal University - Xian, China
- TUA - Tlemcen University of Algeria - Tlemcen, Algeria
- UM - Universidad Metropolitana - Caracas, Venezuela
- UR - Universidad Regiomontana - Monterrey, México
- UMT - University of Malaysia Terengganu - Terengganu Darul Iman, Malaysia
- USIL - San Ignacio de Loyola University - Lima Peru
- USM - Universitatea de Stat din Moldova - Chisinau, Moldova
- UTG - University of The Gambia - Banjul, The Gambia
- VSU (VSUES) - Vladivostok State university of Economics and Service - Vladivostok, Russia
- ZCU - University of West Bohemia - Plzen, Czech Republic
- UOFM - University of Michigan, USA

The Global Understanding Project being run in collaboration with East Carolina University and other 23 partners has won the 2008 Andrew Heiskell Award for Innovative International Education. The Award was instituted by the Institute of International Education (IIE) to promote and honour the most outstanding initiatives that are being conducted in International Higher education by IIE Network member universities and colleges.

## Human Resource Development Centre

The Human Resource Development Centre , University of Jammu established in 2005, plans, organizes, implements, monitors and evaluates Orientation Courses for newly appointed College/University lecturers, Refresher courses in specific subjects for serving teachers and workshops for senior administrators and academic heads of departments and offices.

The Academic staff college is headed by its Director, Prof. Rajnikant assisted by Assistant Director, Mr. Ranjeet Kalra.

### Achievements

During the period under reference, the Human Resource Development Centre successfully organized one General Orientation Courses, three Refresher Courses in the area of Life sciences and Physics, Human rights, Disaster management etc. and two short term courses. During this period, 251 participants comprising of 46 percent locals and 54 percent non-locals attended these programmes (out of which 61 percent were male and 39 percent female)

### Programmes Organized

S.No	Subject of FIP/ RC /STC	From	To	Male	Female	Total
1	Chemistry	30.01.2023	11.02.2023	22	09	31
2	Mathematics	20.02.2023	04.03.2023	14	02	16
3	Disaster Management	27.02.2023	11.03.2023	16	06	22
4	NEP-I	30.06.2022	04.07.2022	32	35	67
5	NEP-II	07.07.2022	11.07.2022	43	26	69
6	NEP-III	14.07.2022	18.07.2022	52	35	87
7	NEP-IV	28.07.2022	01.08.2022	84	110	194
8	NEP-V	25.08.2022	29.08.2022	32	22	54
9	MIL	07.11.2022	19.11.2022	18	08	26
10	FIP	14.11.2022	10.12.2022	31	05	36
11	EVS	28.12.2022	10.01.2023	19	10	29
<b>Total:</b>						<b>631</b>

### Activities/Events organized:

- Human Resource Development Centre in collaboration with Directorate of Internal Quality Assurance, University of Jammu under Amrit Kaal Trans-Disciplinary Lecture Series organized a lecture on “Attitude, Leadership, Motivation & Values” by Shri Shiv Khera, an Author, Educator, Business Consultant, a popular motivational speaker and author of bestselling books like “You Can Win” (over 9 million copies sold in 21 languages) and “Living with Honour”. Shri Khera has a rich experience of 40 years of research and understanding on the path of growth and fulfillment. His clients include Lufthansa, HP, DHL, HSBC, Canon, Nestle, Philips, Mercedes, Johnson & Johnson, Metlife and many more.
- Learning Management System (LMS), University of Jammu in collaboration with UGC-Human Resource Development Centre (HRDC) and Office of Dean Academic Affairs, University of Jammu organized one week Faculty Development Programme (FDP) on “Learning Management System” with the aim to train teachers for a blended mode of learning and teaching which is one of the objectives of NEP-2020. A series of sessions were

organized by various experts to use effective Teaching, Learning and Development of e-content and to create and manage course contents, share Learning Resources, create assessments and communicate with students on LMS platforms. The workshop was attended by more than 40 teachers across all the teaching departments of University of Jammu. Prof. K. Srinivas, NIEPA, New Delhi; Dr. Deepak Bisla, Ambedkar University, Delhi; Prof. J.N. Balia, Central University of Jammu and Dr. Ashok Sharma, Bhandarwah Campus, University of Jammu were the Keynote Speakers.

- UGC-HRDC conducted five-day's induction training programme for the newly recruited Assistant Registrars and officers of University of Jammu. Various sessions/lectures/presentations were conducted to acquaint with the working of the University as well as their role and responsibilities towards the University.



# CAMPUSES

## Bhaderwah Campus

The Campus started functioning from 2006.

### **Infrastructure:**

The Campus started functioning in a rented accommodation in Bhadarwah town in 2006. Simultaneously the construction of the Campus was started in Sungli, 2.5 km from Bhadarwah town, which was inaugurated by Her Excellency The President of India on 26.05.2008.

- i) Administrative Block
- ii) Academic Block
- iii) Institution of Mountain environment.
- iv) Pre fabricated huts
- v) Faculty Quarters
- vi) Girls Hostel
- vii) Boys Hostel
- viii) Rector Residence
- ix) University Guest House

Detail of Academic Programme offered in the Campus.

### **PG / Undergraduate Courses**

MBA, MCA, M.A English, BBA, B.Com (Hons.), M.Sc Geography, B.Ed and experimental School of B.Ed.

**Intake Capacity and total no. of students admitted (1<sup>st</sup> semester/1<sup>st</sup> year) in each programme in the Academic year 2022-23**

Programme	Intake Capacity	Self Financing	Total no. of students admitted in 1 <sup>st</sup> semester in academic Session (2022-23)
MCA	20		15
MBA	20		08
MA English	20		09
B.Ed			12
BBA	20		18
B.Com (Hons.)	20		11
M.Sc Geography	10		08

### **Faculty Profile**

Name	Qualification	Designation	Specialization	No. of years Experience	Department
Dr. Jatinder Singh	Ph.D	Associate Professor	Databases, Data Mining & Computer networks	16	MCA
Dr. Aabid Sarwer	Ph.D.	Assistant Professor		06	MCA
Dr. Subash Chander	Ph.D.	Assistant Professor	Post Colonial Studies & Canadian Drama	13	English
Dr. Rakesh Kumar	Ph.D.	Assistant Professor	American Novel	15	English
Mrs. Jasleen Kour	M.A, JRF	Assistant Professor		15	English
Dr. Umesh Chodhary	Ph.D	Assistant Professor	Human Resource Mgmt	13	MBA
Dr. Rohit Bhagat	Ph.D	Assistant Professor	Marketing Mgmt	13	MBA
Dr. Mohammad Avais	Ph.D	Assistant Professor	Finance Mgmt	13	MBA
Dr. Sunil Bhardwaj	Ph.D	Assistant Professor	Finance Mgmt	13	MBA
Dr. Neeraj Sharma	Ph.D.	Assistant Professor		11	IME
Mr. Chhering Tandup	UGC NET	Assistant Professor		11	IME
Mr. Shayan Javeed	UGC NET	Assistant Professor		10 days	IME

#### Contractual faculty

Name of the Faculty	Qualification	Experience in Years
Dr.Ambish Malik	Ph.D.	08
Dr. Sundus Quyoom	Ph.D.	04
Dr. Waqar Yonus Butt	Ph.D.	03
Mr. Waseem Akram	Ph.D.	03
Dr. Dinesh Singh	Ph.D.	05
Dr. Gagan Kumar	Ph.D.	05
Mr. Waseem Akram	Ph.D.	03
Mr. Abrar Ali Sheikh	Ph.D.	6.5
Ms. Shallu Kotwal	Ph.D.	05
Ms. Priya Rani	MCA	01



Name of the Faculty	Qualification	Experience in Years
Dr. Meenakshi Nargotra	Ph.D.	04
Dr. Atif Javed Qazi	Ph.D.	05
Mr. Amit	MBA	06
Ms. Aishya Gupta	MBA	04
Ms. Sonia Sharma	MBA	04
Dr. Surekha Pukharwaj	Ph.D.	02
Mr. Rajinder Kumar	MBA	07
Dr. Ahakesh Sharma	Ph.D.	3.5
Dr. Dinesh Singh	Ph.D.	05
Mrs. Neetu Parihar	NET	07
Mr. Vimal Kumar	NET	05
Mohd. Amir	NET	01
Ms. Renu Devi	M.Ed.	05

