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Extramural Funding Projects

The Central University of Rajasthan is operating the following 115 research projects during the academic year 2019-2020 in its various departments. These extramural projects have been funded by various funding agencies from India as well as from foreign countries such as Department of Science & Technology, University Grant Commission, Department of Biotechnology, Council of Scientific & Industrial Research, Inter University Accelerator Centre, Indian Council of Social Science Research, Ministry of Water Resources, Asia-Pacific Network for Global Change Research (Japan). More details about the ongoing research projects are following.

SCHOOL OF CHEMICAL SCIENCES AND PHARMACY

DEPARTMENT OF CHEMISTRY

DST-FIST (Level-1 category)	70.5 Lakhs	2016-2021	DST, GoI
Prof. R. T. Pardasani			
A Divergent Synthesis of Benzazoles via Direct C-H Activation and their Cytotoxic Activity: A Way to Cancer Research	25.7 Lakhs	2017-2020	DST-EMR
Dr. Easwar Srinivasan			
Studies on the Organocatalytic Enantioselective Construction of Tetrahydroxanthenones	40.0 Lakhs	2018-2021	SERB
Design of Novel Bifunctional Amine-Urea/Thiourea Catalysts for Asymmetric C-C Bond Forming Applications	28.0 Lakhs	2017-2020	CSIR
Studies on the Asymmetric Mannich and Michael Addition Reactions Catalyzed by a Folding Bifunctional Organocatalyst	<i>Mobility Grant (1.0 lakh)</i>	2019	DST-Academy of Finland (Collaborative)
Dr. Anuj Sharma			
Smart Metal Chelator for MRI Contrast Agent	35.0 Lakhs	2014-2019	DST
Multifunctional Small Molecule based on Azo-Stilbene Molecular Framework as Amyloid Imaging Agents and Metal Chelators for Controlling Metal Induced-Neurodegenerative Diseases	54.3 Lakhs	2016-2019	DST-SERB
Design and Synthesis of Selected Transition Metal (Fe, Ru, Rh, Ir) complexes/Arene Complexes and Investigating their Anticancer Potential	10.0 Lakhs	2018-2021	UGC
Crystal Engineering and Molecular Magnetism in Some 3d Bivalent Metal Organic Framework (*Mentor of Dr. Kishalay Bhar, NPDF)	19.2 Lakhs	2017-2019	SERB, N-PDF
Dr. M. Bhanuchandra			
Development of Sustainable Reactions and Methods using Dibenzothiophene 5,5-Dioxide: Synthesis of Pi-Conjugated Systems	38.72 Lakhs	2017-2020	DST-SERB



Development of Novel Strategies for the Construction of Benzothiophene Dioxide	10.0 Lakhs	2017-2019	UGC
Transition Metal-Catalyzed C-H Nitrogenation and Oxygenation of Arenes using Sulfoxides as Functionalizable Directing Groups	36.3 Lakhs	2018-2021	SERB
Dr. Thirumoorthi R.			
Half Sandwich Organotellurium Oxides/Hydroxides: An Alternative Reagent in Organic Synthesis	9.0 Lakhs	2019-2022	CSIR
Dr. Partha Roy			
Development of the Various One-dimensional TiO ₂ nanostructures	10.0 Lakhs	2018-2019	UGC
Probing the Charge Transfer Mechanism in Exciplex System using lifetime Measurement	19.08 Lakhs	2019-2022	SERB
Engineering of Resilient Superhydrophobic Coating using TiO ₂ Nanostructured in combination with Ultrathin Conformal Layer of Organic Molecules	49.97 Lakhs	2019-2022	SERB
Dr. Ritesh Singh			
C-H bond Functionalization to Access Bio-relevant Scaffolds	35.0 Lakhs	2015-2020	DST
Dr. Jony Saha			
Development of Mn, Fe, Co and Ni based Ordered Mesoporous Metal Phosphate Materials and their Application as Catalysts in Electrochemical Water Oxidation	35.0 Lakhs	2017-2022	DST
Dr. Hemant Joshi			
Synthesis of Metal Complexes of Mechanically Interlocked Molecules and their Applications	35.0 Lakhs	2018-2023	DST

DEPARTMENT OF PHARMACY

DST-FIST (Level-1 category)	61.0 Lakhs	2017-2022	DST, GoI
Prof. Amit K Goyal			
Polymeric Nanostructures for Treatment of Microbial Infections	60.25 Lakhs	2019-2022	BRICS, DST, GoI
Prof. Vipin Kumar			
Isolation of Antidiabetic and Enzyme Inhibitory Constituents of Cassia Siamca	7.86 Lakhs	2017-2020	DST, GoR
Dr. Devesh M Sawant			
Design, synthesis and characterization of multifunctional platform for targeted-tumor therapy	60.89 Lakhs	2018-2021	SERB, GoI
Dr. Ruchi Malik			
Design, Synthesis and Biological Evaluations of β -Secretase Inhibitors as Anti-Alzheimer's Agents	19.84 Lakhs	2017-2019	DST-India and MSHE, Poland



Computational Studies, Synthesis and Biological Evaluation of Novel Pyrimidin-4-amine Derivatives, as Multi Targeted Kinase Inhibitors	7.68 Lakhs	2016-2019	DST, GoR
Design, Synthesis and Biological Evaluation of GSK-3 Inhibitors as Cognition Enhancers	12.0 Lakhs	2017-2019	DST-DAAD
Dr. Kaiser Raza			
Targeted, Safe and Effective Delivery of Doxorubicin to Breast Cancer Cells by Means of Strategically-Designed Folate-Tagged Phospholipid-Based Mixed Nanomicelles	32.48 Lakhs	2017-2021	DBT, India
Multi-Functional Nanomaterial Systems for Modulation of Glycosylation in Animals	31.45 Lakhs	2018-2021	DST-Nanomission
Dr. Umesh Gupta			
Dendrimer Mediated Non-Invasive Delivery of Rifampicin and Imipenem for the Effective Treatment of Pulmonary Tuberculosis	3.06 Lakhs	2016-2019	DST, GoR

SCHOOL OF COMMERCE AND MANAGEMENT

DEPARTMENT OF MANAGEMENT

Dr. Sanjay Kumar Garg			
A Comprehensive Study of Implementation of Bhamashah Yozna in the State of Rajasthan: An Empirical Analysis	7.00 Lakhs	2019-2020	IMPRESS, ICSSR
Dr. Avantika Singh			
Assessing Economic and Social Impact of Self-Help Group Movement in Rajasthan	10.00 Lakhs	2019-2020	IMPRESS, ICSSR

SCHOOL OF EARTH SCIENCES

DEPARTMENT OF ATMOSPHERIC SCIENCE

Prof. Someshwar Das			
Towards the International Collaboration to the Implementation of the Early Warning System for the South Himalayan Cloudburst Disaster (Co-PI)	3252,000 (YEN)	2018-2020	DPRI, Kyoto University, Japan
Improvement of extreme severe storm predictability in multiple scales for mitigation of the atmospheric disasters over the North Indian subcontinent (Co-PI)	2000,000 (YEN)	2019-2020	Sumitomo Foundation, Japan
Dr. Devesh Sharma			
Water-Energy-Food Nexus Approach for Making Path of Sustainable Development Goals (SDGs) to the Country Actions	6.30 Lakhs	2017-2019	APN/IGES



