Central University of Rajasthan

Ph.D. Admission 2021-22 Area of Research

S. No	Name of the Programme	Seat	Area of Research
5.110	Traine of the Frogramme	Intake	Climate Change and Water Resources
1.	Ph.D. Atmospheric Science	8	 Regional Climate Change and its modeling, Dynamics and Physics of Indian Summer Monsoon, Modeling of Extreme Severe Weather Events, Atmospheric Chemistry and air pollution Atmospheric dynamics, Indian monsoon systems, extreme weather events
2.	Ph.D. Biochemistry	18	 Plant Functional Genomics, Genome Editing, Biotechnology Cancer and Metastasis Antimicrobial Resistance; Host-Pathogen Interaction Nano bioscience, Natural products, Cancer research Infectious diseases Molecular Parasitology Protein Engineering Plant molecular biology and biotechnology Autophagy and Cancer Biology
3.	Ph.D. Biotechnology	6	 Vaccine development and Enzyme engineering Nanobiotechnology Insect molecular genetics Applied microbial Biotechnology
4.	Ph.D. Chemistry	14	 Synthetic Organic Chemistry and Sustainable methodologies Asymmetric Organocatalysis, Synthesis of bio-active molecules Development of sustainable reactions and methods C-H functionalization Synthesis of Organic Materials for semiconductor applications Coordination and Bioinorganic Chemistry, Inorganic Medicinal Chemistry Chemistry of Group 14-16 Elements Surface Chemistry & Nanotechnology Synthetic Organic Chemistry, Bio-catalysis, Chemical-Biology Organometallic Chemistry and Catalysis,

			 Site-Selective Catalysis by Molecular Rotors, Theoretical Chemistry, Non-adiabatic nuclear dynamics, Molecular Spectroscopy, Singlet Fission
5.	Ph.D. Commerce	5	 Accounting and Finance Taxation, (Investment / Sustainable/ Infrastructure Finance, Recent trends in Accountancy, Corporate Reporting)
6.	Ph.D. Computer Science	5	 Wireless Networks, Internet of Things Data Mining, Mobile E-commerce, Big Data Image Processing, Neural Networks, Machine Learning, Data Analytics
7.	Ph.D. Computer Science and Engineering	2	Information SecurityNetwork and System Security
8.	Ph.D. Culture and Media Studies	4	 Gender and media Media and Marginalized, Advertising and Public Relations, New Media Development Communication, Media and Cultural Representation
9.	Ph.D. Economics	6	 Macroeconomics Financial Economics Development Studies Environmental Economics Monetary Economics
10.	Ph.D. Education	6	 Educational Administration and Management Gender Studies Pedagogy of science Inclusive Education Educational Psychology Teacher Education Educational Assessment Recent Trends in Education Pedagogy of Mathematics Women in Educational Management Pedagogy of commerce Pedagogy of Economics Mathematics Education Techniques of Evaluation and Test construction Metacognition Statistics in Psychology Science Education Educational Technology Pedagogy of Chemistry
11.	Ph.D. English	10	 Comparative Studies Socio-Cultural aspects in literature

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			•	ELT
			•	Applied Linguistics,
			•	Second Language Acquisition
			•	Translation
			•	Gender Studies
			•	Indian Writings
			•	American Literature and Adaptation Studies
			•	African Literature
			•	Literature from the Margins
			•	Dalit Literature
			•	Diaspora Studies
			•	Critical Theories
			•	Post-colonial Studies
			•	Cultural Studies
			•	Life Writing
			•	Film Studies
			•	Partition Narratives
			•	Air Pollution
			•	Glaciology
			•	Climate Change impacts on glacier
			•	Environmental Remote Sensing
			•	Environmental Biotechnology &
	Ph.D. Environment Science	7		Bioremediation of emerging contaminants,
			•	Environmental Pollution: Monitoring
12.				Assessment and Management,
			•	Nano-remediation
			•	Environmental Toxicology
			•	Environmental Biotechnology
			•	Algae-bacteria interactions,
			•	Eco physiology
			•	Air pollution and Climate Change- Monitoring
				and on plants effects
			•	तुलनात्मक साहित्य
	Ph.D. Hindi	8	•	लोक साहित्य,
				भक्ति साहित्य,
			•	
			•	भक्ति काव्य
13.			•	मीडिया (हिन्दी पत्रकारिता),
			•	आधुनिक साहित्य,
			•	तुलनात्मक अध्ययन और सिनेमा,
			•	स्त्री विमर्श,
			•	कथा साहित्य
		2		Morphology
14.	Linguistics			Sociolinguistics,
				Field Linguistics and Archiving
				Language Documentation and Description.
<u> </u>			_	Language Documentation and Description.

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15.	Ph.D. Management	3	•	Specialization of Finance Management, Specialization of HR/OB
			•	Optimization and Mathematical Programming,
16.	Ph.D. Mathematics	4		Fluid Mechanics
		4	•	Celestial Mechanics
			•	
			•	Differential Equations
		10	•	Microbial Bioprocess,
			•	Bioenergy and Enzyme Technology,
			•	Medical Microbiology,
1.7			•	Molecular Biology,
17.	Ph.D. Microbiology		•	Bioinformatics and Applied Microbiology,
			•	Microbial Catalyst and process development,
			•	Environmental Microbiology,
			•	Microbial Hydrometallurgy,
			•	Bioprocess Engineering
18.	Ph.D. Pharmacy	4	•	Nano medicine,
			•	Pharmaceutical Technology,
			•	Computer aided drug design,
			•	Synthesis of bioactive heterocyclic molecules/
				drug-conjugates,
			•	Bioactive natural product isolates
		9	•	Condensed Matter Physics (Theory),
	Ph.D. Physics		•	Condensed Matter Theory (Computational),
10			•	Condensed Matter Physics (Experimental),
19.			•	Magnetism and Magnetic Materials,
			•	Nonlinear Dynamics and Chaos,
			•	Plasma Physics
20	Ph.D. Public Policy, Law	7	•	Public Policy Issues, Governance and Law
20.	and Governance			relating to any interdisciplinary subjects.
	Ph.D. Social Work	10	•	Development Studies,
			•	Natural Resource Management,
			•	Nomadic Communities,
			•	Action Research/Intervention Research,
			•	Psychosocial Wellbeing,
0.1			•	Psychiatric Social Work,
21.			•	Peace and Conflict Studies,
			•	Child and Adolescent mental health,
			•	Health,
			•	Medical Social Work,
			•	Livelihood,
			•	Disaster Management
22.	Ph.D. Sports Biosciences		•	Oxidative stress in Sports,
		10		Recovery & Sports Performance of athlete,
				Sports Cardiology, Mitaghandrial dynamic in Sports Science
			•	Mitochondrial dynamic in Sports Science,
			•	Biomarkers in Sports Injury,

			Proteomics and Metabolomics in Sports Science
	Ph.D. Sports Psychology	2	Peak Performance,
			Health and Well Being,
23.			Leadership,
			Excellence,
			Youth Sports
	Ph.D. Statistics	4	Time Series,
			Sampling,
24.			Statistical Quality Control,
			Extreme Value Theory,
			Statistical Inference
25.	Ph.D. Yoga	7	• Sleep Physiology (Polysomnography & EEG),
			Autonomic function tests and Yoga
			Integrative Cardiovascular Medicine,
			Ayurveda and Yoga Therapy