



# PAKISTAN INSTITUTE OF ENGINEERING AND APPLIED SCIENCES (PIEAS), ISLAMABAD

Top Ranking University of Pakistan (QS World Ranking 2020 2021, 2022, QS Ranking Asia since 2014)  
No. 1 Engineering University (HEC Rankings, 2006, 2010, 2013)

**KARACHI INSTITUTE OF POWER ENGINEERING-COLLEGE (KINPOE-C)**

**NATIONAL INSTITUTE OF LASERS AND OPTRONICS-COLLEGE (NILOP-C)**

**NATIONAL INSTITUTE FOR BIOTECHNOLOGY & GENETIC ENGINEERING - COLLEGE (NIBGE-C)**

**NUCLEAR INSTITUTE FOR AGRICULTURE & BIOLOGY - COLLEGE (NIAB-C)**



# ADMISSION 2022

**BS**

**MS**

**PhD**

## SALIENT FEATURES

- Pakistan's Top Ranked University.
- Highly qualified full-time faculty with more than 100 PhD.
- State of the art research laboratories.
- Round the clock access to digital library, computing and internet facilities.
- Male / Female hostels (limited seats) and PIEAS transport for day scholars.
- Well-established & highly successful and accredited BS/ MS / PhD programs.
- Excellence of PIEAS graduates well recognized in the national / international academia and Industry.

## 4-Years BS Programs at PIEAS

- Electrical Engineering
- Mechanical Engineering
- Chemical Engineering
- Physics
- Metallurgy & Materials Engineering
- Computer & Information Sciences

## Eligibility for BS Programs

- Minimum 60% in both Matriculation / O-level (Science) and Intermediate / A-level
- Pre Engineering mandatory for all BS Engineering Disciplines
- Pre Medical students can also apply for BS Computer & Information Sciences and BS Physics.
- Candidates with pre-medical background, who have taken Mathematics as additional subject, are also eligible.
- Students awaiting their final result, but expecting to secure required percentage of marks may also apply.
- Selection shall be made strictly on merit determined by:
  - PIEAS Admission Test: 60% | Matric: 15%
  - F.Sc. or F.Sc. (Part I): 25%
  - O-level / A-Level: 40% of O-Level equivalence from IBCC

- OR
- Admission on the basis of SAT / ACT scores:
  - SAT II result of three subjects (Physics, Chemistry and Mathematics level-II)
  - A minimum score of 2000 is required
  - SAT scores must reach Registrar, PIEAS, latest by **July 05, 2022**
  - The PIEAS institutional code to receive SAT scores is 7272

## Need Based Financial Support Available

## MS Programs at PIEAS

- Admission is open to the 15 MS Programs at PIEAS and KINPOE-C at fellowship and regular fee basis.
- MS Programs at PIEAS are ideally suitable for those candidates, who want to pursue careers in higher education and research and development.

## Eligibility for MS Programs

- All Pakistani nationals with the required qualification.
- Preferably first class academic career. However, one second division ( $\geq 50\%$  marks) is allowed except in the final degree. In case of semester system, a CGPA 2.5 out of 4 in the final degree is required.
- Candidates having BS (4-year) / MSc in Computer Science, Geology must have studied Physics and Mathematics at undergraduate level.
- Candidates expecting completion of their degree requirements by the 31st December 2022 may also apply.
- **Age limit:** There is no age limit for admission on regular fee basis. However, for fellowships the age limit is 32 years for MBBS Doctors and 27 years for all other disciplines as on **June 30, 2022**.
- Merit will be determined by PIEAS Admission Test and Interview.

## Pakistan Atomic Energy Commission Offers

### FELLOWSHIPS FOR MEDICAL DOCTORS, SCIENTISTS AND ENGINEERS

Pakistan Atomic Energy Commission (PAEC) and some other government departments offer a fellowship to MS students at PIEAS and KINPOE-C:

- A stipend of Rs. 35000/- (approx.) per month with tuition fee-waiver.
- Free indoor medical treatment
- Fellow students have to pledge a bond to serve PAEC for 5 years after completion of their degree.
- Appointment after completion of studies in SPS-8.

