



- **Prof. M. Balakrishnan**, (Computer Science & Engineering, IIT Delhi) delivered a lecture on “ASISTECH: Assistive Technology Solutions for Mobility & Education of Visually Impaired” on Wednesday, 23rd October, 2019.
- **Prof. Nicholas Smirnoff** (University of Exeter, United Kingdom) delivered a lecture on Friday 22<sup>nd</sup> November 2019 on the topic of 'Vitamin C'.
- **Prof. James F. Sallis** (University of California, San Diego, USA) delivered a lecture on Wednesday, 19/02/2020 on the topic- “Why and how to create physically more active World”

**B) MEA (Ministry of External Affairs) sponsored talk:** In this we host the talk of former Indian Ambassadors to different countries. The visit of ambassador to the Central University of Rajasthan is being sponsored by Ministry of External Affairs. In the year 2018-2019 we invited one speaker under this series-

- **Dr. Shri Achal Malhotra**, Former India's ambassador to Armenia and Georgia, delivered a lecture on " India's Foreign Policy: 2014-2019: Landmarks: Priorities and Challenges Ahead" on Monday, 22nd July 2019.

**Other Distinguished Talks:** In this we invite speakers from different field including science, art, literature, music and dance. In the year 2018-2019 we invited one speaker under this series-

- **Swami Mukundanandji** (A motivational leader and an Alumnus of IIT Delhi and IIM Kolkata) delivered a lecture on Friday, 08<sup>th</sup> November 2019 on the topic- “7 Mindsets for Success, Happiness and Fulfilment”.
- **Prof. Anup K Pujari** (National Law School, Bangalore) delivered a lecture on Monday, 10<sup>th</sup> February 2020 on the topic- “Let's Think about Thinking”.
- **Dr. Sheela K. Ramasesha** (Scientist, IAS, Bengaluru) delivered a lecture on Friday, 28<sup>th</sup> February 2020 on the topic- “Power Scenario in India – Role of Renewable Resources”

## **EK BHARAT SHRESTHA BHARAT**

**The Central University of Rajasthan** highlights the holistic development and wellbeing of the student through continuous engagement in various cultural and sports events and regular club activities, while underlining the focus of academic growth and development. The University started the **Ek Bharat Shreshtha Bharat** with full enthusiasm in line with the five basic objectives specific under this programme. The University conducted various programme to highlight the cross-cultural understanding among the student community of the Central University of Rajasthan about the paired state Assam.

In the month of October 2019, a dance performance of the state of Assam “**SATTRIYA DANCE**” by Ms. Anita Sharma and her troupe from SPIC MACAY was organised in the University auditorium. It is a dance-drama performance art with origins in the Krishna-centered *Vaishnavism* monasteries of Assam and attributed to the 15th century Bhakti movement scholar and saint Mahapurush Srimanta Sankardev. Ms. Sharma explicated the specific body movement of this Classical Assamese dance form. Professor Arun K Pujari, Vice-Chancellor of the Central University of Rajasthan, and Mrs. Subhalakshmi Pujari handed over the mementos and felicitated all the members of the dance troupe.

The Central University of Rajasthan have students, faculty members and staffs from more than 27 different states of India. This composition in itself is a reflection of the **Unity in Diversity** and **Spirit of National Integration**.



To initiate the club activities and students' exchange programme, a **written quiz was conducted** for selecting students for the exchange program on 20<sup>th</sup> November 2019. All the students of the University were informed about the EBSB objectives, exchange programme and they were invited to attend a quiz competition. The theme of the Quiz was on history, language and culture of Assam. The quiz comprised of 20 MCQ, each carrying 1 mark. A total of 246 students appeared for the written quiz. The top 50 students were selected for the exchange program.

The EBSB club was organised with the students selected in the quiz competition and also those shown interest in the EBSB programme. Another mail intimating about the EBSB club activities was sent to all the students for their participation and active involvement. This was another campaign to engage more students as they can join and become a club member. Under this club, EBSB day is celebrated on every first Wednesday of the month.

The various activities planned by the members of the EBSB club:

1. Screening of the Assamese movies
2. Photography exhibition on different themes (e.g. wild life, culture, food, festivals, dress, indigenous people) of paired states.
3. Creative writing/ painting on paired states and posting the same as Wall Magazine
4. Food festivals and putting up Tea stalls to showcase the cuisine of the paired state
5. Inviting eminent Assamese scholars in the field of arts, music and literature

Various Club activities were initiated by engaging the students. Further club activities were promoted through various group discussions, creative art performances and exchange programme.

**The EBSB club activity** was conducted on 23<sup>rd</sup> January 2020. The faculty coordinator of the club presented the objectives of EBSB programme and encouraged the student to understand and celebrate the true value of "unity in diversity" of India. Two groups of students representing the state of Assam and Rajasthan respectively, made power-point presentations highlighting- an overview on the people, language, culture, natural resources, history of both Assam and Rajasthan. Students were able to have a glimpse of both the states from the presentations, and could make an observation about the specific features and uniqueness of both the states.

The Presentation was followed by a **Screening of an Assamese Movie** titled '**Village Rockstar**' (Written and Directed by Rima Das) in the lecture hall of 4A3 Building, Department of Biotechnology at 5.30 PM. '**Village Rockstar**' is a national award-winning Assamese movie that delved into the life that exists as of now in the remote villages in Assam. The main protagonist of the movie is a little girl, who was always in the company of boys of her age group and along with them she aspires to be a '**Village Rockstar**'. The movie portrayed societal pressure on single mother of a girl child, and the Assamese tradition of celebrating a girl's puberty. It also makes one feel the gravity of flood affected villages, the mother of the girl child paying no heeds towards any kind of societal pressure and aspires to fulfill her daughter's dream. This led to the manifestation of the sense of responsibility and freedom the girl child enjoys. Students got familiar and felt closer with the life and culture of Assam educing a sense of "Assam Calling". The whole club event of two hour was anchored by two students of the club.

The next club activity '**Caption Writing Competition**' was organised in a Lecture Hall of Department of English on 5<sup>th</sup> February, 2020. As part of the EBSB Club activity, a literary event was held where students were shown pictures in 9 slides; each of the slides had a picture showcasing Rajasthan and Assam. The





students were divided into two groups (Assam & Rajasthan); each student in the Assam group had to write a caption for the pictures exhibiting Assam and Rajasthan group for Rajasthan. Subsequently, they were made to discuss amongst themselves and come up with the best captions, they think that suit the pictures best. The students showed their enthusiasm and were fully engaged in the activity. They felt they got familiar with the diversity the two states share. ***Students' participants of 'Caption Writing Competition' with EBSB Committee Members***

Various Club activities are initiated by engaging the students. Further club activities are promoted through various group discussions, creative art performances and exchange programme.

Unfortunately, the ***Students' Visit to Universities in Assam***- Tezpur University, Assam University and Assam Don Bosco University as part of the students' exchange programme through finalized and planned during March 2020, it could not be carried out due to the pandemic situation.

To mark the occasion of celebrating the ***University Annual Day***, special focus was made on the dance performances from Assam and Rajasthan. A colourful event was organised on the evening of 3<sup>rd</sup> March, 2020 at the University Auditorium. A group of students presented the ***Rajasthani Fusion Dance (Chari, Kalbelia, Ghoomar)***. The programme was designed in series of dance performances to represent the varied folk dances of Rajasthan. The student anchor of the programme presented the brief description of each of these dance form.

1. ***Chari*** is prominent dance form of *Gujjar* and *Siani* community of Kishangarh and Ajmer.
2. ***Kalbelia, Ghoomar*** are very importance folk dances of Rajasthan that has become world famous for its own style of body movements, colourful dress and balancing act.

***Assamese Fusion Dance (Bihu and the culture of Tiwa, Karbi tribes)*** was staged by a group of students from north-eastern states. They presented various forms of dance that are prominent in the north-eastern region. Dressed in Assamee attire, the students explained about the importance of *Bihu* festival. The dance form reveals the culture, indigenous practices and traditions of *Tiwa, Karbi* tribes of Assam.



## School of Architecture

### DEAN: PROF. NEERAJ GUPTA

The School of Architecture envisions becoming a Centre of excellence and an important hub of knowledge exchange on all matters related to sustainable development of human habitat. The School is committed to teach and enhance regenerative

architecture and aims to develop a repository of knowledge documenting historical and traditional wisdom systems of the community in hot and arid desert region. The focus area for the School is waste, water, energy, and human productivity through the lens of sustainable architecture. The School envisions developing unique capacity building programs for continued education of teachers and professionals. Job oriented vocational education and skill development courses are initiated in specialized fields.

#### Department

- Department of Architecture
- DDU Kaushal Kendra

### Department of Architecture

[Head: Prof. Neeraj Gupta]

#### Programs Offered

The Department of Architecture is presently offering Masters in Architecture (Sustainable Architecture) programme and Ph.D.

- **M. Arch.** (Sustainable Architecture)  
Masters in Architecture (Sustainable Architecture) programme focuses on various aspects of sustainability in architecture field like ecology and environmental management, historical and community perspective, sustainable neighbourhood planning, watershed management, waste management, renewable energy technologies, building simulation, acoustics, thermal comfort, project management, and traditional and modern building technologies, to address the contemporary challenges in the field of Interiors, Architecture, Urban Design, and Urban Planning.
- **Ph.D.**  
The Department offers Ph.D. programme and has currently one scholar enrolled focusing majorly on inclusive approach in planning and gender-related issues.

#### Faculty

Name	Designation	Area of Specialization
Prof. Neeraj Gupta	Professor	Architecture, Town Planning, Interior Design
Ar. Ritu Bhargava Rai	Associate Professor	Urban Design, Architecture, Interior Design
Ar. Vivekanand Tiwari	Assistant Professor	Environmental Planning, Architecture, Water Management
Ar. Sunil Sharma	Assistant Professor	City Planning, Architecture
Ar. Sunny Bansal	Assistant Professor	Infrastructure Design and Management; Transportation Planning and Mangement; Spatial Econometrics; Peri-urban Management
Ar. Vidhu Bansal	Assistant Professor	Urban and Rural Planning, Planning for smart cities, Urban Design, Place-making, Planning for heritage cities, Pattern language and New Urbanism, Space syntax analysis



Name	Designation	Date
<b>Ar. Gagan Sharma</b>	Senior Architect, co-founder Promandi, Jaipur <i>(For Design Jury)</i>	12.09.2019
<b>Ar. Pushpak Pandit</b>	Senior Urban Designer, AAKalpan Architects, Jaipur <i>(For Design Jury)</i>	12.09.2020
<b>Prof. (Dr) Ranjana Mittal</b>	Department of Architecture School of Planning & Architecture, Indraprastha Estate, New Delhi-110002 <i>(For Design Jury)</i>	02.12.2019
<b>Prof. VS Adane</b>	Professor, Department of Architecture & Planning, VNIT, Nagpur <i>(For Design Jury)</i>	16.12.2019
<b>Prof. Rina Surana</b>	Professor, Department of Architecture and Planning, MNIT Jaipur <i>(For Design Jury)</i>	16.12.2019

## Conference/Workshop/Symposium organized

### Workshops

Workshop for EBSCO Information Services “Improvising & Redesigning Search Strategies” at Department of Architecture on 26. September 2019.

### Seminars

- **Ar. Gagan Sharma** (Senior Architect, co-founder Promandi, Jaipur) External faculty for feedback and evaluation of M. Arch Sustainable Architecture for Sustainable Architecture Design 1 (DSA 01) on 12.09.2019.
- **Ar. Pushpak Pandit** (Senior Urban Designer, Jaipur) External faculty for feedback and evaluation of M.Arch Sustainable Architecture for Sustainable Urban Design Studio (ARC 704) on 12 September 2019.
- CADD Centre Training Services – Ajmer conduct a seminar on “**Revit Software**” for B.Voc. & Architectural students at the Department of Architecture on 08 November 2019.
- **Prof. (Dr) Ranjana Mittal** (SPA New Delhi) Design studio to conduct a lecture on Sustainable Urban Design and conduct a review for Masters Students on 02.12.2019.
- **Prof. VS Adane** (VNIT, Nagpur) External Expert for the End Semester Exam Evaluation and feedback for students of Design Review (ARC606) on 16.12.2019.
- **Prof. Rina Surana** (MNIT Jaipur) External Expert for the End Semester Exam Evaluation and feedback for students of Design Review (DSA-05) on 16.12.2019.
- **Ms. Swagatika Mishra** (Ph.D. Scholar) presented a Seminar on “**The concept of livability**” on 17 October, 2019.
- **Ar. Betty Lala** (Ph.D. Student Kyushu University Japan) presented a Seminar on “Study of indoor thermal comfort and its impacts experienced by a child in learning environment” on 10 February, 2020.

### Other Academic Activities

- As contribution to One Student One Tree initiative launched by Hon'ble MHRD Minister Dr. Ramesh Pokhriyal Nishank, every student planted a tree on 13 August, 2019.
- Student Council Election Department of Architecture on 30 August, 2019.
- Poster Making Competition “**Avoid Single Use Plastic**” of M. Arch 4<sup>th</sup> Semester students Department of Architecture 11 September, 2019.



- Hon'ble Prime Minister of India Shri Narendra Modi's Interactive Session with Students in connection with Pariksha Pe Charcha 2020 (PPC 2020) 20.01.2020 Department of Architecture.
- Organization of cleanliness drives in campus with the active participation of students, faculty and non-faculty on 24.01.2020 at Department of Architecture.

### Site Visits and Educational Tours

- Village Choundri Visit organized under resource documentation exercise for M. Arch. 2<sup>nd</sup> Semester students on 25 September, 2019 led by Ar. Ritu B. Rai Sunny Bansal & Ar. Vidhu Bansal.
- Visit Jaipur Mall, City organized for M. Arch. 2<sup>nd</sup> semester students as a case-study Design (DSA-02) on 12 January, 2020.
- Site visit of IIM Udaipur, traditional havelis, forts, and lakes in Udaipur city led by Ar. Sunny Bansal & Ar. Vidhu Bansal 1 -4 October, 2019.

### Awards

Ms. Gracy H. David (M. Arch. students of batch 2017-19) received Gold Medal at the Convocation 2019 of Central University of Rajasthan.



**Ar. Betty Lala** (Ph. D. Student Kyushu University Japan) presented a Seminar on 10<sup>th</sup> February 2020.



**Prof. (Dr) Ranjana Mittal** (SPA New Delhi) lectures on Sustainable Urban Design and conduct a review for Masters Students.

### Deen Dayal Upadhyaya KAUSHAL Kendra

(Knowledge Acquisition and Up gradation of Skilled Human Abilities and Livelihood)

#### [DIRECTOR: PROF. NEERAJ GUPTA]

In August 2015, the University received approval to establish DDU KAUSHAL Kendra with a sanction of Rs. 3.7 crores. Presently the DDU-KK is functional under the School of Architecture of the University. Five batches of B. Voc. (Interior Design) program have completed their programme. The batch of 2018 is scheduled to receive their degree certificates in the forthcoming convocation in 2019.