Climate Change Impact Studies for Rajasthan (Area of Inland Drainage and Mahi Basin)	30.78 Lakhs	2018-2021	INCCC, MoWR
Integrated Atmospheric-Hydrological Modeling System to Assess the Impact of Climate Change on Water Resources in the Banas River Basin, Rajasthan	23.82 Lakhs	2020-2023	DST-SERB
Dr. Subrat Kumar Panda			
Investigation of Changes of Climate and its Extremes in Different Eco-Regions of India	10.0 Lakhs	2018-2020	UGC Start up
Dr. Chinmay Mallik			
Understanding atmospheric ammonia near its global hotspot region	10.0 Lakhs	2018-2020	UGC Start up
Dr. Jayanti Pal			
Recent changes in Indian Ocean dipole in response to the tropical Indian Ocean Sea surface temperature patterns and its consequences	10.0 Lakhs	2018-2020	UGC Start up

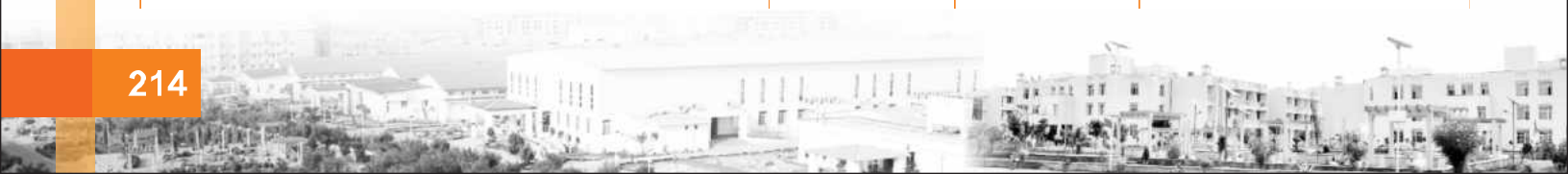
DEPARTMENT OF ENVIRONMENTAL SCIENCE

DST-FIST (Level-1 category)	80.0 Lakhs	2017-2022	DST, GoI
Dr. L. K. Sharma			
Stratified Forest Biomass Modeling using Hyperspectral Data	19.4 Lakhs	2017-2020	SAC (ISRO)
Dr. Garima Kaushik			
Design of a Microbial Process for the Removal of Organophosphorus Pesticides in Water Supplies from Rural and Urban Water Bodies	14.88 Lakhs	2016-2019	DST-CONACYT/INT/Mexico
Dr. Shailesh Kumar Patidar			
Contamination assessment of Lanthanides in aquatic macrophytes and acid mine drainage affected plant environment of Rajasthan	10.00 Lakhs	2020-2022	UGC Start up
Dr. Nivedita Chaudhry			
Assessment of critical levels of ozone pollution on vegetation using biomonitoring as a tool	10.00 Lakhs	2020-2022	UGC Start up

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATION

Dr. Anjali Sharma			
School as a Laboratory for B.Ed. Trainees: A Qualitative Study	2.00 Lakhs	2019-2020	Inter University Centre of Teacher Regional Institute of Education, Mysuru





Fostering Scientific Creativity in the Classroom through Creativity Problem Solving Instructional Model (CPSIM) within Science Discipline	3.15 Lakhs	2019-2021	School of Education, Gandhigram Rural Institute, PMMMNMTT, MHRD
Dr. Narendra Kumar			
Infrastructure Facilities, Accessibility, Teacher's Awareness and their Computer Self Efficacy for Pedagogic Use of ICT – A Study of Government Secondary Schools in Rural Areas of the District Ajmer (Rajasthan)	3.15 Lakhs	2019-2021	School of Education, Gandhigram Rural Institute, PMMMNMTT, MHRD

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Dr. Milan Sasmal			
3D printed microneedle for integrated drug delivery system	10.00 Lakhs	2020-2022	UGC, StartUp

SCHOOL OF LIFE SCIENCES

DEPARTMENT OF BIOCHEMISTRY

Prof. Sanjib K. Panda			
Whitefly (<i>Bemisia tabaci</i>) in North Eastern India. Diversity, factors of virus transmission and natural inhibitor	30.29 Lakhs	2018-2021	DBT, India
Genome and transcriptome sequencing of aromatic rices from Northeastern regions	46.63 Lakhs	2016-2020	DBT, India
Prof. C. C. Mondal			
Interplay of metabolic and signal pathways of N-acyl dopamines and cholesterol in cancer cells	16.5 Lakhs	2017-2019	DST-RFBR (Indo-Russia)
Dr. Vishvanath Tiwari			
Designing and experimental validation of Inhibitor for RecA protein of <i>Acinetobacter baumannii</i> : an addition to the current antibiotics and disinfectants	28.16 Lakhs	2018-2021	SERB, India
Dr. Kiran Kumar Tejavath			
Investigating Anticancer Potential of Biosynthesized Silver Nanoparticles and Polymeric Nanoparticles Using Medicinal Plants of Rajasthan, India	45.71 Lakhs	2017-2020	SERB, India
Dr. Dipak Gayen			
Identification and functional characterization of chloroplast Clp protease from Chickpea (<i>Cicer arietinum</i> L.) in response to heat stress	10.00 Lakhs	sanctioned	UGC, India



Dr. Bhawana Bissa			
Understanding the molecular regulation of autophagy during breast cancer metastasis	10.00 Lakhs	sanctioned	UGC, India
Exploring the role of 'Secretary Arm of Autophagy' in Glioblastoma therapy resistance: an in vitro and patient data based study	37.84 Lakhs	sanctioned	ICMR, India
Dr. Dhaneswar Prusty			
Development of antimalarial therapeutic molecules using Plasmodium histone acetyltransferase as drug targets	10.00 Lakhs	2018-2020	UGC, India

DEPARTMENT OF BIOTECHNOLOGY

Dr. Pankaj Goyal			
How Lysophospholipids (Lysophosphatic Acid and Sphingosine -1- Phosphate) Metabolic Pathway Regulate Placental Development during Pregnancy Maintenance	50.0 Lakhs	2017-2020	DBT, India
Targeting malaria through host pathways: Dissecting the role of host serine/threonine kinase (STK35L1) in parasite infection and growth.	65.0 Lakhs	2020-2023	ICMR, India
Dr. Tarun Bhatt			
Molecular and Structural Characterization of Mitochondrial DNA Primase in Leishmania Donovanii	44.21 Lakhs	2016-2020	DBT-NER
Development and Screening of Potential Anti-malarials based on Priviledged Scaffolds	6.0 Lakhs	2016-2020	DST, Rajasthan
Design, Synthesis and In silico/ in vitro Studies of Cladospori Derivatives as Potential Anti-malarial Agents (Multi-institutional with ICGEB & HCU)	25.0 Lakhs	2017-2020	DST, India
Identification and characterization of glycyl-tRNA synthetase in Leishmania donovani	29.37 Lakhs	2019-2022	DBT-NER
Dr. Suman Tapryal			
Development of Glycoprotein E1/E2 Immunoglobulin (Ig) Chimeric Subunit Vaccine Candidates Against Chickengunya Virus in <i>E.coli</i>	34.0 Lakhs	2017-2020	DST, India
Dr. Jay Kant Yadav			
Targeting Crystallin-amyloids for the Development of Non-invasive Therapeutic Strategy for Treatment of Age-related Cataract	30.80 Lakhs	2018-2022	DST-SERB
Dr. Surendra Nimesh			
Design of a Microbial Process for the Removal of Organophosphorus Pesticides in Water Supplies from Rural and Urban Water Bodies	14.88 Lakhs	2016-2019	DST-CONACYT/INT/Mexico