### Publications:

Name of the Author	Publication/s
Dr. Jatinder Manhas	<ul style="list-style-type: none"> <li>• Deep Learning-Based Recognition and Classification of Different Network Attack Patterns in IoT Devices.</li> <li>• A Framework for Classification of Nematodes Species Using Deep Learning.</li> <li>• Deep Neural Based Learning of EEG Features Using Spatial, Temporal and Spectral Dimensions Across Different Cognitive Workload of Human Brain: Dimensions, Methodologies, Research Challenges and Future Scope.</li> <li>• A Survey on Different Security Frameworks and IDS in Internet of Things.</li> <li>• Machine Learning-Based Hybrid Model for Wheat Yield Prediction.</li> <li>• Bagged based ensemble model to predict thyroid disorder using linear discriminant analysis with SMOTE.</li> <li>• A Comparative Study of Different Machine Learning Based Feature Extraction Techniques in Bacterial Image Classification.</li> <li>• Characterization of Molecular Dynamic Trajectory Using K-means Clustering.</li> <li>• Deep Learning Based Classification of Microscopic Fungal Images.</li> <li>• Hierarchical Clustering Based Characterization of Protein Database Using Molecular Dynamic Simulation.</li> <li>• Hybrid System Based on Genetic Algorithm and Neuro-Fuzzy Approach for Neurodegenerative Disease Forecasting.</li> <li>• Machine Learning Techniques for the Diagnosis of Disc Disorders: Comparative Analysis.</li> </ul>

	<ul style="list-style-type: none"> <li>• Machine Learning-Based Hybrid Model for Wheat Yield Prediction.</li> <li>• A Framework for Classification of Nematodes Species Using Deep Learning.</li> <li>• An Intelligent Species Level Deep Learning-Based Framework in Automatic Classification of Microscopic Bacteria Images.</li> <li>• Deep Learning Based Approach in Automatic Microscopic Bacterial Image Classification.</li> </ul>
Dr. Abid Sarwar	<ul style="list-style-type: none"> <li>• A Web-based Blood Bank System for Managing Records of Donors and Receipts.</li> <li>• Attendance Management System using Facial Recognition.</li> <li>• Reinforcement Learning in Medical Diagnosis: An Overview.</li> <li>• Self-Learning Chatbots using Reinforcement Learning.</li> <li>• Early Diagnosis of Cervical Cancer Using AI: A Review.</li> </ul>
Dr. Ashok Sharma	<ul style="list-style-type: none"> <li>• Cloud-Enabled Education-as-a-Service (EaaS): A Review.</li> <li>• Heart Disease Prediction and Hybrid GANN.</li> <li>• Protein Structural Prediction based on hybridization of PSOFFA and CNN-BILSTM.</li> <li>• Hybrid Models for Analyzing the Pregnancy Issues Using AI Approaches.</li> <li>• Optimization approaches in meta-learning models.</li> <li>• Using AI-Based Approaches in Health Care for Predicting Health Issues in Pregnant Women.</li> <li>•</li> </ul>

#### Activities/Events organized:

- Department of Computer Science & IT, Bhaderwah Campus organized two week summer school on Computer Vision under KARYASHALA Scheme- A SERB initiative.
- Bhaderwah Campus along with Indian Army (4RR) celebrated 76<sup>th</sup> Independence Day with great enthusiasm and patriotism. Prof. Rahul Gupta, Rector, Bhaderwah Campus along with 2IC (4 Rashtryia Rifles) Lt Col. Nishant unfurled the tricolour. Officers from Indian Army, Teaching Faculty, Non-teaching staff, Students from different departments were present on the occasion.
- Department of Computer Science & IT, Bhaderwah Campus in collaboration with Indian Institute of Technology (IIT) Roorkee organized a weeklong Faculty Development Programme on “Real World Scientific & Numeric Computing using deep learning Python” with the aim to make aware budding computer experts about real-world scientific and computing problems and to solve them by using deep learning.
- Institute of Mountain Environment, Bhaderwah Campus, University of Jammu in collaboration with Department of Environmental Sciences organised an international Mountain Day cum gender sensitization workshop at University of Jammu. Prof. Umesh Rai, Vice Chancellor and Chief Guest on the occasion complimented the Institute of Mountain Environment and Department of Environmental Sciences for organizing the workshop as an

important and relevant theme. He appreciated the participation of senior faculty members and female researchers from different streams of the university and urged that the benefit of the workshop must reach those for whom these are intended. He emphasized the importance of inter- and multi-disciplinarity in academia and research. Dr. Tanushree Srivastava, manager and head of the western Himalaya Mountain ungulate Project J&K and MS. Oyndrila Sanyal researcher in CORD, University of Kashmir in their respective presentations shared their experiences dealing with the difficulties they face and the strategies they adopt to overcome while achieving the best.

- The Business School, Bhaderwah Campus, University of Jammu organized an Industrial visit for the students of MBA at Chenab Textile Mills, a part of Suttlej Textiles and Industries Ltd., a Blue-chip company of K. K. Birla Group. The purpose of the trip was to introduce and familiarize the management students with the production and manufacturing processes of the industry. Ms. Kanika Sambyal, Sr. HR Officer, Chenab Textile Mills gave a detailed presentation about Chenab Textile Mills.
- The Business School, Bhaderwah Campus, University of Jammu organized an induction function 'PRARAMBH-22' for the newly inducted batch of MBA program. The objective of this programme was to acclimatize the students to the new environment and get them acquainted with the institution's culture. The programme commenced with a warm session by Ms. Kanika Sambyal, Senior HR Head at Chenab Textile Mills. She emphasized that apart from academic knowledge, smart work, and creativity and out of box thinking shapes the students into able individuals strong enough to face the reality of the corporate world. Mr. Rishi Gupta, CEO, Money Value Added Pvt. Ltd. was the Keynote Speaker.
- Bhaderwah Campus and Kishtwar Campus jointly in collaboration with Jammu and Kashmir Police organized a seminar on Awareness on Anti-Drugs. The seminar was attended by 50 NSS volunteers from both the campuses. Mr. Dil Mir Choudhary, Additional Deputy Commissioner, Bhaderwah and Mr. Kameshwar Puri, SP, Bhaderwah were the Keynote Speakers.
- Bhaderwah Campus, University of Jammu organized an interactive lecture for its students on the topic "Role of Youth in Nation Building". Chief Justice of Common High Court of UT of J&K and Ladakh Justice N. Kotishwar Singh and Justice Wasim Sadiq Nargal were the Keynote Speakers. Dignitaries present on the occasion were Shri Vishesh Pal Mahajan, DC Doda; Shri Shahzad Azeem, Registrar General; Shri M.K Sharma, Principal Secretary to Hon'ble Chief Justice; Shri Sunit Gupta, Principal District and Session Judge, Bhaderwah; Shri Abdul Qayoom, SSP Doda and Shri Dil Mir Choudhary, ADC Bhadarwah. Addressing the students of Bhaderwah Campus, Chief Justice High Court of J&K and Ladakh, Justice N. Kotishwar Singh said that hard work, discipline and a strong desire for knowledge is the key to success. He urged upon the students, to achieve continuous improvement and success in any activity. He also highlighted the importance of positive efforts in achieving their ambitions. He planted saplings of Chinar on the premises of the Bhadarwah Campus.
- Department of Computer Science & IT, Bhaderwah Campus, University of Jammu organized a guest lecture on "Emerging Technologies and Communication Skills in the IT Industry". Dr. Purnima Bali, Associate Professor, Chitrakoot School of Liberal Arts, Shoolini University, Solan, Himachal Pradesh; Mr. Shamneesh Sharma and Mr. Chetan Sharma, both Managers - Programs at UpGrad Education Pvt. Ltd were the Keynote Speakers.