## Programs offered

Besides, short term training courses, presently the DDUKK offers B. Voc. (Interior Design) programme. This is a three years (six semesters) programme with multiple entry and exit option. The modular structure of the programme allows a student to pass out with a set of skills and certificate. The certificates awarded by the university are:

1. On successful completion of one year's programme: Diploma in Interior Design
2. On successful completion of two years' programme: Advanced Diploma in Interior Design
3. On successful completion of three years' programme: B. Voc. (Interior Design)

## Faculty

Name	Designation	Area of Specialization
Prof. Neeraj Gupta	Professor	Architecture, Town Planning, Interior Design
Ar. Yoganshu Girdhar	Assistant Professor	Architecture, Interior Designing
Ar. Nazia Kathat	Assistant Professor	Art, Interior Designing

## Academic Activities

### Expert lecture/Seminar/Visit

Name	Designation	Date
Ar. Dheeraj Kumar	Spacegenesis Architects, Jaipur (Internship Review Feedback ,INT-04)	09.08.2019
Ar. Jitendra Chaudhary	Design Desk, Jaipur (Internship Review Feedback ,INT-04)	09.08.2019
Er. Lokesh Kaushik	Executive Engineer, CPWD (Specific guest lectures Building Material and Techniques)	01.08.2019
Ar. Poonam Sharma	Architects (Specific Guest-Lectures Bid-16)	23.04.2020

### Workshops

Workshop for EBSCO Information Services "Improvising & Redesigning Search Strategies" at Department of Architecture on 26 September, 2019.

### Other Academic Activities (Educational Tour)

Site visit at **Amer Fort** in Jaipur District organized for B.Voc. 3<sup>rd</sup> & 5<sup>th</sup> semester student as a part of "Measured drawing and space and building (OSL-03, 05)" on 27 September, 2019 facilitated by Ar. Yoganshu Girdhar, Ar Nazia Kathat, Ar. Sunny Bansal, Ar. Vidhu Bansal & Ms. Swagatika Mishra.

### Awards/Achievements

- **Mr. Ravi Kant**, student of B. Voc. Batch 2016-19 (July) received Gold Medal in Convocation'19 of Central University of Rajasthan.



- **Ms. Yashmita Sharma**, student of B. Voc. Batch 2016-19 (July) received 1<sup>st</sup> Position in 'Armstrong Award for Excellence in Vocational Education' in Convocation'19 of Central University of Rajasthan
- **Ms. Riya Khandelwal**, student of B. Voc. Batch 2016-19 (July) received 2<sup>nd</sup> Position in 'Armstrong Award for Excellence in Vocational Education' in Convocation'19 of Central University of Rajasthan.



**Ms. Yashmita Sharma** Student of B. Voc -2016-19  
Receiving the Certificate of Merit in  
Armstrong Award on the 6<sup>th</sup> Convocation' 19 of  
Central University of Rajasthan



**Mr. Ravi Kant** Student of B. Voc. -2016-19  
Receiving the Certificate of Merit in the 6<sup>th</sup>  
Convocation' 19 of Central University of Rajasthan





## School of Chemical Sciences and Pharmacy

### DEAN: PROF. AMIT KUMAR GOYAL

The School of Chemical Sciences and Pharmacy hosts two departments viz. Department of Chemistry and Department of Pharmacy, where both the departments are being supported by Department of Science and Technology, under Fund for Improvement of Science and Technology Infrastructure (DST-FIST). The School has the aim to disseminate quality education in both the disciplines and execute research in the allied fields. The School bridges one pure science with the other applied science promotes interdisciplinary research and caters relevant courses for the industry, for the benefit of all the stakeholder of the School.

#### Department

- Department of Chemistry
- Department of Pharmacy

### Department of Chemistry

#### [Head: Dr. Easwar S.]

The Department of Chemistry is committed to research and teaching since its inception in 2010. The Department started master's in science (Chemistry) 2-year programme in 2010 and immersed with full-time Ph. D. programme in 2012, Integrated M. Sc. (Chemistry) 5-year programme in 2013 and Integrated M. Sc. B. Ed. (Chemistry as Major) 3-year programme in 2015. The Ph. D. programme in Chemistry aims to train the students with basic and cutting-edge research. We have crossed traditional vertical boundaries of scientific disciplines in past 10 years of journey and emerged with drug designing, organometallic chemistry, bioorganic and bio-inorganic chemistry, materials chemistry, theoretical chemistry in line with gaining more strength towards asymmetric synthesis, heterocyclic/macrocyclic chemistry and organic spectroscopy. The Department is funded by DST-FIST and faculty received research grants from various funding agencies such as CSIR, DST, UGC, etc.

#### Programs offered

- Ph. D. in Chemistry
- M. Sc. Chemistry (2-Year)
- Integrated M. Sc. Chemistry (5-Year)
- Integrated M. Sc. B. Ed. Chemistry (3-year)

#### Faculty

Name	Designation	Area of Specialization
Prof. R. T. Pardasani (Superannuated on 31 July 2019)	Contractual Professor (from 13-12-2019)	Organic, Heterocyclic and Computational Chemistry
Dr. Easwar S.	Associate Professor	Asymmetric Synthesis and Organocatalysis
Dr. M. Bhanuchandra	Assistant Professor	Transition-Metal Catalyzed Organic Transformations and Synthesis of Organic Materials
Dr. Anuj K. Sharma	Assistant Professor	Bio-inorganic Chemistry, Inorganic Medicine, Coordination Chemistry



Dr. Thirumoorthi R.	Assistant Professor	Main Group Chemistry, Organometallic Chemistry
Dr. Partha Roy	Assistant Professor	Nanotubes, nanowires, optoelectronic of the nanomaterials
Dr. Ritesh Singh	Assistant Professor	C-H bond functionalization, Aryne Chemistry, Chemo-enzymatic Synthesis, Chemical Biology
Dr. Hemant Joshi	Assistant Professor	Synthetic Inorganic and Organic Chemistry, Molecular rotors and molecular machines, Catalysis
Dr. Rajagopala Reddy	Assistant Professor	Theoretical chemistry, Electronic structure theory
Dr. Chandrakanta Dash	UGC FRP Assistant Professor	Organometallic Chemistry and Homogenous Catalysis
Dr. Jony Saha	DST INSPIRE Faculty	Nanomaterials, Mesoporous materials and Catalytic applications

## Academic Activities

### Expert lecture/Seminar/Visit

Name	Event	Date
Prof. Pradeepta K. Panda	An Emerging 18 pi Isomeric Porphyrin Dye Ligand and its Core Expanded Analogues <i>University of Hyderabad, India</i>	01/07/2019

### Other Academic Activities

- A one-day "Department Day" symposium was organized in the memory of late Dr. Sunil G. Naik, former HoD, Chemistry and Dean, School of Chemical Sciences and Pharmacy, on 15 November, 2019.

### Extramural funding received

- Department of Science and Technology, Government of India, sanctioned Rs. 70.5 lakh under DST-FIST (Level 1 category) program for a period of five years (2016-2021).
- Department has various ongoing extramural funded projects of Rs. 3.50 Crore from different agencies of Government of India such as DST, CSIR, UGC etc.

### Equipment procured/Facility Available

- Gas Chromatography (Thermo Fisher Scientific)
- GC-MS (Thermo Fisher Scientific)
- HPLC (Shimadzu)
- UV-VIS (Agilent- Cary 100) and
- FTIR spectrometer (PerkinElmer)
- Ocean optics UV-VIS Spectrophotometer
- Element Analyser (Thermo Fisher Scientific)
- Fluorescence Spectrophotometer
- Electrochemical Workstation (Metrohm)
- Glove Box (Labconco Corporation)
- Polarimeter
- Computer Lab



## Awards/Achievements

Dr. Easwar S.	Received a DST, India – Academy of Finland Collaborative Mobility Research Grant to carry out a project on “Studies on the Asymmetric Mannich and Michael Addition Reactions Catalyzed by a Folding Bifunctional Organocatalyst” in collaboration with Prof. Petri Pihko at the University of Jyvaskyla, Finland during Aug. 4 – Nov. 1, 2019.
Mr. Ajit Kumar Jha (Research Scholar)	Won the best poster prize in the JNOST symposium held in Oct. 2019 at University of Delhi.
Ms. Surbhi Jain (Research Scholar)	Awarded first prize in rapid presentation at University level on National Science Day-2020, Central University of Rajasthan.
Ms. Monika Rana (Research Scholar)	Selected for CSIR-SRF (direct).
Ms. Santosh Kumari (Int. M. Sc.)	Selected for M. Sc. Chemistry program at the Indian Institute of Technology, Kanpur (IIT, Kanpur), Kanpur, UP.



*One-day “Department Day” symposium, Dept. of Chemistry*



*Poster presentation at Dept. of Chemistry*



## Department of Pharmacy

### [Head: Prof. Amit Kumar Goyal]

The Department of Pharmacy was established in year 2012 with M. Pharm. in Pharmaceutical Chemistry and Ph. D. in Pharmacy with an aim to impart quality education in the relevant field and train the students for novel research protocols. The Department is recognized by Pharmacy Council of India and All India Council of Technical Education and has also running M. Pharm. in Pharmaceutics since 2017. The Department has the dedication to excel in the pharmaceutical domain and is establishing itself on numerous fronts in this short span of time. The pass outs have been successfully placed in various government and industrial houses, just after their course completion.

### Programs Offered

- Ph. D. in Pharmacy
- M. Pharm. in Pharmaceutical Chemistry
- M. Pharm. in Pharmaceutics

Name	Designation	Area of Specialization
Dr Amit Kumar Goyal	Professor	Pharmaceutics
Dr Vipin Kumar (On Lien since March 2020)	Professor	Medicinal Chemistry
Dr Devesh M Sawant	Assistant Professor	Medicinal Chemistry
Dr Ruchi Malik	Assistant Professor	Medicinal Chemistry
Dr Kaisar Raza	Assistant Professor	Pharmaceutics
Dr Umesh Gupta	Assistant Professor	Pharmaceutics

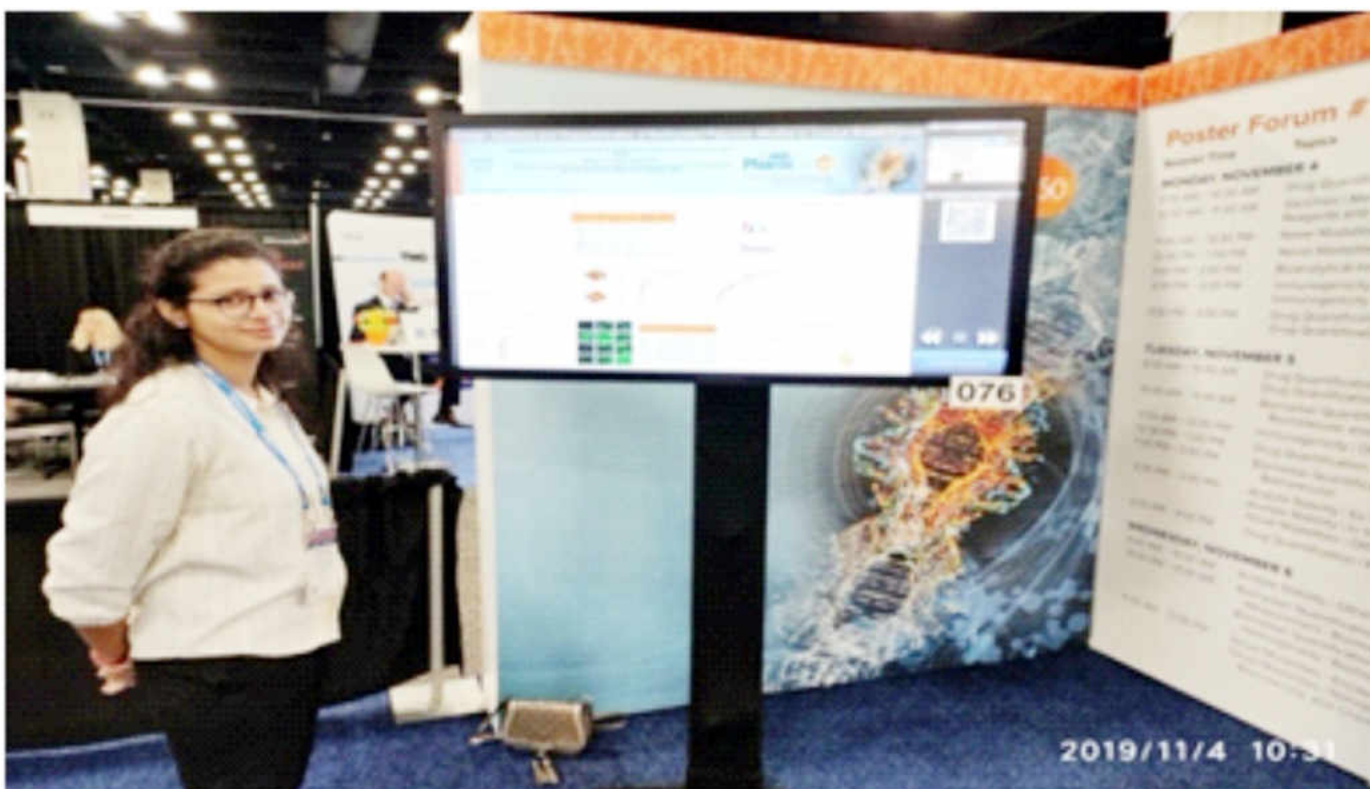
### Academic Activities

#### Extramural funding received

Various extramural funded-projects with total amount more than 300 lakhs have been awarded to the Department of Pharmacy by different government funding agencies like DST, DST-FIST, DST-Nanomission, ICMR, CSIR, DBT, UGC and SERB.

Dr. Umesh Gupta	AAiPS Distinguished Young Educator and Researcher Award 2019 given during AAPS Annual Meeting 2020 at San Antonio Texas USA. International Travel Grant from DST SERB to attend the AAPS Annual Meeting 2020 at San Antonio Texas USA (November, 2019).
Ms. Sarita Rani (Research Scholar)	DBT travel grant to attend and present Ph.D Research Paper at AAPS Pharm Sci 360 2019, San Antonio, Texas, USA on 2 October, 2019
Mr. Lokesh Kaushik (Research Scholar)	1 <sup>st</sup> prize in poster presentation in National Seminar on “Development of Monographs on Herbal Drugs and Phytopharmaceuticals” in association with Indian Pharmacopoeia Commission (IPC) on 23 November, 2019 at Maharishi Arvind College of Pharmacy, Jaipur, Rajasthan
Mr. Virendra Nath (Research scholar)	SERB Travel grant and CSIR Travel Grant to attend “International Diabetes Federation Congress-2019” at Busan, South Korea from 02 December, 2019 to 06 December, 2019





*Sarita Rani, Research Scholar, Pharmacy, presenting poster at AAPSPHarmSci (American Association of Pharmaceutical Scientists) annual meeting 2019 at San Antonio Texas, USA with the support of International travel grant received from DBT, Govt. of India*



*Dr. Umesh Gupta receiving AAIIPS Young Educator and Researcher Award 2019 by American Association of Indian Pharmaceutical Scientists in San Antonio Texas USA*



## School of Commerce and Management

### DEAN: PROF. PRAVEEN SAHU

Less than a decade old, the School of Commerce and Management, is ingrained with values such as diversity, inclusiveness, mutual respect, collaboration and academic excellence. The School teaching and learning through innovative pedagogies and student-centric approaches. People with the sound academic background, strong research orientation and complementary skill-sets have been handpicked as Faculty members of the School. With high potential for growth, the School is prepared to establish itself as a center of excellence in the discipline of commerce and management education and research. promotes

#### Department

- Department of Commerce
- Department of Management

### Department of Commerce

#### [Head: Prof. Praveen Sahu]

The corporate world is dynamic and the changes are so severe that a series of new concepts and techniques are fast coming into being and the earlier and traditional ones are becoming obsolete. This situation has given rise to the need for restructuring the curricula of commerce education at all levels so as to make it meaningful and compatible with the changing business scenario and introduce the concepts and techniques among the commerce Faculty to further channelize and streamline their contribution. The Department of Commerce is committed to impart quality knowledge as per global standards.

