

**CENTRAL UNIVERSITY OF JHARKHAND**

**Annexure-II**

**Ph. D. Programmes admission-2021**

<b>Sl. No.</b>	<b>Subject</b>	<b>Eligibility criteria</b>
1.	Performing arts (Music)	M.P.A./M.Mus./M.A. in Music or Post Graduate in allied subject and having passed any one of the following programmes: B. (Mus.)/ <i>Sangeet Visharad/ Prabhakar/ Sangeet Vid</i> or equivalent qualification with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.
2.	Education	Master's Degree Degree in Education/M. Ed. with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.
3.	English	Master's Degree in English/Film Studies/Theatre with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.
4.	Tibetan Language & Culture	Master's Degree in Tibetan Language & Literatures, Tibetan Studies, Linguistics, Tibetan Buddhist Studies, Himalayan Studies with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD. <b>Specialization :</b> Tibetan Language, Literature, Tibetan Buddhist Studies and Linguistics
5.	Tribal and Customary Law	Master's Degree in Law / Anthropology / Sociology / Public Administration / Human Rights / Social Work / Development Studies / Tribal Law and Governance, or any other related discipline with a minimum 55% marks for General Category and 50% for SC/ST/OBC (non-creamy layer)/ PWD.
6.	Hindi	Master's Degree in Hindi with a minimum 55% marks or equivalent grade in aggregate for General Category and

		50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD. <b>Specialization :</b> Poetry, Drama, History of Literature, Prose.
7.	Physics	Master's or M. Phil. Degree in Physics/Applied Physics with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.  Areas of Specialization: Optics and Nanophotonics, Photonic Crystals, Photonics Devices, Optical Soliton Propagation, Experimental Nuclear Physics, Theoretical high energy physics, Experimental condensed matter physics, semiconductor devices, Nuclear detectors, Nuclear radiation, accelerator physics, atomic and molecular spectroscopy.
8.	Chemistry	Master's Degree in Chemistry Minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.
9.	Commerce	Master's Degree in Commerce with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.
10.	Mathematics	Master's or M. Phil. Degree in Mathematics /Applied Mathematics or equivalent with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.
11.	Geoinformatics	M. Tech/ M.Sc degree in Geoinformatics/ Remote Sensing/ GIS/ Geomatics with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD or equivalent grade OR Master or equivalent degree in Geography, Environmental Sciences/ Forestry/ Chemistry/ Physics/ Geology/ Geophysics/ Mathematics/ Oceanography/ Agriculture/ Atmospheric Sciences/ Climatology/ Information Science/ Computer Science/ Disaster Management/ Electronics/ Town Planning/ Botany/ Zoology along with at least PG Diploma in RS & GIS

		with a minimum 55% marks for General Category and 50% for SC/ST/OBC (non-creamy layer)/ PWD.
12.	Mass Communication	Master's Degree in Communication /Mass Communication/ Journalism/ Electronic Media/Media/ Film/ Advertising/Public Relations/New Media/ Development Communication with at least 55% Marks or equivalent grade in aggregate for General Candidates and 50% or equivalent grade for SC/ST/OBC (Non Creamy Layer)/PWD.
13.	Environmental Sciences	M.Sc. / M. Tech. / M.Sc. (Tech.) or M.Phil. in Environmental Sciences & Sustainable Development, Earth & Atmospheric Sciences, Plant Sciences, Remote Sensing and GIS, Environmental Chemistry, or in a cognate / allied subject with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.  <b>Areas of Specialization and expertise available:</b>  Pure & Applied Meteorology including Micro-meteorology and Agrometeorology, Atmospheric Sciences, Plant Ecology, Conservation Biology, Agricultural Greenhouse gas emission and mitigation, Soil Science, Renewable Energy (Biofuels), Pollution Remediation.
14.	Management	Master's Degree in MBA / PGDBM from recognized (AICTE) govt. Institution Minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.
15.	Energy Engineering	M.E/ M.Tech in Energy Engineering, Mechanical, Electrical, Electronics, Chemical Engineering, Engineering Physics, Nanoscience and Nanotechnology Materials Science or equivalent with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD .
16.	Water Engineering and Management	M. Tech. in Civil Engineering/Agriculture Engineering/ Environmental Engineering/Hydrology/Water Resources/Irrigation and Drainage Engineering/Soil and Water Conservation Engineering/ Water Science &

		<p>Technology or Int. M.Tech in Water Engineering &amp; Management with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD .</p> <p>Area of Specialization: Slope Stability analysis/Ground improvement/Environmental Geo-technology and Earthquake Geotechnical Engineering, Hydrological Modeling/Irrigation System Management/Soft Computing/ Urban Flood Modeling and Management/Watershed Management, Optimal Reservoir Operation, Flood Hazard Planning and Management, Flood Forecasting, Hydrological Modeling of Watershed, Remote sensing and GIS Applications in Hydrology and water resources planning and management. And Data Mining, Soft Computing Methods in Hydrology, Climate Change and Climate Variability, Climate Change impacts on Water Resources, Drought Assessment, Application of RS and GIS in the field of Watershed Management.</p>
17.	Transport Science and Technology	<p>Master's Degree (M.E/M. Tech.) in Geotechnical Engineering, Transportation Engineering, Transport Science and Technology, Civil/Environmental Engineering, and Environmental Science and Engineering with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.</p> <p style="text-align: center;">OR</p> <p>Master's degree (M.Sc.) in (Environmental science, Water Resource Management, Geoinformatics, Geology with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.</p>
18.	Nanoscience and Technology	<p>Master's Degree (M.E./M. Tech./Integrated M. Tech.) in Material Science and Engineering, Nanoscience and Nanotechnology/ Nanotechnology/ Mechanical Engineering/ Chemical Engineering/Electrical Engineering/ Ceramic Engineering/ Metallurgical and Materials Engineering/Electronics Engineering/ Nanoscience and Technology/Biotechnology or other relevant branch of Engineering &amp; Technology with a minimum 60% marks or equivalent grade in aggregate for</p>

		<p>General Category and 55% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.</p> <p style="text-align: center;">OR</p> <p>Master's degree (M.Sc.) in Nanoscience /Nanoscience and Technology / Chemistry/ Physics/ Material Sciences/ Life Sciences/ M. Pharm./ Applied Sciences/Biotechnology or allied subjects with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.</p>
19.	Computer Science and Technology	<p>Master's Degree in Information Technology, Computer Science Computer Science &amp; Engineering, Computer Engineering. Computer Technology with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.</p> <p>Specialization: Cyber Security, Database, Machine Learning, Wireless Sensor Networks, Cross Layer Design, Manets, Energy Efficient Wireless Communications.</p>
20.	Life Science	<p>Master's Degree in Life Science/ Bio Science/Botany/Plant Sciences/ Animal Sciences/Zoology/Biotechnology/Biochemistry/ Microbiology/ Genetics with specializations or major as desired with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.</p>
21.	Tribal studies	<p>Master's Degree in Folklore/ Cultural Studies/ Sociology or English Literature (with focus on Tribal Folklore) with a minimum 55% marks or equivalent grade in aggregate for General Category and 50% or equivalent grade in aggregate for SC/ST/OBC (non-creamy layer)/ PWD.</p>