INSTITUTE OF INDUSTRIAL ELECTRONICS ENGINEERING

PROSPECTUS

EXPLORE THE FUTURE

2026

ADMISSIONS | PROGRAMS | FACULTY

KARACHI, PAKISTAN
www.iiee.edu.pk



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EXPLORE THE FUTURE

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MESSAGE FROM THE **CHAIRMAN**

It is a matter of great satisfaction and pleasure that INSTITUTE OF INDUSTRIAL ELECTRONICS ENGINEERING (IIEE) is producing high-quality manpower, in the form of B.E (Industrial Electronics) graduates under the patronage of the Pakistan Council of Scientific and Industrial Research (PCSIR), which is a premier R&D organization of the Ministry of Science & Technology. In today's world of intense economic competition, Pakistan a developing country can only survive through sustainable economic development and technological self-finance for which human resource development is needed. This is a great challenge for our industrialist, Public and Private sector, R&D organization to come up with indigenous development of technology & trained manpower. IIEE symbolizes a unique bilateral collaboration between Government of Switzerland & Pakistan, and the graduates are playing a pivotal role in industries and organizations across the globe including developed countries. In Pakistan, they are providing services to the industrial sector, research organizations and are also pursuing their career as entrepreneurs and academicians.

I wish that IIEE contributes strides of success in the mission to provide high quality engineering professionals to contribute towards sustainable industrial development in Pakistan.

DR. SYED HUSSAIN ABIDI
CHAIRMAN - PCSIR



MESSAGE FROM THE **MEMBER TECHNOLOGY**

Human Resource Development, through specialized education and training, is the most powerful tool for bringing about technological changes in our society. To face the challenges ahead in this millennium, it is imperative that we open the doors of the latest education and technological development to our youth so that they can carve out a bright future for themselves and the country. Pakistan Council of Scientific & Industrial Research (PCSIR) with the support of Ministry of Science and Technology is effectively contributing in both directions, i.e., education and research.
Institute of Industrial Electronics Engineering (IIEE) established in 1988, offers four years Bachelors of Engineering Program in IndustrialElectronics, accredited by Pakistan Engineering Council (PEC) and affiliated with NED University of engineering and Technology for degree awarding. IIEE provides conducive environment and state of art equipment and trainers in the labs.

The well-trained graduates with engineering insight and professional expertise are gainfully contributing towards sustainable development of the country. I take this opportunity to convey my best wishes to new admitting students and to advise them to excel in their field of specialization so that they can make a good career in their lives and serve the countryand nation with great zeal and conviction.

ENGR. SOHAIL AMEER MARWAT
MEMBER TECHNOLOGY, PCSIR



MESSAGE FROM THE **PRINCIPAL**

Welcome to the Institute of IndustrialElectronics Engineering(IIEE). It is a Federal Government institution running under the administrative control of Pakistan Council of Scientific and Industrial Research (PCSIR), Ministry of Science and Technology (MoST). IIEE offers a Bachelor of Engineering in Industrial Electronics (IE) for more than three decades and is always well recognized for its excellent teaching standards and high-quality B.E (Industrial Electronics) graduates, gainfully employed and pursuing their career animatedly throughout the country and abroad.

The academic program is affiliated with the NED University of Engineering and Technology and is accredited with Pakistan Engineering Council (PEC) at level II on successful implementation of Outcome Based Education (OBE) System.

IIEE curriculum is aligned with the evolving needs, emerging technologies, industry best practices and real-world applications to meet the demands and requirements of industrial sector. It congregates the Electronics engineering with the depth courses of Industrial Instrumentation, Artificial Intelligence, Power Electronics, Embedded Systems, Robotics, Control and Automation. With the support of PCSIR and MoST, up gradation of equipment, infrastructure and allied facilities is under progress through project of Public Sector Development Program (PSDP).

IIEE Students' Project Display Center has also been established to promote IIEE outreach in industrial and professional community.

I am proud of the significant accomplishments of IIEE alumni and envision that the new comers would be much ahead of them. They would lead engineers, innovators, researchers, and entrepreneurs and thereby contribute value to the knowledge-based Economy and society.

ENGR. DR. FARAH HAROON
PRINCIPAL, IIEE





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CHAPTER 1-INTRODUCTION

ABOUT IIEE

In 1985 a study mission of Swiss Experts was invited to Pakistan, and it was identified by the mission that Pakistan needs practical-oriented engineers, particularly in the field of Industrial Electronics Engineering, therefore, the Swiss Government offered to establish the Institute of Industrial Electronics Engineering, and an agreement of cooperation was signed.

The present location of the campus was selected for building Institute, while the cost of building, the infrastructure and the provision of utilities etc. were borne by the Ministry of Science and Technology through PCSIR. Equipment for establishing laboratories and experts were arranged by the Swiss Government. Whereas PCSIR recruited the faculty staff to support the academic/administrative activities.

The curriculum and training Program was jointly worked out by SWISS and Pakistani authorities, (presently IIEE is following revised syllabus of HEC/PEC, OBE level 2). NED University, Karachi was approached for the grant of affiliation of the Institute and for award of B.E degree. After due inspection and assessment, the University granted affiliation to the Institute to conduct B.E degree course in Industrial Electronics Engineering.



ADMINISTRATION

PRINCIPAL
(021-99244581)

Engr. Dr. Farah Haroon
PhD (Telecom), Asian Institute of Tech., Thailand.

PA to Principal
Syed Irfan Shah (021-9924421)

VICE PRINCIPAL
(021-99244582)

Engr. Muhammad Asghar Daudani .
M.Engg. (Industrial Electronics), NEDUET, Karachi.