#### Programs offered

- Ph. D. in Commerce
- M. Com.

#### Faculty

Name	Designation	Area of Specialization
Prof. Praveen Sahu	Professor	Marketing, Human Resource Management, Organizational Behaviour
Dr. Sushila Kumari Soriya	Assistant Professor	Finance and General Management
Dr. Neha Seth	Assistant Professor	Finance and General Management
Dr. Ruchita Verma	Assistant Professor	Accounting, Finance and General Management
Dr. Sanjay Kumar Patel	Assistant Professor	Accounting and Taxation

### Academic and Extension Activities

#### Expert Lecture/ Visiting Faculty/ Resource Persons from Industry

Name	Event	Date
Dr. L.N. Koli	Faculty of Commerce, Dayalbagh Educational Institute (Deemed to be University) Agra <i>Strategic Preparation of UGC-NET and Competitive Examinations</i>	12/03/2020
Prof. A.K. Singh	Vice Chancellor, Sri Sri University, Cuttack, Odisha <i>Development of Research Proposal and Research design</i>	09/09/2019



## Conference/Workshop/Symposium organized

- Five Days teaching and learning course “Innovative Teaching Practices in Management and Commerce” was Coordinated by Dr. Sushila Kumari Soriya under PMMMNMTT, Teaching and Learning Center, Central University of Rajasthan, Jaipur (21-25 January, 2020).
- Webinar on “The Road Ahead: The Future of Indian Business (Impact of COVID 19 on Managerial Decisions)” was organized by Dr. Sanjay Kumar Patel, in collaboration with Bhavdiya Institute of Business Management, Faizabad and Indian Accounting Association, Avadh Branch, Ayodhya, (7 June, 2020).
- Organized Skill development activities for M. Com-I and M. Com-II on Case Study and Report Writing (Oct. 8, 2019), Mock Interview: Financial Analyst in BHEL (5 November, 2019), Business Presentation (6 November, 2019), Organizing Business Meeting (13 November, 2019) and Preparation of Agenda and Minutes of the Meeting (19 November, 2019) organized by Dr. Sanjay Kumar Patel at Department of Commerce, CURaj.
- Organized Entrepreneurship development activities for M. Com-II on “Start-up and New Venture: Entrepreneurial Thinking” organized by Prof. Praveen Sahu at Department of Commerce, CURaj (October 2019).

## Other Academic Activities

### Awards/Achievements

- **Major Project, Co-investigator**, Dr. Sushila Soriya. “Digitalisation Enabling Delhi MSME's to Scale up for inclusive growth” ICSSR Impress, New Delhi. (August 30, 2019).
- **Best Paper Award**, Janaki Singh Rathore and Dr. Dhanraj Sharma, at RDA's 26th International Conference on 'Multidisciplinary Research & Global Innovation in Social Sciences, Management, Business, Education, Tourism & Technology', Goa (November 23-24, 2019).
- **Best Paper Award**, Dr. Ruchita Verma and Janaki Singh Rathore, at SIFICO International Conference on 'Risk Management in Banks and Financial Markets' organized by K. J. Somaiya Institute of Management, Mumbai (January 17-18, 2020).
- **Best Paper Award**, Shubham Pandey & Vishnu Vaishnav. “Business Plan on Online Transport Management System” at DAV PG College, BHU Varanasi. (May 21, 2020).
- **1<sup>st</sup> Price**, Santosh Sahu, Quiz Competition organized by Work for Unity collaboration with Centre for Raahat (January 2, 2019)
- **2<sup>nd</sup> Prize**, Akhil Kumar Choudhary, Poetry Recitation in Hindi Pakhwada organized by Department of Hindi, CURAJ (September 4, 2019).
- **2<sup>nd</sup> Prize**, Vishnu Vaishnav, Hindi Vocabulary Competition in Hindi Pakhwada organized by Department of Hindi, CURAJ (January 4, 2019).

## Other Achievements

### Students Cleared NET-JRF- (2019-20)

Sr. No.	Name of the Student	Father's Name	Batch	NET-JRF
1	Lata Paliwal	Babu Lal Paliwal	2016 -18	NET -JRF
2	Mohan Lal Jangid	Satyanarayan Jangid	2018 -20	NET -JRF
3	Ashok Kumar Meena	B.S. Meena	2016	NET
4	Vipra Jain	Pralok Jain	2017 -19	NET
5	Rekha	Ramchander	2017 -19	NET



6	Shubham Pandey	Vinay Kumar Pandey	2018-20	NET
7	Aruna Giri	Bansh Gopal Giri	2018-20	NET
8	Vishnu Vaishnav	Ratan Lal Vaishnav	2018-20	NET
9	Akhil Kumar Chaudhary	Vimlesh Kumar Chaudhary	2019-21	NET
10	Pooja Yadav	Ashok Yadav	2019-21	NET

### Students selected for Higher Studies (2019-20)

Sr. No.	Name of the Student	Batch	Higher Studies	Name of Institution
1	Mohanlal Jangid	2018-20	Ph. D.	IIT, Roorkee Central university of Rajasthan
2	Parthvi Rastogi	2016-18	Ph. D.	

## Extra-curricular Activities

### National Level Quiz

- Santosh Sahu and Akhil Kumar Chaudhary represented CURaj in “35<sup>th</sup> Inter University West Zone Competition- Quiz and Debate” Organized by Uka Tarsadia University Gujarat (December 27-31, 2019).
- Mohanlal Jangid and Santosh Sahu participated in “E-COMFEST: Test of Knowledge (Quiz)” organized by Department of Commerce, PMLSD College for Women, Gurdaspur (June 16, 2020).
- Piyush Jhalani participated in E-Quiz on Research Methodology organized by Higher Education Cell and Kaamadhenu Art and Science College, Tamilnadu (May 20-23, 2020).
- Pooja Yadav and Santosh Sahu participated in “IRIS Competition” organised by IIM, Indore (October 11, 2019).
- Vandana, Shubham Pandey and Vishnu Vaishnav Participated in “Online Commerce Quiz” organized by Guru Nanak College of Arts, Science and Commerce, Mumbai (June 16, 2020).
- Vandana Kumari Participated in “Online Quiz on COVID-19” organized by Sipna College of Engineering & Technology, Amravati (May 9, 2020).
- Vandana Kumari Participated in national level “Poster Making Competition “organized by Aggarwal College Ballabgarh. (June 10, 2020).

### University's Academic and Cultural Program:

- Aditi Soni, Piyush Jalani, Santroop Tanwar, Puspender, Ashok Kumar Meena, Priyanka Meena and Mrutunjaya Sahoo participated in workshop on 'Linguistic and Language Sciences: A Quantifying approach' CURaj (19 February, 2020).
- Aruna Giri, Sachchi Guru, Subhadra Rajpurohit and Vandana kumari, participated in Nukkad Natak (Street Play) “Swacchata hi Seva Hai” organized by NSS, CURaj (16 October, 2019).
- Kanak Priya participated in “Cultural Dance” on 12<sup>th</sup> Foundation Day, CURaj (March 3, 2020), “Rangoli Designs and Décor” on 6th convocation, CURaj (February 8, 2020) and Hindi Diwas Competition (September 12, 2019).
- Aruna Giri and Sachchi Guru, Participated in 'Drama Competition-2020: Skit' organized by Drama Club, CURaj (January 30, 2020).
- Santosh Sahu participated in Poster making competition organised by SPARSH, CURaj (February 24, 2020).
- Aruna Giri & Sachchi Guru participated in “Emaandari- Ek Jeevan Shaili” Organised by Central Vigilance Commission, CURaj (November 4, 2019).





### University's Social and Sports Activities:

- Aruna Giri, Vandana, Sachchi Guru, Subhadra Rajpurohit, Shubham Pandey, Kanak Priya and Swati Suman Participated in Fit India Program, Swachhata Pakhwarda 2019, Thaili Chhodo Thaila Pakdo, Clean Campus, Waste Management and other NSS Special Camp organised by NSS, CURAJ (2019-20).
- Shubham Pandey, Vandana, Sachchi Guru, Subhadra Rajpurohit, Kanak Priya and Swati Suman contributed as an active volunteer in “Swachhta hi Sewa 2019 Camp” organized by Central University of Rajasthan (2019-20).
- Shubham Panday, Vandana Kumari, Aruna Giri, Sachchi Guru, Subhadra Rajpurohit and Vishnu Vaishnav attended workshop on “Drug Abuse Awareness and Prevention: From Drugs to Dedication” organized by Central University of Rajasthan in Collaboration with National Institute of Social Defense, New Delhi (July 28, 2019).



*Commericians at 42<sup>nd</sup> All India Accounting Conference, JNVU, Jodhpur held on Dec. 28-29, 2019*



*Degree Distribution to Commerce Students at 6<sup>th</sup> Convocation Ceremony held on 3Dec. 2019*

## Department of Management

### [Head: Prof. Maithili R. P. Singh]

Established in 2010, the Department of Management offers MBA with specialization in three streams – Finance, Human Resource Management and Marketing. Every year, 30 students join the program, from diverse backgrounds, states, culture and language. The faculty imparts high-quality management education through rigorous academic inputs, international training programs (such as GIAN) and educational tours. The strong research orientation of the Faculty is reflected through sponsored research projects and doctoral research.

### Programs Offered

- Ph. D. in Management
- M. B. A.

### Faculty

Name	Designation	Area of Specialization
Prof. Maithili R. P. Singh	Professor	Marketing
Prof. Uma Sankar Mishra	Professor	Marketing

Dr. Sanjay Kumar	Assistant Professor	Finance
Dr. Tulsee Giri Goswami	Assistant Professor	HRM
Dr. Avantika Singh	Assistant Professor	HRM

## Academic Activities

### Conference/Workshop/Symposium organized

- Department has organized one week course on “E-Business Models for Developing Economies” under GIAN Scheme of MHRD, Government of India, delivered by Prof. Ernest Johnson, University of Regina, Regina, Canada, during August 5-9, 2019.

### Other Academic Activities

- Department has organized a visit to Barefoot College, Tilonia for MBA students.

### Extramural funding received

- Department has ongoing extramural project titled 'A Comprehensive Study of Implementation of Bhamashah Yozna in the State of Rajasthan: An Empirical Analysis' awarded by IMPRESS, ICSSR), duration: 2 years, budget Rs. 7.0 lakh.
- Department has ongoing extramural project titled 'Assessing Economic and Social Impact of Self-Help Group Movement in Rajasthan' awarded by IMPRESS, ICSSR, New Delhi, duration: 15 months, budget Rs.10 lakh.

### Equipment procured/Facility

- Laptop and Printer



*GIAN Course “E-Business Models for Developing Economies” during August 5, 2019*



*Training session on EBSCO Business Source Elite c-journals collection on 26th September 2019 at Department of Management*





## School of Earth Sciences

### DEAN: DR. L. K. SHARMA

The School of Earth Sciences is committed to providing interdisciplinary knowledge in the field of environmental sciences and atmospheric science and their linkage with societal development. The prime goal of the School is to train manpower with scientific knowledge and technical

skills in the field of earth sciences to serve local and global communities. The School is committed to create and effectively disseminate fundamental knowledge about Earth, its resources, and the processes by which it changes. In order to successfully pursue the vision and mission, existing departments are working in various areas related to research, education, and outreach programs in collaboration with national and international organizations.

#### Department

- Department of Atmospheric Science
- Department of Environmental Science

### Department of Atmospheric Science

#### [Head: Dr. Devesh Sharma]

The Department of Atmospheric Science was established in 2016 under the School of Earth Sciences. It offers both M. Sc. and Ph. D. programs. The objectives of the programs are to promote interdisciplinary research in science and technology. It encompasses numerical modeling of atmosphere and ocean, climate modeling, monsoons, and high impact severe weather forecasting to understand its physical and social consequences, understanding of desert meteorology, atmospheric chemistry, air quality, remote sensing and climate change impacts. The Department is developing collaborations at National and International levels.

