

CENTRAL UNIVERSITIES COMMON ENTRANCE TEST (CUCET) – 2019
Programmes and Eligibility

TWO-YEAR MASTERS AND PH.D. PROGRAMMES AT CENTRAL UNIVERSITY OF JHARKHAND, RANCHI

Ph.D. PROGRAMMES
Minimum Eligibility Criteria

Candidates for admission to the Ph. D. programme shall have a Master's Degree or a Professional Degree in a relevant area declared equivalent to the Master's Degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions.

A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled and other categories of candidates as per the decision of the UGC from time to time, or for those who had obtained their Master's degree prior to 19th September, 1991. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures.

Candidates possessing a degree considered equivalent to M.Phil. Degree of an Indian Institution, from a Foreign Educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, shall be eligible for admission to Ph.D. programme.

***Overall 10% PhD. Seats may be enhanced for EWS Category subject to availability of supervisor/specialization.**

***The number of seats may change depending on the availability of faculty/ specialization.**

***UGC-NET/UGC-CSIR NET/SLET/GATE qualified students need not appear the CUCET-2019.**

Sl No	Degree	Department	Subject	Eligibility	Intake
1	Ph.D.	Contemporary & Tribal Customary Law	Tribal and Customary Law	Post Graduate degree in Law/Anthropology/sociology/public administration/Human Rights/Social Work or and other related discipline.	03
2	Ph.D.	Mass Communication	Mass Communication	Master degree in Communication/ Mass Communication/ Journalism/ Electronic Media/ Media/Film/Advertising/Public Relations/ New Media/ Development Communication Areas of Specialization: New Media, Cinema Studies, Development Communication and Science Communication	01
3	Ph.D.	Tribal Studies	Tribal Studies	Master degree in any of the following subjects- Tribal Studies, Folklore, Cultural and Social Anthropology, Sociology, Indigenous Culture Studies, English or any tribal language, Literature, Linguistics, or any relevant subject which is having field work component at Post graduate level.	12
4	Ph.D.	Humanities and Social Sciences	Economics & Sociology	Master Degree in Economics / Master Degree in Sociology Area of Specialization: Economics (02), Sociology of Education, Sociology of Development and Sociology of Marginalized groups(01)	02+01
5	Ph.D.	English	English Studies	M.A./M.Phil in English Area of Specialization: Post-Colonial Studies Contemporary Literary Theories, New' Literatures English, Women's Writings, Tribal and Border Narratives: Human Rights, Tribal and Gender Issues, Post modern literature, Eco criticism, Tribal Studies, Indian Theatre, Feminism, Dalit Literature, American Literature, Post Modern Literature, Eco Criticism, Tribal Studies, Indian Theatre, Feminism, Dalit Literature,	04

				American Literature, ELT.	
6	Ph.D.	Mathematics	Mathematics	Masters or M.Phil degree with Mathematics Areas of Specialization: Algebra, Number Theory, Differential Equations, Applied Mathematics, Discrete Mathematics, Numerical Analysis	06
7	Ph.D.	Chemistry	Chemistry	Masters degree or M.Phil in Chemistry Field of Research or Area of Specialization available are: Organic Material, Organic Synthesis, Material/Physical Chemistry, Analytical/Inorganic/Environmental Chemistry, Polymer Chemistry/Applied Chemistry	06
8	Ph.D.	Physics	Physics	Masters degree or M.Phil in Physics/Applied Physics Areas of Specialization: Nanophotonics, Photonic Crystals, Photonics Devices, Optical Soliton Propagation, Experimental Nuclear Physics, Theoretical high energy physics, Experimental condensed matter physics, semiconductor devices, Nuclear detectors, Defect studies	13
9	Ph.D.	Life Science	Life Science	Master's Degree with at least 55% marks in aggregate (50% marks for SC/ST/OBC (Non Creamy Layer)/ PWD candidates). Area of research depends upon the specialization of supervisors.	15
10	Ph.D.	Environmental Science	Environmental Sciences	M.Sc./ M.Tech. / M.Sc.(Tech.) / M.Sc. or M.Phil. in Environmental Sciences & Sustainable Development, Earth & Atmospheric Sciences, Life Sciences, Remote Sensing, GIS, Chemistry, or in a cognate / allied subject. Areas of Specialization: Atmospheric Sciences/Meteorology and related branches, Plant Ecology, Conservation Biology, Plant-Soil interaction,	07