SENIOR ADMIN OFFICER
(021-99244219)

Mr.Tanvir ul Hassan Siddiqui
MA Economics

INCHARGE ACCOUNTS

Mr. Fareed Ahmed, (Accounts Officer)
B.Com., M.A, University of Karachi

INCHARGE ADMISSIONS & IIEE LIBRARY
(021-99244222)

Engr. Dr. Sajid Hussain
Ph.D. (Electronics), NED-UET, Karachi.

INCHARGE EXAMINATION & QEC

Engr. Muhammad Asghar Daudani .
M.Engg. (Industrial Electronics), NEDUET, Karachi.

COORDINATOR OBE SYSTEM

Engr. Agha Muhammad Shakir
M. Engg. (Industrial Electronics) NED-UET, Karachi.

INCHARGE VISITING FACULTY, OFFICE OF INNOVATION & ENTREPRENEURSHIP

Engr. Dr. Syed Saeed Jaffar .
PhD (Communication System), HITEC Taxila, Pakistan.

INCHARGE HEALTH AND SAFETY & COORDINATOR IAB

Engr. Dr. Asif Ahmed Memon
Ph.D. (Electronics), NED-UET, Karachi

INDUSTRIAL LIASON OFFICER & INCHARGE STUDENTS AFFAIRS

Engr. Dr. M. Sameer Ahmed
PhD (Electronics), YILDIZ Technical University, Turkey

COORDINATOR QEC

Engr. Qurrat-ul-Ain
M.S (Electrical Communication), PNEC (NUST), Karachi.

SPORTS INCHARGE

Mr. Liaquat Ali
BSc, & MAS, University of Karachi.

NETWORK/SYSTEM ADMINISTRATOR

Mr. Noman Habib
M.S (Computer System Engineering), Dawood University (DUET)
PGD (Cyber Security), NED UET



TEACHING FACULTY

CHIEF ENGINEER BPS-20

Engr. Dr. Farah Haroon
Associate Professor
National / International Publications; 16

Ph.D. (Telecom), Asian Institute of Tech., Thailand
M. Engg. (Electrical) NED-UET, Karachi
B.E (Industrial Electronics), IIEE / NED-UET, Karachi

PRINCIPAL INSTRUCTOR BPS-19

Engr. M. Asghar Daudani
Assistant Professor / Principal Engineer

Ph.D. Scholar (Electronics), Dawood-UET, Karachi
M. Engg. (Industrial Electronics), NED-UET, Karachi
B.E. (Electrical), Mehran-UET, Jamshoro

Engr. Dr. Sajid Hussain
Assistant Professor / Principal Engineer
National / International Publications; 09

Ph.D. (Electronics), NED-UET, Karachi
M. Engg. (IC & A), UIT,HU, Karachi
B.E. (Industrial Electronics), IIEE, NED-UET, Karachi

Engr. Dr. M. Sameer Ahmed
Assistant Professor / Principal Engineer
National / International Publications; 07

PhD (Electronics), YILDIZ Technical University, Turkey
M. Engg. (IC & A), UIT, H.U, Karachi
B.E (Electronics), UIT, H.U, Karachi

Engr. Dr. Syed Saeed Jaffar
Assistant Professor / Principal Engineer
National / International Publications; 09

PhD (Communication System) HITEC, Pakistan
MS (Telecom), ICT, Islamabad.
BS (Electronic) SSUET, Karachi

CHIEF INSTRUCTORS BPS-18

Engr. Agha Muhammad Shakir
Assistant Professor / Chief Instructor

M. Engg. (Industrial Electronics) NED-UET, Karachi
B.E (Electrical), NED-UET, Karachi

Engr. Dr. Asif Ahmed Memon
Assistant Professor / Chief Instructor
National / International Publications; 07

Ph.D. (Electronics), NED-UET, Karachi
M. Engg. (Industrial Electronics) NED-UET, Karachi
B.E (Electrical), B E College, Khuzdar

Engr. Qurrat-ul-Ain
Assistant Professor / Chief Instructor
National / International Publications; 03

M.S (Electrical Communication), PNEC,
(NUST), Karachi.
B.E. (Industrial Electronics), IIEE, NED-UET, Karachi

Mr. Liaquat Ali Chief Instructor	BSc, & MAS, University of Karachi.
Engr. M. Ghazanfar Ali Chief Instructor	M.S (Electrical, Specialization in Communication), PNEC, National University of Science & Technology (NUST), Karachi. B.S (Electronics), SSUET, Karachi.

SENIOR INSTRUCTOR BPS-17

Engr. Ghulam Mustafa Rind Senior Instructor	M.S (Electronics), Dawood UET, Karachi. B.E. (Electronics), Dawood CET / NED-UET, Karachi.

FACULTY - CSE

Engr. Syed Bilal Ahmed Computer System Specialist/Faculty Member	ME (CISE), NED-UET, Karachi BE (Electrical), NED-UET, Karachi
Engr. Summaiya Mahmood Computer System Specialist/Faculty Member	MS (CSIT), NED-UET, Karachi BE (CISE), NED-UET, Karachi

LAB SUPPORTING STAFF

Mr. Syed Kashif Mateen	MS Project Management (Muhammad ali Jinnah University)
Ms. Javeria Mahjabeen	MSc (Applied Physics), University of Karachi. DAE (Instrumentation and process Control), SBTE
Mr. Zahid Ahmed Khan	DAE (Electrical), SBTE MA (IR)

