

# 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.

***PIEAS got adjudged as the best engineering institution in Pakistan by HEC in 2006, 2012 and 2013. In QS Asian Universities Ranking, PIEAS was ranked No. 1 in Pakistan for the years 2014 and 2015.***

PIEAS has four affiliated institutes, namely Karachi Institute of Power Engineering (KINPOE) at Karachi, National Institute of Biotechnology and Genetic Engineering (NIBGE) and Nuclear Institute of Agriculture and Bio Sciences (NIAB) at Faisalabad and National Institute of Laser & Optronics (NILOP) at Nilore, Islamabad.

### 2. PhD Research Areas at PIEAS

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

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

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

**Electrical Engineering:** Robotics, Control Systems, Signal Processing, Reconfigurable Computing, Renewable Energy Resources and Electrical Power 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, Biophotonics, Quantum Optics, Quantum Computing, etc.

**Chemistry:** Polymers, Nano-Composites, Membranes, Sol-Gel Chemistry, Nano-Materials, Catalysis, etc.

### 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.

#### 4. **How to Apply?**

- Go to <http://red.pieas.edu.pk/>
- Create an account and Login
- Fill in and submit online application form.
- Upload recent passport size color photograph.
- Upload academic documents
- Print Bank Challan.
- Make payment in Bank and Fill in paid bank challan details in your profile.
- Send required documents to Registrar office.

#### **Application Processing Fee\***

Application processing fee within due date: Rs 2500 for on-line & Rs 3000 for off-line submission

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

#### **On-Line Submission:**

- Preferably apply online; application forms should be submitted on-line at PIEAS web site <http://red.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.

#### **Off-Line Submission:**

- The form can be downloaded from the PIEAS web site <http://red.pieas.edu.pk>.
- Copy of online bank deposit slip is also available at PIEAS website. Save a copy of the bank receipt for your record as well.

For both modes of application form submission, the application processing fee must be deposited in the **PIEAS University online Account No. 00427991660803** (Title of Account: PIEAS-APF) **All HBL Branches in Pakistan**. Application form along with the Bank receipt of processing fee must reach the Registrar Office not later than the advertised deadline. However, **there will be no bank service charges for submission of processing fee through any branch of HBL**.

#### **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

Fee Type	(Rs.)	Category
Admission Charges	12000/-	Once
Re-admission Charges	12000/-	Per re-admission
Library Security	10000/-	Once, Refundable
Hostel/Transport Conservation Charges	6000/-	Once
Tuition Fee	1800/-	Per credit hour per semester
Charges for Thesis Evaluation	22000/-	Per Thesis Evaluation at the time of thesis submission to cover postal charges for sending thesis to foreign/local experts
Fee for Thesis Defence (Local)	40000/-	Per Thesis Evaluation to cover payments to local examiners
Fee for Thesis Evaluation by Foreign Experts for regular students	US\$600	Per Thesis Evaluation to cover payments to foreign examiners (\$200 per examiner)
Fee for Thesis Evaluation by Foreign Experts for sponsored students	As per rules	As per provision in the scholarship
Registration Fee	2000/-	Per semester
Examination Fee	2000/-	Per semester
Internet/PERN Fee	3500/-	Per regular semester
	1750/-	Per summer session
Student Club Fee	2500/-	Per regular semester
	1250/-	Per summer session
Transport Charges	10000/-	Per regular semester
Hostel Internet Charges	2000/-	Per regular semester
Degree & transcript Fee	2000/-	Each
Migration Certificate Fee	1000/-	Each
Duplicate Transcript Fee	2000/-	Each
Duplicate Degree Fee	5000/-	Each
Degree/Transcript Verification Fee	500/-	Per copy
Paper Rechecking Fee	1000/-	Per paper
Accommodation Charges for full time students/ trainees	3000/-	Per month for shared accommodation with community bath.
	4000/-	Per month for shared accommodation with attached bath.
	5000/-	Per month for single accommodation with community bath.
	6000/-	Per month for single accommodation with attached bath.

- - Fee structure may be revised at any time.

## Fee Breakdown for First Semester

1. One Time Charges (Rs. 28,000/-)
  - a. Admission Charges Rs.12,000/- (once)
  - b. Library Security Rs.10,000/- (once, refundable)
  - c. Hostel/Transport Conservation Charges Rs.6,000/- (once)
2. Tuition Fee is Rs.1,800/- per credit hour per semester. Credit Hours for first semester vary from 9 to 12.
3. Other Miscellaneous Charges (Rs. 10,000/- + Rs. 2,000/- (optional for availing hostel internet facility))
  - a. Registration Fee Rs.2,000/- per semester
  - b. Examination Fee Rs.2,000/- per semester
  - c. Internet/PERN Fee Rs.3,500/- per semester
  - d. Student Club Fee Rs.2,500/- per semester
  - e. Hostel Internet charges Rs.2,000/- per semester. For those availing internet Connection in their rooms in PIEAS hostels
4. Transport charges Rs.10,000/- per semester. For those availing PIEAS transport
5. Hostel Accommodation Rs.3,000/- per month (shared accommodation).  
(For those availing hostel accommodation in PIEAS hostels).

Description	MS
Total fee to be deposited for 1 <sup>st</sup> Semester excluding hostel accommodation and PIEAS transport.	Rs.54,200/- (for 9 credit hours)
Total fee to be deposited for 1 <sup>st</sup> Semester including Hostel accommodation.	Rs.72,200/-
Total fee to be deposited for 1 <sup>st</sup> Semester including PIEAS transport.	Rs.64,200/-

### Note:-

- First semester fee may be deposited in the form of pay order or demand draft payable to **Director Finance, PIEAS**. It must reach Registrar, PIEAS along with Acceptance form by the deadline mentioned in your admission offer letter.

## Fee Refund Policy

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