- The Business School, Bhaderwah Campus, University of Jammu organized a Corporate Guest Lecture for the students of MBA, BBA and B. Com (Hons.). Mr. Ravi Kumar Sharma, Branch Head, J&K Bank, Pranoo was the Keynote Speaker. Speaking on the occasion he talked about important financial aspects like CRR, SLR, repo rate, reverse repo rate, financial inclusion, inflation, monetary policy, fiscal policy. Apart from that he also highlighted various schemes offered by J&K bank for promoting and developing entrepreneurs. He further put light on the avenues and opportunities for women entrepreneurs. The guest lecture was followed by an interactive session with the students of The Business School, wherein all the students participated actively.
- Department of Computer Science & IT, Bhaderwah Campus, University of Jammu in collaboration with iHUB, Divyasampark IIT Roorkee organized a week-long IT tour for the students of the Department of Computer Science to IIT Roorkee. The group consisted of 16 students; Dr. Jatinder Manhas and Ms. Ayushi Kotwal from the Department of Computer Science & IT, Bhaderwah Campus. During their visit, the group interacted with members of Dtown Robotics Private Limited, which is a startup that works in the area of drone and robot manufacturing. The students learnt about the application areas of the drone. Thereafter, the students also visited the robotics lab of the iHUB, Divyasampark, established at the Noida Campus of IIT Roorkee. Dr. Manish Anand from iHUB, Divyasampark IIT Roorkee apprised the students about the different schemes and scholarships that one can get while pursuing his or her research. He also shared his immense knowledge on some of the state-of-the-art technologies, i.e., block chain technology, cyber security, IoT, drones, etc. with the participants.
- Department of Computer Science & IT, Bhaderwah Campus, University of Jammu in collaboration with iHUB Divyasampark IIT Roorkee, conducted a training program on IOT sensor networks for the students of the various educational institutions. The training program is a part of the MoU executed between the Department of Computer Science and IT at Bhaderwah Campus and iHUB DivyaSampark at IIT Roorkee. The training was conducted by the trainers from Uni Converge Technologies, Noida in physical mode.
- Department of Geography, Bhaderwah Campus, University of Jammu organized a one-day Regional Seminar on the theme "Climate Change and Ecosystem services in Himalayan Region". Prof. Milap Chand Sharma from JNU, New Delhi was the Resource Person. Jenab Dil Mir Choudhary, ADC, Bhadewah was the Chief Guest on the occasion.

## **KATHUA CAMPUS**

Kathua Campus is fast emerging as the technical Campus of the University. Currently MBA and MCA programmes are being offered at the Campus. The other programmes like B. Pharma, MP.Ed five-Year integrated MBA and the various Engineering Programmes through the University Institute of Engineering and Technology (UIET) are in the pipeline, for augmenting quality and technical education and research. Kathua Campus is working with technological focus, futuristic outlook and social sensitivity.

The MBA programme at Kathua Campus commenced in the year 2006 in The Management School at the Campus. The MBA admissions are made on the basis of Common Admission Test (CAT)/ AIMA – MAT score as one of the parameters of selection process through centralized process at The Business School at the main campus.

The Campus is well equipped with Computer Labs, Video Conferencing facility, Smart Classrooms, Seminar Room, Common Recreation Room, Transport facility etc.

About 362 Kanals of land has been acquired at Village Janglote, Kathua where separate hostels for boys and girls, academic and administrative blocks are in completion stage. Further, the construction of UIET buildings under RUSA has also started at Janglote, Kathua by JKPCC, the executing agency. The Campus is likely to move from the rented premises to the newly constructed Academic block by December 2016. All the buildings are environment friendly and shall be equipped with modern facilities.

### **Details of academic programmes offered in the Campus**

- MBA (2 Year's full-time Degree Programme)
- MCA (2 Year's full-time Degree Programme)

### **Thrust Areas of Teaching and Research**

#### **MBA**

- Marketing management
- Human Resource Management
- Financial Management

#### **MCA**

- Data Structures
- Programming Languages
- Databases
- Computer Networks
- Algorithms
- Software Project Management
- Data Mining and Data Warehousing
- Artificial Intelligence
- Neural Networks

**Intake Capacity and total no. of students admitted (1<sup>st</sup> semester/1<sup>st</sup> year) in each programme in the Academic year 2022-23**

Programme	Intake Capacity	Self Financing	Total no. of students admitted in 1 <sup>st</sup> semester in academic Session (2022-23)
MCA	20		18
MBA	30		06

**Faculty Profile**

Name	Qualification	Designation	Specialization	No. of years Experience	Department
Dr. Sourabh Shastri	Ph.D.	Assistant Professor	Machine Learning, Data Structures, Knowledge Discovery	11	Computer Science & IT
Mr. Amit Sharma	MCA	Assistant Professor	Discrete Mathematics, Theory of Computation, Artificial Intelligence	06	Computer Science & IT

**Contractual Faculty**

Name of the Faculty	Qualification	Experience in Years	Department
Dr. Zahin Ansari	Ph.D.	02	MBA
Mr. Gaurav Sharma	MBA	08	MBA
Ms. Anjally Gupta	MBA	06	MBA
Ms. Avni Sharma	MBA	04	MBA
Dr. Mahesh Koul	Ph.D.	1.5	MBA
Ms. Tiharika Nath	MBA	1.5	MBA
Ms. Kamakshi	MBA	1.5	MBA
Dr. Sunny Sharma	Ph.D.	04	Computer Science & IT
Ms. Ritika Goyal	MCA	04	Computer Science & IT
Mr. Pranav Ratta	MCA	04	Computer Science & IT

**Publications:**

Name of the Author	Publication
Dr. Saurabh Shastri	<ul style="list-style-type: none"> <li>LiteCovidNet: A lightweight deep neural network model for detection of COVID-19 using X-ray images.</li> <li>Convolutional bi-directional long-short-term-memory based model to forecast COVID-19 in Algeria.</li> </ul>

Name of the Author	Publication
	<ul style="list-style-type: none"> <li>• Designing Contactless Automated Systems Using IoT, Sensors, and Artificial Intelligence to Mitigate COVID-19.</li> </ul>
Dr. Amit Sharma	<ul style="list-style-type: none"> <li>• Deep Learning Based Classification of Microscopic Fungal Images.</li> </ul>

### Activities/Events organized:

- Kathua Campus, University of Jammu in collaboration with Google Developer Group, Jammu organized Google IO Extended 2022 i.e. a hands-on learning programme with Google experts for the students to give them exposure and practical knowledge pertaining to the latest development in Google technology. The students of Computer Science from Kathua Campus, University of Jammu; University Institute of Engineering and Technology (UIET), Kathua; Government Degree College Kathua, Government Degree College for Women, Kathua; Government Degree College, Hiranagar and Government Degree College, Samba were the participants during the programme. In the programme, highly technical and in-depth sessions that were aimed on Web, Cloud, IoT, Android, Chrome, and AI were conducted by the expert speakers. Google Developer Group, Jammu is headed by Mr. Abhinandan Trilokia who is also an Android Engineer. Mr. Trilokia discussed at length regarding Google IO and also on the recent advancements in Android 13. Ms. Nikita Gandhi, Google Community Manager talked on Role of Communities and Flutter while Mr. Vrijraj Singh, Tech Lead, GDG Jalandhar discussed in detail about Deep drive in the world of Web and Firebase. Ms. Sanjana Chakravarty, Google SWE Intern talked on the topic Women in Tech, History of Women in CS whereas Mr. Anubhav Singh, Co-founder Dynopii Inc highlighted the concepts of Audio AI: What, Why and How. There was also a QA session where students cleared their doubts from the expert speakers. Mr. Jatin Sharma, Cloud Developer (GCP) and Mr. Vanshu Mehra, Creative Team Google coordinated the whole event.
- Kathua Campus celebrated 76<sup>th</sup> Independence Day with great patriotic favour and zeal. The function was attended by all the staff members, students and persons from the civil society.
- University Institute of Engineering and Technology (UIET) in collaboration with IIT Roorkee organized a two-day workshop on Virtual Labs for the students and faculty of UIET. Mr. Chetan and Mr. Jasbir Singh, Project Associates from IIT Roorkee were the Resource Persons. The objective of the workshop was to familiarize the students with the Learning Management System including various tools of learning, web resources, animated demonstrations and self-evaluation besides imparting hands-on training to students through Virtual Labs which enable them to perform any experiment on their mobiles and laptops.
- The Management School, Kathua Campus University of Jammu in collaboration with Career Counselling and Placement Cell, Government Degree College for Women, Kathua organised a career counselling cum lecture of the theme "MBA/Business Education and its Career Prospects in Contemporary Era of Changing Market Dynamics." Dr. Mahesh Koul, The Management School, Kathua Campus was the keynote speaker.
- The Management School, Kathua Campus, University of Jammu organized a career counselling session with a focus on the theme "New Business Dynamics in India after Covid 19 Pandemic" in collaboration with the career counselling cell of SPPND Government Degree

College, Samba. Dr. Mahesh Koul, faculty, The Management School, Kathua Campus was the Keynote Speaker.