				Phytoremediation, Bioremediation, Agricultural Green House emission and mitigation, Environmental Soil Sciences, Agriculture Meteorology, Agriculture Physics.	
11	Ph.D.	Geoinformatics	Geoinformatics	55% marks in aggregate in (A) Int. M.Tech/ M.Tech/ MSc. degree in Geoinformatics/ Remote Sensing/ GIS/ Geomatics OR (B) 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 <u>at least PG Diploma in RS & GIS.</u>	07
12	Ph.D.	Water Engineering	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 & Technology or Int. M.Tech. in Water Engineering & Management with 60% marks in aggregate or equivalent CGPA. Area of Specialization: Slope Stability analysis/ Ground improvement/Environmental Geo-technology and Earthquake Geotechnical engineering, Hydrological Modeling/Irrigation System Management/Soft Computing/Urban Flood Modelling 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. Multivariate Statistical Analysis, Machine Learning Models 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	10

				field of Watershed Management.	
13	Ph.D.	Energy Science and Technology	Energy Technology	<p>M.E./M.Tech/Integrated M.Tech in Mechanical/ Electrical/ Chemical/ Energy Engineering/ Material Science or equivalent with minimum 60% marks in aggregate or equivalent CGPA or M.Sc. in Physics/Chemistry or equivalent with minimum 55% marks in aggregate or equivalent CGPA.</p> <p>Areas of Specialization: Solar Photoactive Materials, Solar Thermal, Solar Photovoltaics, Alternative Fuels, Smart Grid and Power Electronics, Thermal and IC Engine.</p>	07
14	Ph.D.	Nanoscience and Technology	Nanotechnology	<p>M.Tech/Integrated M.Tech. with 55% 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 or other relevant subjects.</p> <p>Areas of Specialization: Material Science, Materials Engineering, Nanomagnetic Particles, Solar Energy harvesting Materials, Thin Films, Energy storage Materials, Ceramic Materials</p>	04
15	Ph.D.	Computer Science and Technology	Computer Science and Technology	<p>Master degree in Information Technology, Computer Science, Computer Engineering and Computer Applications.</p> <p>Areas of Specialization: Network Security, Computer Databases, Soft Computing, Cloud computing</p>	02
16	Ph.D.	Business Administration	MBA	Master Degree in Management at least 55% marks i.e. MBA with 55%.	06

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17	Ph.D.	Performing Arts	Performing Arts	M.P.A./M.Mus./M.A. in Music or Master's degree in allied subject and having passed any one of the following programmes: B. (Mus.)/ <i>Sangeet Visharad/ Prabhakar/ Sangeet Vid</i> or equivalent qualification	04
18	Ph.D.	Politics and International Relations	International Relations	Post-Graduation in Humanities or Social Sciences with 50% marks.	09
19	Ph.D.	Far East Languages	Tibetan Language	Master's degree in Tibetan Language & Literature, Tibetan Studies, Buddhist Studies, Himalayan Studies Area of Sepcialization: Tibetan Language, Literature & Tibetan Buddhist studies	02
20	Ph.D.	Education	Education	Master's degree in Education/ M.Ed. degree with 55% marks Area of Specialization: Any area in Education	02

**Two- Year Masters Programmes
Minimum Eligibility Criteria**

- A. Science and Education: Minimum 55% marks in qualifying degree for general category and 50% marks for SC/ST/OBC (Non Creamy Layer)/ PWD candidates or equivalent grade.
- B. Arts, Humanities and Social Sciences, Technology & Management: Minimum 50 % marks in qualifying degree for general category and 45% marks for SC/ST/OBC (Non Creamy Layer)/PWD candidates or equivalent grade.
- C. Performing Arts & Tribal Studies: Minimum 45% marks in qualifying degree for general category and 40% marks for SC/ST/OBC (Non Creamy Layer)/PWD candidates or equivalent grade.
- D. **CAT/GATE qualified students with valid CAT/GATE Score need not appear the CUCET-2019.** The GATE qualified students will not be provided any fellowship from the university. The GATE fellowships will have to be obtained from funding agencies.

