

PhD Admission Winter Semester 2022-23 at Adamas University

Apply by 25th December - 2022

A constant endeavour towards innovation coupled with a powerful spirit of research has been the hallmark of Adamas University since its inception. With a robust infrastructure and a strong/powerful research orientation, Adamas University is all set to offer Ph.D. programme in the areas of Basic & Applied Sciences / Engineering & Technology / Humanities & Social Sciences / Law / Management/Education.

As per the UGC guidelines 2022, the academic programme leading to the Ph.D. degree at Adamas University involves a course work program (one semester) followed by a research project leading to thesis submission. Adamas University also actively encourages research in interdisciplinary areas through a system of joint supervision and interdepartmental group activities. The University also undertakes sponsored research and development projects from industrial and other organizations in public as well as private sectors.

List of PhD Program (s) running under Adamas University:

Discipline	Field of Specialization (s)
Mechanical Engineering	Vibration, MEMS, Piezoelectric Materials
Electrical Engineering	Control system analysis and identification
Civil Engineering	Concrete & Construction Technology Innovative & Sustainable Building Materials Rubberized Concrete Composites Geopolymer Concrete Construction Management Nanomaterials and its Application Waste Water Treatment using Membrane Technology Removal of Decontamination of Arsenic and Fluoride from Ground Water Waste Management
Electronics & Communication Engineering	MEMS, NEMS, Devices, Bio-Medical Electronics, Nano Technology and sensors, Signal and Image Processing, Pattern Classification, Gesture Recognition
Computer Science & Engineering	Formal Methods, Symbolic Logic, Application of MI/AI Cloud base infrastructure, Nano communication networks, 5G wireless, network and IoT, Information centric networks, Quantum, Dot Cellular Automata (Nano Computing)
Physics	Condensed matter physics, Electronics, Solid-state physics & electronics, High-energy Physics, LASER & Fiber optics
Medical Physics & Instrumentation	Bio-medical instruments, Nano-bio electronics, bio-medical imaging, AI, IoT
Chemistry	Physical chemistry, organic & inorganic chemistry, material science, nano-science, environmental chemistry, industrial chemistry
Mathematics	Hydrodynamics and Analytical/Numerical Modeling solute transport in geological formations, Mathematical Modelling of Biosciences, Fuzzy Set Theory, Multi-criteria Decision Making, Abstract Algebra, Module theory and Number Theory, Production

	inventory and supply chain management, Data mining and machine learning, Ocean data analysis, numerical/statistical modeling and forecasting, Thermoelasticity, Numerical Methods in Finance,
Geography	Urban Geography and Environmental Geography Hydrology and Disaster Management, Medical Geography and Social Geography, Water Resource Management and Fluvial Geomorphology
Psychology	Clinical psychology, Cognitive psychology, Social psychology, Forensic psychology, Counseling psychology
Biotechnology	Infectious diseases, Environmental Biotechnology, Nutraceuticals and its application.
Microbiology	Mechanism of biofilm formation in enteric pathogens, Strategies Against Antimicrobial Resistance
Biochemistry	Cancer, RNA Biology, Haematopoiesis, Plant Biochemistry, Plant Molecular Biology, Antioxidant and medicinal chemicals, Free radical biology.
Media, Communication & Fashion	Journalism, Advertising, Film Studies, New Media, Media & Communication
Bengali	Language, Poetry, Society, Novels
English	Comparative Literature, Dalit Study, Children literature, Environmental literature
History	Colonial Bengal, History of Medicine, Folk & Tribal Culture, Ancient Indian History
Political Science	International relations & diplomacy, Governance
Sociology	Ageing, politics, culture, urban sociology, clinical sociology, ethnicity and race
Law	Business law, Environmental Law, Arbitration, Information Technology Law, Family Law, Intellectual Property Law, Procedural Law and Substantive Law.
Economics	General economics, Transport economics, finance, market, macro & micro economics, agriculture economics, socio-economics
Commerce	Accounting, Finance, Marketing
Management	Marketing/General Management, Human Resource Management, Finance
Education	Psychology of Education, History of Education, Women Education, Inclusive Education, Special Education, Music in Education, Creativity in Education