LAB STAFF

Mr. Ameer Hamza
Chief Instructor

B. Tech, Mechanical NED-UET Karachi
D.A.E (Mechanical Technology), Karachi.

ADMINISTRATIVE SUPPORTING STAFF

STUDENT AFFAIRS & RECORD BRANCH

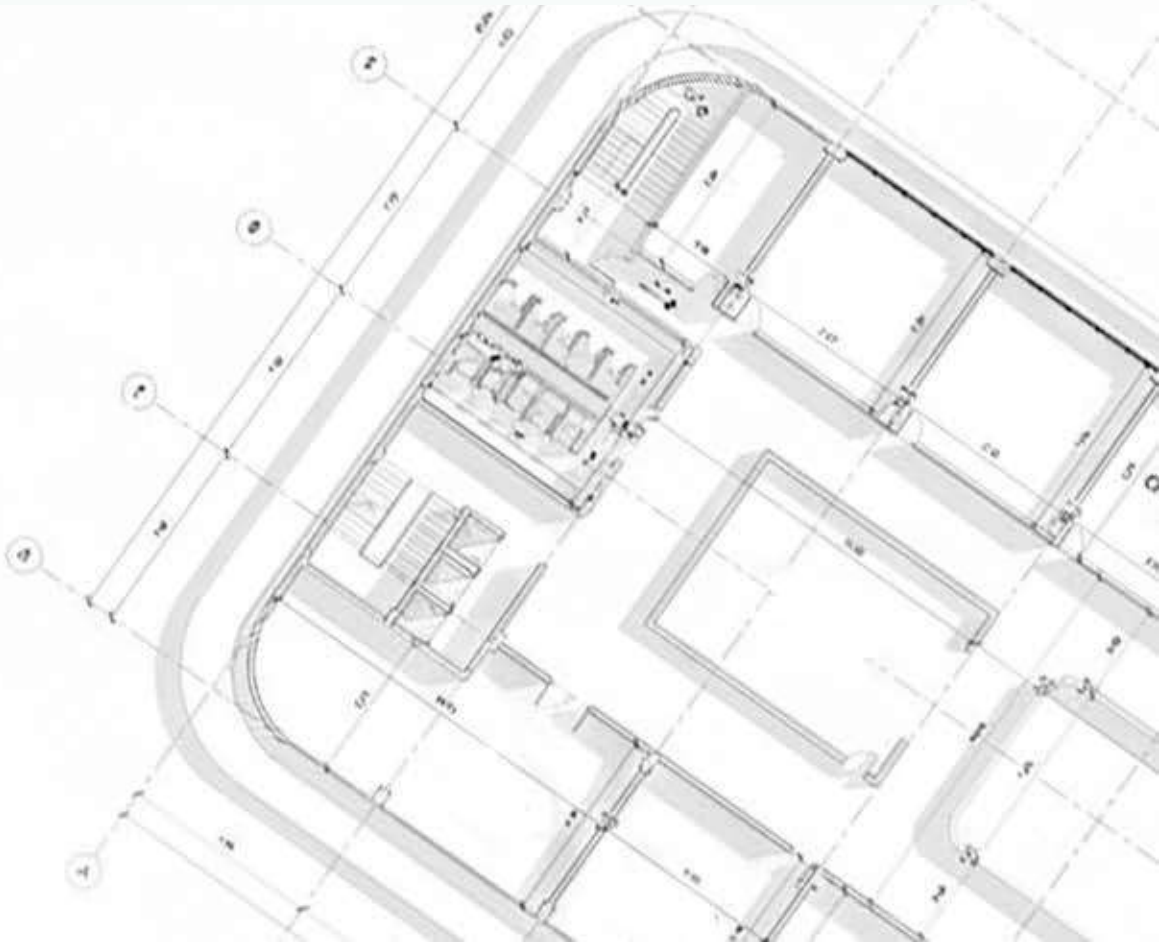
Mr. S.M. Qayyum

LIBRARY ASSISTANT

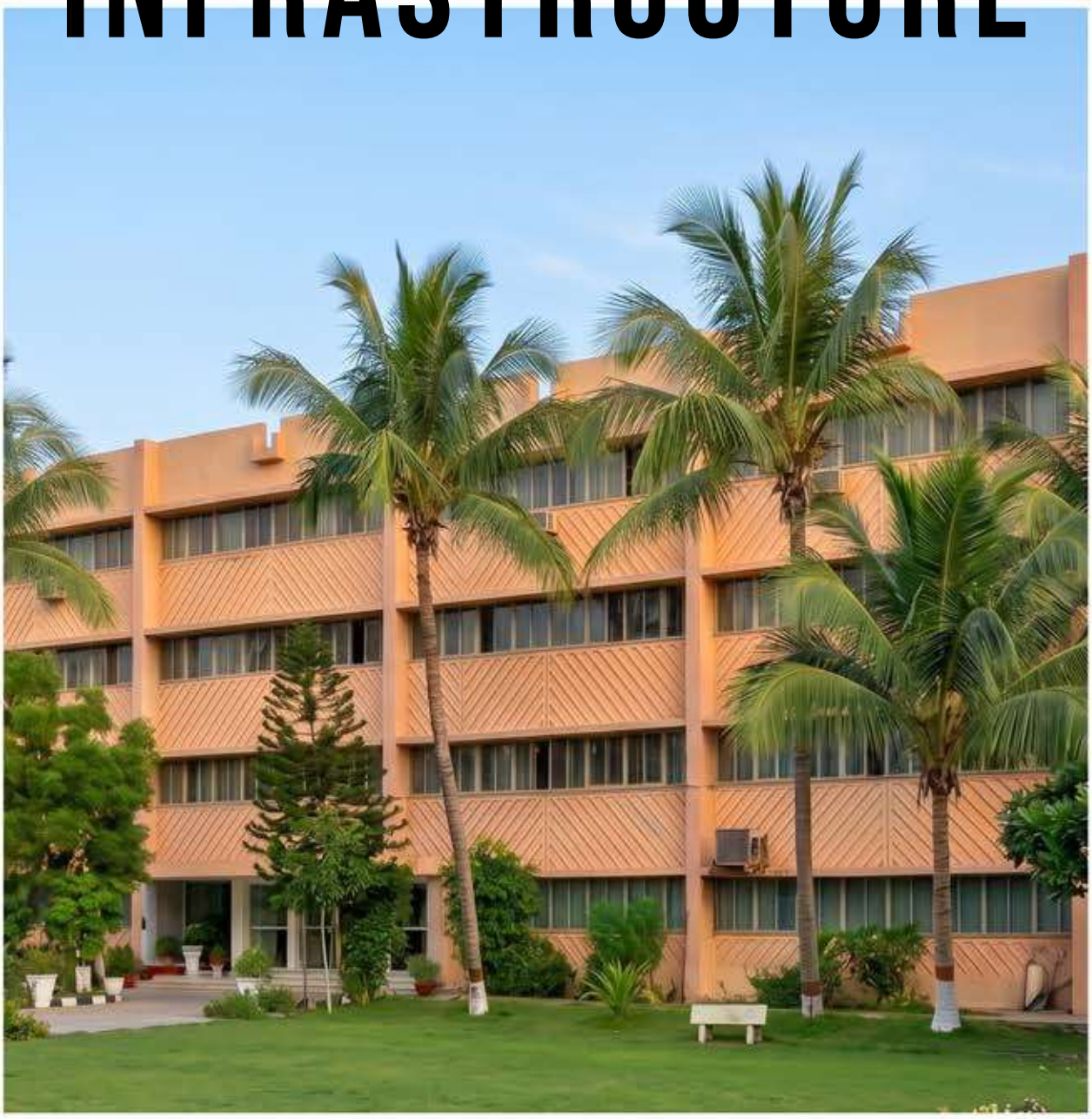
Ms. Faiqa Khatoon

STORE ASSISTANT

Mehboob Ali



IIEE INFRASTRUCTURE



IIEE LABS & WORKSHOPS

FOUNDATIONAL SCIENCES AND WORKSHOPS

Focuses on the fundamental scientific principles, mechanical fabrication, and basic practical skills required across all engineering disciplines.

Applied Physics Lab
Basic Engineering Lab
Fabrication Workshop

CORE ELECTRONICS AND DIGITAL SYSTEMS