Dr. Jayendra N. Shukla			
Identification of Sex-Determining Signal(S) and Sexual Differentiation Factors in the Red Flour Beetle, <i>Tribolium Castaneum</i>	50.00 Lakhs	2017-2020	DST-SERB
Understanding the Molecular Mechanism of Sex Determination in Yellow Fever Mosquito <i>Aedes Aegypti</i>	32.5 Lakhs	2017-2022	DBT

DEPARTMENT OF MICROBIOLOGY

DST-FIST (Level-1 category)	45.0 Lakhs	2016-2021	DST, GoI
Prof. Pawan K. Dadheech			
Evaluating Bioprospects of Extreme-Tolerant Cyanobacteria Inhabit Sambhar Lake of Rajasthan	8.70 Lakhs	2017-2020	DST, Rajasthan
Dr. Arvind P. Singh			
Mammalian Bladder is Not Sterile: Characterizing the Cattle (Cow) Urinary Microbiome for Understanding its Therapeutic Value	40.0 Lakhs	2017-2020	SERB-DST
Dr. Akhil Agarwal			
Mitigation of Microbial Souring in Oil Fields of Western Rajasthan	10.0 Lakhs	2017-2020	DST, Rajasthan
Development and demonstration of Biochemical Enhanced Oil Recovery (BcEOR) technology for marginal oil wells of western India	70.0 Lakhs (Total Cost 148 Lakhs)	2019-2022	IMPRINT2
Development and Scaleup of Desert Soilification technology (DST) for land reclamation in western Rajasthan	33.0 Lakhs	2019-2022	DST-SSTP
Development of Biochemical enhanced oil recovery technology for northeastern oil fields of India	30.0 Lakhs (Total cost 68 Lakhs)	2019-2022	DST-SSTP
Dr. Nidhi Pareek			
Exploration of Thermostable Chitinolytic Enzyme System from Rajasthan Area and Elucidation of Reaction Mechanism for Production of Bioactive Oligosaccharides	35.0 Lakhs	2015-2020	DST-INSPIRE, India
Integrated Biocatalytic Disintegration of Chitin Rich Biowaste for Improved Production of Bioactive Chitooligosaccharides, Glucosamine and Ethanol	41.6 Lakhs	2019-2022	DST-SERB
Dr. Vijay K. Verma			
Characterization of Membrane/Secretory Proteins in <i>Helicobacter pylori</i> : Mystery of Bacterial Persistent Infection (An Interphase of Host-Pathogen Interaction)	35.0 Lakhs	2017-2022	DST-Inspire
Identification and Functional Characterization of Novel Membrane/Secretory Proteins in <i>Helicobacter pylori</i> Responsible for Host-pathogen Cross Talk and Pathogenesis	10.0 Lakhs	2017-2019	UGC-StartUp

**Dr. Deeksha Tripathi**

Identifying the role of MIP in activating host innate immune response for development of new intervention strategy to combat Tuberculosis.	55.0 Lakhs	2019-2022	DBT Biocare Grant
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SCHOOL OF MATHEMATICS, STATISTICS AND COMPUTATIONAL SCIENCES**DEPARTMENT OF MATHEMATICS****Prof. J. K. Prajapat**

Investigation of Certain Open Problems in Planar Harmonic Mappings	6.6 Lakhs	2018	SERB-MATRIX
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Dr. Anand Kumar

A Study of Entropy Generation in Ducts	3.85 Lakhs	2019	National Project Implementation Unit, MHRD
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Dr. Amit Chakraborty

Mathematical and Computational Modelling of below Ground Nitrogen Biogeochemical Pathways using Systems Biology Approaches	21.14 Lakhs	2018-2021	DST-SERB
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Dr. Ram Kishor

Libration Orbits Mission Design with Perturbations	10.0 Lakhs	2017-2019	UGC
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Dr. Jai Prakash Tripathi

Mathematical Modelling of the Biological Control Problems: Non-chemical methods in Population and Disease control	18.12 Lakhs	2018-2021	DST-SERB
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Spatiotemporal modelling of Schistosomiasis transmission and control under various demographic and seasonal environments	10.0 Lakhs	2018-2019	UGC
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Dr. Vipul Kakkar

Doubly Transitive Groups and Generalized Near-Domains	10.0 Lakhs	2018-2019	UGC
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Dr. Ram Kishor

Fuzzy Modeling of Tolerance Automata and Rough Automata	10.0 Lakhs	2018-2019	UGC
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DEPARTMENT OF STATISTICS**Dr. Arvind Pandey**

Modeling Frailty for Bivariate Survival Data Based on Reversed Hazard Rate Modeling Frailty for Survival Data	10.0 Lakhs	2018-2020	UGC
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Dr. Arvind Pandey

Modeling Frailty for Bivariate Survival Data Based on Reversed Hazard Rate	10.0 Lakhs	2018-2020	UGC
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Modeling Frailty for Survival Data	9.76 Lakhs	2018-2020	SERB
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Dr. Deepesh Bhati

Generation of Statistical Models using Concatenation	17.97 Lakhs	2019-2022	SERB
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DEPARTMENT OF COMPUTER SCIENCE

Dr. A. Nagaraju			
Efficient Resource Allocation in Cloud Environment	34.0 Lakhs	2015-2020	DietY
Mr. Gaurav Meena			
Securing the Smart Cities with Internet of Things (IoT) and Blockchain	7.0 Lakhs	2019-2020	DST/ICPS
Deep Learning in Image Processing and Pattern Recognition	9.0 Lakhs	2020-2021	DST/ICPS

SCHOOL OF PHYSICAL SCIENCES

DEPARTMENT OF PHYSICS

Prof. Manish Dev Shrimali			
Multistability and Hidden Attractors in Dynamical Systems	66.33 Lakhs	2019-2021	DST-RSF
Explosive Oscillation Suppression in Coupled Nonlinear Oscillators	20.79 Lakhs	2017-2020	DST-SERB
Dr. Ajit K. Patra			
Probing electronic structure of Cobaltite thin films	6.89 Lakhs	2017-2020	UGC-DAE
Magnetic and spectral properties of novel Mn based Heusler alloys for magnetoelectronics applications	33.19 Lakhs	2019-2022	DST-RFBR
Dr. Neeraj Panwar			
Size Dependent Magnetic Properties of Mn Doped Rare Earth Orthochromites: A Neutron Power Diffraction Study (CRS-M-298)	7.15 Lakhs	2018-2020	UGC-DAE CSR MUMBAI
Impact of Ion Irradiation on the Exchanges Bias, Magnetization Reversal Spin Reorientation and Magnetocaloric	6.25 Lakhs	2018-2021	IUAC, New Delhi
Exploring the Magnetocaloric Properties of Bulk Ceramics, Nanocrystalline and Thin Film of Manganese Doped Rare Earth Orthochromites	44.26 Lakhs	2018-2021	DST New Delhi
Dr. Brijesh K. Singh			
Generation and Characterization of Super-Oscillatory Vector Beams	10.00 Lakhs	2017-2019	UGC
Development and characterization of polarization base pupil function for the generation of laser beam having far field subwavelength focal spot	33.19 Lakhs	2020-2023	SERB
Dr. Sahinur Reja			
Quantum criticality and exotic magnetic states in spin tetramer compounds	10.00 Lakhs	2020-2021	UGC
Dr. Yugandhar Bitla			
Development of epitaxial Ferroelectric and transparent conducting oxides based on van der Waals heteroepitaxy	10.00 Lakhs	2020-2021	UGC

**Dr. Sandeep Kumar**

Electric field controlled magnetism in InAs semiconductor nanowires	18.19 Lakhs	2017-2020	SERB-DST
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SCHOOL OF SOCIAL SCIENCES**DEPARTMENT OF CULTURE AND MEDIA STUDIES****Dr. Nikolas Lakra**