- The Management School, Kathua Campus University of Jammu organised a Career Counselling cum Lecture in collaboration with the Career Counselling and Placement Cell of Government Degree College (GDC), Kathua. The theme of the lecture was “Business Management and Market Dynamics”. Anjally Gupta, Faculty, The Management School, Kathua Campus was the Keynote Speaker.
- Kathua Campus, University of Jammu organized its maiden Felicitation Programme on the eve of National Sports Day 2022 with the aim to felicitate the sportspersons who have brought laurels in the field of sports for Kathua district in the International and National Games. This initiative of the Campus is in the series of initiatives aimed at bringing close the civil society of Kathua and Kathua Campus for contributing societal development of Kathua district. International medalists including Mr. Gulzar Ahmed, Mr. Ravi Jassal and Ms. Monika Sharma and National medallists including Mr. Kewal Krishan, Mr. Gharjeet Singh, Mr. Gafoor Ahmed, Mr. Rhubham Sharma, Mr. Aryan Singh Choudhary, Mr. Vipul Yashovardhan, Mr. Bhupinder Singh, Mr. Harsh Deep Singh and Ms. Aditi Khurana from Kathua district were felicitated in the said event. Mr. Shabeel Ahmed (National Gold Medalist), General Secretary, Powerlifting Association Kathua, Mr. Ranjit Singh Pathania, President & Founder of Barwal Athletes Club and Mr. Pankaj Spolia (National Bronze Medalist), Judo Coach in Department of Youth Services and Sports were also felicitated for their contribution in the field of sports in Kathua region.
- Kathua Campus, University of Jammu in collaboration with the Forest Department of the Government of JKUT organized a plantation drive as part of the country-wide ‘Azadi ka Amrut Mahotsav’ celebrations under the theme of year 2022 #OnlyOneEarth, to highlight the safeguarding of the planet's natural resources and their critical importance.
- Kathua Campus, University of Jammu in collaboration with District Kathua Powerlifting Association under the aegis of All J&K Powerlifting Association organized 5th Kathua Bench Press Championship for Men and Women in equipped & unequipped categories to promote sports in Kathua district in general and in Kathua Campus in particular. More than 85 lifters participated in the championship in which 12 were girls. The participants had participated in Sub-Junior, Juniors, Senior and Master Categories.
- NSS Kathua Campus in collaboration with District Medical Authorities organized a Covid-19 Booster Dose Vaccination Camp in the Campus for the students, employees and for natives of adjoining villages. The facility was extended to all the students, staff members, former students, their families and residents of the adjoining villages.
- NSS Unit-VI of Kathua Campus, University of Jammu, celebrated ‘National Constitution Day’ to commemorate the 73<sup>rd</sup> anniversary of the adoption of the Constitution of India, under the banner of Azadi Ka Amrit Mahotsav with great fervor and gaiety. Dr. Meenakshi Kilam, Rector, Kathua Campus motivated the students to affirm their commitment to the Fundamental duties and should uphold the ideology of Indian Constitution. She further encouraged everyone to play their rightful role in strengthening Indian Democracy.



- To pay tribute to our Army, veterans and martyrs and to strengthen the bond between the Indian Army and youth, Kathua Campus, University of Jammu celebrated its maiden Vijay Diwas in collaboration with Fitistan – Ek Fit Bharat. More than 150 students from MCA, MBA, UIET and English departments of Kathua Campus, University of Jammu participated in the said event.
- Kathua Campus, University of Jammu organized its maiden outreach activity i.e. Cleanliness Drive Trek wherein more than 40 students along with teachers trekked from village Padna to Sundri Kot which is almost 4 kilometers steep trek and collected garbage throughout the way to encourage the spirit of cleanliness and hygiene.
- Department of Computer Science & IT, Kathua Campus, University of Jammu organized a webinar titled “Object Oriented Programming using .NET Technology” for the students of MCA. Mr. Aslam Khan, .NET Developer, Anvik Infotech, Noida was the Resource Person. He has enriched the students with his 18 years of experience in .NET Technology. Mr. Khan started the discussion with the basic object-oriented programming concepts and emphasized upon the rising demand of technology experts taking into consideration the world shift towards automation. He further stressed upon the prominence of usage of technology everywhere and elaborated .NET Technology framework along with its connectivity with databases.
- The Management School, Kathua Campus, University of Jammu organized two-day workshop on “Financial Education” under “Kona Kona Shiksha Abhiyan” for students of the campus. Mr. Anil Sharma, Expert Trainer, National Institute of Securities Markets (NISM) was the Resource Person. More than 50 students were participated in the workshop.
- Kathua Campus, University of Jammu organized a two-week Stationary collection drive for helping the underprivileged children of the adopted village Kathera to honour the deity of learning i.e. Goddess Saraswati on the eve of Basant Panchami.
- Kathua Campus in collaboration with Office of the Controller General of Patents, Designs & Trademarks, Department for Promotion of Industry & Internal Trade, Ministry of Commerce & Industry, Government of India organized a webinar on “Intellectual Property Rights” under National Intellectual Property Awareness Mission (NIPAM) in order to aware and sensitize the students pertaining to Intellectual Property Rights. Ms. Prachi Prateeti, Examiner of Patents and Designs, DPIIT, Ministry of Commerce and Industry, Government of India, New Delhi was the Resource Person. The webinar was attended by more than 100 participants across the nation.
- Kathua Campus, University of Jammu organized 3<sup>rd</sup> Extension Outreach Activity on “Drug Abuse: Problem, Management and Prevention” with the aim to keep the children, youth and students away from menace of drugs at Government Higher Secondary School, Kathera. More than 400 students from Government Higher Secondary School, Kathera and Kathua Campus, University of Jammu participated in the said activity. The awareness programme was attended by more than 100 people from Panchayat Kathera who were thrilled by the performance of the students of Kathua Campus, University of Jammu in the form of a play on Drug Abuse.
- Kathua Campus organized a two-week stationery collection and distribution drive with the aim to help the children of adopted village Kathera. The collected stationery items were distributed to more than 350 students of Panchayat Kathera in order to channelize their

energies to harness their potential in nation building and refrain them from bad habits so that they can focus harder on their studies.

- Department of Computer Science & IT, Kathua Campus, University of Jammu organized one-week long Faculty Development Programme (FDP) on “Machine Learning: Concepts and Applications”. Dr. Meenu Gupta, Chandigarh University, Punjab; Ms. Surbhi Viji, Amity University, Noida; Dr. Aditi Sharma, Parul University, Gujarat; Prof. Kiran Sree Pokkuluri, Shri Vishnu Engineering College, Andhra Pradesh; Dr. Nishant Jain, Jaypee University of Information Technology, Himachal Pradesh; Prof. Ram Bilas Pachori, IIT, Indore; Dr. Arjit Roy, IIIT, Sri City; Mr. Bishwa Ranjan, Aryan Institute of Engineering & Technology, Odisha; Prof. Parteek Bhatia, Whitman College Walla Walla, Wahington, USA; Dr. Nilgun Senguz, Burdur Mehmet Akif Ersoy University, Turkey; Dr. Swagatam Das, Indian Statistical Institute, West Bengal; Ms. Disha Sharma, Scoopin, Chandigarh and Dr. Ajay Gadicha, Amravati University, Maharashtra were the Resource Persons.
- Department of Computer Science & IT, Kathua Campus, University of Jammu with the aim to promote innovation and creativity among the youth of Kathua District organized Campus Visit and Hands-on Training on Information Technology for the students of the following School of District Kathua :
  - Government Higher Secondary School, Jakhbar, Kathua. More than 50 students along with faculty members visited the Campus and hands-on training on Information Technology was imparted to them. Mr. Deepak Shastri, Technical Lead, Cyber Security Risk Services, Wipro Technologies, Gurugram was the Resource Person. Mr. Shastri while addressing the students, highlighted the importance of higher-order skills such as creativity, critical thinking, problem-solving, visualization and idea generation in the present era to compete at the global forum. He gave a detailed presentation on emerging technologies like Artificial Intelligence, Robotics, Internet of Things, 3D Printing, Simulation, Cyber Security, Block Chain, Quantum Computing etc. and talked about various Government initiatives pertaining to technology in the field of education.
  - Government Higher Secondary Schools of Zone Basohli. More than 130 students along with faculty members visited the Campus and hands-on training on Information Technology was imparted to them.
- University Institute of Engineering and Technology (UIET) Jangalote, Kathua Campus celebrated National Science Day to commemorate the discovery of ‘Raman Effect’ by Sir C.V. Raman in 1928 with the theme “Global Science for Global Wellbeing”. a quiz competition was also organized during the event.
- Kathua Campus, University of Jammu organized an Expert Talk on “Wealth Creation and Management” wherein more than 100 students participated from Kathua Campus and Government Degree College, Kathua. The event was organized with the view to give undergraduate students from affiliated colleges a bird’s-eye view of career options in finance and management and to acquaint them with the programmes and facilities available on the Campus. Mr. Akhil Gupta, Founder & CEO, Motuindia Business Hub (MBH), Kathua was the Resource Person. Mr. Gupta is a trusted advisor for over 50 corporate houses and has inspired students by training in various institutions. The MBH Wealth Management Company has been