Sl No	Degree	Department	Subject	Eligibility	Intake + 10% of EWS
1	M.A.	Contemporary and Tribal Customary Law	Tribal Law and Governance	Bachelor's degree in any discipline with 50%. Relaxation as per GOI norms	14 + 2
	LLM		Tribal and Customary Law	Bachelor's degree in Law with atleast 50% marks (or equivalent grades). Relaxation as per GOI norms	28 + 3
			Human Rights		
2	M.A.		Hindi	Bachelor's degree in Hindi (Hons.) or should have studied Hindi as a subject in Bachelor's Degree in Arts/Humanities/Commerce. The candidate must have secured at least 50% in Bachelor's as well as in Hindi subject.	35 + 4

3	M.A.	Mass Communication	Mass Communication	Bachelor's Degree in any Discipline with minimum 50% marks for general category and 45% marks for SC/ST/OBC(Non Creamy Layer)/PWD candidates	40 + 4
4	M.A.	English Studies	English Studies	B.A. English (Hons.)	40 + 4
5	M.A.	Politics and International Relations	Political Science with specialization in International Relations	Graduation Degree in any discipline with 50% marks.	40 + 4
6	M.A.	Performing Arts	a. Specialization in Vocal Music b. Specialization in Theatre Arts	a. Vocal Music: BPA/B.Mus./BA (Music)/B.A. (Any Discipline with Diploma/ Prabhakar/ Sangeet Visharad or equivalent) (Separate question papers to be set for each) b. Theatre Arts: Bachelor degree in any discipline Note: Selection will be done on the basis of audition along with the entrance examination	20 + 2 20 + 2
7	B.Ed. (2 Year)	Education	B.Ed.	Bachelor's Degree and/or in the Master's Degree in Sciences/Social Sciences/Humanity, Bachelor's in Engineering or Technology with specialization in Science and Mathematics with 55% marks or any other qualification equivalent thereto are eligible for admission to the Bachelor of Education programme. Merit list will be prepared on the basis of marks obtained in the qualifying examination and/or in the entrance examination or any other selection process as per the policy of the government/U.T. Administration	100 + 10% subject to approval of NCTE

				and the University. The distribution of Seats across different curricular areas shall be as under :- <input type="checkbox"/> Social Science-24 Seats + 2 <input type="checkbox"/> Language-20 Seats + 2 <input type="checkbox"/> Physical Science + Mathematics-36 Seats + 4 <input type="checkbox"/> Life Science-20 Seats + 2	
8	M.Sc.	Mathematics	Mathematics	Bachelors degree with Mathematics/Statistics but should have studied mathematics in all the three years	40 + 4
9	M.Sc.	Chemistry	Chemistry	1. Bachelors degree with Chemistry as a Major/ Honours subjects 2. The student must have Physics, Chemistry and Mathematics at the +2 Level.	40 + 4
10	M.Sc.	Physics	Physics	1. Bachelors degree with Physics as a Major/ Honours subjects 2. The student must have Physics and Mathematics at the +2 Level.	40 + 4
11	M.Sc.	Life Science	Life Science	B.Sc. (Hons/Major) in Bio- Sciences /Botony /Zoology /Biology /Biotechnology/Biochemistry /Life Science /Microbiology /Genetics /Agriculture Science/ Animal Sciences	40 + 4
12	M.Sc.	Environmental Science	Environmental Science	B.Sc. (Hons/Major)/B.Tech/B.E. in any discipline of Environmental Sciences and its allied subjects such as Agricultural / Forestry / Earth Sciences, Remote Sensing.	40 + 4
13	M.Sc.	Geoinformatics	Geoinformatics	Bachelors (Hons. /Major) in Environmental Science/ Forestry/ Geography/ Chemistry/ Physics/ Geology/ Geophysics/ Mathematics/ Oceanography/ Agriculture/ Atmospheric Science/ Climatology/ Information Science/ Computer Science/ Disaster Management / Electronics/ Town Planning/ Botany/ Zoology and allied disciplines.	28 + 3
14	M.Tech.	Water	Water	B.Tech (Agricultural/Civil Engineering/ Water Engineering and	28 + 3