A three-day National workshop on 'Application of Artificial Intelligence for Conservation of Cultural Heritage of India'	7.0 Lakhs	2019-2022	DST
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DEPARTMENT OF ENGLISH**Dr. Sanjay Arora**

'English Skills for Employability: Empowering Engineering Students of Rajasthan in a Globalised World' (Co-PI)	15.98 Lakhs	2019-2020	TEQIP (through AICTE)
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DEPARTMENT OF HINDI**Prof. N. Lakshmi Aiyar**

The modern philosophers of Tamil Nadu: A comprehensive study	2.0 Lakhs	2019	ICPR, New Delhi
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DEPARTMENT OF PUBLIC POLICY, LAW AND GOVERNANCE**Dr. Gyana Ranjan Panda**

Assessment of Policy Priorities for Low Carbon Economy in India	8.5 Lakhs	2015-2019	UGC-MRP
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The Comparative Study of International Political Economy Perspectives of Financing the Clean Energy Sector in Selected Countries (India, China and Brazil)	20.0 Lakhs	2016-2019	ICSSR
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Legislative Policy-Making on Climate Justice in India: The Study of Parliamentary Bussinesses, Practices and Oversights since Thirteen Lok Sabha	6.0 Lakhs	2019-2021	ICSSR-IMPRESS
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Dr. C. Jeevan Kumar

Digital Governance in India: A Case Study of Rajasthan with reference to Digital India Programme	6.50 Lakhs	2018-2020	ICSSR
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DEPARTMENT OF SOCIAL WORKS**Dr Shaizy Ahmed**

Unheard Voices of Silent Growing Majority: An assessment of Social Security and health risk among women migrant workers of Rajasthan	7.26 Lakhs	2017-2020	NHRC, New Delhi
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SCHOOL OF SPORTS SCIENCES MYAS-CURAJ

Dr. Neha Singh			
Gene Expression studies of the skeletal muscle repair pathway induced by <i>Prosopis cineraria</i>	10.00 Lakhs	2020-2022	UGC Start up
Dr. Hemanth Naick B			
The Potential role of miR-181-c in chronic traumatic encephalopathy	10.00 Lakhs	2020-2022	UGC Start up
Inter-organelle association of endoplasmic reticulum – mitochondria association and its role in replication stress and other cellular physiology and pathophysiology	35.0 Lakhs	2020-2025	DST Inspire



Theses and Dissertations

The students in various departments of the University submit a thesis and dissertation towards the completion of their postgraduate and Ph.D. degree. This chapter contains the list of Ph.D., M.A., M.Arch, MBA, M.Com, M.Sc., M.Tech Thesis and dissertation completed by students under the guidance of their respective supervisors. The following list contains the details of the students thesis and dissertations.

PH.D. THESES

Candidate Name	Department	Research Supervisor(s)	Thesis Title	Date of Viva-Voce
Ms. Kanika Jain (2013PHDCH04)	Chemistry	Dr. Raghu Chitta	Design and Study of Multichromophoric Porphyrin Systems for Solar Energy Harvesting	1st July 2019
Mr. Abhishek Pareek (2014PHDCH001)	Chemistry	Dr. Srinivasarao Yaragorla (RS) Dr. M. Bhanuchandra (JS)	Alkyne Tethered Regioselective Inter & Intra-molecular Cyclization Reactions towards the Biological Interesting Heterocyclic Molecules	1st July 2019
Ms. Geeta Sahu (2014PHDCMS01)	Culture and Media Studies	Dr. Nicholas Lakra	Media Representation of Nomadic Tribes: A Socio-Cultural Study in Rajasthan	8th July 2019
Mr. Armendra Amar (2013PHDCMS01)	Culture and Media Studies	Dr. Neeru Prasad	An Analysis of Reflect-Effect Studies of Media on Society: A Case Study of Bhopal Gas Tragedy	29th July 2019
Ms. Aparna Ajith (2014PHDEN02)	English	Dr. Bhumika Sharma	Cultural Cartography in the Fiction of Munshi Premchand and Thakazhi Sivasankara Pillai	7th August 2019
Ms. Garima Sharma (2012PHDES03)	Environmental Science	Dr. Dr. L.K. Sharma (RS) Prof. K.C. Sharma (JS)	Assessment of soil carbon Stock and its relation to land use patterns and climatic variability in Semi-arid Region of Rajasthan	19th August 2019
Ms. Sarita Gupta (2013PHDMBA01)	Management	Dr. Sanjay Kumar	Determinants Influencing Indian Reverse Mortgage Market: An Empirical Analysis	26th August 2019



Mr. Ramovatar (2014PHDPH005)	Physics	Dr. Neeraj Panwar	Studies on the dielectric, ferroelectric, piezoelectric and optical properties of barium titanate based lead – free ceramics	27th August 2019
Mr. Ramdas Shivaji Pathare (2014PHDCH006)	Chemistry	Dr. Devesh M. Sawant	Exploration of Transition - Metal Catalysed Synthetic routes for the generation of Biologically Significant Heterocyclic Molecules	28th August 2019
Ms. Nisha Rathore (2012PHDMBA01)	Management	Dr. Avantika Singh	Determinants and Outcomes of Ethical Leadership for Managing Human Resources in Higher Education in Rajasthan	09th September 2019
Ms. Drista Sharma (2014PHDBT001)	Biotechnology	Dr. Tarun Kumar Bhatt	In-Silico Molecular Docking Analysis and Simulation Studies on Apicoplast Proteins of Malaria Parasite	09th September 2019
Mr. Sarvesh Kumar Mishra (2013PHDHINDI05)	Hindi	Dr. Jitendra Kumar Singh	काशीनाथ सिंह के उपन्यासों में समसामयिक यथार्थबोध	26th September 2019
Ms. Anusuya Mehra (2013PHDMBA02)	Management	Dr. Tulsee Giri Goswami	Organizational Culture and Employee Performance: Role of Moderators in Public and Private Banks in Rajasthan	27th September 2019
Mr. Aman Deep Singh (2014PHDEN01)	English	Dr. Sanjay Arora	Ontological and Epistemological Discourses in Select Works of Kurt Vonnegut and Thomas Pynchon	18th October 2019
Mr. Varun Agiwal (2015PHDSTA04)	Statistics	Dr. Jitendra Kumar	Analysis Of Structural Break(S) In Time Series Model: A Bayesian Perspective	25th October 2019
Ms. Priyanka Chhapparwal (2014PHDSTA01)	Statistics	Dr. Sanjay Kuma	Robust Modified Estimators Of Population Parameter(S) Usingauxiliary Information Under Non-Normality	30th October 2019