#### Programs Offered

- M.Sc. Atmospheric Science
- Ph. D. in Atmospheric Science

#### Faculty

Name	Designation	Area of Specialization
Prof. Someshwar Das	Professor (contractual reemployment)	Atmospheric Modelling, Cumulus Convection, Cloud Microphysics
Dr. Devesh Sharma	Associate Professor	Climate Change and Water Resources, Hydrological Modelling
Dr. Subrat Kumar Panda	Associate Professor	Regional Climate Change Modeling, Climate Change, Indian Monsoon Studies, Climate Analysis using Observations and Models
Dr. Chinmay Mallik	Associate Professor	Atmospheric Chemistry, Atmospheric Oxidation and self-cleansing mechanisms, Air quality and Air Pollution, Atmospheric Trace Gases and Aerosols
Dr. Jayanti Pal	Associate Professor	Impact of Climate Change, Air-Sea Interaction, Indian Monsoon, Tropical Cyclogenesis, Cloud-Aerosol Interaction



## Academic Activities

### Expert/Guest lecture/Seminar/Visit

Name	Event	Date
Prof. Hirohiko Ishikawa	Kyoto University, Japan <i>Detection of overshooting cloud top as an indicator of severe storm in mid-latitude.</i>	27-28/02/2020
Prof. S.S.V.S.Ramakrishna	Andhra University, Vishakapatnam <i>Numerical Simulation of Extreme Weather events over the Indian Subcontinent</i>	27/02/2020 02/03/2020
Prof. Deepak Aryal	Tribhuvan University, Kathmandu, Nepal <i>Severe hailstorm in Pokhara, Nepal: A case study</i>	27/02/2020 02/03/2020
Prof. Tomomi Narita	Shonan Institute of Technology, Japan <i>A study of lightning location system (Blitz) based on VLF sferics</i>	27/02/2020 02/03/2020
Dr. P. Mukhopadhyay	Indian Institute of Tropical Meteorology, Pune, India <i>Development of Forecast system for severe</i>	27-28/02/2020
Dr Fumie Murata	Kochi University, Japan <i>Characteristics of thunderstorms in Bangladesh based on WWLLN dataset</i>	27/02/2020 02/03/2020
Dr Soma Sen Roy	India Meteorological Department, Delhi <i>Extreme Severe Storms and Disaster Mitigation</i>	27-28/02/2020
Prof. Yusuke Yamane	Tokoha University, Japan <i>Environmental conditions of severe local storm during the pre-monsoon season in Bangladesh</i>	27/02/2020 02/03/2020
Prof. Toru Terao	Kagawa University, Japan <i>New Analysis Framework of Asian Summer monsoon Extreme Rainfall Variability: Production and Transportation of High Equivalent Potential Temperature Airmass</i>	27/02/2020 02/03/2020
Dr Azusa Fukushima	Kobe Gakuin University, Japan <i>Contribution of meteorological data in Tea Gardens for the extreme weather events in</i>	27/02/2020 02/03/2020
Dr Abhilash S	Cochin University of Science & Technology, Kerala <i>Role of anomalous moisture transport across equatorial Indian Ocean and aberrant mesoscale cloud burst event on the back to back</i>	27-28/02/2020



Dr Mohan K. Das	BUET, Dhaka, Bangladesh <i>Assessment of the WRF model for flash-flood producing rainstorm in the steep edge of Indo-</i>	27/02/2020 02/03/2020
P.V.S. Raju	Amity University Rajasthan, Jaipur, India <i>Simulation of Extreme Weather Hazards using Meso-Scale Modeling system</i>	27/02/2020 02/03/2020
Dr Manoj M.G.	ACAR, CUSAT, Kerala, India <i>Investigation of influence of West Pacific Typhoons on the 2018 historic flood of Kerala</i>	27-28/02/2020
Dr Archana Shrestha	Department of Hydrology and Meteorology, Nepal <i>Bara-Parsa Tornado in Nepal: Challenges in</i>	27/02/2020 02/03/2020
Dr Subhadeep Halder	Allahabad University, India <i>Prediction of lightning and hailstorm over New Delhi</i>	27/02/2020 02/03/2020
AVM (Dr.) Ajit Tyagi	Former DGM, India Meteorological Department, India	01-02/03/2020
Dr. Kyaw Lwin Oo	Department of Meteorology and Hydrology, Myanmar <i>Precipitation Experiments: Sub seasonal-to-seasonal (S2S) analyses and mesoscale model</i>	01-02/03/2020
Dr. Masashi Kiguchi	Tokyo University, Japan <i>Development of resilient and sustainable solutions for climate change in Thailand</i>	01-02/03/2020
Prof. Laxman Singh Rathore	Former DGM, India Meteorological Department, India <i>Strengthening Weather, Water and Climate</i>	01-02/03/2020
Dr. Atul Kumar Varma	Space Applications Centre, ISRO , India <i>High Spatial and Temporal Scale Intense Precipitation Estimation from INSAT-3D/3DR</i>	01-02/03/2020
Prof. U.C. Mohanty	<i>Emeritus Professor, School of Earth, Ocean and Climate Sciences, Indian Institute of Technology, Bhubaneswar</i>	01-02/03/2020
Dr. S.S. Kundu	North Eastern Space Applications Centre, India <i>Space and Atmospheric Science Research and Applications at NESAC</i>	01-02/03/2020
Dr. V. Sathiyamoorthy	Space Applications Centre, Ahmedabad, India <i>Satellite Meteorological and Oceanographic data availability at MOSDAC and training and research opportunities available as part of</i>	10/10/2019

### Conference/ Workshop/Symposium organized

- One-Day Outreach Training Programme on "Satellite Meteorology and Oceanography" was organized in collaboration with MOSDAC Research and Training Division, Space Application Centre (SAC), Indian Space Research Organization (ISRO), Ahmedabad on 10 October, 2019.
- Half-Day meeting of Indian Meteorological Society, Jaipur Chapter on 04 December, 2019.
- Two-Day International Workshop on "Extreme Severe Storms and Disaster Mitigation Strategy" was organized in collaboration with International Consortium for Earth and Development Sciences (ICEDS), Kagawa University, Japan on 27-29 February, 2020.
- Two-Day International Workshop on "Asian Precipitation Experiment (AsiaPEX)/ South Asia (SA)" was organized in collaboration with International Consortium for Earth and Development Sciences (ICEDS), Kagawa University, Japan on 01-02 March, 2020.

### Other Academic Activities

- Celebrated World Ozone Day on 16 September, 2019

### Extramural funding received

Various extramural funded-projects of Rs. 64.60 lakhs are ongoing in the Department sanctioned by different agencies of Government of India e.g. DST,-SERB UGC and MoWR.

### Equipment procured/Facility

- 7 Desktop Computers for Simulation and Visualization Laboratory.
- Lightning Detector received from as part of the collaborative project with the Disaster Prevention Research Institute (DPRI), Kyoto University, and International Consortium for Earth and Development Sciences (ICEDS), Kagawa University, Japan under the 'Network for Lightning and Thunderstorms in Real Time' successfully installed. With this, CURAJ becomes part of the global network (<https://map.blitzortung.org/#5.52/26.521/73.957>)

### Awards/Achievements

- One ex-student (2016-2018) of the Department secured Ph.D. position in University at Albany, State University of New York.
- Ms. Harithasree S of M. Sc. first year (2019-2021) qualified JRF, CSIR-UGC NET, 2019.
- Four students from M. Sc. second year (2018-2020) got placement in Technoculture Research, Bangalore.



*Inauguration of 2<sup>nd</sup> International workshop on Extreme Severe Storms and Disaster Mitigation Strategies (ESSDMS-2) during 27-29 February, 2020*



*Participants of International workshop on Asian Precipitation Experiment (AsiaPEX)/South Asia (SA) held on 1-2 March, 2020*



## Department of Environmental Science

### [Head: Prof. Rajesh Kumar]

As an emerging economy, India is in its peak of infrastructural development and needs environmental experts, trained personnel for monitoring of pollution, and assessing the environmental impacts of developmental projects. Looking at the present scenario and futuristic needs, the Department has established with the objectives:

- To impart knowledge of environmental problems of regional and global scale;
- To train the students for scientific analyses of environmental components for efficient environmental decision-making and management.
- To act as an interface between academia and organisations for interdisciplinary collaboration for environmental research.

### Programs offered

- **Ph. D.** in Environmental Science
- **M. Sc.** Environmental Science (02 years)
- **Integrated M. Sc.** Environmental Science (05 years)

### Faculty

Name	Designation	Area of Specialization
Prof. Rajesh Kumar	Professor	Glaciology, Glacier geomorphology, climate science and Air pollution
Prof. K.K. Satpathy	Professor (Contract)	Thermal pollution, Chlorination and Biodiversity
Dr. Laxmi Kant Sharma	Associate Professor	Environmental Remote Sensing, Ecological and Environmental Management
Dr. Garima Kaushik	Assistant Professor	Environmental Biotechnology, Microbial Biodegradation of POP's (Pesticides, Pharmaceuticals and antibiotics)
Dr. Ritu Singh	Assistant Professor	Environmental Toxicology, Environmental Pollution and Management, Nanoremediation
Dr. Alok Kumar	Assistant Professor	Biogeochemistry and Hydro-geochemistry
Dr. Shailesh Kumar Patidar	Assistant Professor	Environmental Biotechnology (Algal biofuel, Carbon sequestration, Bioremediation), Algae-bacteria interactions, Ecophysiology of contaminated environment
Dr. Nivedita Chaudhary	Assistant Professor	Air pollution and climate change - Monitoring and Effects on plants



## Academic Activities

### Expert/Guest lecture/Seminar/Visit

Name	Event	Date
Dr. K K Sathpathy	Retd. Scientific Officer (H+), Retd. Head Environment & Safety Division, IGCAR, Professor, Homi Bhabha National Institute, Mumbai. <i>Guest lecture</i> on "Climate change and environmental research at Indira Gandhi Research Centre - A brief overview"	01/10/2019

### Extramural funding received

Various extramural funded-projects of Rs. 114.28 lakhs are ongoing in the Department sanctioned by different agencies of Government of India e.g. DST and SAC (ISRO).

### Equipment/ software procured/Facility

- Fume Hood -MSW-16701
- Double Distillation Unit
- Ultra-High-Performance Liquid Chromatography- 1290 Infinity II
- Laboratory Benches

### Awards/Achievements

- Shivani Bhatia won the 1<sup>st</sup> Prize in Poster presentation on the National Science Day celebration 28<sup>th</sup> February 2020 at Central University of Rajasthan
- Model Making segment Bhumika Sood and Himanshu Chaudhary won the Second Prize in the National Science Day celebration 28<sup>th</sup> February 2020 at Central University of Rajasthan
- UGC NET/ GATE Qualified students
- Mr. Prabhat Kumar, UGC-NET 2018
- Mr. Sandeep Kumar, UGC-NET, 2018
- Mr. Shashi Ranjan, GATE, 2018
- Mr. Shashi Ranjan, UGC-NET, 2019
- Mr. Harshvardhan Rathore, UPSC-CDS, 2019
- Mr. Shashi Ranjan, UGC-NET, 2019
- Mr. Prabhat Kumar, UGC-NET, 2019
- Ms. Preksha Palsania, UGC-NET, 2019
- Ms. Diksha Kumari, UGC-NET, 2019
- Mr. Prasoon Kumari Dwivedi, UGC-NET, 2019
- Ms. K Sheetal, UGC-NET, 2019

### Extracurricular activities

- Celebration of World Ozone Day during 16<sup>th</sup> September 2019
- Celebration of Marathon for the awareness of cleanliness on the birth anniversary of Mahatma Gandhi.
- Tree Plantation on 2<sup>nd</sup> October 2019 as an environmental cleanliness drive.
- Celebration of Swachhta Pakhwada from 16<sup>th</sup> January to 31<sup>st</sup> January 2020
- National Science Day participation held on 28th February 2020 at Central University of Rajasthan







*Ozone day celebration in the School of Earth Sciences, 16<sup>th</sup> September 2019*



*Various Environmental awareness activities (Plantation, Marathon and Cleanliness) by the Department of Environmental science*





## School of Education

### DEAN: DR. ANJALI SHARMA

The School of Education, Central University of Rajasthan was established in 2014. The School of Education is running an Innovative Education Program, integrated three years M. Sc. B. Ed. Program in collaboration with School of Mathematics, Chemical Sciences and Physical Sciences and Department of Economics which aims at producing prospective teachers with the sound knowledge of content and pedagogy. The vision of the School of Education is to develop professionally equipped and human teachers along with the establishing Centre of excellence in Pedagogy, Curriculum and Research. The footstep; University has taken towards seeking quality education by inculcating professional value and ethics blended with the realistic field experiences among the pre-service teachers.

#### Department

- Department of Education
- Department of Yoga

### Department of Education

[Head: Dr. Anjali Sharma]

This is the first attempt made by the Central University, Rajasthan with a clear focus on preparing teachers for Senior Secondary Schools/ Post Graduate Teachers (PGT's).

#### Programs Offered

- Integrated M. Sc. B. Ed. Chemistry
- Integrated M. Sc. B. Ed. Economics
- Integrated M. Sc. B. Ed. Mathematics
- Integrated M. Sc. B. Ed. Physics

Name	Designation	Area of Specialization
Dr. Anjali Sharma	Associate Professor	<i>Educational Administration and Management, Pedagogical Sciences, Women Studies</i>
Dr. Narendra Kumar	Assistant Professor	<i>Research Methodology, Educational Planning and Policies, Educational Psychology</i>
Dr. Gobind Singh	Assistant Professor	Foundations of Education, <i>Guidance and Counselling</i> and Pedagogy of Mathematics
Dr. Sangeetha Yaduvanshi	Assistant Professor	Educational Psychology, Science Education, Gender Studies
Dr. Rina Godara	Assistant Professor	Educational Management, Pedagogy of Commerce, Economics of Education
Dr. T. Sangeetha	Assistant Professor	Special Education, Teacher Education, Inclusive Education, Science Education.
Dr. Seema Gopinath	Assistant Professor	Mathematics Education, Techniques of Evaluation and test construction
Dr. Kanak Sharma	Assistant Professor	Educational Technology, Pedagogy of Chemistry, Educational Measurement and Evaluation





## Academic Activities

### Other academic activities (Educational Tour, Academic celebration such as Science day)

Theme/event name	Organizer/coordinator if any	Date
Pre-orientation Internship Programme	Dr Anjali Sharma Dr Gobind Singh Dr Narendra Kumar	8/07/2019 3/08/2019
National Educational Day Celebration	--	11/11/2019
Essay writing competition on the topic "Role of Education in Life Upliftment (जीवन उत्थान में शिक्षा की भूमिका)	Dr. Sangeeta Yaduvanshi	11/11/2019
Card Making with Slogan, the theme of that was "Education and Sustainable Development" (शिक्षा तथा सतत विकास)	Dr. Gobind Singh	10/11/2019
Speech Competition on the topic "Education and Sustainable Development" (शिक्षा तथा सतत विकास)	Dr Narendra Kumar	11/11/2019

### Expert/Guest lecture/seminar/Visit

Name	Event	Date
Prof. Rajendra Pal	Professor, Central Institute of Teacher Education, National Council for Education Research and Training (NCERT), New Delhi <i>Action Research and preparing a proposal</i>	19-20/07/19
Dr. Rajvir Singh	Associate Professor & Head, Department of Education, Kurukshetra University <i>Teaching Strategies in Science</i>	22-23/07/19
Dr. Rambabu Pareek	Associate Professor in Chemistry Regional Institute of Education, Ajmer <i>Teaching skill development</i>	17-24/07/19

### Extracurricular activities

**A) Sports:** Students of the Department participated in various Sports in University.

**B) Cultural Event(s):** Students of the Department participated in various cultural activities in the University.]



*Prof Rajendra Pal visited the Department and Interacted with students on the topic Action Research*



*National Education Day Celebration; Card Making Competition and Essay Writing Competition*

## Department of Yoga

### [Head: Dr. Sanjib Kumar Patra]

At present, the Department of Yoga offers Masters in Yoga Therapy with a focus on imparting knowledge for the treatment of psychosomatic diseases. Yoga therapy is an emerging field and scientific evidences have begun to unveil its efficacy in the wide range of Non-communicable diseases. It aims at prevention of illnesses and promotion of health, ensuring perfect health. This program provides comprehensive knowledge of Yoga therapeutic techniques applicable to various ailments. It also includes exposure to various fundamentals, types and aspects of Yoga practices and the science behind their applications in various ailments.

### Programs Offered

- M. Sc. Yoga Therapy

### Faculty

Name	Designation	Area of Specialization
Dr. Sanjib Kumar Patra	Associate Professor	Sleep medicine, Psychophysiology, Meditation and Yoga therapy
Dr. Kashinath G. Metri	Assistant Professor	Cardiovascular medicine, Yoga therapy, Ayurveda and Rehabilitation
Dr. Chobe Shivaji Vilas	Assistant Professor (Contractual)	Yoga Therapy, Integrative Medicine, Ayurveda, Counseling and Psychotherapy.
Dr. Meenakshi	Assistant Professor (Contractual)	Yoga Therapy, Integrative Medicine, Naturopathy, Ayurveda, Counseling and Psychotherapy.





