

PhD Research area for the Academic Year 2023-24 for PhD interview

Sl. No.	Department Name	Programme Name	Research Area as received from department through google form
2	Department of Chemistry	Ph.D. - Doctor of Philosophy (Chemistry)	Organic Material, Biophysical Chemistry Nano-Bio Interface Chemistry, Material Science, Innovative materials for sustainable water purification, Nanomaterials for environmental applications, Alternative materials and alternative energy /fuels, Chemistry, catalyst, materials, Inorganic and environmental chemistry, Organometallic chemistry and sustainable organic synthesis, nanomaterials for energy and environmental applications, synthetic organic chemistry and total synthesis of natural products, Organic synthesis and green chemistry and medicinal chemistry
3	Department of Political Science and Public Administration	Ph.D.- Doctor of Philosophy (Political Science and Public Administration)	Political Science
4	Department of Commerce And Financial Studies	Ph.D.- Doctor of Philosophy (Commerce)	Finance (Investment Banking),
5	Department of Computer Science And Engineering	Ph.D.- Doctor of Philosophy (Computer Science and Engineering)	Wireless Communication, Image processing, AI, Machine Learning, Cross Layer Design, Data Mining, Machine Learning and Deep Learning, AI, ML, DL , Data Science , IoT, Cyber Security
6	Department of Energy Engineering	Ph.D.- Doctor of Philosophy (Energy Engineering)	Performance parameters for solar thermal systems, solar photoactive materials for hydrogen generation, carbon valorisation, and environmental remediation, energy management and policy for just transition, new generation photovoltaics, perovskites solar cells, alternative fuels and solid waste management, hydrogen based dual fuel Ic engine, electrical vehicles and smart grid, power systems and controls, demand side management

7	Department of Mass Communication	Ph.D.- Doctor of Philosophy (Mass Communication)	Media Education, Digital Media, Media & Information Literacy and Print Media, Print and Digital Journalism, Health Communication and Media Literacy
8	Department of Metallurgical And Materials Engineering	Ph.D.- Doctor of Philosophy (Metallurgical and Materials Engineering)	Energy Materials Development, Hydrogen production, Energy storage materials, Biomaterials, Functional Materials for Device Fabrication, photocatalysis, Magnetic oxide materials for energy and environmental applications, Modeling and simulation study of Solar Photovoltaic system, Ceramic Material, Biomaterials, Magnetic material, Hyperthermia
9	Department of Civil Engineering	Ph.D.- Doctor of Philosophy (Transportation Engineering)	Reinforced Soil and Structures, Ground improvement and modifications, Pavement Design, flood forecasting and flood plane mapping, Use of HEC-HMS and HEC-RAS for estimation of flood and flood forecasting, Climate change and water resources, Watershed Management using RS and GIS, Hydraulics and Water Resources, Sediment Transportation, Experimental and Computational Hydraulics, Data-driven Modeling in Water Resources Engineering
10	Department of Civil Engineering	Ph.D.- Doctor of Philosophy (Water Resources Engineering)	Reinforced Soil and Structures, Ground improvement and modifications, Pavement Design, flood forecasting and flood plane mapping, Use of HEC-HMS and HEC-RAS for estimation of flood and flood forecasting, Climate change and water resources, Watershed Management using RS and GIS, Hydraulics and Water Resources, Sediment Transportation, Experimental and Computational Hydraulics, Data-driven Modeling in Water Resources Engineering
11	Department of Anthropology And Tribal Studies	Ph.D.- Doctor of Philosophy (Anthropology and Tribal Studies)	Cultural Studies, Folklore, Religious Studies, Indian Culture

12	Department of English Studies	Ph.D.- Doctor of Philosophy (English Studies)	Tribal Studies, Gender Studies, Postcolonial Studies, especially African, Afro-American and Caribbean Literature, Queer and Women's Writings, Border and Partition Studies, Contemporary Critical Theories, Gender and Tribal Studies, linguistics, Diaspora Studies, Tribal Studies, Indian English Writings, Dalit Literature, English Literature and Linguistics
13	Department of Hindi	Ph.D.- Doctor of Philosophy (Hindi)	Hindi Fiction, Hindi literature, Adhunik kavita, Nibandh, Kathetar gaddya, Hindi Kahani, Linguistics
14	Department of International Relations	Ph.D.- Doctor of Philosophy (International Relations)	South Asia / Southern Asia, South Asia and International relations, Central Asian Studies
15	Department of Performing Arts	Ph.D.- Doctor of Philosophy (Theatre Arts)	Theatre Arts/Performance Research, Theatre and Performance Studies; Rituals and Festival Studies
16	Department of Education	Ph.D.- Doctor of Philosophy (Education)	Gender Education, Inclusive Education , Teacher Education, Educational Psychology, Research Methodology in Education/Social Sciences, Curriculum and Pedagogy, Educational Assessment and Evaluation, Creativity/Educational Psychology, Sociological Perspective in Education, Teacher Education, Elementary Education, and Distance Education/Educational Technology, ICT in Education, Educational Technology, Pedagogy of Physical Science, Educational Administration and Management

17	Department of Business Administration	Ph.D.- Doctor of Philosophy (Management)	Human Resource Management, Entrepreneurship , Marketing, Web based Marketing, Advertising, Strategic Management, Rural Retail, Management, IT based marketing and the like HUMAN RESOURCE MANAGEMENT, ORGANIZATIONAL BEHAVIOUR, HUMAN RESOURCE, ACCOUNTING, LABOUR LAWS, Production & Operations Management, Supply Chain Management, Marketing Management, social media, technology in management
18	Department of Environmental Science	Ph.D.- Doctor of Philosophy (Environmental Sciences)	Forestry, Plant Ecology, Soil Ecology, Climate change, Industrial waste water treatment, River restoration, Bio- remediation, Mining and Environment, Water Resource management, phytomanagemnt of pollution, Biodiversity conservation
19	Department of Geoinformatics	Ph.D.- Doctor of Philosophy (Geoinformatics)	Geoinformatics Applications for Disaster Management & Rural Development, Regional Climate Change, Agriculture and Forestry , Remote sensing and GIS/ Climatology/ Meteorology / Disaster Management/ Hazard and Risk Analysis/ Forestry/ Agriculture/Hyperspectral/Machine Learning, Urban forest, Natural Hazard & Risk, SAR Remote Sensing and machine learning, Landslide hazards, glaciology, water resource, climate change impacts
20	Department of Life Science	Ph.D.- Doctor of Philosophy (Life Science)	Cancer Biology , Agriculture Microbiology/Soil Microbiology/Microbiology, Animal Molecular Biology (Cell Biology/ Genetics/ /Biochemistry)
21	Department of Physics	Ph.D.- Doctor of Philosophy (Physics)	Experimental Condensed Matter Physics: Photovoltaics, Multiferroics, Nanogenerators, Solid Oxide Fuel Cells, Semiconductor nanostructures, High Energy Physics and nuclear Physics, Experimental Atomic and Molecular Collision Physics, Experimental Nuclear Physics, Optics and Applied Optics- Photonic Crystals, PhotonicsDevices, Soliton Propagation, Accelerator Physics, Radiation Physics

22	Department of Economics and Development Studies	Ph.D.- Doctor of Philosophy (Economics and Development Studies)	Economics
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