



Advertisement No: AU/R&D/PhD/Adm/062022-SUMR.

Date: 1st June 2022

PhD Admission Summer Session 2022-23 at Adamas University

Apply by 30th June - 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 2016 and its amendments, 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
Pharmaceutical Sciences	Pharmacology, Pharmaceutics, Pharmaceutical Chemistry, Pharmaceutical Analysis
Environmental Science	Sustainable Technology, Climate Change, Water, Health

PhD Tentative Vacancy List : Summer Session: 2022-23 Academic Year

Sl. No	PhD Program	PhD Seat Vacancy (UR)	Area of Specialization
1	Microbiology	02	Mechanism of biofilm formation in enteric pathogens, Strategies Against Antimicrobial Resistance
2	Biochemistry	02	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	Electronics & Communication Engineering	02	Signal and Image Processing, Pattern Classification, Gesture Recognition, MEMS, NEMS, Devices, Nano Technology and sensors
5	Computer Science & Engineering	03	AI, Biomedical , 5G communication, IoT, Application in Biotechnology, Deep Learning.
6	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,
7	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
8	Chemistry	02	Metal Organic Framework, Photophysical Study of Nano Material,
9	Geography	04	Urban Geography and Environmental Geography Hydrology and Disaster Management Medical Geography and Social Geography Water Resource Management and Fluvial Geomorphology
10	Environmental Science	02	All relevant field/ interdisciplinary field
11	Sociology	01	Ageing, rural urban development, community development, politics, culture, urban sociology, clinical sociology, ethnicity and race

12	Political Science	02	International Relations and South Asian Politics Supervisor
13	Management	02	Finance, Marketing & strategy, HR & OB, Data Analytics
14	Education	02	Psychology of Education, Environmental Education, Guidance & Counselling and Measurement & Evaluation in Education Women Education, Inclusive Education, Special Education, History of Education, Philosophy of Education, Psychology of Education, History of Education, Women Education and Teacher Education, Health & Physical Education, Sports in Education, Music in Education, Creativity in Education
15	Journalism / Communication Management	02	Film study, Advertising, Journalism and Communication
16	Law	02	Business law, Environmental Law, Arbitration, Information Technology Law, Family Law, Intellectual Property Law, Procedural Law and Substantive Law.
17	Bengali	02	Language, Poetry, Society, Novels
18	English	02	Comparative Literature, Dalit Study, Children literature, Environmental literature
19	Pharmaceutical Sciences	04	Pharmacology, Pharmaceuticals, Pharmaceutical Chemistry, Pharmaceutical Analysis

WRITTEN EXAMINATION AND INTERVIEW:

The Examination will be conducted online.

- *The Examination will start at 11:00 a.m..*
- *The Examination will be for 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.

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 30th June 2022 (5:00 PM):

To
The Dean (R&D)
The Office of the Research & Development
Adamas University
Barasat – Barrackpore Road
Jagannathpur, 24 Parganas (North),
Kolkata - 700 126,
West Bengal, India

N.B. *Considering the unpredictability of these present times, the University may, at its sole discretion, modify the above-stated Guidelines of entrance, vacancy list and eligibility, 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.*

S/d

Date: 1st June 2022

Dean (Research & Development)/ PhD Cell in-Charge
Adamas University
Kolkata 700126