## Academic Activities

### Expert lecture/Seminar/Visit

Name	Event	Date
Dr. Ram Jayam	Eminent Scientist, National Institute of Mental health and Neurosciences <i>Yoga for Mental Health</i>	14/02/2020

### Conference/Workshop/Symposium organized

Department of Yoga, Central University of Rajasthan (CURAJ) organized a Mass Suryanamaskar on the foundation day of CURaj, March 03, 2020, involving about 400 students and staff.

### Poster presentation competition

On the eve of Science day celebration in CURAJ, three groups of our students participated actively during Poster presentation competitions to explain scientifically, 'the Yoga treatment modalities for improving the efficiency of the viscera viz., Heart, Lungs and Brain'.

### Other Academic Activities

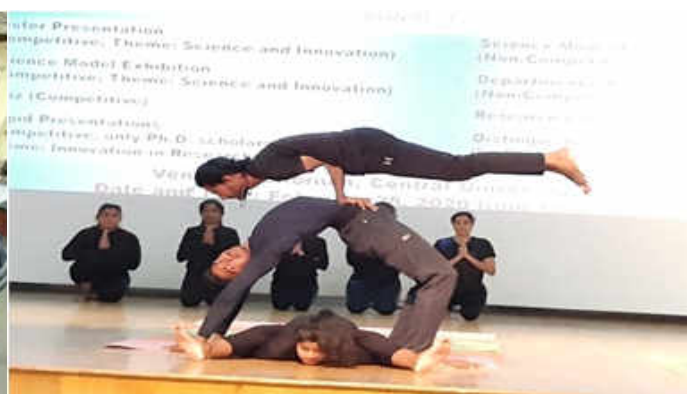
- "4<sup>th</sup> International Day of Yoga" was organized by the Department of Yoga, Central University of Rajasthan, Bandar Sindri, Ajmer (CURaj) on June 21, 2019.
- Department of Yoga announces and conducts monthly evidence based Yoga therapy treatment for the students and staff, being afflicted with various Non-communicable diseases from 6.30 to 7.30 am.

### Awards/Achievements

The following students have been qualified UGC NET/JRF. Rajkanwar Bhati UGC NETK. M. Megha UGC NET Shubham Semwal UGC NET Abhijit Baishya UGC NET (JRF) Taruni sarva UGC NET

### Extracurricular activities

**Yoga competition:** Our students participated in Inter-University Yoga competition organized by Rajiv Gandhi University of Knowledge Technology, Visakhapatnam, Andhra Pradesh, from January 04 to 06, 2020.



Participation of our students in Rajiv Gandhi University of Knowledge technology, Visakhapatnam, Andhra Pradesh

Stage performance by MSc Yoga students on foundation



## School of Engineering and Technology

### DEAN: PROF. MANISH DEV SHRIMALI

School of Engineering and Technology was established in the University in the year 2010 to impart quality technical education for sustainable development. The School offers undergraduate (B.Tech), post-graduate (M.Tech) and research programs (PhD) in Engineering and Technology. The objective of the School is to play a prodigious role in achieving the vision of the University, i.e., education for sustainable development. The School aims at providing excellent training to students/scholars in advanced technologies, so as to produce engineering graduates of high caliber and moral values. The School aims at being a pioneer in the field of engineering education and research.

#### Department

- Department of Computer Science and Engineering
- Department of Electronics & Communication Engineering

### Department of Computer Science and Engineering

#### [Head: Prof Maithili R. P. Singh]

The Department of Computer Science and Engineering was established in the University in the year 2010 under School of Engineering and Technology. Currently, the Department offers 2-years M. Tech. Program in CSE with specialization in Information Security, a doctoral program and a 4-year B.Tech program in Computer Science and Engineering. Department is striving hard to generate professionals to contribute towards secured progress of the country in the information age. Department is also exploring new emerging areas like Cyber Physical Systems, Information Testing, Security Audit, Digital Forensics etc. Department has been contributing towards achieving the goals of the University and is planning to expand by adding new programs in near future.

#### Programs offered

- B. Tech CSE
- M. Tech. CSE
- Ph. D. in CSE

#### Faculty

Name	Designation	Area of Specialization
Dr. Gaurav Somani	Assistant Professor	Distributed Systems, Computer Networks, Ad hoc networks, Cloud computing
Mr. Ravi Saharan	Assistant Professor	Algorithms, Computer Graphics, Image processing, Theoretical computer science
Dr. Muzzammil Hussain	Assistant Professor	Network Security, Wireless Sensor Networks, Computer Networks

#### Equipments procured/Facility

- IEEE Online





### Awards/ Achievements

- Dr. Gaurav Somani, Best Survey Paper Award 2020 (Award Money USD 500) from Elsevier Journal of Computer Communications (COMCOM), June 10, 2020.
- Dr. Gaurav Somani, IEI Young Engineer Award 2019-20 for Computer Engineering, Institution of Engineers India (IEI), Awarded at 33rd National Convention of Computer Engineers, Jaipur, India, February 15-16, 2020.
- Dr. Gaurav Somani, Finalist, Doctoral Dissertation Award in the ISEA-ISAP Conference, IIT Guwahati during 27 February - 1 March 2020.
- Dr. Gaurav Somani, Senior Member, IEEE, elevated in August 2019.



*M. Tech. CSE Thesis Defense Exam 2019*



*CSE Laboratory: Students attending Pariksha pe Charcha program (20/01/2020)*

## Department of Electronics & Communication Engineering

### [Head: Prof. U. S. Mishra]

The Department of Electronics and Communication Engineering (ECE) started in 2019 under School of Engineering and Technology. The primary goal to start this program is to produce highly skilled young engineers so that they can contribute to the various industry and academy jobs. Our course curricular is designed in such a way that the students can get a strong foundation in both theoretically and practically in the field of ECE. Presently, the Department offers 4-years undergraduate programme (B.Tech in ECE) and 2-year M.Tech programme in Cyber Physical System. The Department is well equipped with modern laboratory equipment's. The Department has dedicated faculty members engaged in enhancing the knowledge, skill & talents of the students.

### Program Offered

- **B. Tech.** (Electronics & Communication Engineering)
- **M. Tech.** (Cyber Physical System)

### Faculty

Name	Designation	Area of Specialization
Dr. Milan Sasmal	Assistant Professor	Electronic Devices, Nanobiosensor, MEMS/NEMS



Dr. Rajan Singh	Assistant Professor	Spintronics Devices, Electroceramics, Ferroelectric, and Piezoelectric Devices, Piezoelectric Energy harvesters
Dr. Kapil Saraswat	Assistant Professor	RF and Microwave Engineering, Computation Electromagnetism, High Impedance Surfaces Embedded Systems, Neural Network

### Other Academic Activities

Department has celebrated Science Day on 28<sup>th</sup> February, 2020.

### Extramural funding received

Dr. Milan Sasmal received UGC start-up grant project around Rs. 10 Lakhs.

### Equipment procured/Facility Available

- Basic Electrical Engineering Lab
- Electronics workshop facilities



*Experimental set up for three phase transformer students working in the Electrical Engineering Lab*





## School of Humanities and Languages

### DEAN: PROF. SUPRIYA AGARWAL

The School has three progressive and forward-looking departments dealing with literature and language with the aim to generate high standard of knowledge and equip the students with a multidisciplinary and holistic education. The departments have dedicated and talented faculty who are engaged in imparting value-based education. Research scholars of the School are doing exemplary work on varied topics of literature, language, social and culture related relevant issues. The curriculum is regularly updated and offers all opportunities for the overall development of the student and sustainable development of humanity. Several critical and creative courses run by the departments are opted by the students of other disciplines, and the School is continuously engaged in promoting an environment of innovation in learning.

#### Department

- Department of English
- Department of Hindi
- Department of Linguistics

### Department of English

#### [Head: Dr. Sanjay Arora]

Department of English was established in the academic session 2010-11. It mentors the students for a comprehensive overall development, both in and out of the classroom. Beyond this, it provides intensive training through lectures, communicative tasks and activities, film screening, debates, discussions, writing practice, symposiums, seminars, workshops and conferences (national and international). The syllabus is a healthy blend of language, literature, culture studies, visual representation and multi-disciplinary studies. The programme not only imparts essential and additional knowledge in the field but also equips and trains the students for careers in the field of teaching, creative writing, research, content writing, translation and other related avenues.

#### Programs Offered

- Ph. D. in English
- M.A. English

#### Faculty

Name	Designation	Area of Specialization
Prof. Supriya Agarwal	Professor	Gender and Cultural Studies, World Literature
Dr. Sanjay Arora	Associate Professor	English Language Teaching, Applied Linguistics, CLT
Dr. Bhumiika Sharma	Assistant Professor	Postcolonial Studies, African American Writings, Gender Studies
Dr. Neha Arora	Assistant Professor	Dalit Literature, Comparative Literature
Dr. Devendra Rankawat	Assistant Professor	Postcolonial Studies, Creative Writing
Dr. Ved Prakash	Assistant Professor	Partition Literature, African-American Literature & Caribbean Literature

## Academic Activities

- **Expert/Guest lecture/Seminar/Visit**  
Professor Rajneesh Arora (Director, English and Foreign Languages University, Lucknow Campus), delivered a talk on 'Textual Analysis' for research scholars on 12 December 2019.
- **Conference/ Workshop/Symposium organized**  
A workshop on 'The Use of Digital Tools for Learner Autonomy' on 29 November 2019. The resource persons for the workshop were Dr Shaila Mahan and Dr Anshoo Sharma (trainers from English Language Teachers' Association of India and International Association of Teachers of English as a Foreign Language, UK).

## Awards/Achievements

- Bibin Sebastian Mathews (2012-14) qualified NET
- Ramesh (2015-17) qualified NET-JRF
- Mamta Mehraniya (2016-18) qualified NET-JRF
- Merin John, Avadhesh (2017-19) qualified NET
- Prakhar, Monika, Nisha (2018-20) qualified NET

## Extracurricular activities

S. No.	Activities	Date
1	The Cloud Capped Star/Meghe Dhaka	17/10/ 2019
2	Please Vote For Me by Weijun Chen (Film Screening)	23/01/2020
3	Parasite by Bong Joon-ho (Film Screening)	06/02/2020
4	The Pianist by Roman Polanski (Film Screening)	12/02/2020
5	Departmental Debates	10, 17 & 24/10/2020
6	Discussions on Creative Writing	7, 14 & 21/11/2020



*Extension lecture by Prof Rajneesh Arora (Director, EFLU, Lucknow) on 'How to Interpret a Text'*



*Workshop by Dr Anshoo Sharma and Dr Shaila Mahan (Associate Professors, Directorate of College Education, Jaipur) on 'Vocabulary Enhancement'*





## Department of Hindi

### [Head: Prof. N. Lakshmi Aiyar]

The Department is working energetically with an intention to meet the research challenges of the society in various fields like media studies, women studies, folk literature, functional Hindi and its styles fulfilling the needs of the present trend. It is enriched with the efficient Faculty members from multiple states having sound research experience, handling special papers in comparative, Indian Novels, Indian poems, folk Literature, media standing as a symbol of Unity in Diversity. The Department is functioning as a nodal Centre for imparting expertise for the implementation of official language in Central Government institutions.

### Programs offered

- Ph. D. in Hindi
- M. A. Hindi

Name	Designation	Area of Specialization
Prof. N. Lakshmi Aiyar	Professor	Comparative literature
Dr. Jitendra Kumar Singh (on Lien)	Assistant Professor	Hindi Criticism, Linguistics, Language Technology and NLP
Dr. Mamata Khandal	Assistant Professor	Comparative Studies, Translation, Modern Hindi Literature & Poetry
Dr. Suresh Singh Rathore	Assistant Professor	Katha Sahitya, LokSahitya, Modern poetry
Dr. Sandeep Vishwanathrao Ranbhirker	Assistant Professor	Bhakti Literature, Hindi Poetry, Fiction, Women's writing
Dr. Amit Kumar Singh Kushawaha	Assistant Professor	Hindi Criticism, Media & Film Discourse, Language Technology

### Academic Activities

#### Students qualified UGC NET/JRF

- Raghuveer JRF
- Jagdish Choudhry JRF
- Hemant Yadav NET
- Sayari Jat NET



*Faculty meeting at Department of Hindi*



*Interaction with students at Department of Hindi*



## Department of Linguistics

### [Coordinator: Dr. Bhumika Sharma]

The Department of Linguistics was established in the academic session 2019-20. It offers an integrated M. Sc. Degree in Linguistics and Language Sciences. Established with an aim to promote the scientific study of language using an inter-disciplinary approach, the Department offers extensive training to students using diverse methods in Linguistics through lectures, hands-on lab work and workshops. The core focus on developing an understanding of the underlying patterns present in human language data is supplemented with training and insights from cognitive science, social science, biological science, as well as mathematical and computational approaches to language. The program equips students to engage with novel natural language phenomena from multiple vantage points and thereby prepares them for careers in Linguistics and beyond.

### Programs Offered

- Integrated M. Sc. in Linguistics and Language Sciences

### Faculty

Name	Designation	Area of Specialization
Dr. Dhanapati Shougrakpam	Assistant Professor	Morphology, Semantics, Lexicography, Comparative Linguistics, Field Linguistics
Dr. Sakshi Bhatia	Assistant Professor	Syntax, Psycholinguistics, Syntax-Semantics interface, Cognitive linguistics

### Academic Activities

#### Conference/ Workshop/Symposium organized

- Workshop on 'Linguistics and Language Sciences: A Quantifying Approach' organized on 19 February, 2020. Talk were given at this event by Prof. Rajesh Bhatt (University of Massachusetts, Amherst, USA), Dr. Bidisha Som (IIT, Guwahati), Dr. Samar Husain (IIT, Delhi), Dr. Sakshi Bhatia (then at IIT Delhi/University of Stirling, now at CURaj), Dr. Dhanapati Shougrakpam (CURaj).

### Equipments procured/Facilities

- 10 computer workstations acquired for the lab

### Extracurricular Activities

- Organization of various events for students for EBSB day and EBSB Club under the aegis of Ek Bharat Shreshtha Bharat, Central University of Rajasthan.
- Students from the Department participated in dance performances as part of the celebrations for the 70<sup>th</sup> Republic Day and the 12<sup>th</sup> Foundation Day Ceremony of the Central University of Rajasthan.





*Students of the Department of Linguistics with Honourable VC, and Faculty Members at the Inauguration of the Department of Linguistics*



*Faculty and Students in workshop at Department of Linguistics*



## School of Life Sciences

### DEAN: PROF. PAWAN K. DADHEECH

The School of Life Sciences has been established in 2012 with an emphasis on interdisciplinary teaching and research in modern biology. The School now has twenty-four teaching staff and seven supporting staff. In addition to this, numbers of postdoctoral fellows are working in the Department. In the current academic session, School of life sciences has moved to its permanent building with state of the art laboratory for each Faculty and Central instrumentation facility in each Department. In the new building, SLS also has modern seminar halls, auditorium and smart classes.