Dedicated to the understanding, design, analysis, and testing of fundamental and complex electronic circuits and digital logic systems.

Electronics Lab
Analog & Digital Lab
Advance Electronics Lab

COMPUTING, SIMULATION, AND EMERGING TECHNOLOGIES

Dedicated to the understanding, design, analysis, and testing of fundamental and complex electronic circuits and digital logic systems.

Computation Lab
Computer and Simulation Lab with Additional Digital Library
AI and Robotics Lab

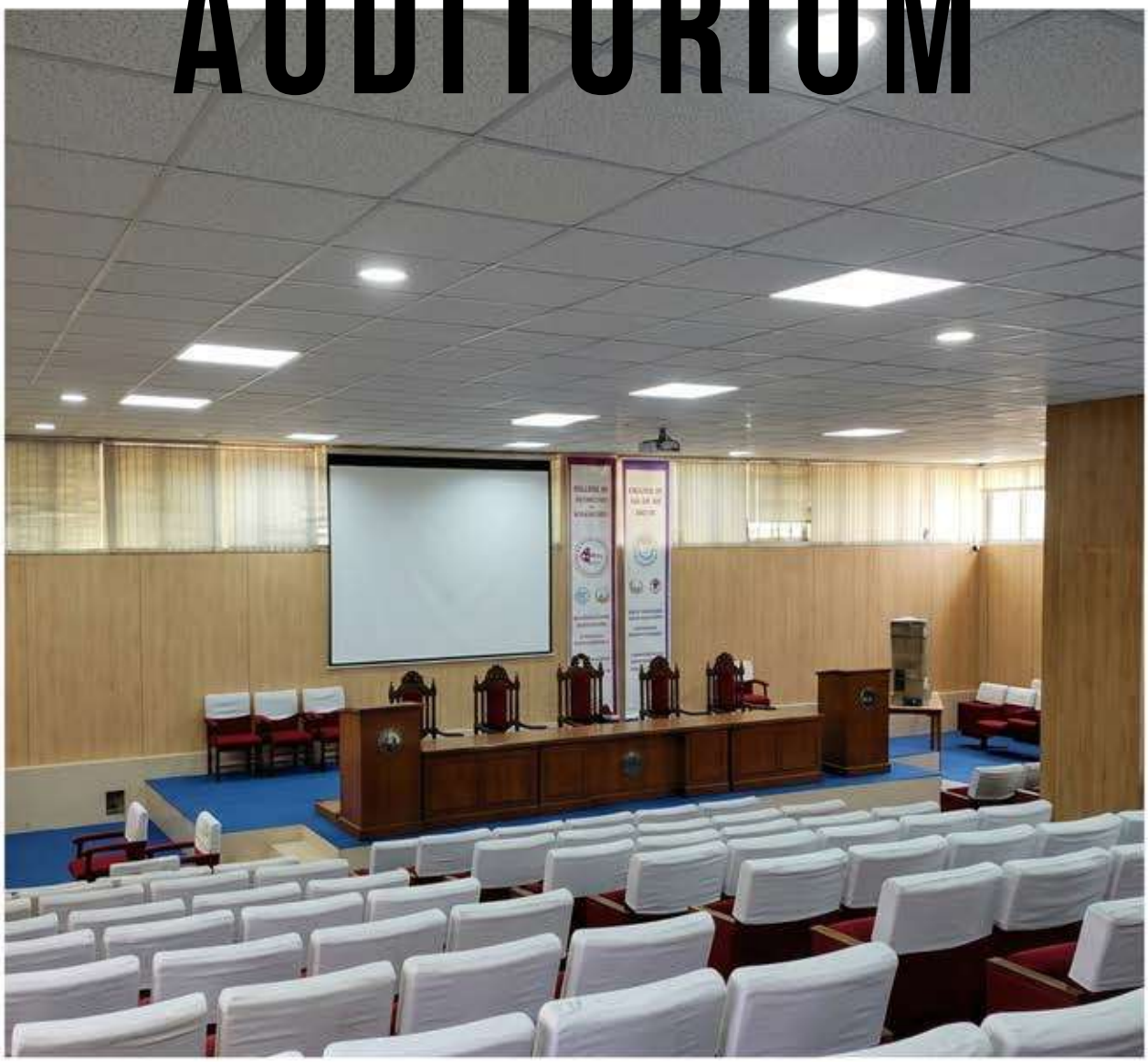
POWER, AUTOMATION, AND INDUSTRIAL SYSTEMS

Centers on the application of electronics to control heavy machinery, manage power generation, and automate large-scale industrial processes.