Ms. Shalini Gour (2014PHDBT008)	Biotechnology	Dr. Jay Kant Yadav	Structural and Functional Determinants of Amyloids derived from Antimicrobial Peptides (AMPs)	30th October 2019
Ms. Neha Nagar (2016PHDMB01)	Microbiology	Dr. C.S. Gahan	Microbial mediated metal leaching from petroleum refinery spent catalyst and copper slag	31th October 2019
Ms. Himanshi (2015PHDMB03)	Microbiology	Dr. C.S. Gahan	Bio-catalyzed leaching of waste mobile phone printed circuit board and zinc sulphide concentrate	1st November 2019
Mr. Swatantra Kumar Dubey (2013PHDES04)	Environmental Science	Dr. Devesh Sharma	Impact Of Climate Change On Water And Food Security In Banas River Basin Of Rajasthan	1st November 2019
Mr. Suresh Chandra (2012PHDES04)	Environmental Science	Dr. Devesh Sharma	Understanding the Linkage of Urbanization, Land Surface Temperature and Human Health- A Case of Jaipur City of Rajasthan, India	4th November 2019
Mr. Vijay Kumar (2013PHDBT05)	Biotechnology	Dr. Jay Kant Yadav	Aggregation Behaviour of Semen-derived Amyloidogenic Peptides and Assessment of their Effect on Human Sperm	18th December 2019
Ms. Nisha Bhardwaj (2014PHDMB05)	Microbiology	Prof. Pradeep Verma	Production, Characterization and Application of Xylanases from <i>Aspergillusoryzac</i> in Generating Ethanol	22th January 2020
Mr. Ketan Jha (2013PHDCS03)	Computer Science	Dr. Mamta Rani	Noise in fractal models	06th February 2020
Ms. KiranYadav (2014PHDPH002)	Physics	Prof. Manish Dev Shrimali	Oscillation Suppression and Controlling Multistability in Dynamical Systems	20th February 2020
Ms. BidishaKantha (2015PHDEN01)	English	Dr. Bhumika Sharam	Virgins and Vamps: A Study of Female Gaze through the Select Works of Devdutt Pattanaik and Kavita Kane	24th February 2020





Mr. Arpit Sidhu	Commerce	Dr. Neha Seth	Long-term Relationship and Volatility Spillover: An Empirical Study of Indian Commodity Market	28th February 2020
Mr. Rajan Kumar Pandey (2014PHDBC04)	Biochemistry	Dr. Vijay Kumar Prajapati	Febri-fugine Dihydrochloride As A New Chemotherapeutic Agent Against Visceral Leishmaniasis Infection	2nd March 2020
Mr. Saurabh Kumar (2013PHDSTA02)	Statistics	Dr. Jitendra Kumar	A Study Of Large Size Time Series Analysis In Reference To Big Data And Outlier	03th March 2020
Mr. Aashish Kumar Mishra (2014PHDHINDI01)	Hindi	Dr. Jitendra Singh	नयी कहानी और कथालोचना के प्रतिमान	12th March 2020
Ms. Tanu Sharma	Biochemistry	Dr. Chandi C Mandal	Investigation of the effect of omega-3 fatty acids in osteoblast – like differentiation of breast cancer cells and microcalcification	18th June 2020

(RS – Research Supervisor; JS – Joint Supervisor)

DISSERTATIONS

DEPARTMENT OF ARCHITECTURE

Candidate Name	Title of the Dissertation	Supervisor Name	Design Thesis	Supervisor Name
Akshay Gupta	Comparative Analysis of Daylight Compliance Methods of Green Building Codes	Ar. Sunil Sharma	Eco-Resort at Chandubi Lake, Assam	AR. Vidhu Bansal
Aman Kumar	Resilience Analysis of Centralized And Decentralized Waste Water Treatment Systems in Case of Hilly Terrain	Ar. Ritu B. Rai & Ar. Sunny Bansal	Indian institute of Information Technology, Pune	Prof. Neeraj Gupta



Arsha Gitty George	Effect of Instructional Space Design on Students' Performance - Case of Rajasthan and Kerala	Prof. Neeraj Gupta & Ar. Vidhu Bansal	Bio 360 Life Science Park, Trivandrum	Ar. Ritu B. Rai
Garima Agarwal	Analyzing Parks of Lucknow Based on Functionality and Aesthetics	Ar. Ritu B. Rai & Ar. Sunny Bansal	Ambedkar University, Rohini, Delhi	Prof. Neeraj Gupta
Diksha Bharti	Impact of Indoor Plants in Air Conditioned Office Spaces: An Assessment of User's Perception	Prof. Neeraj & Ar. Vidhu Bansal	Atal Bihari Vajpayee Medical University, Lucknow	Prof. Neeraj Gupta
Matsushita Sharma	Solid Waste Management in Tourist Towns of Rajasthan	Prof. Neeraj Gupta & Ar. Sunny Bansal	Infosys campus, Nagpur	Prof. Neeraj Gupta
Praveen Rohilla	Framework for Social and Cultural Aspects in Indian Green Building Rating Systems	Prof. Neeraj Gupta & Ar. Sunny Bansal	Lake View Office Complex, Trilokpuri, New Delhi	Prof. Neeraj Gupta & Ar. Sunny Bansal
Pooja Arora	Strategies for Redevelopment of Historic Ceremonial Axis, Mahal, Nagpur	Ar. Ritu B. Rai & Ar. Vidhu Bansal	Indian Institute of Management Campus, Nagpur	Prof. Neeraj Gupta
Saranya Divakaran PC	Flood Resilient Sustainable Building Construction and Adaptation of Sinking Island (Muroe Island) in Kerala	Ar. Ritu B. Rai & Ar. Vidhu Bansal	International Research Institute of Ayurveda; Kannur	Ar. Ritu B. Rai
Silvi Jhangra	Revival of Traditional Water Harvesting Systems: Study of Stepwells	Ar. Ritu B. Rai & Ar. Vidhu Bansal	Heritage Eco-Resort, Achrol, Jaipur	Ar. Vidhu Bansal
Shefali Rashi	The Importance of Formal and Informal Open Public Spaces in Educational Campus for Social Connectivity	Prof. Neeraj Gupta & Ar. Sunny Bansal	Information Technology Park, Mohan Nagpur Maharashtra	Ar. Sunny Bansal
Tushar Kolhe	Glasses Affecting Energy Consumption of an Office Building in Composite Climate of Jaipur, Rajasthan	Ar. Sunil Sharma	Affordable Housing, Mumbai	Ar. Ritu B. Rai





DEPARTMENT OF ATMOSPHERIC SCIENCE

Candidate Name	Title of the Dissertation	Supervisor Name
Ankit Patel	Decadal Changes in Global Atmospheric Carbon Monoxide	Dr. Chinmay Mallik
Ashish Ranjan	Climatological Study of Lightning over India and Simulation of Two Lightning Cases using WRF Model	Dr. Subrat Kumar Panda
Musaid P. P.	Understanding Thunderstorm Frequency in India and A Study on 2019 Pre-Monsoon Severe Weather Events Over Jamshedpur Using WRF Model	Prof. Someshwar Das
Sanjukta Ghosh	Impact of Vertical Resolution in the Planetary Boundary Layer and Land-surface Processes Parameterization on the Simulation of Fog over Delhi	Prof. Someshwar Das
Saswat Dash	Sensitivity of Planetary Boundary Layer Schemes in Simulation of Heat Waves over Rajasthan in a Regional Climate Model Framework	Dr. Subrat Kumar Panda
Sohan Pal Meena	Sensitivity Study of Cumulus Parameterization in Simulating Cyclone "Bulbul" using WRF	Dr. Jayanti Pal
Suman Saurabh	Simulation of Heavy Rainfall Event Over North-Bihar Using Wrf Model	Dr. Devesh Sharma
Sumitra Sharma	Spatial-Temporal Variability of Climate Extremes and Drought Indices over Mahi and Inland River Basins of Rajasthan	Dr. Devesh Sharma
Vinay	Retrieval of Rainfall From DWR Data and Verification using The Gauge and GPM Satellite Data over Rajasthan	Dr. Jayanti Pal

