

**Minimum qualifications and Intake for admission to Ph.D.
Programmes for the Academic Year 2022-23
(July 2022 Session)**

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph. D.	Applied Mathematics	01	With at least 55% marks or equivalent grade in Master's degree in Mathematics/Applied Mathematics		
Ph.D	Statistics	01	Master's degree in concerned or related subjects (Mathematics/ Applied Mathematics/Statistics/ Economics/Computational Sciences) with at least 55% marks or equivalent grade		
Ph. D.	Computer Science	15	With at least 55% marks in Master's Degree in any Engineering/ Technology/Computer Science/ Mathematics/Statistics/Bioinformatics OR with 60% marks in B.E./B.Tech. OR M.Phil. in Mathematics or Statistics OR with 60% marks in 3-year MCA programme.		
Ph.D.	Physics	20	With at least 55% marks in M.Sc. degree in Physics or closely related subject / Master's degree in Technology with sufficient Physics background, in terms of courses necessary to carry out research in Physics.		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D.	Electronics Science and Engineering	05	<p>(a) At least 60% aggregate marks in the Master's degree in Electronics Science /Electronics/Applied Electronics/ Electronics and Communication/ Engineering Physics & Instrumentation/ Physics(with Electronics as one of the Subjects)/ Radio physics/ Radio Physics & Electronics</p> <p>OR</p> <p>(b) with at least 60% aggregate marks in the B.E./ B.Tech., in Electronics, Instrumentation and Control Engineering/ Electronics and Communication Engineering/ Electronics and Control systems/ Electronics and Information Systems/ Electronics and Instrumentation/ Electronics Engineering/ Electronics Science and Engineering/ Electronics Technology/ Instrumentation/ Instrumentation & Electronics Engineering./ Instrumentation & Control Systems/ Instrumentation Technology.</p> <p>The admission to Ph.D. (Electronics Science and Engineering) is based on entrance examination which will be conducted by University. This entrance examination is a qualifying one as per UGC regulations. On the basis of their performance, students who qualify in the entrance examination will be called for an interview.</p> <p>However, those who have qualified for UGC-JRF in Electronics Science can apply directly against University notification and appear for an interview. The framework for the interview will be as per the UGC Regulations.</p>		
Ph. D.	Chemistry	16	M.Sc. OR equivalent degree in Chemistry or in allied subjects with at least 55% marks. (Note: B.Tech. in Chemical Engineering, B.Pharm., M.Sc., in Physics or Life Sciences etc., are treated as allied subjects for this purpose)		
Ph.D.	Biochemistry	13	M.Sc. in Biochemistry or in a closely related area or M.Sc. / M.Tech. in Bioinformatics or MBBS with at least 55% marks.		
Ph.D.	Plant Sciences	9	With at least 55% marks in M.Sc. in any branch of Life Sciences or M.Tech. in Bioinformatics/Biotechnology.		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D	Microbiology	2	With at least 55% marks in M.Sc. in any branch of Life Sciences or M.Tech. in Bioinformatics/Biotechnology.		
Ph. D.	Animal Biology	12	With at least 55% marks in Master's degree in Animal Biology or in any area of Life Sciences/M.Tech in Bioinformatics or Biotechnology, M.Pharm, or M.V.Sc.		
Ph.D.	Biotechnology	13	With at least 55% marks in Master's degree in Biotechnology/Biology or a closely related area/ Medical Biotechnology/ Biomedical Science/ MSc Systems Biology/5-year Integrated MSc in Systems Biology/Biology or related areas OR an MBBS/ M. Tech. Biotechnology/ M.Sc./M.Tech Bioinformatics, M. Pharm, M.V.Sc with a minimum of 55% marks.		
Ph.D.	Systems and Computational Biology	01	<p>M.Sc. in Bioinformatics/ Systems Biology/ Computational Biology with minimum 55% marks OR 5-year Integrated M.Sc. in Systems Biology with minimum 55% marks OR Master's degree with 55% marks in Biotechnology/ Physics/ Chemistry/ Mathematics/ any branch of life sciences (Zoology, Botany, Microbiology, Biochemistry, etc.) OR MBBS /MVSc/ M.Tech./ M.E./M. Pharm. with at least 55% marks.</p> <p>The Following are also desired:</p> <ol style="list-style-type: none"> 1. Have studied both Mathematics and Biology upto Intermediate i.e. 10+2 standard. 2. One or more of the following skill sets: computer programming (R /C /Python /Java /Fortran /Mat lab etc.), knowledge of Calculus and numerical methods, Mathematical modelling, Molecular modelling and simulations, Statistics and Machine learning methods, Bioinformatics tools.. 		
Ph. D.	Philosophy	04	With atleast 55% marks in MA Philosophy. Exceptionally good candidates from related fields may be considered subject to the availability of expertise within the Department.		
Ph.D.	Hindi	28	With atleast 55% marks in Master's degree in Hindi		
Ph. D.	Urdu	01	With at least 55% marks in Master's degree in the subject concerned		