#### Department

- Department of Biochemistry
- Department of Biotechnology
- Department of Microbiology

### Department of Biochemistry

#### [Head: Prof. Sanjib K. Panda]

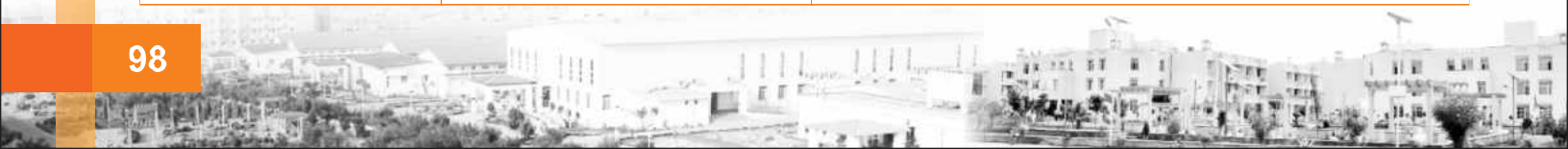
The Department of Biochemistry aims to ignite young minds, from different backgrounds, to understand the world of biochemical reactions through application-based learning. This learning would develop their reasoning power and train them for future career in research as well qualify highly competitive national level examination like CSIR-UGC NET, ICMR and GATE. More emphasis is given on understanding the subject rather than rote learning and the students are also encouraged to broaden their potential by opting for extra audit courses offered by other departments.

#### Programs Offered

- Ph. D. in Biochemistry
- M. Sc. Biochemistry
- Integrated M. Sc. Biochemistry

#### Faculty

Name	Designation	Area of Specialization
Prof. Sanjib. K. Panda	Professor	Plant Functional Genomics, Genome Editing & Genetic Engineering, Plant Molecular Biology & Biochemistry
Prof. Chandi C. Mandal	Professor	Cellular Signalling associated with Cancer and Bone Biology
Dr. Vishvanath Tiwari	Assistant Professor	Bacterial resistance, Host-pathogen Interaction, Drug Discovery and Vaccine Design, Nanomedicine
Dr. Kiran K. Tejavath	Assistant Professor	Nano medicine and Drug delivery against various cancer cells.
Dr. Vijay K. Prajapati	Assistant Professor	Infectious Biology and Drug Discovery
Dr. Shiv Swaroop	Assistant Professor	Protein Engineering and stability, Vaccine design, Biophysics, Synthetic biology
Dr. Dipak Gayen	Assistant Professor	Genomics, proteomics, molecular biology and genetic engineering of plant





Dr. Bhawana Bissa	Assistant Professor	Tumor Metabolic heterogeneity and role of autophagy in cancer metabolism; Non-cell autonomous functions of autophagy
Dr. Dhaneswar Prusty	UGC FRP Assistant Professor	Molecular parasitology and Drug discovery

## Academic Activities

### Expert/Guest lecture/Seminar/Visit

Name	Event	Date
Dr. Ritesh Ranjan Pal	Indian Association of Cultivational Science A guest lecture on <i>"Host Pathogen Interaction"</i>	05/08/2019

### Other academic activities (Educational Tour, Academic celebrations)

Organizer/coordinator if any	Theme/event name	Date
Prof. Sanjib K. Panda	<b>One Day Symposium on</b> <i>"Advances of Genomics Research in Crops"</i>	05/08/2019
Prof. Sanjib K. Panda	<b>5 Days 'GIAN' Programme on</b> <i>The Function of Reactive Oxygen Species and Antioxidants in Plants</i>	18-22/11/2019

### Extramural funding received

- Various extramural funded-projects of Rs. 88.13 lakhs are ongoing in the Department sanctioned by different agencies of Government of India e.g. DBT, UGC and ICMR.,
- In the current year (2019-20) Department has received extramural grants of Rs. 57.84 Lakhs.

### Equipment procured/Facility

- No new instrument is being purchased. ELISA has been ordered by the university but it's not physically received yet to the Department of biochemistry.

### Awards/Achievements

Name of Faculty	Name of Award	Year	Agency/Institution Society
Dr. Vishvanath Tiwari	Associate-2019	July, 2019	Indian Academy of Sciences, Bangalore
Dr. Vishvanath Tiwari	Chancellor's Award for the Best Faculty-2019	December, 2019	Central University of Rajasthan
Dr. Bhawana Bissa	Best Poster Award, for Integrative Approaches for Disease Biology in Medicine	November, 2019	Young Investigator's Meeting (YIM) India Institute of Technology, Jodhpur



Deepika Biswas (Research Scholar)	"DBT-International Travel Grant (Ref-DBT/CTEP/02/20190749943)" for "Acinetobacter-2019" in Germany	September, 2019	DBT, Government of India, New Delhi
Rupal Ojha (Research Scholar)	Attended Inflammation School in Brazil	November, 2019	

### Students Achievements

Sl. No.	Name	Enrollment no	Qualification	Programme	Semester
1	Aditi Pareek	2014IMSBC003	CSIR NET JRF	Int. M.Sc. Biochemistry	X
2	Dhankesh Meena	2017MSBC001	CSIR NET JRF	M.Sc. Biochemistry	IV
3	Dhiraj Gurjar	2014IMSBC011	CSIR NET JRF	Int. M.Sc. Biochemistry	X
4	Himanshu Darji	2014IMSBC012	CSIR NET JRF	Int. M.Sc. Biochemistry	X
5	Tanya Pareek	2017MSBC004	CSIR NET JRF	M.Sc. Biochemistry	IV
6	Amarjeet sharma	2015IMSBC001	CSIR NET JRF	Int. M.Sc. Biochemistry	X
7	Basumitra	2015IMSBC003	CSIR NET JRF	Int. M.Sc. Biochemistry	X
8	Durgesh Meena	2015IMSBC004	CSIR NET JRF	Int. M.Sc. Biochemistry	X
9	Priya Chouhan	2018MSBC001	CSIR NET JRF	M.Sc. Biochemistry	IV
10	Priyanshi	2015IMSBC014	CSIR NET L.S	Int. M.Sc. Biochemistry	X
11	Rajveer Shekhawat	2015IMSBC016	CSIR NET JRF	M.Sc. Biochemistry	X
12	Karthikey Sharma	2019MSBC010	CSIR NET JRF	Int. M.Sc. Biochemistry	II
13	Seema Kuldeep	2016IMSBC014	CSIR NET JRF	Int. M.Sc. Biochemistry	VIII
14	Akshay P.S	2016IMSBC001	CSIR NET L.S	Int. M.Sc. Biochemistry	VIII
15	Tadi Sai Ratnakar	2019MSBC019	CSIR NET L.S	M.Sc. Biochemistry	II



One Day Symposium on "Advances of Genomics Research in Crops"







## Department of Biotechnology

### [Head: Dr. Pankaj Goyal]

The Department of Biotechnology was incepted in 2011 with the aim of providing basic biotechnology knowledge with advance training in challenging areas of modern research. The departmental activities are centered towards dispensing research-based ideas to undergraduate, graduate and doctoral students. In addition, the departmental seminars are conducted to inculcate analytical and innovative attitudes in students to work upon societal problems.

### Programs offered

- Ph. D. in Biotechnology
- M. Sc. Biotechnology (2 years Program)
- Integrated M. Sc. Biotechnology (5 years Program)

### Faculty

Name	Designation	Area of Specialization
Prof. A. K. Gupta (Superannuated on 31 October 2019)	Professor (Contractual)	Plant Molecular Biology and Functional Genomics
Dr. Pankaj Goyal	Associate Professor	Molecular Medicine and Pregnancy Disorders
Dr. Janmejy Pandey	Assistant Professor	Microbial Genomics and Metagenomics
Dr. Tarun K. Bhatt	Assistant Professor	Molecular Parasitology
Dr. Suman Tapryal	Assistant Professor	Antibody Engineering and Vaccine Development
Dr. Jay Kant Yadav	Assistant Professor	Protein Folding and Aggregation
Dr. S. T. Vaiphei ( On Lien)	Assistant Professor	Biomarker discovery
Dr. Jayendra Nath Shukla	Assistant Professor	Insect Genetics and Molecular Biology
Dr. Surendra Nimesh	UGC FRP Assistant Professor	Nanotechnology based Drug and Gene Delivery
Dr. Vivek Verma	Ramalingaswami Fellow	Plant Stress Biology
Dr. S. P. Singh	Assistant Professor (Contractual)	Metabolic Syndrome/Diabetes/Cardiovascular Diseases, Develop Diagnostic, Screening Methods and New Non-toxic Drugs

### Academic Activities

#### Extramural funding received

- Various extramural funded-projects of Rs. 390.3 lakhs are ongoing in the Department sanctioned by different agencies of Government of India e.g. DST, CSIR, DBT, and DST-SERB etc.
- In the current year (2019-2020), Department has received extramural grants of Rs. 38.3 Lakhs.



## Equipments procured/Facility

### Available during 2019-2020

- Stereozoomic Microscope
- PCR
- Refrigerated Centrifuge
- Shaking Waterbath
- Electrophoresis System
- Incubator Shaker
- Sonicator
- Autoclave
- Flow Cytometer
- Analytical Balance
- Cooling Incubator
- Deep Freezer
- Cold Cabinet
- Laminar Air Flow
- Liquid N2 storage container, Nitrogen gas cylinder,
- UV-Vis Spectrophotometer
- Green House
- Rotary Evaporator
- Fluorescent Microscope
- Multigas Incubator
- Biosafety Cabinet
- Centrifuges
- Lyophilizer
- Computer Workstations
- Trans Blot
- Thermo Shaker
- Nanodrop
- Fluorescence spectrophotometer



*Animal Cell Culture Facility*



*Research lab*

## Department of Microbiology

### [Head: Prof. Pawan Kumar Dadheech]

The Department of Microbiology came into existence in July 2012 under the School of Life Sciences. Since the inception, the department is focused to attain the very objectives of teaching and training students in fundamental and applied microbiology and meet the demand for microbiologist for academia/ research and Industries. We carry out qualitative research at par with International and National University/ research organization and to develop the microbial diversity consortia of community thriving in Rajasthan.

### Programs offered

- Ph. D. in Microbiology
- M. Sc. Microbiology
- Integrated M.Sc. Microbiology





## Faculty

Name	Designation	Area of Specialization
Dr. Pradeep Verma	Professor	Fermentation and Bioprocess Technology, Biofuels
Dr. Pawan K. Dadheech	Professor	Microbial diversity and phylogenetics, Metagenomics, Cyanobacterial bioprospecting, Cyanotoxins
Dr. Inshad Ali Khan (Joined on 01/06/2020)	Professor	Clinical Microbiology focusing on the identification of new targets/ new compounds/ new target based assays against Mycobacterium tuberculosis and bacterial efflux pump inhibition
Dr. Arvind Pratap Singh	Assistant Professor	Antimicrobial resistance in non-clinical settings, Animal Microbiome
Dr. Akhil Agrawal	Assistant Professor	Petroleum microbiology, Metagenomics, Cyanobacterial biotechnology
Dr. Nidhi Pareek	Assistant Professor	Microbial proteomics, Marine bioprospecting, Bioprocess development
Dr. Chandra Sekhar Gahan	Assistant Professor	Bioprocess Engineering and Bio-Hydrometallurgical Engineering
Dr. Deeksha Tripathi	Assistant Professor	Molecular biology of infectious diseases, Host-pathogen interactions,
Dr. Vijay Kumar Verma	Assistant Professor	Molecular cell biology and biochemistry of Infectious diseases

## Academic Activities

### Expert/Guest lecture/Seminar/Visit

Name	Guest /Invited lecture	Date
Dr. <b>Sunil Mundra</b> Researcher, Section for Genetics and Evolutionary Biology (EVOGENE),	The Department of Biosciences, University of Oslo, Norway on the topic " Title: Microbial communities in the root and soil: an environmental sequencing approach and pitfalls"	6/8/2019
Dr. <b>Uzma Saqib</b> , Scientist, IIT Indore	The topic " Title: Targeting End Binding Proteins as a therapeutic strategy for prevention of vascular permeability in ARDS"	7/2/2020

## Extramural funding received

- Department of Science and Technology, Government of India sanctioned INR. 45 lakhs under DST-FIST (Level 1 category) program for a period of five years (2016- 2021).
- Various extramural funded-projects of INR 368.3 lakhs are ongoing in the Department sanctioned by different agencies of Government of India e.g. DST, CSIR, DBT, and DST-SERB and MHRD IMPRINT2.

## Equipments procured/Facility

### Available during 2019-2020

- Compound Microscope
- Thermal Cycler PCR
- Refrigerated Centrifuge
- Shaking Water bath
- Electrophoresis System
- Incubator Shaker
- Autoclave
- Analytical Balance
- Cooling Incubator
- UV-Vis Spectrophotometer
- Rota Evaporator
- Biosafety Cabinet
- Centrifuges
- Laminar Air Flow
- Thermo Shaker
- Deep Freezer (-80<sup>o</sup>C & -20<sup>o</sup>C)
- CO2 Incubator
- RT-PCR (LC-96)

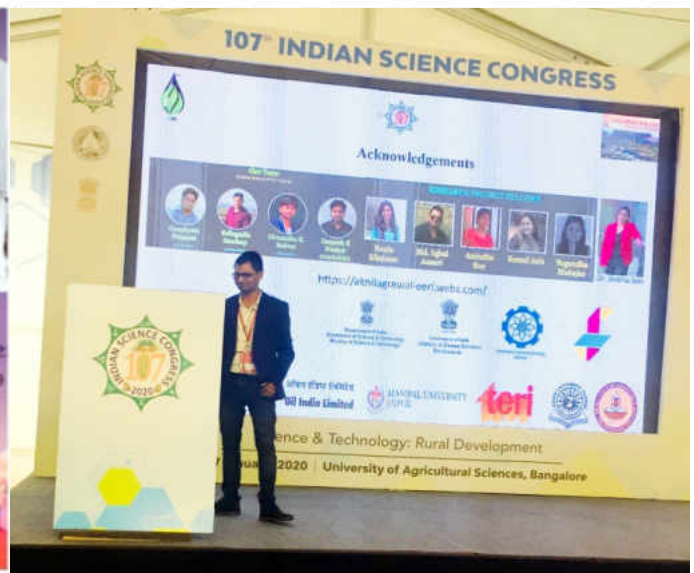
## Awards/Achievements

### Faculty Achievements

- Dr. Vijay Verma, Assistant Professor, received "AMI-Young Scientist Award 2019" in the area of "Molecular Microbiology and Biotechnology" from The Association Of Microbiologists of India
- Dr. Nidhi Pareek Assistant Professor received of 2<sup>nd</sup> Chancellor's Award for best faculty-2019 by Central University of Rajasthan, Bandarsindri.

### Students Achievements

- Ms. Twinkle Soni (2018MSMB003) Qualified CSIR NET-JRF- 2019 Rank-70 & GATE- March, 2020.
- Ms. Diksha Pawar (2018MSMB007) Qualified CSIR NET-LS-2019-20.
- Ms. Shubhangini Singh (2015IMSMB020) Qualified GATE- March,2020, Rank-739 and selected for PhD from IIT Guwahati
- Ms. Urvashi Yadav (2017IMSMB009) selected at MS-PhD program in the NIBMG, Kalyani, West Bengal.
- Mr. Akshay Mehta selected at MS-Ph. D. program in the IIT Indore, Madhya Pradesh.