Electrical Machines Lab
Electronic Motor Drives and Power Electronics Lab
Industrial Automation Lab
Industrial Electronics and Project Lab


SIEMENS
Accelerating transformation
for industries

IIEE AUDITORIUM



CHAPTER 2-ACADEMIC PROGRAMMES

B.E INDUSTRIAL ELECTRONICS

ACADEMIC PROGRAMME

Institute of Industrial Electronics Engineering (IIEE) offers a four year course leading to degree of Bachelor of Engineering in the discipline of Industrial Electronics (IE) which any other university of Pakistan is not offering. It is therefore, the graduate engineers of IIEE have a unique status in the job market.

The candidates who aim to take up the degree course should possess the character and aptitude necessary to distinguish themselves through the instructions provided at the institute level. The main objective of this course is to provide the student with a thorough knowledge of the fundamentals on which the modern engineering science is based. Theoretical instruction is supplemented with relevant experimental work in the laboratories and workshops.

DEGREE AWARDING AUTHORITY

The students who comply with the conditions prescribed by the Institute and successfully complete their courses and pass the required examination with minimum 2.0 CGPA are awarded the degree of B.E. in Industrial Electronics by NED University of Engineering & Technology, Karachi.

ACCREDITATION

The academic Programme since its inception is accredited by Pakistan Engineering Council(PEC). To facilitate global mobility and international recognition, IIEE has adopted Outcome Based Education (OBE) in both academics and assessments. The current batches are accredited on OBE level II on Washington accord.

OUTCOME BASED EDUCATION (OBE) SYSTEM

IIEE has adopted the OBE Framework manual of NEDUET, which is also approved from academic council, a statutory body of NEDUET, Karachi. The following Program Educational Objectives (PEOs) are also included in OBE frame work of an academic program of Industrial Electronics Engineering.

IIEE PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO-1: Demonstrate essential knowledge and skills to investigate, analyze and solve industrial electronics engineering problems.

PEO-2: Work efficiently with the spirit of team work and leadership with effective communication skills.

PEO-3: Develop professional ethics and engineering practice for societal and environmental development.

PEO-4: Engage in lifelong learning for continued professional growth.

PROGRAM LEARNING OUTCOMES (PLO)

PLO-1 ENGINEERING KNOWLEDGE

Apply knowledge of mathematics, natural science, Engineering fundamentals & Engineering specialization to solution of complex Engineering Problems (WK-1 - WK4).

PLO-2 PROBLEM ANALYSIS

Identify, formulate, conduct research literature & Analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science & engineering science (WK-1 -WK4).

PLO-3 DESIGN/DEVELOPMENT OF SOLUTIONS

An ability to design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations (WK-5).

PLO-4 INVESTIGATION

Conduct Investigation of Complex Engineering Problems using research based knowledge & research methods, including design of experiments, analysis & interpretation of data and synthesis of information to provide valid conclusions (WK-8).



PLO-5 TOOL USAGE

Create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering problems, with an understanding of the limitations (WK-2 - WK-6).

PLO-6 THE ENGINEER AND WORLD

Analyze & evaluate sustainable developments effect to society, the economy sustaInability, health & safety, legal frameworks & the environment while solving complex Engineering Problems (WK-1, WK-5 & WK-7).

PLO-7 ETHICS

Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice and adhere to relevant national and international laws. Demonstrate and understand the need of diversity and inclusion (WK-9).

PLO-8 INDIVIDUAL AND COLLABORATIVE TEAM WORK

Function effectively as an individual, and as a member or leader in diverse and inclusive teams and in multidisciplinary, face-to-face, remote and distributed settings (WK-9).

PLO-9 COMMUNICATION

Communicate effectively and inclusively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation,
and make effective presentations, taking into account cultural, language, and learning differences (WK-1 and WK-9).



PLO-10 PROJECT MANAGEMENT AND FINANCE

Demonstrate knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environments (WK-2 and WK-5).

PLO-11 LIFELONG LEARNING

Recognize the need for, and have the preparation and ability for
i) independent and life-long learning
ii) adaptability to new and emerging technologies and
iii) critical thinking in the broadestcontext of technological change (WK-8 and WK-9).