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Ph. D.	Applied Linguistics	22	(a) M.A. in Linguistics / Applied Linguistics with at least 55% marks or an equivalent grade. OR (b) MA in allied subjects with a minimum of 60% marks/equivalent grade plus a PG Diploma in Linguistics/Applied Linguistics. (Allied subjects include Language & Literature, Philosophy, Anthropology, Sociology, Psychology, Computer Science, Mathematics, Statistics, Communication Studies, Cognitive Science) Note: Candidates should have acquired their PG degree in English medium only.		
Ph.D.	Translation Studies	01	a) M.A. in Linguistics/Applied Linguistics/Translation Studies/Literature with a minimum of 55% marks. OR (b) M.A. in any other discipline with a minimum of 60% marks/equivalent grade. Note: The candidates who passed their qualifying examination in non-English medium should have minimum 60% marks in English as one of the subjects at their graduate examination.		
Ph.D.	Comparative Literature	04	Master's degree in Comparative Literature or in any language / literature or allied / relevant discipline with at least 55% marks or an equivalent grade. The candidate must have adequate knowledge of at least two languages / literatures (one of which may be English).		
Ph.D.	Sanskrit Studies	02	a) With at least 55% marks in Master's Degree in Sanskrit or equivalent/Natural Language Processing OR; b) With at least 55% marks in B.A.M.S.		
Ph.D.	English Language Studies	4	Master's Degree in English or Linguistics/Applied Linguistics (with English as the medium of instruction), with at least 55% marks.		

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Ph. D.	History	08	With at least 55% marks or Equivalent Grade in M.A. in the subject concerned OR Master's degree in any subject with at least 55% marks OR Equivalent Grade in any subject. The Medium of the Ph.D. Programme is English. All the students applying for the Programme are required to have adequate English language skills.		
Ph. D.	Political Science	14	With at least 55% marks or Equivalent Grade in Master's degree in Political Science/any Social Sciences /Humanities subjects		
Ph. D.	Sociology	12	Master's degree in Sociology or other Social Sciences including Cultural Studies with at least 55% marks.		
Ph.D.	Anthropology	3	M.A./M.Sc. in Anthropology with a minimum 55% marks OR M.A. in allied subject with at least 60% marks		
Ph.D.	Education	5	with at least 55% marks or equivalent grade Master's in Education/ Psychology/ Philosophy/ Sociology/ Social Anthropology/Adult and Continuing Education/ Population Studies/Social Work/Women Studies/ English		
Ph.D.	Regional Studies	03	With at least 55% marks or equivalent grade in M.A. in any Social Science discipline OR M.Sc. in Geography / Disaster Management/ Environment Studies. Eligible candidates willing to work in the identified thrust areas of research at the Centre, including Development, Urban & Regional issues, Environment, Disasters, Tribal Studies, Migration, Borderlands, Violence, and collective identities, will be preferred. Course work is compulsory for all students in Ph.D. in the Centre. Note: Candidates should have an M.A. degree in English medium only.		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D.	Folk Culture Studies	01	Master's degree with at least 55% marks in any of the subjects in Social Sciences, Humanities, Fine Arts, Performing Arts, and Communication. <u>Note:</u> Medium of instruction and submission of thesis shall be in English only.		
Ph.D.	Social Exclusion and Inclusive Policy	02	A Master's degree with any one of the following mentioned subjects with at least 55% marks or equivalent grade. <i>Anthropology, Economics, Education, History, Human Rights, Political Science, Public Administration, Public Policy, Social Exclusion and Inclusive Policy, Social Work, Sociology, Social Geography, Women/Gender Studies.</i>		
Ph.D.	Gender Studies	03	With at least 55% marks or an equivalent grade in Master's degree from any discipline in Social Sciences and Humanities or a Master's in Women's/Gender Studies		
Ph.D.	Economics	11	M.A. in Economics (with at least 55% marks or Equivalent Grade) OR Master's degree in the allied subjects (Commerce, Statistics, Mathematics, Engineering, and Management or any of the Social Science subjects) with at least 55% marks or Equivalent Grade).		
Ph.D.	Dance	02	With atleast 55% marks in the concerned subject in Master's degree OR Master's degree with at least 55% marks in any subject.		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D.	Art History and Visual Studies	01	<p>Completed 2-year/4-semester Master's degree programme in Art History, Social Science, Architecture or relevant discipline (after 4 year undergraduate degree) with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 10- 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 to assess, accredit or assure quality and standards of educational institutions.</p> <p>A person whose M.Phil. dissertation has been evaluated and recommended for award of the degree.</p>		
Ph.D.	Communication	3	<p>With at least 55% marks in Master's degree in the subject concerned</p> <p style="text-align: center;">OR</p> <p>With at least 55% marks in any subject in Master's degree</p>		
Ph.D.	Management Studies	16	<p>With at least 55% marks in Master's degree or its equivalent in Management or Commerce or Accounting (MBA, M.Com, C.A, ICWA, etc.)</p>		

