Karunya DEEMED UNIVERSITY
SOLVING HUMAN PROBLEMS

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TO REDEFINE YOUR FUTURE!

ADMISSIONS OPEN FOR Ph.D. CHEMISTRY & Ph.D. FORENSIC SCIENCE [2021 – 2022 – Odd Semester]

Department of Applied Chemistry, Karunya Institute of Technology and Sciences (Deemed University), invites applications from potential candidates for admission to the Ph.D. programme in Chemistry / Forensic Science (Full Time/Part Time) for the Academic Year 2021-22 [Odd Semester].

DEPARTMENT OF APPLIED CHEMISTRY

Department of Applied Chemistry, Karunya Institute of Technology and Sciences (Deemed University), was established in the year 2007 and the department has been engaged in imparting the highest level of academic education and quality research. The department offers B.Sc. (Hons.) Chemistry, B.Sc. Forensic Science, M.Sc. Chemistry, M.Sc. Forensic Science and Ph.D. programs in Chemistry and Forensic Science. Most of the faculty members have rich postdoctoral research experiences and have won recognition in the form of awards and fellowships from various academic bodies at national and International levels. Their commitment to research is reflected in the large number of projects sponsored by DST, DBT, Ministry of Power, BRNS and other agencies, publications and patents. Importantly, the Department focuses on high quality research in the frontier areas of applied chemistry to solve the human problems related water, health, energy and food.The department areas of research and research facilities are as follows.

Research Areas in Chemistry:

- Electrochemistry
- Bioinorganic Chemistry
- Fluorescent Chemosensors
- Medicinal Organic Chemistry
- Nanochemistry
- Opto-electronic Materials
- Supramolecular Chemistry
- Green Chemistry and Catalysis
- Asymmetric Synthesis
- Supramolecular Chiral Chemistry
- Synthetic Organic Chemistry
- Medicinal Chemistry
- Alternative fuels, Biofuels and Organic Synthesis

Research Areas in Forensic Sciences

- Nano-toxicological examination
- Forensic Chemistry

- Organic Materials for varied Forensic Applications
- Nanomaterials in Forensic Sciences
- Chemical Approach in Forensic Validations
- Fingerprint Developing Agents
- Optical Material for Forensic Applications

Research Facilities

- Shimadzu Prestige 20 FTIR Spectrometer
- Shimadzu LC 20AD HPLC
- Grace X2 Flash Chromatography System
- Biodiesel Rancimat
- Shimadzu GC2010 Chromatography
- Jasco Spectrofluorometer
- Jasco UV-Visible-NIR Spectrophotometer
- CH660 D Electrochemical Work Station
- Rota Evaporator (Heidolf and Buchi)
- Ultra-Low Reaction Bath
- HPLC-MASS
- Bruker 300 MHz NMR Spectrometer
- NMR (300 MHz)

Further details about the department, laboratories, research activities, etc. are available at our department website, https://karunya.edu/chemistry

Minimum Qualification for Ph.D. (Chemistry) Admissions: Master's degree in the relevant discipline of chemical sciences (General Chemistry/Inorganic/Organic/Analytical and Physical chemistry)with minimum 55% marks in aggregate or CGPA 5.5 on a 10 point scale.

Minimum Qualification for Ph.D. (Forensic Science) Admissions: Candidates with a Post Graduate degree in Sciences (Forensic Science, Chemistry, Physics & Life Sciences) or Equivalent PG degree in Science (minimum CGPA of 5.5 on a 10 points scale or 55% marks in aggregate)

Selection procedure: Written test and Interview as per University norms.

Apply online @ https://admissions.karunya.edu/programmes/research

Important dates:

Online Application Beginning Date: 20th April, 2021

Last Date to Receive Online Application: Will be updated in the website

Entrance Examination & Interview: Will be updated in the website

Opportunity for Ph.D. Scholars:

- To engage in inter-disciplinary activity in different fields of Chemistry & Forensic Science
- To engage in collaborative research with national and international research institutions
- To work in the laboratories and utilize the research facilities round the clock (24 x 7) in the Department
- To share and disseminate the research findings and innovations through seminars, conferences, patents, products and publications in reputed journals.
- To get Post Doctoral Fellowships in leading institutions across the globe after your Ph.D. @ Karunya.
- To get academic, research and industrial placements in leading institutions pan India after your Ph.D. @ Karunya.

For more details contact:

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