IIEE PROSPECTUS 2026

COURSE SCHEME OF INDUSTRIAL ELECTRONICS ENGINEERING PROGRAMME



FIRST YEAR OF ENGINEERING

FE (IE) FALL SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
HS 115	Functional English	2	0	2
MS 111	Calculus and Analytical Geometry	3	0	3
MS 115	Applied Physics	2	1	3
IE 114	Engineering Drawing	0	1	1
IE 115	Engineering Materials & Workshop	1	1	2
IE 116	Linear Circuit Analysis	3	1	4
CS 111	Application of ICT	2	1	3
CY 100	Chemistry	-	-	NC
	Total	13	5	18

FE (IE) SPRING SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
HS 124	Communication & Presentation Skills	2	0	2
HS 231	Pakistan Studies	2	0	2
MS 121	Differential Equations	3	0	3
IE 121	Basic Electronics	3	1	4
IE 122	Fabrication Workshop	0	1	1
IE 125	Computer Programming	3	1	4
HS 122 HS 123	Islamic Studies (Muslims) Ethical Behaviour (Non-Muslims)	2	0	2
	Total	15	3	18

SECOND YEAR OF ENGINEERING

SE (IE) FALL SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
HS 232	Ideology & Constitution of Pakistan	2	0	2
MS 231	Complex Variables & Transforms	3	0	3
IE 232	PCB Designing	0	1	1
IE 235	Electronic Circuit Design	3	1	4
IE 231	Electromagnetic Field Theory	2	0	2
IE 357	Electrical Machines	3	1	4
HS 233	Civic & Community Engagement	2	0	2
	Total	15	3	18

SE (IE) SPRING SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
MS 241	Linear Algebra	3	0	3
IE 245	Digital Logic Design	3	1	4
IE 246	Instrumentation & Measurements	3	1	4
IE 247	Basic Mechanical Engineering	2	0	2
IE 248	Electrical Network Analysis	3	1	4
HS 241	Occupational Health & Safety	1	0	1
HS 200	Community Service	-	-	NC
HS 242 HS 243	Understanding of Holy Quran-1 Introduction to Ethics-1	0/1	1/0	1
	Total	15/16	4/3	19

THIRD YEAR OF ENGINEERING

TE (IE) FALL SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
IE 359	Probability & Statistics for Engineers	2	0	2
IE 352	Integrated Circuits	3	1	4
IE 358	Mircoprocessors and Microcontrollers	3	1	4
IE 356	Signals and Systems	3	1	4
IE 362	Power Electronics	3	1	4
HS 352 HS 353	Understanding of Holy Quran-II Introduction to Ethics-II	0/1	1/0	1
	Total	14/15	5/4	19

TE (IE) SPRING SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
HS 361	Expository Writing	3	0	3
EL 46X	Elective (Non Engineering)	2	0	2
IE 361	Feedback Control Systems	3	1	4
IE 364	Embedded Systems	2	1	3
IE 484	Communication Systems	3	1	4
HS XXX	Foreign Language I	-	-	NC
	Total	13	3	16

ELECTIVES: NON ENGINEERING COURSES

EL 461 Organizational Behavior (2+0)

EL 462 Critical Thinking (2+0)

EL 463 Sociology for Engineers (2+0)

FOURTH YEAR OF ENGINEERING

BE (IE) FALL SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
MS 484	Entrepreneurship	2	0	2
IE 475	Artificial Intelligence	3	1	4
IE 471	Digital Signal Processing	3	1	4
IE 473	Industrial Process Control	2	1	3
IE 485	Final Year Design Project	0	3	3
HS XXX	Foreign Language II	-	-	NC
	Total	10	6	16

BE (IE) SPRING SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
MS 471	Numerical Methods	3	0	3
MS 483	Engineering Economics & Management	3	0	3
EL 47X	Elective (Engineering)	3	1	4
IE 483	Industrial Instrumentation Systems	2	1	3
IE 485	Final Year Design Project	0	3	3
	Total	11	5	16

ELECTIVES: ENGINEERING COURSES

EL 471 Electronic Motor Drives (3+1)

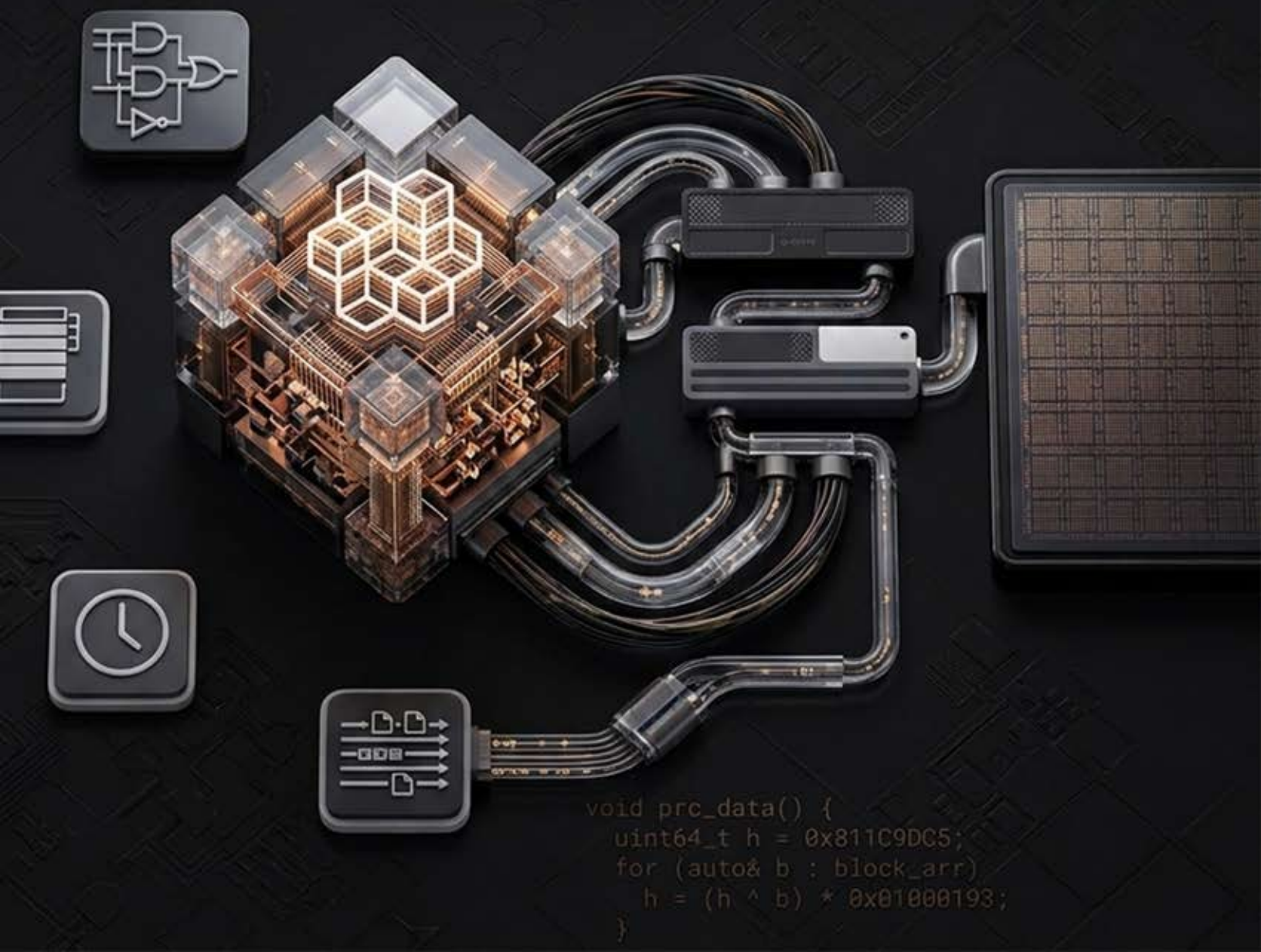
EL472 Digital System Design (3+1)