DEPARTMENT OF BIOCHEMISTRY

Candidate Name	Title of the Dissertation	Supervisor Name
Amarjeet Shrama	Evaluating the Effect of Fruit Extracts on the Osteogenic Potential of Breast Cancer Cells	Prof Chandi C. Mandal
Anukrati Arya	Designing of Hybrid Antibiotic against Penicillin Binding Protein-3 of Acinetobacter Baumannii	Dr. Vishvanath Tiwari
Basumitra	Investigating the effects of Doxycycline gold nanoparticles on autophagy gene expression	Dr. Bhawana Bissa
Diksha Lalwani	Genome-wide analysis of 9- cis epoxycarotenoid dioxygenase (nced) gene in Vigna radiata (moong beans)	Prof. Sanjib K. Panda
Durgesh Meena	Transcriptional regulation of autophagy gene expression	Dr. Bhawana Bissa
Garima Devmurari	Assessment of cultivable bacterial diversity and screening of Nitroaromatic compounds degrading bacteria in sample collected from Sanganer	Dr. Shiv Swaroop



Ishita De	Role of Autophagy genes in Cancer progression	Dr. Bhawana Bissa
Karminder Kaur	Evaluation of in vitro antioxidant and antidiabetic potential of bauhinia purpurea flowers	Dr. Kiran Kumar Tejavath
Lekh Raj	Assessment of Hydrolytic Enzyme Activity and Antibiotic Resistance Property of Haloalkaliphilic Bacteria Isolated from Sambhar Lake, Rajasthan	Dr. Shiv Swaroop
Mandeep Burra	Identification of putative rlk genes in Pennisetum glaucum	Prof. Sanjib K. Panda
Nandita Bagarhatta	Assessment of antimicrobial activity of milk derived exosomes against Acinetobacter baumannii	Dr. Vishvanath Tiwari
Nitisha Meena	Assessment of cultivable bacterial diversity and screening of C1compunds degrading bacteria in sample collected from Sanganer	Dr. Shiv Swaroop
Nishu Meena	Structural modeling of an unknown zinc finger protein (ZNFp) and its expression pattern in various cancer cell lines	Prof. Chandi C Mandal
Priyanshi	Searching for Anti-cancer Potential In Various Wild Plants	Prof Chandi C Mandal
Priya Chouhan	Anti-IL-10 antibody humanization by SDR grafting with enhanced affinity to neutralize the adverse response of interleukin-10	Dr. Vijay Kumar Prajapati
Priyakshi Singh	Surface functionalization of selenium nanoparticles with anticancer drug and it's efficacy	Dr. Kiran Kumar Tejavath
Rajesh Choudhary	Role of cytochrome b6f in chloroplast biogenesis under stress condition	Dr. Dipak Gayen
Rajveer Singh Shekhawat	Statistical and Experimental Approaches to Endorse the Link between Cancer and Obesity in Male Population	Prof. Chandi C Mandal
Renu Choudhary	High throughput virtual screening, ADMET Prediction, and Binding energy estimation to discover some common small molecule inhibitors against Immune checkpoints	Dr. Vijay Kumar Prajapati
Richa Joshi	Novel Anti-Biofilm Molecule Targeting Quorum Sensing of Acinetobacter baumannii	Dr. Vishvanath Tiwari
Sakita Rapria	Genome-wide analysis of laccase in Pennisetum glaucum	Prof. Sanjib K. Panda
Samridhi Agarwal	Genome-wide analysis of fluoride exportin gene in plants.	Prof. Sanjib K. Panda
Satyendra Singh	Identification of antiviral inhibitors against SARS-CoV-2 helicase (NSP13)using high throughput virtual screening	Dr. Dhaneeswar Prusty
Sharmistha Dey	Role of Mitochondrial ATPase in response to stress	Dr. Dipak Gayen
Sunil Haritwal	Identification of protein targets of anti-leishmanial compounds derived from Medicines for Malaria venture by using in silico methods	Dr. Dhaneeswar Prusty
Vikram Beda	The unfolded protein response: role of endoplasmic reticulum to elevate abiotic stress in plant	Dr. Dipak Gayen





Vinita Sharma	Immunoglobulin Interface Redesigning to Enhance Lebrikizumab Mediated Immunomodulation of IL-13 Hyper-response	Dr. Vijay Kumar Prajapati
Vishal kheniwal	In silico approach of drug repurposing of FDA approved drugs for the development of new antimalarial compounds	Dr. Dhaneswar Prusty

DEPARTMENT OF BIOTECHNOLOGY

Candidate Name	Title of the Dissertation	Supervisor Name
Aditi Siddha	Preparation and Characterisation of Gentamicin Capped Silver Nanoparticles	Dr. S. Nimesh
Anita	An immunoinformatics approach to design multi-epitope subunit vaccine for malaria	Dr. T.K. Bhatt
Arjun Sankhla	Identification and Characterisation of Drosophila intersex homologue in the red flour beetle, Tribolium castaneum	Dr. J. N. Shukla
Ashwani Kumari	Heat induced aggregation of soluble protein isolated from cataract eye lens	Dr. J. K. Yadav
Asuru Tejeswara Rao	Identification and characterization of a novel sumo protease gene from Tomato	Prof. A. K. Gupta
Bandita Rout	In silico Prediction of Aggregation Propensity of Major Egg Proteins and In vitro Investigation of Amyloid-like Structures in Hen Egg White	Dr. J. K. Yadav
Chitra Togra	Subcloning of chimeric protein glycoprotein D- μ -CH3-CH4 in yeast pPICZ α vector for expression in <i>Pichia pastoris</i>	Dr. S. Tapryal
Himanshu	Temperature dependent molecular dynamic simulation of protein-ligand complexes	Dr. T.K Bhatt
Krishan Gourav Behera	Identification of a novel SUMO protease gene that participates in drought responses in <i>Cicer arietinum</i>	Dr. Vivek Verma
KSG Gowhith	Assessing the effects of dying cells of the same and other bacterial species on biofilm formation by <i>Bacillus subtilis</i> .	Dr. J. Pandey
Laxman Ram	Effect of Trehalose on Heat induced Aggregation of Soluble Protein, Isolated from Human Cataractous lens	Dr. J. K. Yadav
Muktesh Kumar Sahu	Development and Characterization of STK35L1 mutant cell lines using CRISPR/Cas9 technology	Dr. P. Goyal
Nidhi Godara	Role of Lysophosphatidic acid in extravillous trophoblast cell migration	Dr. P. Goyal
Nirupa Chaurasia	Identification and expression analysis of SUMO homologue in the red flour beetle, Tribolium castaneum	Dr. J. N. Shukla
Nishu Kaushik	Elucidation a potential role of SUMOylation in cytokinin signalling	Dr. Vivek Verma



Prerna Singh	Cloning and Preliminary Characterization of Full-Length TasA, a vital protein involved in biofilm formation by <i>Bacillus subtilis</i>	Dr. J. Pandey
Rinku Yadav	Subcloning of glycoprotein D of HSV-2 in yeast pPICZ α vector for expression in <i>Pichia pastoris</i>	Dr. S. Tapryal
Shivam Sahu	Synthesis and Characterization of Polyethylenimine Capped Silver Nanoparticles	Dr. S. Nimesh