Ph.D.	Health Sciences			
	Public Health	04	<p>a. Master's Degree in Public Health with at least 55% marks in aggregate in qualifying examination.</p> <p>b. Master's degree in any stream of Health Sciences, Indian Systems of Medicine, Applied sciences, Allied Health Sciences, Nursing with at least 55% marks in aggregate in qualifying examination.</p> <p>c. Master's degree holders in Life sciences, Social sciences, Medical Social Work, Behavioral sciences, Health Management and Health Administration with at least 55% marks in aggregate in qualifying examination.</p> <p>Applicants of b. and c. categories above should have demonstrable & documented Public Health Experience of 2-years in addition to the minimum qualifications criteria which will be assessed during the time of interview.</p> <p>Note: JRF holders in Social Medicine & Community Health of UGC-NET with eligibility are also eligible to appear for interview without appearing for University Entrance Examination. Other JRF holders but with demonstrable & documented Public Health Experience of 2-years , can also appear for interview without writing the university entrance examinations for Ph.D in Public Health.</p>	
	Optometry	02	<p>Master's degree in Optometry & Vision Sciences with at least 55% marks in aggregate or its equivalent grade in Master's degree in any stream of Health Sciences, Allied Health Sciences, with at least 55% marks in aggregate in qualifying examination. Publications in international peer viewed journals are desirable.</p>	
	Nursing	01	<p>M.Phil (Nursing) or M.Sc. (Nursing) with specializations Medical Surgical/Community Health/Mental Health and 3year teaching or Clinical experience after M.Sc.(N). The candidates should have passed M.Sc. Nursing with a minimum of 60% marks in aggregate in qualifying examination and strong inclination to research in Nursing and/or health sciences which will be assessed during the time of interview.</p>	

	Biomedical Sciences	03	Master's degree in Biochemistry/Animal Sciences, Biotechnology/Biomedical Sciences/ Pharmaceutical Sciences/ Life Sciences/Genetics/ Physiology or in a closely related area, with at least 55% marks are eligible to apply.		
Ph.D.	Psychology	01	With at least 55% marks in Master's Degree in Psychology		
Ph.D.	Cognitive Science	02	<p>For Cognitive Science Specialisation Master degree in Cognitive Science, psychology, physics, B. Tech in any branch of engineering with a minimum of 55% pass percentage for all. Specialization:</p> <ul style="list-style-type: none"> • Attention, consciousness • Experience with Eye Tracking and EEG is desirable. • Publications in international peer viewed journals is desirable 		
		02	<p>(For Neuroscience specialization) Eligibility: Master's degree with a minimum of 55% in Neural and Cognitive Science, Converging Technologies, Cognitive Science, or any branch of biological science like Zoology, Neuroscience, Biotechnology, Biochemistry, Genetics, etc. Candidates having an interest in the areas of Neurobiology research especially Biochemistry and Molecular biology are encouraged to apply. JRF/NET in these areas with eligibility is also eligible to appear for interview without appearing for University Entrance Examination, as per the admission criterion mentioned in the prospectus.</p>		

Ph.D.	Materials Engineering	07	<p>M.E./M.Tech. or equivalent Master's degree in Metallurgy; Mechanical (Production/Manufacturing Engineering); Materials Engineering; Ceramic Engineering/Technology or Engineering Physics, Chemical Engineering; Nanoscience and technology</p> <p>OR</p> <p>Bachelor's degree in Engineering/Technology in any of the above disciplines.</p> <p>OR</p> <p>Master of science degree in Physics/Chemistry/Materials Science/Nano Science and Technology</p> <p>Candidates should have at least 55% marks in the respective qualifying exam.</p>		
Ph.D.	Nano Science and Technology.	01	<p>M.E./M.Tech. or equivalent Master's degree in Metallurgy; Mechanical (Production/Manufacturing Engineering); Materials Engineering; Ceramic Engineering/Technology; or Engineering Physics, Chemical Engineering; Nanoscience and technology, Electronics Engineering*,</p> <p>OR</p> <p>Bachelor's degree in Engineering/Technology in any of the above disciplines.</p> <p>OR</p> <p>Master of science degree in Physics/Chemistry/Materials Science/Nano Science and Technology, Environmental science*</p> <p>Candidates should have at least 55% marks in the respective qualifying exam.</p>		

List of Ph.D. Courses having exemption from Entrance Examination 2022

S.No.	Subject		Weightage in lieu of WT
1	Applied Mathematics	UGC-JRF, CSIR-JRF & NBHM	50
2	Statistics	UGC-JRF, CSIR-JRF & NBHM	50
3	Computer Science	UGC-JRF, CSIR-JRF	40
4	Physics	UGC-CSIR JRF	40
5	Electronics Science and Engineering	UGC-CSIR JRF	40
6	Chemistry	UGC-CSIR JRF	52.5
7	Biochemistry	CSIR-UGC, DBT, ICMR	40
8	Plant Sciences	- Do -	40
9	Microbiology	- Do -	40
10	Animal Biology	- Do -	40
11	Biotechnology	- Do -	40
12	Systems & Computational Biology	- Do -	40
13	Health Sciences - Public Health stream	UGC JRF in Social Medicine & Community Health	35
14	Health Sciences- Bio Medical stream	JRF in Life Sciences (UGC/ CSIR/ ICMR)	35
15	Cognitive Science	JRF in (UGC/ CSIR/ ICMR/ DBT)	35