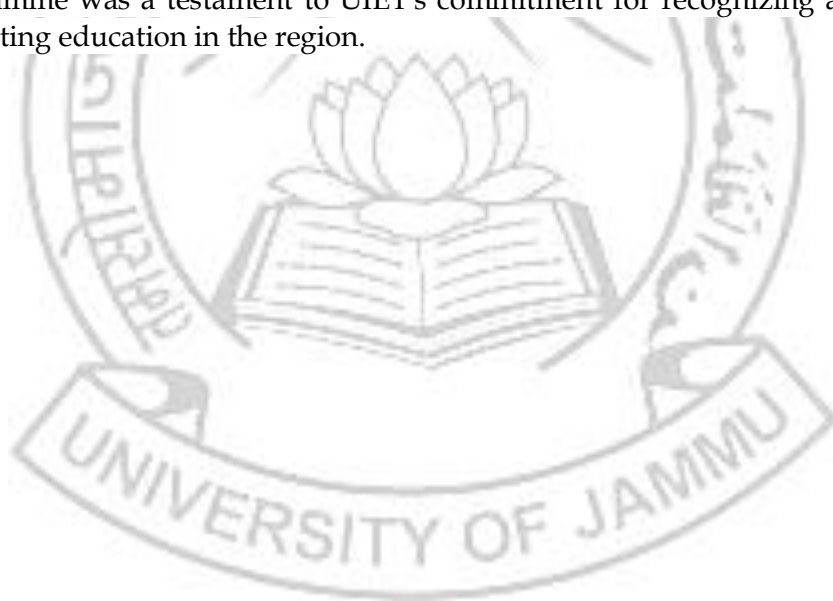
managing wealth across different businesses that include Equity Shares of Indian Companies, F&O Trades, Self-Owned Businesses, etc. Mr. Gupta discussed various methods of creating wealth and its management in today's scenario. He further talked about the benefits of investing in stock market and mutual funds.

- Kathua Campus, University of Jammu organized 4<sup>th</sup> Outreach Extension Programme on “Skill Development and Women Entrepreneurship “at its adopted village Kathera to develop skills among women folk of the village that will lead them for better livelihood, economic independence and the ability to earn for their families. The training programme was attended by more than 100 women from Kathera and adjoining villages. Besides, 150 students from Government Higher Secondary School, Kathera and Kathua Campus, University of Jammu also participated in the said activity. Various artisans and trainers including Ms. Vaishali , Ms. Meena Rani, Ms. Neetu, Ms. Kiran Sharma, Ms. Jyoti Sharma, Ms. Seema Devi, Ms. Parveen Kumari, Ms. Shabnam Khajuria, Ms. Gurpreet Kour, Ms. Priyanka Sharma, Ms. Bharti, Mr. Rajinder Kumar and Smt. Ayodhya Devi imparted the skills for making Jute Bags, Spices, Pickles, Keychains, Khoya, Packaged Multigrain Atta, Bamboo crafts, Polyester Bags, Dori Work, Cushion Work, Beetroot and Spinach Atta, Shawl Kadhai, embroidery accessories, Crochet Knitting etc. to women present at the event.
- Kathua Campus, University of Jammu organized Maiden Open Badminton Tournament (MOBT-2K23) wherein more than 85 participants including students from campus, schools and colleges participated. Being an open tournament, citizens of Kathua and Jammu have also participated in the four categories viz. Men's Single, Men's Double, Women's Single and Women's Double. The participants had neck to neck combat for the victory and a huge crowd enjoyed the thrilling performance of the participants.
- In continuation to the Career Counseling Programmes being organized by the Kathua Campus, The Management School, Kathua Campus, University of Jammu in collaboration with The Business School, University of Jammu organized a Career Counseling session for the students of the Government Degree College, Kathua. The session was attended by around 80 students of BBA and B.Com of the College.
- University Institute of Engineering and Technology (UIET), Kathua Campus, University of Jammu celebrated the National Technology Day by organizing the following events for the students:
  - Department of Civil Engineering organized a field visit of its students to the 206 MW Shahpur Kandi Dam Project located on Ravi River downstream of Ranjit Sagar Dam in collaboration with the Department of Water Resource, Govt. of Punjab. The key objective of the field trip was to impart practical knowledge and exposure besides enhancing the technical skills of the students in a real time environment. This trip provided the students an opportunity to learn from real world examples and to observe and analyze the practical applications of various engineering concepts, techniques and solutions.
  - Department of Computer Science and Engineering, organized a one day Workshop in Collaboration with Finnlogic-IT Services Pvt. Ltd, Bangalore on 'Cyber Security and Cloud Computing' for the students of Computer Science and Engineering.

- NSS Unit of Kathua Campus, in collaboration with the students welfare Kathua Campus University of Jammu under the banner of Azadi ka Amrit Kaal organized one-day Yoga workshop to commemorate International Yoga Day, 2023 and as a part of Common Yoga Protocol (CYP) launched by the Ministry of Ayush, Government of India for the students of Kathua Campus and University Institute of Engineering and Technology (UIET). The aim of the workshop was to lower participants' stress levels through meditation, raise their health standards and enable them to function better in today's cutthroat environment. The workshop was conducted by Dr. Vivek Sharma, Academic Coordinator, Kathua Campus & Vipassana expert and Mrs. Shalini Gupta, Yoga Instructor.
- Kathua Campus, University of Jammu organized a lecture on "Constitution: Values, Rights, Duties and Obligations" for students and faculty of the campus. Dr. Vijay Sehgal, Senior Assistant Professor, Department of Law, University of Jammu was the Resource Person.
- Department of Computer Science & IT, Kathua Campus, University of Jammu (JU) organized an industrial talk titled "Customer Communication Management (CCM)" for the students of the Campus. Mr. Shubham Sharma, Senior Composition Developer, BelWo Services (India) Private Limited, Mohali was the Resource Person. He enriched the students with his vast experience in the industry.
- University Institute of Engineering and Technology (UIET), Kathua Campus, University of Jammu organized an awareness talk titled "Domestic Violence and Women Empowerment" for the students of UIET, MCA, MBA and English departments of the Campus. Ms. Kiran Thakur (Advocate), Certified Cyber Security Expert and Human Rights Lawyer, enrolled with J&K State Bar Council with an experience of 10 years in practice at Jammu & Kashmir High Court and District Courts was the Resource Person. In her talk, she focused that the violence against women and girls is regarded as a global pandemic that affects one in every three women across their lifetime.
- University Institute of Engineering and Technology (UIET), Kathua Campus, University of Jammu organized an Industrial Webinar on "Data Analytics" under the Expert Lecture Series in collaboration with Froyo Technologies, Noida. Mr. Rajinder Kumar, Data Scientist, Froyo Technologies, Noida was the Resource Person. Mr. Kumar stressed on the importance of data analytics as it helps businesses to optimize their performances.
- University Institute of Engineering and Technology (UIET), Kathua Campus, University of Jammu organized a motivational talk on "Indian Economy: The Dawn of a New Era" under the newly launched Expert Lecture Series for the students of the UIET, MCA, MBA, and English departments of the campus. Mr. Kamal K. Sharma, Founder and Director of Savefirst Investinsure Services was the Resource Person. Mr. Sharma is an author and a financial professional with over two and a half decades of corporate experience working with large financial institutions of international repute. His book, "The Piggy Bank Billionaire," has sold over 22,000 copies and is available in more than 300 libraries across the country. In his motivational talk, he inspired the students not to lose their courage despite difficult and adverse circumstances.
- University Institute of Engineering and Technology (UIET), Kathua Campus, University of Jammu organized a memorable Cultural Fest "Funanza", a student-driven activity that was

packed with fun, frolic, and a myriad of scintillating performances by students, alumni and local artists. The principals and teachers of different Higher Secondary Schools of district Kathua were invited for the programme. It was an effort to encourage the local talents and highlight the campus and UIET to increase admissions.