		Engineering and Management	Engineering and Management	Management) 50% seat is reserved for candidates having valid GATE score and 50% seat is to be filled with CUCET Score. In case of non-availability of GATE qualified candidate, remaining seat may be filled with CUCET qualified candidate. A separate application is to be made by GATE qualified candidates.	(15 GATE Qualified +16 CUCET Qualified). Vacant seats may be interchanged.
15	M.Tech.	Energy Science and Technology	Energy Technology	B.E./B.Tech in Mechanical/Electrical/Chemical/Electronics/Energy Engineering/Material Science or equivalent with Minimum 50% marks or M.Sc. in Physics/Chemistry or equivalent with Minimum 55% marks in aggregate or equivalent CGPA.	28 + 3 (15 GATE Qualified +16 CUCET Qualified). Vacant seats may be interchanged.
16	M.Tech.	Nanoscience and Technology	Nanotechnology	B.E./B.Tech in Nanotechnology/ Nanoscience and Nanotechnology/Metallurgical and Materials Engineering/ Chemical Engineering/ Mechanical/Electrical/Electronics Engineering/ Biotechnology or other relevant disciplines with 50% marks Or M.Sc. in Physics/Chemistry/Biology/Nanoscience or other relevant disciplines with 55% marks.	28 + 3 (15 GATE Qualified +16 CUCET Qualified). Vacant seats may be interchanged.
17	M.Tech.	Computer Science & Technology	Computer Science and Technology	Minimum 50% Marks in Bachelor's Degree in Engineering/Technology (IT/CS/CSE) or equivalent degree in appropriate area or M.Sc. with 55% marks (Computer Science/ Information Technology) or MCA Area of Specialization: Information/Cyber Security, Data Science, Theoretical Computer Sciences and Soft Computing.	28 + 3 (15 GATE Qualified +16 CUCET Qualified). Vacant seats may be interchanged.

18	MBA	Business Administration	MBA	Bachelor's Degree with minimum 50% marks or equivalent CGPA (45% for SC/ST/PWD candidates). The admission will be based on merit of entrance examination score, group discussion and personal interview score.	60 + 6 (33 Through CUCET + 33 Through CAT) Vacant seats may be interchanged.
19	MA	Tribal Studies	Anthropology & Tribal Studies	Any graduate with Anthropology or Tribal Studies having 45% (40% for SC, ST and OBCs). Final semester students of Bachelor degree can also apply.	20 + 2
			Folklore	The course is interdisciplinary. Any graduate with 45% (40% for SC, ST and OBCs). Final semester students of Bachelor degree can also apply.	20 + 2
20	M.Tech	Transport Science and Technology	Transport Science and Technology	Candidates with B.Tech/BE in Civil Engineering with 50% will be eligible for admission in the M.Tech Course.	20 + 2
21	M.Com	Commerce and Financial Studies	Commerce and Financial Studies	B.Com with 50% (45% for SC, ST and OBC).	40 + 4
22	M.A.	Ancient Indian History & Archeology	Ancient Indian History & Archeology	Graduation with 50% (45% for SC, ST and OBC) in Indian History, Culture Studies or Archaeology. Final Semester students of Bachelor degree can also apply.	40 + 4

**PG Diploma Programmes
Minimum Eligibility Criteria**

Sl No	Degree	Department	Subject	Eligibility	Intake + 10% of EWS
1	PG Diploma	Environmental Sciences	Industrial & Occupational Health Safety	B.Sc./B.Tech. in relevant sub. (Environmental Science/ Environmental Management/ Earth & Atmospheric Science/ Meteorology/ Plant Science/Forestry/Animal Science/any allied subject or Any graduate with minimum of 3 yrs experience in industries.	20 + 2
2	PG Diploma	Tribal Studies	Rural and Tribal Development	Any graduate. Final semester students can also apply.	20 + 2