DEPARTMENT OF CHEMISTRY

Candidate Name	Title of the Dissertation	Supervisor Name
Anand Mohan Bhargav	A Synthetic route to diazepinones from Morita-Baylis-Hillman Ketones	Dr. Easwar S.
Anuradha Dixit	Design and Synthesis of Macrocyclic Molecular Machines	Dr. Hemant Joshi
Ayushi Yadav	Metal Free Synthesis of Congested and Functionalized Amines using Aza-oxyallyl Cation as a Key intermediate	Dr. Ritesh Singh
Bharat Kaushik	Study the Intermolecular Electron and Energy Transfer between Core-Shell Quantum Dots and 2-(4-aminophenyl)-N-cyclohexylimidazo [1,2-a]pyrazine-3-amine	Dr. Partha Roy
Churchil Sharma	Design of a Proline Based Bifunctional Squaramide Catalyst for Asymmetric Transformations	Dr. Easwar S.
Deepak Kumar	Synthesis of Pyrene Substituted Titanium(IV) Carboxylates	Dr. Thirumoorthi R
Deepak Kumar	Doping of metal/nonmetal into TiO ₂ nanostructure	Dr. Partha Roy
Garima Sharma	KOH Mediated SNAr Reaction of Dibenzothiophene-5,5-dioxide : Scope of 2-Aryl Phenol Synthesis	Dr. M. Bhanuchandra
Guddan Dhakar	Method and Strategies for the Synthesizing of TiSe ₂ Nanostructure	Dr. Partha Roy
Gyan Chand Bhandari	Design and Synthesis of Ruthenium Complex of SeNSe Pincer Ligand and their Applications in Catalysis	Dr. Hemant Joshi
Himanshi	Design and Syntheses of Secondary Interactions Controlled Molecular Rotors	Dr. Hemant Joshi
Hitesh Ch. Das	Iron-Catalyzed Multicomponent Synthesis of Oxazole	Dr. Chandrakanta Dash
Indu Meena	Synthesis of mesoporous carbon by single step oxidation and their electrocatalytic activities for water splitting	Dr. Jony Saha
Jitendra Gadwal	Design and Syntheses of Macrocyclic Metal Complexes of Organo-selenium Ligands	Dr. Hemant Joshi
Kalluri Rambabu	Transition-Metal Free One Pot Synthesis Of Dihydropyrazoles From Propagylc Alcohols And Arylhydrazines	Dr. M. Bhanuchandra



Karan Singh Yadav	Transition Metal free C-C coupling of 2-phenylH-imidazo [1,2-a]pyridine via direct C-II bond Functionalization	Dr. Vijay Kumar Prajapati
Manjali Nautiyal	Intermolecular C-II Bond Amination in Heteroarenes at Room Temperature	Dr. Ritesh Singh
Manvi Mukta Arya	Rapid Access to 1,4-benzodiazepine-3,5-dione and Benzoxadiazocine derivatives using α -haloamides	Dr. Ritesh Singh
Monika	Synthesis of 4-H-benzo [4,5] thiazolo [3,2-a] pyrimidines from Morita-Baylis-Hillman Ketones	Dr. Easwar S.
Pragya Poonia	Half sandwich Ruthenium Complexes: Synthesis, Characterization and Catalytic Activity	Dr. Anuj K. Sharma
Ravi Kumar Choudhary	Electrochemical Water oxidation by Ru-Se based molecular complex	Dr. Jony Saha
Rohit Samanta	Design, synthesis and evaluation of BSA binding properties of ruthenium arene complexes	Dr. Anuj K. Sharma
Sanjeeb Kumar Ojha	Synthesis and Characterization of Bimetallic Complexes Supported by Naphthyridine Functionalized Mono-pyrrole ligand	Dr. Chandrakanta Dash
Shankar Lal Saini	Effect of pH & Temperature on Formation of TiO ₂ nanoparticles via sol-gel method	Dr. Partha Roy
Shivani Singh	Synthesis and Characterization of Organosilicon or Organotin Coordinated Coumarin-3-carboxylates	Dr. Thirumoorthi R
Sikandar Gurjar	Pyrryl-Pyridine based ligand: Synthesis and their Characterization	Dr. Chandrakanta Dash
Sudhir Muduli	Facile Preparation of Peripheral Substituted Dibenzoheterocycle: Investigation of the effects of heterocycles on the Photophysical Properties	Dr. M. Bhanuchandra
Sudipta Chakraborty	Synthesis, Characterization and Spectroscopic studies of Azo based ligands for the Treatment of Alzheimer's disease.	Dr. Anuj K. Sharma
Suman Kumar Saha	Trapping of 1-Methylnaphthalene Radical by TEMPO	Dr. Thirumoorthi R
Vikas Jakhad	Electrocatalysis of Oxidized Charcoal supported NiFe layered double hydroxide for Oxygen Evolution Reaction	Dr. Jony Saha

DEPARTMENT OF COMMERCE

Candidate Name	Title of the Dissertation	Supervisor Name
Aditya Chaturvedi	Need for Cyber-squatting Law: A Case Study of Indian Companies	Prof. Praveen Sahu
Aruna Giri	A Study of Attributes of Mobile Phones with respect to the Utilities and Services: With Reference to Central University of Rajasthan	Prof. Praveen Sahu



Mohanlal Jangid	Implementation of Supply Chain Financing and Financial Performance of User Firm: A Case Study of AGCO Corporation	Dr. Sanjay Kumar Patel
Riidhi Jain	Online Education System (A New Pedagogical Approach) of India: From the Learner's Point of View	Dr. Sushila Kumari Soriya
Sachchi Guru	Waste Management Startup and Financial Opportunities	Dr. Sanjay Kumar Patel
Shubham Pandey	Industrial Development of Rural Rajasthan: An Empirical Study of SSI and Indigenous Industries	Dr. Sanjay Kumar Patel
Subhadra Rajpurohit	Impact of Algorithmic Management on Online Food Delivery Business With Special Reference to Swiggy And Zomato	Dr. Sushila Kumari Soriya
Vandana Kumari	A Study of Rural Marketing Strategies of FMCG: With Special Reference of HUL and Dabur Indian Limited.	Prof. Praveen Sahu
Vishnu Vaishnav	Implementation of Digitalization in MSMEs: A Case Study of Rajasthan	Dr. Sushila Kumari Soriya

DEPARTMENT OF COMPUTER SCIENCE

Candidate Name	Title of the Dissertation	Supervisor Name
Akash Choudhary	Video Captioning with Adversarial learning	Mr. Raviraj Choudhary
Kumar Shikhar	Quora Question pair similarity	Dr. Krishna Kumar Mohbey
Nilesh Sharma	PlayMath by Vikalp India	Mr. Gaurav Meena
Rahul Sain	Crime data analysis and predicting total crime rate	Dr. Muzzammil Hussain
Ronit Kumar	Human activity recognition by ML	Dr. Muzzammil Hussain
Shahuza Abdul Kareem	Comparison of different datasets for image generation using GAN	Dr. Krishna Kumar Mohbey
Somesh Choudhary	Abnormality detection in MusculoskeletalRadiograph	Mr. Raviraj Choudhary
Ujjal Kumar Maity	MacLearn: An Automated software for Machine Learning	Dr. Nistha Kesswani

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Candidate Name	Title of the Dissertation	Supervisor Name
Arpita Patidar	Serving While Attacked: DDoS Attack Effect Minimization Using Page Separation and Resource Allocation Strategy	Dr. Gaurav Somani; Mr. Ravi Saharan (JS)
Karishma Yadav	A Lightweight Multi binding authentication mechanism between communicating nodes in client-Server Environment	Dr. M. Hussain
Prantik Panja	Detection of Advanced Persistent Threat (APT) Through Trusted Process list and Log-Based Event Monitoring	Dr. Gaurav Somani Mr. Ravi Saharan (JS)





Roli Dikshit	Vulnerability of Baptista type chaotic cryptosystem	Dr. Mamta Rani
Ruchi	Handling Tail Labels in Multi Label Classification with Data Augmentation and Self Training	Dr. Manas Patra
Sayan Saha Roy	Eigen Trust Factor based Virtual Machine allocation Policy to defend Co-Resident attack in Cloud Computing Environment	Dr. A. Nagaraju

