

Pakistan Institute of Engineering and Applied Sciences (PIEAS)

Information Leaflet for PhD Admissions

1. Introduction to PIEAS

Pakistan Institute of Engineering and Applied Sciences (PIEAS) is a multifaceted educational institution with academic and training programs being conducted at the highest level in a broad spectrum of disciplines. The breadth of its course offerings is a reflection of the complexity and diversity of the programs of Pakistan Atomic Energy Commission (PAEC), for which PIEAS has been the major human resource development centre since 1967.

PIEAS has been conducting postgraduate degree and certificate programs for scientists, engineers, medical doctors and technicians over the last 50 years. The educational infrastructure that has been created for this purpose is now so extensive that, besides nuclear technology, the institution can pass on to the youth of the nation, the experience in a wide range of specialized fields such as information technology, nuclear medicine, medical physics, materials engineering, process engineering, systems engineering and laser technology.

Postgraduate academic programs at PIEAS also involve R&D works, which frequently are published in international and national journals, conference proceedings and technical reports.

In QS Universities World Ranking, PIEAS was ranked No. 1 in Pakistan for the years 2019 and 2020.

In QS Asian Universities Ranking, PIEAS was ranked No. 1 in Pakistan for the years 2014 and 2015.

PIEAS got adjudged as the Best Engineering Institution in Pakistan by HEC in 2006, 2012 and 2013.

PIEAS has four constituent colleges [*sub-campuses*], namely:

1. Karachi Institute of Power Engineering (KINPOE-C) at Karachi,
2. National Institute of Biotechnology and Genetic Engineering (NIBGE-C), Faisalabad,
3. Nuclear Institute of Agriculture and Bio Sciences (NIAB-C) at Faisalabad and
4. National Institute of Laser & Optronics (NILOP-C) at Nilore, Islamabad.

2. PhD Research Areas

2.1 at PIEAS – Main Campus

PhD admission is offered in the following disciplines with major areas of research:

Chemistry: Polymer Nanocomposites, 3D Printing Materials, Chemistry of Aerogels, Radiation Modification & Processing of Polymers, Photo-polymerization, Fuel Cell Membranes, Water Chemistry, Solid-state electrochemistry

Chemical & Process Engineering: Computational & Experimental Research in Fluid Mechanics, Heat Transfer, Mass Transfer, Combustion, etc.

Computer Science: Image Processing, Artificial Intelligence, Computational Intelligence, Pattern Recognition, Machine Learning, Parallel / Grid Computing, Computational Geometry, IOT, Block Chains, Cyber Security, Computer Security & Architecture, Bio Informatics etc.

Electrical Engineering: Robotics, Control Systems, Signal Processing, Reconfigurable Computing, Renewable Energy Resources and Electrical Power Systems, Cyber Security Systems etc.

Mechanical Engineering: Manufacturing, Mechanical Design, Computational Engineering, Turbo Machinery

Metallurgy & Materials Engineering: Nanotechnology, Alloy Development, Powder Metallurgy, Advanced Materials, Micro & Nano Device Fabrication & Characterization, etc.

Nuclear Engineering: Core Neutronics, Nuclear Reactor Thermal Hydraulics, Environmental Engineering, Nuclear Security, Nuclear Fuel Cycle.

Physics: Computational Physics, Laser Physics, Plasma Physics, Medical & Radiation Physics, Bio-photonics, Quantum Optics, Quantum Computing, etc.

2.2 at NILOP – C

Lasers and Semi-conductor Physics

3. Eligibility and Selection Criteria

- MS (18-year education) in the relevant field and at least 3.0 CGPA (out of 4) or equivalent in MS/ M Phil degree.
- For lower degrees/certificates, the academic career required is 60% marks for annual system or minimum CGPA 2.5 (out of 4) for semester system. However, in BSc (two years), HSSC and SSC (or equivalent) one degree/certificate with minimum 50% marks may be allowed.
- Subject GRE (International)/ GAT-Subject test conducted by NTS as per HEC requirements.
- PhD candidates can apply at any time after qualifying subject GRE / GAT test.
- Final selection will be made after a thorough Interview of the eligible candidates.
- HEC scholarship holders can apply.
- Admission is also offered on regular fee basis.
- Serving applicants have to provide NOC from their employers.
- PhD candidates can apply at any time after qualifying subject test. If GAT subject is not available in a specific field, then student has to appear in PIEAS admission test.
- Few scholarships from IT Endowment Fund for PhD are available in IT related fields.

4. Step by Step Application Procedure

- Application submission will be online only. Hard copy applications are not acceptable.
- Go to admissions.pieas.edu.pk and click “Admission” tab
- Create an account and Login to start the online application.
- Fill in and submit online application form. *[Read the instructions carefully]*
- Upload recent passport size color photograph as per the defined standard.
- Upload academic documents.
- Print “**Bank Challan**” for Application Processing Fee.
- Make payment in nearest Askari Bank and upload scanned copy/image of deposited fee slip at PIEAS admission portal.
- Print the “**Call Letter**” (which will be made available after verification of fee through bank).
- Appear for Test at the venue and date mentioned in your call letter.
- Merit List will be placed on PIEAS website within 3 weeks after test.
- Keep visiting your profile on our website for any update before and after Entry Test.

Application Processing Fee*

Application Processing Fee Rs. 3500/-

*- **Application processing fee is non-refundable.**

On-Line Submission:

- Preferably apply online; application forms should be submitted on-line at PIEAS web site admissions.pieas.edu.pk

- Copy of online bank deposit slip will be generated after submission of application form. Save a copy of the bank receipt for your record as well.

The Challan of Application Processing Fee must be deposited in any Askari Bank Branch of Pakistan only.

There will be no bank service charges for submission of processing fee through any branch of Askari Bank.

The Application Processing Fee can also be deposited through online mode in Pakistan only.

There will be Rs. 40/- service charges for online payment of application processing fee.

Documents Required with the Application Form

The following documents must reach Registrar Office at the following address and preferably, documents should be sent through Pakistan Post, TCS, OCS or Leopard services.

Registrar
Pakistan Institute of Engineering and Applied Sciences (PIEAS)
Nilore, Islamabad

- Application Form (if applying off-line)
- Original bank receipt
- A passport size photograph
- Attested copies of all academic documents

** - Applications without above mentioned documents will not be entertained.

5. Regular Students – Fee Structure for PhD Programs

http://admissions.pieas.edu.pk/Academic_Rules/fee_structure.html

- Fee structure may be revised at any time.

6. Fee Refund Policy

%age of Tuition Fee	Timeline for Refund
Complete refund after deduction of Admission Charges	Up to 7 th day of convene of first semester
50% Refund	From 8 th – 15 th day of convene of first semester
No Refund	From 16 th day of convene of first semester