- University Institute of Engineering and Technology (UIET), Kathua Campus, University of Jammu organized a Maiden one-week “Environmental Consciousness Drive” wherein, more than 200 earthen water pots were placed in the campus premises including academic block, administrative block and hostels.
- University Institute of Engineering and Technology (UIET), Kathua Campus, University of Jammu organized a Blood Donation Camp for Thalassaemia child patients in the run-up to International Blood Donation Day in collaboration with Work for Blood Donor Society (WBDS), J&K. After proper donor screening and medical examination, all the voluntary donors, students, faculty members, and civilians of Kathua donated blood for the noble cause.
- University Institute of Engineering and Technology (UIET), Kathua Campus, University of Jammu organized a felicitation programme to honour and celebrate the exceptional achievements of the 12<sup>th</sup> standard students of Kathua District. The aim of the programme was to recognize the outstanding academic performance and commendable efforts of the students and inspiring them to continue their educational journey with determination and enthusiasm. The programme was a testament to UIET's commitment for recognizing academic excellence and promoting education in the region.



## KISHTWAR CAMPUS

The campus was established in January 2008 and was inaugurated in November 2010. Initially MSc IT was being run in the same Year. In 2011-12 two courses namely M.Sc Geology and M.A Kashmiri were started.

### Details of Academic Programmes offered in the Campus

- M.Sc IT
- MA Kashmiri

**Intake Capacity and total no. of students admitted (1<sup>st</sup> Semester/1<sup>st</sup> year) in each programme in the academic year 2022-23.**

Department	Intake Capacity	Total no. of students admitted in 1 <sup>st</sup> semester in academic Session (2022-23)
MSc. IT	20	11
MA Kashmiri	20	03

### Detail of Contractual Faculty

Name of the Faculty	Qualification	Experience in Years
Mr. Aftab Ahmed Mir	PG	01
Mr. Mutiyyab Farooq Mughal	NET	01
Ms. Sonam Sharma	MCA	01
Mr. Narinder Verma	MCA	03
Ms. Upma Sharma	MCA	01
Mr. Sachin Kumar	MCA	01
Mr. Kuljeet Singh	NET	03
Dr. Meer Tufail	Ph.D.	04
Ms. Rizwana Kouser	SET	04
Ms. Rabia Akhter	MA	02
Mr. Amir Ayoub Bhat	MA	02

## POONCH CAMPUS

Poonch Campus is the Youngest Campus among various Campuses of University of Jammu inaugurated on 15<sup>th</sup> of Feb, 2008 by the then Hon'ble Chief Minister of the state Jenab Gulam Nabi Azad and Vice-Chancellor Prof. Amitabh Mattoo. University Campus in Poonch is a remarkable step in the arena of Higher Education. 61.07 kanals of land stands transferred at the name of Poonch Campus. Construction work of two buildings i.e. Girls Hostel and Academic Block is going on but temporarily halted

### Programmes offered by the Department

- M.Sc. Sericulture.

### Thrust Areas of Teaching and Research

- Mulberry Physiology, Breeding and Genetics
- Silkworm Physiology, Breeding and Genetics

### Intake Capacity and total no. of students admitted (1<sup>st</sup> Semester/1<sup>st</sup> year) in each programme in the academic year 2022-23.

Name of the Programme	Intake Capacity	Total no. of students admitted in 1 <sup>st</sup> semester in academic Session (2022-23)
M.Sc. Sericulture	25	15

### Collaborations/Linkages:

Collaboration with Regional Sericulture Research Station, Central Silk Board, Miran Sahib, Jammu where P.G. Department of Sericulture send the students for "On Job Skill Training Programme" of 4-6 weeks every year . The students compile their work and submit their project work (report) in the Department.

### Healthy practice/practices of the Department, which Department wants to highlight

The Department carries out various activities and celebrates various important days like World Environmental Day, Biodiversity Day and carry out many Cleanliness drive (Swaachh Bharat Abhiyan) within the Campus and outside the Campus, various Co-curricular activities like motivation lectures for students for preparing for competitive exams by local resource persons, Quiz Competitions, Debate Competitions etc.

### Activities/Events organized:

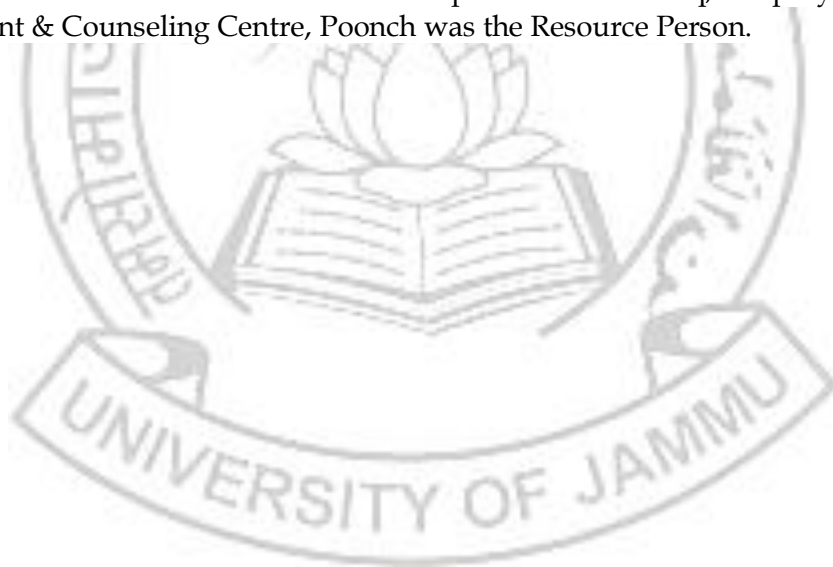
- Two-day workshop on "Mulberry Cultivation Practices". Dr. Jyoty Angotra, Lecturer, SKCGDC, Poonch was the Resource Person.
- Poonch Campus in collaboration with PHC, Chandak, Poonch organized an awareness programme on "Menstrual Health & Hygiene".

- “Farmer Classes” to aware farmers about the Sericulture being an agro based industry is mainly operated by rural masses living in villages. Janab Gulab Din Janyar, an Expert Farmer from Poonch is the Resource Person.
- Department of Sericulture, Poonch Campus in collaboration with the Department of Sericulture, SKC GDC Poonch organized an extension activity entitled “Adoption of Sericulture and Plantation Drive” for the implication of MoU signed by both the institutions. Prof. Gurvinder Raj Verma, HOD Sericulture & Coordinator Sericulture extension Unit, Department of Sericulture, SKC GDC Poonch was the Resource Person. The programme was attended by 50 students and 20 farmers along with 02 Panches of the NSSB blocks along with the teaching and non-teaching faculty of University and College. During the event, 15 identified potential sericulture farmers were registered under the adoption programme and 1000 mulberry saplings were distributed to the adopted farmers.
- One day awareness programme on “Drug Abuse: Awareness amongst the Youth” at Poonch. The aim behind organizing this program is to spread awareness regarding this menace among the general masses in district Poonch about the drawbacks and destruction being caused to society due to this drug abuse. On the occasion an awareness rally was also organized by the students of Offsite Campus.
- As part of the ongoing Education Tour for the students of Department of Sericulture, Poonch Campus, visited the following locations:
  - Department of Studies in Sericulture Science, University and Central Sericulture Research and Training Institute CSRTI Mysore.
  - Satellite Silkworm Breeding Station, Conoor, CSGRC, Hosur, Tamil Nadu.
  - NIO, University of Goa.
- The Students of the Department of Sericulture, Poonch Campus University of Jammu attended one-day training program in Sericulture organized by SKUAST Jammu and KVK Poonch under "Holistic Agriculture Development Programme" at Krishi Vigyan Kendra (KVK), Poonch. The Government of J&K has launched the Holistic Agriculture Development Programme to expand business and marketing opportunities for farmers with a well-planned Holistic Agriculture Development programme which is immensely helping Jammu and Kashmir to move towards historic transformation.
- Five-day Farmers Centric Training Programme about latest techniques in Sericulture and also signed a MoU with SKC-GDC Poonch with the aim to aware farmers about the Sericulture. Dr. Muzafar Mir Scientist Horticulture, KVK Poonch, SKUAST-Jammu; Dr. Rubia Bukhari, Campus officer Poonch Campus and Ms. Avinder Kour Incharge Poonch Circle, Poonch were the Resource Persons.
- NSS chapter, Poonch Campus in collaboration with the Rural Development Department, Loran Poonch organized a one-day Awareness Camp on Swachh Bharat Mission in Loran, Poonch. This awareness program was a part of the ongoing initiatives taken up by the Poonch Campus for the welfare of the people of the border district of Poonch. BDC member Mrs. Shameem Akhtar was the Chief Guest on the occasion. She said that for the success of any Scheme, the awareness among common people is the real mantra. Director Poonch Campus, Prof. Dipankar Sengupta said that organizing such events, which are directly associated with the common masses, will help eradicate problems from district Poonch. Block Development Officer, Loran, Mr. Zamood Ahmed (JKAS) while addressing the gathering said that the active participation