PhD Vacancy List : Winter Session; 2022-23 Academic Year

Sl. No	PhD Program	PhD Seat Vacancy (UR)	Area of Specialization
1	Microbiology	01	Mechanism of biofilm formation in enteric pathogens, Strategies Against Antimicrobial Resistance
2	Biochemistry	01	Cancer, RNA Biology, Haematopoiesis, Plant Biochemistry, Plant Molecular Biology, Antioxidant and medicinal chemicals, Free radical biology.
3	Biotechnology	02	Infectious diseases Environmental Biotechnology, Nutraceuticals and its application
4	Mechanical Engineering	01	Vibrations; Smart Materials; Micro-electromechanical Systems (MEMS); Biomedical Applications
5	Civil Engineering	01	Concrete & Construction Technology, Innovative & Sustainable Building Materials, Rubberized Concrete Composites, Geopolymer Concrete, Construction Management, Waste Management, Nanomaterials and its Application, Waste Water Treatment using Membrane Technology, Removal of Decontamination of Arsenic and Fluoride from Ground Water, Waste Management
6	Electrical Engineering	01	All relevant domain
7	Electronics & Communication Engineering	01	Signal and Image Processing, Pattern Classification, Gesture Recognition, MEMS, NEMS, Devices, Nano Technology and sensors
8	Computer Science & Engineering	02	AI, Biomedical , 5G communication, IoT, Application in Biotechnology, Deep Learning.
9	Mathematics	03	Hydrodynamics and Analytical/Numerical Modeling solute transport in geological formations, Mathematical Modelling of Biosciences, Fuzzy Set Theory, Multi-criteria Decision Making, Abstract Algebra, Module theory and Number Theory, Production inventory and supply chain management, Data mining and machine learning, Ocean data analysis, numerical/statistical modeling and forecasting, Thermoelasticity, Numerical Methods in Finance,
10	i) Physics ii) Medical Physics & Instrumentation	03	Condensed matter physics, Electronics, Solid-state physics & electronics, High-energy Physics, LASER & Fiber optics Quantum transport, Spintronics, Up converting nanoparticle based optical sensing or Localized Surface plasmon resonance-based bio-sensing Bio-medical instruments, Nano-bio electronics, bio-medical imaging, AI, IoHT
11	Chemistry	03	Metal Organic Framework, Photophysical Study of Nano Material,
12	Geography	02	Urban Geography and Environmental Geography Hydrology and Disaster Management Medical Geography and Social Geography Water Resource Management and Fluvial Geomorphology

Dr. Sukhvir Singh
3/5

13	Sociology	01	Ageing, rural urban development, community development, politics, culture, urban sociology, clinical sociology, ethnicity and race
14	Political Science	01	International Relations and South Asian Politics Supervisor
15	Management	04	Finance, Marketing & strategy, HR & OB, Data Analytics
16	Economics	01	General economics, Transport economics, finance, market, macro & micro economics, agriculture economics, socio-economics
17	Journalism / Communication Management	01	Film study, Advertising, Journalism and Communication
18	English	02	Comparative Literature, Dalit Study, Children literature, Environmental literature
19	Pharmaceutical Science	03	Pharmacology, Pharmaceutics, Pharmaceutical Chemistry, Pharmaceutical Analysis
20	Environmental Science	02	Environmental pollution and control, Waste management, Bioremediation, Ecological restoration, Wildlife management, Natural resource management, Climate change and adaptations, Environmental microbiology and biotechnology, Environmental toxicology, Sustainability

WRITTEN EXAMINATION AND INTERVIEW:

The Examination will be conducted online.

- *The Examination will start at 11:00 a.m. onwards.*
- *The Examination will be of Two hours duration.*
- *The Examination will test candidates' General Research Aptitude and Core Knowledge in the relevant discipline.*
- *The candidates, who qualify the RET examination are eligible to appear in the Interview, and accordingly the qualified candidates will be intimated for appearing in the interview.*

Note: -Candidates who have qualified in UGC NET / CSIR (JRF) Examination / SLET / GATE are exempted from the RET examination (Written Admission Test).

Eligibility

Qualifying Degree: Master's or equivalent degree in the relevant branch (or allied subjects).

All candidates seeking admission to the PhD program shall have to possess the requisite marks / grades in qualifying examination as indicated below:

Master's Degree or equivalent as approved by Association of Indian Universities (AIU) in Arts, Science, Commerce, Engineering, Technology or any other discipline.

Graduate in Professional courses recognized by law, such as, Medical, Law, Chartered Accountancy, Cost Accountancy, Company Secretary, etc. with good academic record and having aptitude for research.

Dr. Subhrajit
4/5

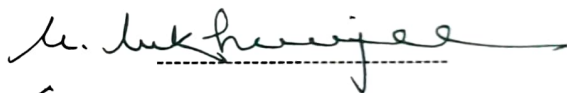
The qualifying marks for Social Science /Humanity is 55% in PG level and for others 60% or equivalent grade in PG level.

Filled in application form (download from web-site) with supporting documents (certificates, mark-sheets, NET / GATE or equivalent qualification proof / certificate) and on-line application fees submission receipt/proof are to be sent in a sealed envelope to the following address on or before 25th December 2022 (5:00 PM):

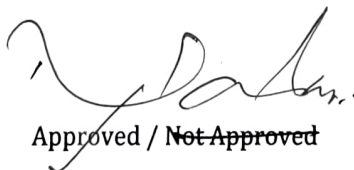
To
The PhD Cell
Adamas University
Barasat – Barrackpore Road
Jagannathpur, 24 Parganas
(North), Kolkata - 700 126,
West Bengal, India

N.B. *University may, at its sole discretion, modify the above-stated Guidelines of entrance examination, vacancy list and eligibility conditions, with or without notice to the applicant. Any such modification will be effective immediately upon public posting. The continuance of the applicant in proceeding with application, following any such modification, constitutes the applicant's acceptance of these modified terms.*

Date: 25th November 2022



Dean (Research & Development) / PhD Coordinator
Adamas University
Kolkata 700126



Approved / ~~Not Approved~~

(Vice Chancellor)