EL473 Digital Control Systems (3+1)

EL 474 Robotics (4+1)

IIEE PROSPECTUS 2026

COURSE SCHEME OF COMPUTER SYSTEMS ENGINEERING PROGRAMME



FIRST YEAR OF ENGINEERING

FE (CSE) FALL SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
HS 115	Functional English	2	0	2
HS 232	Ideology and Consitution of Pakistan	2	0	2
MS 111	Calculus and Analytical Geometry	3	0	3
MS 115	Applied Physics	2	1	3
CS 112	Basic Electrical Engineering	3	1	4
CS 113	Computer Programming	3	1	4
CY 100	Chemistry	-	-	NC
	Total	15	3	18

FE (CSE) SPRING SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
HS 124	Communication & Presentation Skills	2	0	2
CS 111	Applications of ICT	2	1	3
MS 121	Differential Equations	3	0	3
IE 121	Basic Electronics	3	1	4
CS 121	Object Oriented Porgramming	3	1	4
HS 122 HS 123	Islamic Studies (For Muslims) Ethical Behaviour (For Non-Muslims)	2	0	2
	Total	15	3	18

SECOND YEAR OF ENGINEERING

SE (CSE) FALL SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
MS 231	Complex Variables & Transforms	3	0	3
HS 231	Pakistan Studies	2	0	2
IE 245	Digital Logic Design	3	1	4
CS 231	Data Structures and Algorithms	3	1	4
IE 359	Probability and Statistics for Engineers	3	0	3
HS 233	Civics and Community Engagement	2	0	2
	Total	16	2	18

SE (CSE) SPRING SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
MS 241	Linear Algebra	3	0	3
IE 356	Signals and Systems	3	1	4
CS 241	Computer Architecture	3	0	3
CS 242	Operating Systems	3	1	4
CS 243	Database Management Systems	3	1	4
HS 200	Community Service	-	-	NC
HS 242 HS 243	Understanding of Holy Quran-I Introduction to Ethics-I	0/1	1/0	1
	Total	15/16	4/3	19

THIRD YEAR OF ENGINEERING

TE (CSE) FALL SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
CS 351	Computer Communication Network	3	1	4
IE 358	Microprocessors and Microcontrollers	3	1	4
CS 352	Software Engineering	3	1	4
CS 353	Automation and Control	3	1	4
CS 354	Cyber Physical Systems	2	1	3
HS XXX	Foreign Language-I	-	-	NC
HS 352 HS 353	Understanding of Holy Quran-II Introduction to Ethics-II	0/1	1/0	1
	Total	14/15	6/5	20

TE (CSE) SPRING SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
HS 361	Expository Writing	3	0	3
HS 241	Occupational Health and Safety	1	0	1
MS 471	Numerical Methods	3	0	3
IE 471	Digital Signal Processing	3	1	4
IE 475	Artifical Intelligence	3	1	4
EL 46X	Elective I (Non Engineering)	2	0	2
	Total	15	2	17

ELECTIVES I: NON ENGINEERING

EL 461 Organizational Behavior (2+0)

EL 462 Critical Thinking (2+0)

EL 463 Sociology for Engineers (2+0)

FOURTH YEAR OF ENGINEERING

BE (CSE) FALL SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
MS 484	Entrepreneurship	2	0	2
EL 47X	Elective II (Engineering)	2	1	3
CS 471	Industrial IOT and Informatics	2	1	3
CS 472	Real Time Systems	3	1	4
CS 473	Final Year Project (Computer Engineering Project)	0	3	3
	Total	9	6	15

BE (CSE) SPRING SEMESTER

Course Code	Course Title	Credit Hours		
		T	L	Total
EL 48X	Elective III (Engineering)	2	0	2
MS 483	Engineering Economics and Management	3	0	3
CS 481	Robotic System Designs	2	1	3
CS 482	Industrial Systems Analytics	3	1	4
HS XXX	Foreign Language II	-	-	NC
CS 473	Final Year Project (Computer Engineering Projects)	0	3	3
	Total	10	5	15

ELECTIVES II: ENGINEERING

EL475 Distributed Computing (2+1)
EL476 Deep Learning (2+1)
EL477 Computer Vision (2+1)

ELECTIVES III: ENGINEERING

EL481 Cyber Security (2+0)
EL482 Cloud Computing (2+0)
EL483 Block Chain Technology (2+0)

BOARD OF STUDIES (BOS)

IIEE board of studies (BOS) is academic regulatory body of the institute. The Board is chaired by the Principal IIEE and it consists of senior IIEE faculty members and two nominated members from NED University of Engineering and Technology. On recommendation of PEC, two external members from industry and academia have been included in IIEE BOS. Regular BOS meetings are held at least four in one academic year.