Dr. Vijay Verma receiving AMI-Young Scientist Award during Annual Conference of Association of Microbiologists of India -2019 and Dr. Nidhi Pareek receiving 2nd Chancellor's Award for best faculty-2019 during 6<sup>th</sup> Convocation Ceremony on 3rd December, 2019 by Central University of Rajasthan

Dr. Akhil Agrawal invited for Plenary Lecture at 107<sup>th</sup> Indian Science Congress held at GRVK Agriculture University, Bengaluru





## School of Mathematics, Statistics and Computer Sciences

### DEAN: PROF. JUGAL K. PRAJAPAT

The School strives to sensitize and train young students as future researchers in the frontier areas of applied fields, adopting the multi-disciplinary and inter-disciplinary approach. The school also trains the students for Research and Development of ICT and related industries and research organizations. The Mathematics department of this school is running a program to prepare Mathematics teachers both for higher as well as at plus two level. Various innovative programs have been initiated by the departments of this School for local and global need.

#### Department

- Department of Computer Science
- Department of Mathematics
- Department of Statistics
- Department of Data Science & Analytics

### Department of Computer Science

#### [Head: Prof. Jugal K. Prajapat]

Central University of Rajasthan has initiated Department of Computer Science in the year 2010-11 with specialization Artificial Intelligence, subsequently department has started Int. M. Sc. (CS), M. Sc. (CS) in Big Data Analytics, M. Tech. (CS) in Cyber Physical Systems and Ph.D. in Computer Science. The vision of the department is to create excellence in the field of emerging computer science and its applications. The driving mission for the department is to develop advances of research in computer science to offer best practices and research experience to its students.

#### Programs offered

- Ph. D. in Computer Science
- M. Sc. Computer Science (2 Years)
- Integrated M. Sc. Computer Science (5 Years)

Name	Designation	Area of Specialization
Dr. Mamta Rani	Associate Professor	Fractal Graphics and Chaos
Dr. Nistha Kesswani	Assistant Professor	Wireless Networks
Dr. A. NagaRaju	Assistant Professor	Mobile and Wireless Sensor Networks, Resource Optimization in High Performance Distributed Computing, Internet of Things (IOT).
Mr. Gaurav Meena	Assistant Professor	DBMS, Information Security and Ad-hoc Networks
Mr. Ravi Raj	Assistant Professor	Algorithms, Image processing
Dr. Krishna Kumar Mohbey	Assistant Professor	Data Mining, Mobile E-Commerce
Dr. Ajay Indian	Assistant Professor	Artificial Neural Networks, Image Processing, Data Mining

#### Academic Activities

##### Expert/Guest lecture/Seminar/Visit

Name	Event	Date
Dr. Souradyuti Paul, Indian Institute of Technology, Bhilai	Department Workshop	05-07/03/2020

Dr. Yamuna Prasad, Indian Institute of Technology, Jammu	<i>Department Workshop</i>	05-07/03/2020
<b>Dr. Sumit Kalra</b> , Indian Institute of Technology, Jodhpur	<i>Department Workshop</i>	05-07/03/2020
<b>Dr Debasis Das</b> Indian Institute of Technology, Jodhpur	<i>Department Workshop</i>	05-07/03/2020
<b>Dr. Vibekananda Dutta</b> , Assitant Professor, Warsaw University of Technology, Poland	<i>Lecture on "Research using robotics"</i>	10/09/2019
<b>Mr. Lakhpat Singh Naruka</b> , EBSCO	<i>Lecture on Accessing IEEE</i>	26/09/2019

### Other Academic Activities

- Department organized Three-Day National Level Workshop on the topic “Securing the Smart Cities with the Internet of Things (IoT) and BlockChain” under the scheme of DST (ICPS Programme) from 05-07 March, 2020.



*Three-Day National Level Workshop on the topic “Securing the Smart Cities with the Internet of Things (IoT) and Block Chain*



*Department Extracurricular Activities (Presentation-Seminar*

## Department of Mathematics

**[Head: Prof. Jugal K. Prajapat]**

In the very first year of the establishment of the University i.e., in 2009, the Department aims to prepare higher mathematics teachers and researchers for pure and applied mathematics and to prepare trained manpower needed for research and development related to industries and research organizations.

### Programs offered

- Ph. D. in Mathematics
- M. Sc. Mathematics (2 years)
- Integrated M. Sc. B. Ed. Mathematics (3 years)
- Integrated M. Sc. Mathematics (5 years)





## Faculty

Name	Designation	Specialization
Prof. D. C. Sharma	Professor	Operations Research, Mathematical Programming and Machining System
Prof. Jugal K. Prajapat	Professor	Complex Analysis, Geometric Function Theory, Planar Harmonic Mappings, Fractional Calculus
Dr. Anand Kumar	Assistant Professor	Fluid Dynamics, Magneto hydro dynamics, Boundary Layer Theory
Dr. Amit Chakraborty	Assistant Professor	Bio-Mathematics, Dynamical systems, environmental modeling and simulations
Dr. Vidyottama Jain	Assistant Professor	Fuzzy Optimization and Decision Making Financial Mathematics
Dr. Ram Kishor	Assistant Professor	Celestial Mechanics, Dynamical systems, Nonlinear Dynamics and Chaos, Mission Design
Dr. J. P. Tripathi	Assistant Professor	Mathematical Ecology and Epidemiology: Dynamical Systems
Dr. Vijay Kumar Yadav	Assistant Professor	Fuzzy Set Theory, Fuzzy Topology, Fuzzy
Dr. Vipul Kakkar	Assistant Professor	Algebra: Group Theory
Dr. Asha Kumari Meena	Assistant Professor	Computational Methods for Hyperbolic Partial Differential Equations
Prof. A. P. Singh	Professor (Contractual)	Complex Dynamics

## Academic Activities

### Extramural funding received

- Various extramural funded-projects of Rs. 85.17 lakhs have sanctioned by different agencies of Government of India e.g. UGC, DST-SERB.

### Awards/Achievements

- Prof. Jugal K. Prajapat nominated as member of Executive Council of Ramanujan Mathematical Society for three years (2019-2022).
- Dr. Amit Chakraborty, Honorary Research Associate position at the Agricultural Experiment Station, University of California, Riverside, USA (2019-2022).
- Dr. Amit Chakraborty, Visiting Professor, Southeast University, China (June, 2019).
- Dr. Amit Chakraborty, Recognized as external reviewer (Ecology Section), Austrian science fund, Austria (2019)



- Dr. Amit Chakraborty, invited to visit the three Gorges Environment Institute, Chinese Academy of Sciences, Chongqing, China (2019)
- Dr. Ram Kishor, selected as Visiting Associate of IUCAA, from 01.08.2019 to 31.07.2022 under the visiting associate ship programme of IUCAA, Pune (Maharashtra), India.

## Department of Statistics

### [Head: Dr. Arvind Pandey]

The Department of Statistics is one of the first two departments started along with Mathematics by Central University of Rajasthan and started its programme in academic year 2009. The main goal of the department is to impart quality education and promote theoretical, computational and applied knowledge in the subjects of Statistics, which enables the students to pursue their future careers either in the field academic, insurance firms or broadly in analytics industry. The department is actively engaged in teaching and research addressing substantive problems in the field of Actuarial Science, Bayesian Statistics, Distribution theory, Extreme Value Theory, Inference, Sampling Theory, Statistical Quality Control, Survival Analysis, Time Series Analysis and more. Department is offering good opportunity for the employment and alumni of the department who are working in government sector like ISS, RPSC etc, as well as reputed private organizations like SWISS Re, Edgewise Tokyo, KPMG, Sri Ram Finance, WNS Consultancy, The Rain Man Consultancy, Max Life Insurance, AON Hewitt Actuarial Consultancy, Nelson Private Ltd. etc. The faculties are active in executing research projects in collaboration with UGC, CSIR, and MOSPI etc. Many alumni are pursuing /completed their PhD from IIT/IIM.

### Programs offered

- M. Sc./M. A. Statistics
- Integrated M. Sc. Statistics
- Ph. D. in Statistics

### Faculty

Name	Designation	Area of Specialization
Dr. Jitendra Kumar	Associate Professor	Time Series, Policy Process Reengineering and Big Data
Dr. Arvind Pandey	Associate Professor	Survival Analysis, Frailty model, Bayesian Analysis, Bio Statistics and Copula Models.
Dr. Deepesh Bhati	Assistant Professor	Extreme Value Theory, Distribution Theory, Actuarial Statistics.
Dr. Sanjay Kumar	Assistant Professor	Sampling Theory.
Dr. Mahendra Saha	Assistant Professor	Industrial Statistics and Actuarial Statistics

### Academic Activities

#### Expert/Guest lecture/Seminar/Visit

Name	Event	Date
Dr. Amit Misra	BBA University, Lucknow <i>Probability Models</i>	9/8/2019





## Extracurricular activities

- Five Days Workshop on Teaching-Learning-Evaluation For Faculty Members of HEIs TLC, Central University of Rajasthan, August 5-9, 2019.

## Department of Data Science & Analytics

### [Head: Dr. Arvind Pandey]

The Department of Data Science & Analytics runs the M.Sc. CS (Big Data Analytics), 2 years (4 semesters) professional post-graduate program. The program started in 2016 in collaboration with TCS, aims to train students in the essential knowledge, tools and techniques required for solving a wide range of problems in data science and big data analytics. With the final semester dedicated to hands-on industrial training, the students are well-equipped to join the industry as data science professionals. Data Science is a highly multi-disciplinary subject. The M.Sc. CS (BDA) program consists of a judicious blend of courses in statistics, mathematics, and computer science, all required for core competencies in Data Science. The vision of the new department is to create excellence in teaching and research in Data Science, Artificial Intelligence and other related fields.

### Programs Offered

- M. Sc. Computer Science (Big Data Analytics), 2 Years.

### Faculty

Name	Designation	Area of Specialization
Dr. Vikas Kumar	Assistant Professor	Machine Learning, Data Mining, Matrix Factorization, Recommender Systems, Multi-Label Classification
Dr. Upasana Talukdar	Assistant Professor	Artificial Intelligence, Cognitive Robotics, Knowledge Representation

### Academic Activities

#### Expert/Guest lecture/Seminar/Visit

Name	Event
Dr. Pramod Gaur, Assistant Professor, LNMIIT Jaipur	Lectures on "Enabling Technologies for Data Science"
Prof. Neeraj Bhargava, MDS University, Ajmer	Lectures on "Data Base Management"

### Other Academic Activities

Department of Data Science & Analytics organized a one-day workshop on 'Brain & Computation: Current Trends and Future Prospects' on 14 February, 2020.

### Equipments Procured/Facility

Currently for venturing into Deep Learning, the department has procured a custom-made server which has best of class specifications 2x Intel Xeon Silver 4216 Processor, 16 Core, 22M Cache, 2.10 Ghz, 16x GeForce RTX2080 Ti (11GB GDDR6), 128GB DDR4-2666 ECC RDIMM.



*Participants and Invited Guests in the Workshop “Brain & Computation: Current Trends and Future Prospects” held on 14 February, 2020*



*During the Inaugural Session of the Workshop “Brain & Computation: Current Trends and Future Prospects” held on 14 February, 2020.*





## School of Physical Science

**DEAN: DR. AJIT KUMAR PATRA**

### Departments

- Department of Physics

### Department of Physics

**[Head: Dr. Ajit Kumar Patra]**

The Department of Physics, Central University of Rajasthan was established in 2011. The Department offers three postgraduate courses; 2 years M. Sc. Physics, 3 years integrated M.Sc. B.Ed. Physics and 5 years integrated M.Sc. Physics. In addition, Ph.D. program is also introduced from the year 2014. The Department has excellent experimental and computational lab facilities for both undergraduate and master degree students. The Department of Physics provides deep physical insight and the ability to any physics students to realize such insights in a creative way thorough a wide-ranging education in both experimental and theoretical subjects. The Department of Physics has an excellent team of competent faculty members involved in cutting-edge research and teaching to develop the careers of the next generation of physicists. Main research areas are Condensed Matter Physics, Laser and Optics, and Non-Linear Dynamics. The research is also supported by various funding agencies with approximately Rs. 2.5 crore funding. The department has achieved great success by producing outstanding undergraduate and master students who are employed in world class institutes like BARC, PRL and other academic institutes and also cleared national level exams like NET-JRF, GATE, and JEST.

### Programs offered

- Ph.D. in Physics
- M. Sc. Physics (2 years)
- Integrated M.Sc. B. Ed. Physics (3 years)
- Integrated M. Sc. Physics (5 years)

### Faculty

Name	Designation	Area of Specialization
Prof. Manish Dev Shrimali	Professor	Nonlinear Dynamics and Chaos
Dr. Ajit Kumar Patra	Associate Professor & Head	Magnetism and spin dependent transport in nanoscale structures
Dr. Rajneesh Kumar Verma	Assistant Professor	Surface Plasmon Resonance Photonics
Dr. Neeraj Panwar	Assistant Professor	Multiferroics and Lead free Piezoelectrics, Exchange-Bias, Magnetization reversal
Dr. Sukhmander Singh	Assistant Professor	Plasma waves, instabilities and electric propulsions
Dr. Brijesh Kumar Singh	Assistant Professor	Optical phase singularity, laser beam shaping
Dr. Rakesh Kumar	Assistant Professor	Correlated quantum many body systems, Topological phases
Dr. Sahinur Reja	Assistant Professor	Condensed Matter Theory
Dr. Yugandhar Bitla	Assistant Professor	Experimental Condensed Matter Physics
Dr. Sandeep Kumar	UGC FRP Assistant Professor	Experimental condensed matter physics
Dr. Pradeep Kumar	DST Inspire Faculty	2D Nano materials, Graphene, EMI shielding, Thermal Management, Energy Storage Application
Dr. Divya Srivastava (On Leave)	DST Inspire Faculty	Graphene, Carbon nanotube and density functional theory
Prof. K.P.N Murthy	Professor (Visiting Faculty)	Theoretical Physics

## Academic Activities

### Expert/Guest lecture/Seminar/Visit

Name	Event	Date
Prof. Alessandro Melo de Ana, University Nove de Julho, Brazil	<i>Principle of Bio-photonics and it's Applications, CURAJ</i>	05/07/2019
Prof. H.A. Fertig, Indiana University Bloomington, USA	<i>Probing Topology with Magnetism: A View from the Surface, CURAJ</i>	15/01/2020

### Extramural funding received

Various extramural funded projects of Rs. 2.4 Crore are ongoing in the Department sanctioned by different agencies of Government of India e.g. DST-RFBR, DST-SERB, DST-RSF, IUAC and UGC etc.

### Equipment procured/Facility

Cryo-free High Magnetic Field and Low Temperature Facility for Physical Property Measurements.