DEPARTMENT OF CULTURE MEDIA AND STUDIES (PG Diploma in Media writing and digital communication)

Candidate Name	Title of the Dissertation	Supervisor Name
Hemant Kumar Jayas	Role of Media in Villages During Pandemic	Prof. Subhash Dhuliya
Navnit Kumar	Digital Literacy programme in India	Dr Neeru Prasad
Niranjan Singh	Preference of Content in Magazines Among Young Girls: A Study of Vogue & Femina'	Prof. Subhash Dhuliya
Prateek Kumar Vishwakarma	Infodemic and Pandemic: A study on fake news related to COVID-19	Dr Pranta Pratik Patnaik
Tarushi Agrawal	News consumption by people during Covid-19	Prof. Subhash Dhuliya
Vishwajeet Ranjan	Critical study on fake stories in social media and its impact	Dr Nicholas Lakra

DEPARTMENT OF DATA SCIENCE AND ANALYTICS

Candidate Name	Title of the Dissertation	Supervisor Name
Abhishek Chand	Blinking Light Detection	Dr. Vikas Kumar
Abhishek Kumar	Food Recognition API Development	Dr. Upasana Talukdar
Aishwarya Verma	AI Enabled Career Planning and HR Assistance Tool	Dr. Vikas Kumar
Anamika Anurag	Compliance Analytics	Dr. Vikas Kumar
Ankit Singh	Video Analysis & Smart Advertisement Solution Using AI& Vision	Dr. Upasana Talukdar
Anurag Sharma	Anti-Money Laundering and Fraud Detection	Dr. Upasana Talukdar
Atul Joshi	Marketing Analytics: Data Science in Digital Marketing	Dr. Upasana Talukdar
Arkaprabha Majumdar	Absolute Win Loss	Dr. Upasana Talukdar
Bimal Kumar	Lightgbm For Prediction of Nox Emission from Thermal Power Plant	Dr. ManasPatra
Divya Kumari	Social Media Data Extraction for Risk Analytics and Merchant Fraud Detection	Dr. Vikas Kumar
Ipsita Patnaik	Improving Alert Review and Clearance by Extensive Data Cleaning and Validation	Dr. Upasana Talukdar



Nitesh Sukhwani	Intelligent Data Capture and Control	Dr. Vikas Kumar
Pawan Bisht	Enhancing Recruitment Process with Data Science	Dr. Vikas Kumar
Pradyumna Kumar Sahoo	Handling Tail-Label Problems in Multi-Label Classification using In-Situ Synthetic Data Generation	Dr. Manas Patra & Dr. Vikas Kumar
Priya Sinha	Value-At-Risk (Var)Risk Analytics Accelerator	Dr. Upasana Talukdar
Sumit Kumar	Hair Segmentation Cum Hairstyle Recommender System	Dr. Upasana Talukdar
Suman Saurav	Win/Loss Analysis in Banking Sector	Dr. Vikas Kumar
Vivek Shukla	Social Media Analytics	Dr. Vikas Kumar

DEPARTMENT OF ECONOMICS

Candidate Name	Title of the Dissertation	Supervisor Name
Aakanksha	Determinants of gender preferences in fertility: A study of major states in India	Dr. Pragati Jain
Aamna Nissa Khan	An analysis of consumption pattern of north and south india	Dr. Satyanarayana Murthy Dogga
Amresh Kumar	The role of the RBI in Indian Economy and for Establishing Stability in the Economy	Dr. Pramod Kumar Naik
Anshu Mehra	Impact of Public Debt on growth among Indian states: A study of pre and post FRL act	Dr. Satyanarayana Murthy Dogga
Archana	The Impact of unemployment on Economic growth in India	Dr. Pramod Kumar Naik
Gaurav Kumar	Determinants of Crude Oil Price in India	Dr. Pramod Kumar Naik
Kajal Maan	Impact of covid 19 on indian economy	Dr. Hemlata Manglani
Kajal Sharda	An econometric analysis of India's bilateral trade with ASEAN countries: A gravity model approach	Dr. Hemlata Manglani
Shankha Shuvra Das	An Empirical Analysis of the bilateral trade between India and China	Dr. Hemlata Manglani
Pooja S Kumar	An Empirical Analysis of the determinants of Poverty: A study of selected States in India	Dr. Pragati Jain
Princy Tak	Fiscal Performance Index of India and Its Relationship with Economic Growth	Dr. Satyanarayana Murthy Dogga
Utkarsh Berwal	An Empirical Analysis of Energy Efficiency Development in India	Dr. Pragati Jain
Vasundhara Sharma	Rural Financial Inclusion Through Digital India	Dr. Hemlata Manglani





DEPARTMENT OF EDUCATION

Candidate Name	Title of the Dissertation	Supervisor Name
Abhishek Lavaniya	A Review Study on the Effectiveness and Implementation of Critical Pedagogy in Mathematics	Dr Gobind Singh
Anand Mohan Bhargav	Concept Mapping in Chemistry Pedagogy	Dr Sangeeta Yaduvanshi
Anshika Yadav	Review Study of the Researches on the Effectiveness of Multiple Intelligence in Mathematics	Dr Narendra Kumar
Chayanika Sharma	Teaching Principle of Total Internal Reflection to High School Students	Dr Anjali Sharma
Devkaran Dhanawat	Effect of the Five-Step Learning Cycle Model on Student's Understanding Related to Simple Harmonic Motion's Concept	Dr Anjali Sharma
Deepak Binyala	A Review Study on Effectiveness and Implementation of Student Centric Approach in Mathematics	Dr Gobind Singh
Deepak Kumar	e-learning in Chemistry	Dr Sangeeta Yaduvanshi
Deepak Kumar Sah	A review of Researches on Co-operative learning in Mathematics classroom	Dr Narendra Kumar
Gajanand Choudhary	A Review Study on Teaching Mathematics through Concept Motivation and Action Learning	Dr Narendra Kumar
Jitendra Gadwal	A Beginner Laboratory Manual for Chalchogen testing	Dr Sangeeta Yaduvanshi
Kalluri Ram Babu	Cooperative learning in Chemistry	Dr Sangeeta Yaduvanshi
Karan Singh Yadav	Blended Learning in Chemistry Classroom	Dr Sangeeta Yaduvanshi
Madhu	A Review Study on Effectiveness and Implementation of Challenge Based Learning in Mathematics	Dr Gobind Singh
Mahendra Kumar Hinonia	A Review Study of the Researches on Mathematical Aptitude and its Relation to Achievement	Dr Narendra Kumar
Manish Meel	Awareness of undergraduate students about liquid crystal and its property	Dr Anjali Sharma
Meena Pinky	Understanding Crystallography at School Level	Dr Anjali Sharma
Monika	A Review Study of the Researches on the Impact and Implementation of Mathematical Creativity	Dr Narendra Kumar
Nitin Chaudhary	Introduction of liquid crystal at Senior High School Level	Dr Anjali Sharma
Nitin Agrawal	A Review Study on the Implementation and Effectiveness of Context Based Pedagogy in Mathematics	Dr Gobind Singh
Priyanka	A Review Study on the Impact and Implementation of Artificial Intelligence in Mathematics	Dr Narendra Kumar
Rakesh Verma	To Find out Misconception among Students regarding Electromagnetic Induction	Dr Anjali Sharma
Rajat Shukla	Chaos at School: Chua's Circuit for Students in school	Dr Anjali Sharma