of premier educational institutes like Poonch Campus in such an awareness Camp on Swachh Bharat Mission Grameen will go a long way to create an atmosphere of positivity among the common people about the implementation of such Schemes announced by the governments for the benefit of people time to time.

- Poonch Campus in collaboration with SKC-GDC Poonch organized "Five Day Farmers Centric Training Programme" on latest techniques in Sericulture at adopted village Dingla, Poonch. Dr. Harjeet Singh, Incharge Mulberry circle, Tharakalwa, Kathua; Dr. Muzafar Mir, Scientist Horticulture, Krishi Vigyan Kendra, Poonch; Ms. Avinder Kour, Sericulture Assistant, Incharge Poonch Circle and Mr. Mohd Riaz, Incharge State Department of Sericulture, Lamberi circle, Rajouri were the Resource Persons.
- A field visit to Silk Technical Service Centre, CSTRI, Central Silk Board, Ministry of Textiles, Government of India, Miran Sahib, Jammu. During the visit, the Director Poonch Campus, Prof. Rakesh Vaid asked the students of the Department of Sericulture, Poonch Campus to pursue dissertation work with zeal and dedication. He also motivated the students about the importance of this ongoing dissertation program and how to become a successful Sericulturist and productive contribution at the "Nation Building".
- Poonch Campus in collaboration with District Employment & Counseling Centre, Poonch in order to create awareness amongst the students about the various employment schemes started by the Department of Employment UT Jammu and Kashmir organized an awareness programme for the students of the campus. Mohd. Rafiq, Deputy Director, District Employment & Counseling Centre, Poonch was the Resource Person.



## RAMNAGAR CAMPUS

The campus at Ramnagar was established in 2007. It started functioning from Govt. Degree College Ramnagar. The campus is headed by Director. Contractual faculty is engaged as per requirements.

### Programmes Offered in the Campus

- i) MCA
- ii) M.A Sociology

Interdisciplinary programs offered and details of the department/Disciplines involved: Guest lectures: Nil

Recognition/ Accreditation of the programs offered by the department (other than university): Nil

### Intake Capacity and total no. of students admitted (1<sup>st</sup> semester/1<sup>st</sup> year) in each programme in the Academic year 2022-23

Programme	Intake Capacity	Total no. of students admitted in 1 <sup>st</sup> semester in academic Session (2022-23)
MCA	25	05
MA Sociology	25	09

### Faculty Profile

Name	Qualification	Experience in Years
Dr. Deepika Sharma	Ph.D.	07
Ms. Swati Mahajan	M.Tech.	08
Ms. Ritika Bandral	M.Tech.	04
Ms. Megha Sharma	NET	04
Ms. Sakshi	NET	03
Mr. Rakesh Kumar	NET	08
Ms. Himani Sharma	MCA	04
Dr. Bachhiter Singh	Ph.D.	02
Mr. Jarnail Singh	NET	02
Ms. Robina Akhter	NET	04

## REASI CAMPUS

The Reasi campus, University of Jammu has been functioning in the District Reasi, since 2007 with the objective of getting the higher education to the deserving students of the rural and far-flung areas of the State. Presently, the Campus is running in the DIET Complex at Reasi. The Campus is running one P.G. Course in Sociology with strength of about 40 students from the different far-flung areas of the District and the State. Besides, the regular class work, the campus also conducts Field Research Studies, Workshops, Invited Talks, Seminars, Presentations, Interactive Sessions and other Co-curricular activities for the students of the Campus. In addition to this, the Campus is also frequently nominated as the examination centers for the Under-graduate Examinations like B.Ed and other courses. The alumni of the campus have been working in diverse fields like in Higher education, Social welfare, school education, rural development etc. Students having passed out from this institution have qualified JRF/NET and some are pursuing Ph.D. in different premier institutions of high repute in the Country like University of Jammu, JNU, Punjab University, Chandigarh University etc. It is pertinent to mention here that this Campus is the only institution of higher learning for P.G. programmes at Reasi and has good potential for further academic growth of Campus in terms of teaching staff, infrastructure, library and computing facilities with wi-fi facilities. This shall be very beneficial in near future for the students and staff appointed at Campus in particular and public of the District Reasi, in general

### **Programmes offered by the Campus:**

MA Sociology

**Interdisciplinary Programmes offered and details of Department/disciplines involved:** Nil

**Recognition/Accreditation of the programmes:** Nil

### **Thrust Areas of Teaching and Research**

- Rural sociology
- Urban sociology
- Gender and society
- Environmental sociology
- Political sociology

**Intake Capacity and total no. of students admitted (1<sup>st</sup> semester/1<sup>st</sup> year) in each programme in the Academic year 2022-23**

Programme	Intake Capacity	Total no. of students admitted in 1 <sup>st</sup> semester in academic Session (2022-23)
MA Sociology	25	09

### **Faculty Profile**

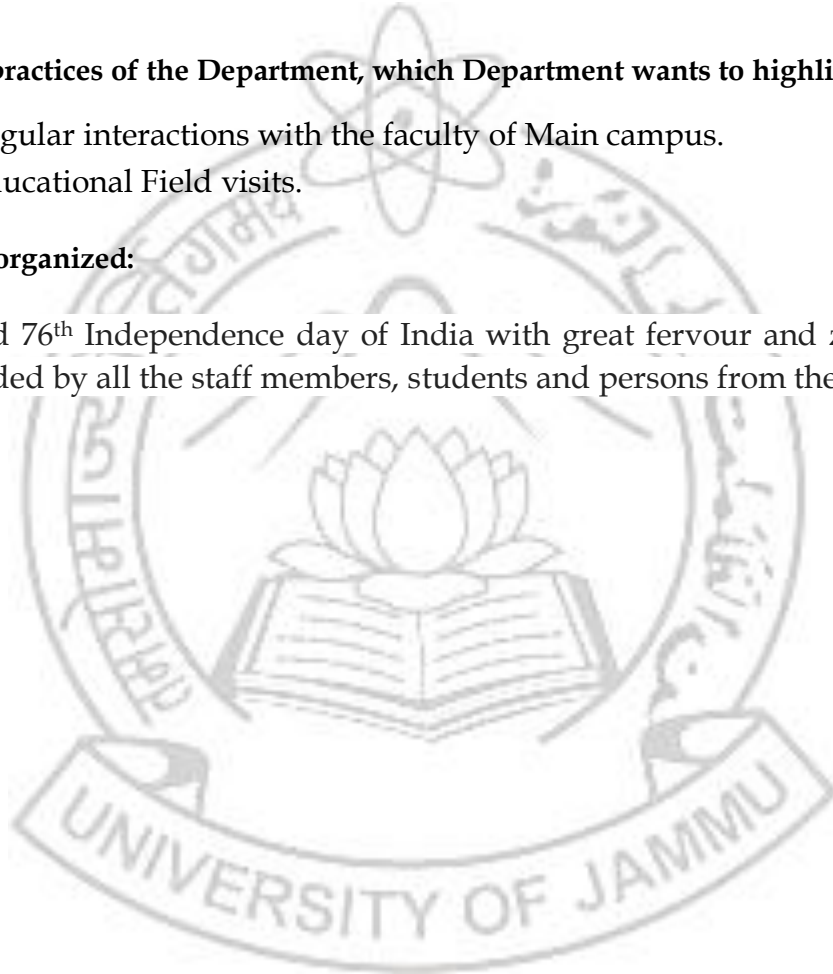
Name	Qualification	Specialization	Experience in Years
Dr. Ranjeet Kumar	Ph.D.	Rural Sociology, Classical Sociological Tradition	07
Dr. Nisha Sharma	Ph.D.	Gender and society, Sociology of Religion	05
Ms. Priya Sharma	NET/JRF	Classical Sociological Tradition, Social Statistics and Computer Analysis	02
Mr. Manoj Kumar	NET	Gender and society, Modernity, Culture and Society	02

**Healthy practice/practices of the Department, which Department wants to highlight**

- Regular interactions with the faculty of Main campus.
- Educational Field visits.