### Awards/Achievements

- Two students qualified JRF: Monu Singhal (2019-22), Pramod Kumar Bhardwaj (2016-19)
- Five students qualified GATE: Chayanika Sharma (2017-20) Nitin Choudhary (2017-20), Satyabrata Jana (2018-20), Sachin Yadav (2014-19), Seema Dukiya (2014-2019),
- Five students qualified JEST and JAM: Lakshya Sharma (2017-22), Ashwini Vaishnav (2019-22), Akash Shukla (2017-22), Monu Singhal (2019-22), Harshita Sen (2017-22)
- Two students joined PhD program: Swarnendu Mandal (2016-19), Firoz Khan (2017-19)
- Three students join M.Sc. program at IITs: Tarun Vaishnav (2015-20), Lakshya Sharma (2017-22), Akash Shukla (2017-22)



6<sup>th</sup> International Conference on Complex Dynamical Systems and Applications (CDSA2020) on February 20-23, 2020



Annual activities at Department of Physics



## School of Sports Science

### COORDINATOR: DR. CHANDRA SEKHAR GAHAN

The School of Sports Sciences MYAS-CURAJ was established in May 2018 with the support of the Ministry of Youth Affairs and Sports (MYAS), Govt. of India. The School of Sports Sciences started with three postgraduate programs in the year 2018. The School of Sports Sciences

has three different post graduate programs. All the Post-graduate programs are under the category of Professional Courses of the University. The School aims to carry out active teaching and research in the various fields of Sports Sciences. The Master programs of this school would enhance the knowledge of the students in sports sciences and improve their level of understanding with underlying scientific principles in sports sciences. The courses would emphasize on both theoretical and laboratory aspects which would help the students to enrich and sharpen their knowledge both in instrumentation techniques and software based simulations in sports sciences.

#### Departments

- Department of Sports Bioscience
- Department of Sports Biomechanics

### Department of Sports Bioscience

#### [Head: Dr. Chandra Sekhar Gahan]

Central University of Rajasthan has started Department of Sports Biosciences under the School of Sports Sciences MYAS-CURAJ supported by the Ministry of Youth Affairs and Sports (MYAS). The department runs three M.Sc. programs: M.Sc. Sports Physiology, M.Sc. Sports Biochemistry and M.Sc. Sports Nutrition. These courses would enhance the knowledge of the students in Sports Biosciences and improve their level of understanding with underlying biological scientific principles in sports sciences. The courses would emphasize on both theoretical and laboratory aspects and most specifically the biochemical and nutritional analysis together with computational simulation. The program would also allow students to interact and carry out their practical tests both on the field with the athletes/sports persons during the games and sports. This would allow the students to enrich and sharpen their knowledge both in instrumentation techniques and software for understanding the underlying intricacies of sports activities and improvisation of the games/sports. Appealing to those with an enthusiasm for biosciences of sports, physical activity and human biology, these courses would teach how sporting performance can be improved to ensure individual level success and achieve improvisation in the potential of sports persons.

#### Program Offered

- M. Sc. Sports Biochemistry
- M. Sc. Sports Nutrition
- M. Sc. Sports Physiology



## Faculty

Name	Designation	Area of Specialization
Dr. Chandra Sekhar Gahan	Associate Professor	Biochemistry, Bioprocess Engineering Biochemical Engineering
Dr. Neha Singh	Assistant Professor	Sports Biosciences, Biomedical Sciences
Dr. Hemant Naick Banavath	Assistant Professor	Sports Biosciences, Biochemistry
Dr. Sunil G Purohit	Assistant Professor	Biochemical monitoring of sports training and recovery
Dr. Ram Gopal Nitharwal	Assistant Professor (Temporary)	Biomolecules and Exercise Metabolism Nutritional and Exercise Biochemistry
Dr. Shivani Kapil	Assistant Professor (Temporary)	Clinical & Sports Nutrition, Community Nutrition, Nutrition supplementation & periodization
Dr. Nisha	Assistant Professor (Temporary)	Food processing, Dietetics, Therapeutic Nutrition, Product development, Food Science
Prof. Agyajit Singh	Guest faculty	Educational Psychology, Sports Psychology, Health Psychology
Dr. Aparna Satapathy	Guest faculty	Medical Physiology, Biochemistry Molecular Biology & Bioinformatics
Mr. Chennakeshavulu	Guest faculty	Exercise Physiology and Kinesiology
Dr. E.V. Subbaiah	Guest faculty	Biochemistry and Physiology

## Academic Activities

### Expert lecture/Seminar/Visit

Name	Event	Date
Prof. Shanti Johnson	Dean, School of Public Health, University of Alberta, Canada. <i>"Ageing and Health"</i>	08-09/08 2019
Dr. M. D. Ranga	Former Senior Scientific Officer NSNIS, Patiala. <i>"Application in Sports Biomechanics."</i>	19-09-2019
Prof. G. L. Khanna	Project Director, (NCSSR) Ministry of Youth Affairs and Sports, New Delhi. <i>"Sports Physiology"</i>	21-11-2019

## Equipment's Procured/Facility Available

### MAJOR EQUIPMENTS

- Portable Digital Electronic Body Weigh Scale
- Semi-automatic Biochemistry Analyzer
- Bench Top pH meter
- Fully Automatic Hematological Analyzer
- Refrigerator
- Weighing Balance
- Deep Freezer (-40°C)
- Electromyography (EMG) and nerve
- Serological Water Bath
- Hot plate and magnetic stirrer
- Spirometer (Portable)
- Hot air Oven
- Table Top Vortex Mixer





### MINOR EQUIPMENTS

- B.P. Instrument (Sphygmomanometer)
- Cardio Check Health Kit
- Finger Pulse Oxymeter
- Stadiometer Digital
- Wired Measuring Tape
- Thera-Bands
- Skipping Ropes
- Digital Glucometer
- Steel Measuring Tape
- Stadiometer Portable
- Sit-ups Mats
- Resistance Training Loop/Band
- Abdominal Wheel Roller
- Portable Spirometer
- Anthropometric Measuring Set
- Digital Metronome
- Skin Fold Calliper For Lab
- Stethoscope Litman Type
- Cones
- Gym Balls
- Chin-up bar
- Sit & Reach Box
- Skin Fold Calliper Portable
- Stop Watch Digital
- Ladders for Speed & Agility drill
- Medicine Balls
- Push-up bar

### HUMAN BODY MODELS

- Human Brain
- Human Eye
- Ear With Pinna
- Heart
- Functional Hip Joint
- Functional Elbow Joint
- Imported Vertebral Column with Stand
- Imported Human Skeleton with stand
- Torso with Head and Interchangeable Male and Female Genitalia
- Kidney on Stand
- Liver showing Gall Bladder
- Functional Shoulder Joint
- Functional Wrist Joint
- Functional Ankle Joint
- Imported Functional Knee Joint (Right)
- Stomach on Stand

### Awards/Achievements

Name of Students	Course	Batch	Exam qualified	Year
Manisha Kumari	M. Sc. Sports Nutrition	2018-20	NET-LS	2019
Anjali Vashishth	M. Sc. Sports Nutrition	2018-20	NET-LS	2019



Guest Lecture by Prof. G.L. Khanna  
(Sports Physiology) and Prof. Agyajeet Singh  
(Sports Psychology)



Teaching and Non-Teaching staff members

## Department of Sports Biomechanics

### [Head: Dr. Chandra Sekhar Gahan]

Central University of Rajasthan has started Department of Sports Biomechanics under School of Sports Sciences CURAJ-MYAS funded by the Ministry of Youth Affairs and Sports (MYAS). The department is offering one M.Sc Program in Sports Biomechanics for those students who are enthusiastic and interested in making a career in sports bioengineering and mechanical aspects of sports person/athlete, physical activity and human biology. This course covers the area of study where the knowledge and methods of mechanics are applied to the structure and function of the human body.

### Program Offered

- M. Sc. Sports Biomechanics

### Faculty

Name	Designation	Area of Specialization
Dr. Chandra Sekhar Gahan	Associate Professor	Biochemistry, Bioprocess Engineering Biochemical Engineering

### Academic Activities

#### Expert lecture/Seminar/Visit

Name	Event	Date
Prof. Shanti Johnson	Dean, School of Public Health, University of Alberta, Canada. <i>"Ageing and Health"</i>	08-09/08 2019
Dr. M. D. Ranga	Former Senior Scientific Officer NSNIS, Patiala. <i>"Application in Sports Biomechanics."</i>	19-09-2019
Prof. G. L. Khanna	Project Director, (NCSSR) Ministry of Youth Affairs and Sports, New Delhi. <i>"Sports Physiology"</i>	21-11-2019







## Equipment's Procured/Facility Available

### MAJOR EQUIPMENTS

- Portable Digital Electronic Body Weigh Scale
- Semi-automatic Biochemistry Analyzer
- Serological Water Bath
- Hot plate and magnetic stirrer
- Spirometer (Portable)
- Hot air Oven
- Table Top Vortex Mixer
- Deep Freezer (-40°C)
- Electromyography (EMG) and nerve conduction velocity (NCV)
- Bench Top pH meter
- Fully Automatic Hematological Analyzer
- Refrigerator
- Weighing Balance

### MINOR EQUIPMENTS

- B.P. Instrument (Sphygmomanometer)
- Cardio Check Health Kit
- Finger Pulse Oxymeter
- Stadiometer Digital
- Wired Measuring Tape
- Thera-Bands
- Skipping Ropes
- Digital Glucometer
- Steel Measuring Tape
- Stadiometer Portable
- Sit-ups Mats
- Resistance Training Loop/Band
- Abdominal Wheel Roller
- Portable Spirometer
- Anthropometric Measuring Set
- Digital Metronome
- Skin Fold Calliper For Lab
- Stethoscope Litman Type
- Cones
- Gym Balls
- Chin-up bar
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### HUMAN BODY MODELS

- Human Brain
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- Kidney on Stand and Stomach on Stand
- Liver showing Gall Bladder
- Functional Shoulder Joint
- Functional Wrist Joint and Ankle Joint
- Imported Functional Knee Joint (Right)

## Awards/Achievements

Name of Students	Course	Batch	Exam qualified	Year
Mohor Chattopadhyay	M.Sc. Sports Biomechanics	2019-21	NET-LS	2019



*Floral welcome to Dr. M.D. Ranga, Retd.  
Scientific Officer NIS Pataiala for Lecture on  
Application in Sports Biomechanics*



*ECG Test Conducted for practical class for the  
Sports Biomechanics*





## School of Social Science

### DEAN: PROF. JAGDISH JADHAV

The School of Social Science has five major innovative academic departments: Public Policy, Law and Governance, Economics, Social Work, Media and Culture Studies and Society-Technology Interface. The curricula developed and taught in all the Departments are modernized and improved considering latest academic trends of the disciplines. The faculties of the School representing established Universities of the Country have done significant academic work in the last Academic Year 2019-20. Amounting more than 50 Lakhs Project Grants have been accrued by very talented faculty members of the School from various external agencies like National Commission for Women (NCW), DST, UGC-MRP and ICSSR.

### Department of Culture and Media Studies

#### [Coordinator: Dr. Nicholas Lakra]

The Department of Culture and Media Studies started its academic journey in July 2011 under the School of Social Sciences. It was established to nurture new fields of enquiry in the domain of interdisciplinary media, cultural, and communication studies in India by training the young minds through teaching and research. The curriculum is designed to enable the students to understand the inter-relation between media and culture that shapes the individuals and communities and is in turn shaped by them. The Department aims to prepare the students to enter the world of media and cultural studies with a critical perspective and analytical mind through an introduction to various media technologies, practices, and narratives. The Department equip the students to handle media technologies and to inculcate journalistic skills and values. Through inter-disciplinary approach, the Department builds the foundation for the students to produce cutting edge documentaries, films, videos, photographs, and other forms of creative expression. The students are acquainted with media industries and organizations through internship, industrial visits, conferences, workshops by prominent visiting faculty and professionals. They are enabled to handle media equipment and techniques that would help them secure a place in media industry, research organizations, and educational institutions. The Department stands for 'Communication for a Meaningful Society'.

### Programs offered

- Ph. D.
- M. A. in Culture and Media Studies
- PG Diploma in Media Writing and Digital Communication

### Faculty

Name	Designation	Area of specialization
Prof. Subhash Dhuliya	Professor (Contractual Reemployed)	<ul style="list-style-type: none"> <li>• Journalism and Communication Studies</li> <li>• International Communication</li> <li>• Development Communication Conceptualizing and Designing Programmes</li> </ul>
Dr Pranta Pratik Patnaik	Assistant Professor	<ul style="list-style-type: none"> <li>• Cultural Rights</li> <li>• Media Practices</li> <li>• Gender and Sexualities</li> <li>• Research Methodology</li> <li>• Globalisation</li> </ul>



Dr Nicholas Lakra	Assistant Professor	<ul style="list-style-type: none"> <li>Journalism and Media studies</li> <li>Intercultural communication</li> <li>Communication Research (Content Analysis)</li> <li>Human Rights Studies</li> <li>Tribal and Indigenous people</li> <li>Heritage</li> <li>Culture and Museum studies</li> </ul>
Dr Neeru Prasad	Assistant Professor	<ul style="list-style-type: none"> <li>Media Studies</li> <li>Print Media</li> <li>Cyber Journalism</li> <li>Advertising and Public Relations</li> </ul>
Dr Anoop Kumar	Assistant Professor	<ul style="list-style-type: none"> <li>New media and digital media studies</li> <li>Media convergence</li> <li>Web/digital journalism</li> <li>Mobile journalism</li> <li>Development communication</li> <li>Journalism</li> <li>Communication theories</li> <li>Qualitative research</li> </ul>

## Academic activities

### Expert lecture/Seminar/Visit

Name	Event	Date
Prof. Mrinal Chatterjee	IIMC (Dhenkanal, Odisha) <i>Future of Mass Media in India</i>	29-07-2019
Mr Ramesh Chandra	IIMC New Delhi Video Production	26-30-8-2019
Dr Amit Kumar	Assistant Professor, School of Journalism and New Media Studies, IGNOU, New Delhi Production & Photography	14-19-10-2019
Mr Rochak Sahu	Independent Film Maker, Mumbai Video Production, fiction Film	1-10-11-2019

### DST National Workshop organized (March 13-15, 2020)

The Department of Culture and Media Studies in collaboration with Society Technology Interface, organized a three-day, DST sponsored National Workshop on the topic Application of Artificial Intelligence for conservation of cultural heritage of India, during March 13-15, 2020. It attracted participants from all over the country who were engaged for 3 days with eminent resource persons like Dr. Santosh Vipparthy, MNIT (Jaipur), Dr. V.K.Mathur, Art Historian & Museologist (New Delhi) and Dr. Nisthaa Madan, IBM (New Delhi). Dr Vikas Kumar, Dept. of Data Science & Analytics, Mr Swayam Prakash, and Dr. Nicholas Lakra of CURA] also contributors in the Technical Sessions. Dr. Nicholas Lakra, Asst. Professor, CMS Dept was the convenor of the workshop.

### Media Industry Tour (18<sup>th</sup> November, 2019)

In order to give first-hand exposure to the working of media production house, both audio-visual and