### KINPOE-C Karachi\*

- MS Nuclear Power Engineering Fellowship only

### PIEAS Islamabad\*

• MS Materials Engineering	Fellowship & Regular
• MS Mechanical Engineering	Fellowship & Regular
• MS Nuclear Engineering	Fellowship & Regular
• MS Process Engineering	Fellowship & Regular
• MS Systems Engineering	Fellowship & Regular
• MS Electrical Engineering	Fellowship & Regular
• MS Mineral Resource Engineering	Fellowship & Regular
• MS Medical Physics	Fellowship & Regular
• MS Physics	Fellowship & Regular
• MS Radiation Physics	Fellowship & Regular
• MS Chemistry	Fellowship & Regular
• MS Computer Science	Regular & IT Endowment
• MS Cyber Security	Fellowship, Regular & IT Endowment
• MSc Nuclear Medicine	Fellowship & Regular
• MSc Radiation & Medical Oncology	Fellowship & Regular

The details for Fellowship Pre-requisites are available at:  
<http://admissions.pieas.edu.pk>

### SCHOLARSHIPS / FUNDING FROM IT ENDOWMENT FUND

IT Endowment Fund Scholarships for MS Computer Science/Cyber Security Programs at PIEAS:

- A stipend of Rs. 28,000/- per month for MS & Rs. 35,000/- for PhD.
  - Students have to pledge a bond to serve the country for 5 years after completion of their degree.
- Around 150 fellowships for MS studies are available on competitive basis.

## PhD at PIEAS

PIEAS has a well-established PhD Program in the major disciplines of engineering and applied sciences being pursued at the institute.

- Preferably first class academic career. However, one second division ( $\geq 50\%$ ) is allowed except in the final degree.
- MS (18-year education) in the relevant field and at least 3.0 CGPA (out of 4) or equivalent in MS / M-Phil degree.
- Subject GRE (International) / GAT-Subject test conducted by NTS as per HEC requirements.
- HEC scholarship holders can apply.
- Serving applicants should apply through proper channel with provision of 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.
- Final selection will be made after a thorough Interview of the eligible candidates.
- **Few Scholarships from Endowment Fund for PhD are available in IT related fields.**

## Research Areas for PhD Programs

- **LASERS AND SEMICONDUCTOR PHYSICS**
- **CHEMICAL & PROCESS ENGINEERING:** Computational & Experimental Research in Fluid Mechanics, Heat Transfer, Mass Transfer, Combustion, etc.
- **COMPUTER SCIENCE:** Image Processing, Artificial Intelligence, Pattern Recognition, Machine Learning, Parallel / Grid Computing, IoT, Block Chains, Cyber Security, Computer Security & Architecture, Bio Informatics etc.
- **ELECTRICAL ENGINEERING:** Robotics, Control Systems, Signal Processing, Reconfigurable Computing, 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, Polymers & Ceramics, 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.

## Application Processing Fee BS | MS | PhD

On-line submission within due date	Rs. 3500/-
On-line submission within two weeks after due date	Rs. 4000/-
<ul style="list-style-type: none"> <li>• There will be no bank service charges for submission of fee through any branch of Askari Bank Limited (AKBL).</li> <li>• However payment through mobile banking apps or Internet banking apps will require additional service charges.</li> </ul>	

**Admission Test will be held in 18 main cities of Pakistan**

## HOW TO APPLY?

- After advertisement in National Daily newspapers, the aspiring applicants shall visit PIEAS admission website <http://admissions.pieas.edu.pk> for updated information and to access PIEAS Admission Portal.
- An applicant shall create an account (against his/her CNIC) on PIEAS admissions web portal and fill application form data online.
- There shall be no application form available for download and to be filled handwritten. No application shall be entertained in hard copy form.

**DIRECTOR ACADEMICS  
PAKISTAN INSTITUTE OF  
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UAN: 051-11-11-PIEAS (74327), Fax: 051- 9248600.

**APPLICATION SUBMISSION  
DEADLINE IS  
JUNE 13, 2022**

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