**Activities/Events organized:**

- Celebrated 76<sup>th</sup> Independence day of India with great fervour and zeal. The function was attended by all the staff members, students and persons from the civil society.



## UDHAMPUR CAMPUS

The Udhampur Campus was established in year 2013, The construction work has been initiated for the Udhampur campus. The Cutting/Leveling work for Boys Hostel, Girls Hostel and Academic Block has been completed.

### Details of academic programmes offered in the Campus

- M.Com.
- M.A Economics.
- B.Com.

### Intake Capacity and total no. of students admitted (1<sup>st</sup> semester/1<sup>st</sup> year) in each programme in the Academic year 2022-23

Programme	Intake Capacity	Total no. of students admitted in 1 <sup>st</sup> semester in academic Session (2022-23)
MA Economics	30	16
M.Com.	30	15
B.Com.	30	04

### Faculty Profile (Contractual)

Name	Qualification	Experience in Years
Dr. Mamta Sharma	Ph.D.	11
Dr. Ritika Sambyal	Ph.D.	06
Dr. Kamini Dutta	Ph.D.	06
Dr. Jyotsna	Ph.D.	02
Dr. Jatinder Kour	Ph.D.	02
Dr. Shilpa Gupta	Ph.D.	06
Dr. Sunita Kumari	Ph.D.	01

### Activities organized in the Campus:

- Udhampur Campus in collaboration with the University of Jammu Special Purpose Vehicle Foundation(UOJSPVF) and University Business Incubation and Innovation Centre (UBIIC) under the Udhampur Campus Capacity Building Series (UCCBS) organized a webinar on the topic “Derivatives: Innovation in the Era of Financial Market”. Professor Ashish Kumar Sana (Adjunct Professor of Commerce at the University of Calcutta) was the resource person. The webinar was attended by participants from different colleges and universities.
- Udhampur Campus in collaboration with University of Jammu Special Purpose Vehicle Foundation (UOJSPVF) and J&K Science, Technology and Innovation Council, Science and

Technology, Udhampur under Udhampur Campus Community Facilitation Centre (UCCFC) on the occasion of 75<sup>th</sup> 'Azadi Ka Amrit Mahotsav' organized one day workshop on "Health & Sanitation".

- Celebrated 76<sup>th</sup> Independence Day with great patriotic favour and zeal. Professor Parikshat Singh Manhas, Rector Udhampur Campus accompanied by Staff Members, Students and Non-teaching staff hoisted the tricolour followed by National Anthem. Local people from the adjoining villages also joined in the celebrations.
- A webinar in collaboration with the University of Jammu Special Purpose Vehicle Foundation(UOJSPVF) and Udhampur Business Incubation and Innovation Centre under the Udhampur Campus Capacity Building Series (UCCBS) on the topic "SDGs Vs. ESGs: What is the Better Measure of Sustainability". Dr. Shyam Sharan Garg, General Manager & Head of the Department, Environment & Social Management Unit (ESMU), Multilateral Funding & Procurement, Rajbhasha & MR for ISO 9001 in IIFCL, Government of India was the Resource Person. A total of 58 participants including students and faculty members from different colleges and universities attended the webinar. Besides, many environmentalists and industrialists from all over India also attended the webinar.
- Udhampur Campus in collaboration with University of Jammu Special Purpose Vehicle Foundation (UoJSPVF) and University Business Incubation and Innovation Centre (UBIIC), University of Jammu under "Udhampur Campus Capacity Building Series (UCCBS)" organized the following webinars:
  - "Decentralized Finance in the Metaverse" by Mr. Deep Sagar Verma, Assistant Professor, CC-FMS & RIC, Department of Fashion Management (FMS), National Institute of Fashion Technology (NIFT), Ministry of Textiles, Government of India.
  - "Fin Tech Industry in India: A Way Forward" by Prof. Krishan Awatar Goyal, Department of Business Finance and Economics, Jai Narian Vyas University, Jodhpur.
  - "India @ 75: Skill Development of Youth and Job Prospects" by Prof. KC Baiju, Registrar, Dean (SGS), Dean (SHSS), Professor and Head of the Department of Economics, central University of Kerala, Kasaragod, Kerala.
  - "Contemporary Issues in Financial Inclusion" by Dr. Prateeksha Maurya, Assistant Professor, Indian Institute of Management, Jammu.
- Udhampur Campus in collaboration with the Green India Initiative Pvt. Ltd. (GI IPL), Mumbai, Maharashtra organized a one-day event for the distribution of Solar Study Lamps to the rural students of the Government Schools located in the vicinity of the Udhampur campus. On the occasion, Mr. Sachin Yashwant Shigwan - THE SOLAR MAN OF INDIA, Director- Green India Initiative Private Ltd. (GI IPL), a for-profit social enterprise that has developed expertise in rural electrification through renewable energy projects since 2014, was the chief Entrepreneur who enlightened the young schools children with his vision and mission of lighting up more than 1000 villages by 2025 in India. As many as 100 solar study lamps procured from the donor organizations namely EY- GDS and Goodera were distributed to the students from village Garnai who participated in the programme.
- Udhampur Campus under Udhampur Campus Community Facilitation Centre (UCCSC) for the welfare and upbringing of the society specifically rural women organized one-day Women Empowerment Training Workshop on "The Art of Kaleera Making". Mrs. Bimla Devi, a

progressive entrepreneur and Kaleera making artist of Garnai Lotta, Udhampur was the Resource Person who imparted training to the target group of about 20 young women of the area.

- Udhampur Campus in collaboration with PG Department of Orthodontics, Indira Gandhi Government Dental College & Hospital (IGGDCH), Rehari Chungi, Jammu under the community facilitation Centre (UCCFC) organized free Oral Health Check-up Camp. Dr. Akshay Gupta, Professor and Head, PG Department of Orthodontics, Indira Gandhi Dental College and Hospital (IGGDCH) along with a team of seven dental experts including Dr. Faisal Arshad, Dr. Vikas, Dr. Reyaz Ahmed, Dr. Anurag JB, Dr. Ahtisham Ishtiyaq Khan, Dr. Ameetpal Singh, and Mr. Bikram Singh offered their services for the dental check-up of the local community of Garnai Lotta, Udhampur. Approximately 150 patients, including local villagers, kids from government schools and students from Udhampur Campus participated in the camp. They all received free treatment as well as guidance from dental professionals during the camp.
- Udhampur Campus in collaboration with CSIR-IIIM-Technology Business Incubator, Jammu organized awareness campaign on “Innovation, Incubation, Startups and Hackathon”. Dr. Saurabh Saran, Principal Scientist, CSIR-IIIM & PI, IIIM-TBI, Jammu and Er. Ankush Varma, Coordinator, IIIM-TBI, CSIR-IIIM, Jammu were the Keynote Speakers. They highlighted the importance of “Role of TBI in building startup ecosystem in Udhampur”.
- Udhampur Campus in collaboration with Government Ayush Dispensary, Malhar, Udhampur organized one-day “Yoga for Meditation and Fitness Camp” for Faculty Members, Students and local residents. The camp was organized under the supervision of Dr. Shefali Sharma (Medical Officer) and Dr. Shameem (Medical officer) along with her team of Yoga therapist, Mr. Sunil Bhogale and Mr. Baldev Sharma (Multitasking worker). The purpose of the camp was to raise awareness of both physical and mental fitness among the general masses, especially students as meditation and yoga can develop the ability to cope with stress and can maintain calm in pressuring situations.