QUALITY ENHANCEMENT CELL (QEC)

The Quality Enhancement Cell (QEC) at IIEE plays a crucial role in ensuring the continuous improvement of academic programs and institutional effectiveness. Dedicated to maintaining high educational standards, the QEC focuses on assessing and enhancing the quality of teaching, learning, and research. It facilitates regular feedback from students and faculty, analyzes performance metrics, and implements best practices in educational management.

STUDENT'S BRANCH OFFICE

The Students' Branch Office at IIEE serves as a vital resource for student- related services and administrative support. This office is responsible for coordinating various activities, including student registrations, academic guidance, and event planning. It acts as a liaison between students and the administration, ensuring that students' voices are heard and their needs are addressed. The office also provides information on extracurricular activities, scholarships, and career services, helping students make the most of their university experience.

OFFICE OF INNOVATION & ENTREPRENEURSHIP (OIE)

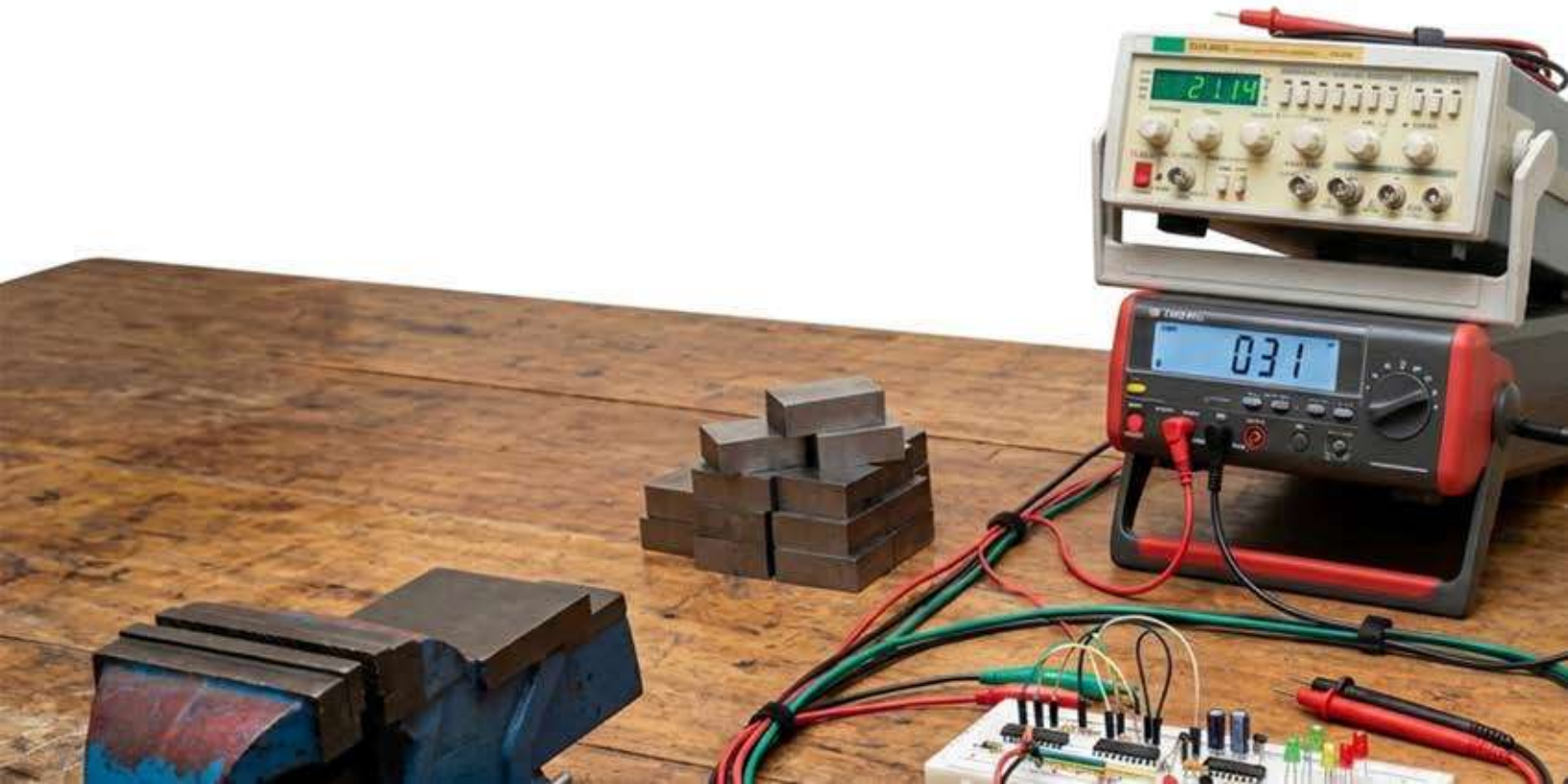
The Office of Innovation and Entrepreneurship (OIE) at IIEE is dedicated to fostering a culture of creativity and entrepreneurial spirit among students. The office provides resources such as workshops, mentorship programs and networking opportunities with industry professionals.

COURSE REVIEW COMMITTEE (CRC)

Course Review Committee at IIEE is responsible for evaluating and enhancing the quality of academic program. The committee conducts regular assessments of course content, teaching methods, and learning outcomes. The committee identifies areas for improvement and ensures that the curriculum remains relevant and effective. This collaborative approach not only enhances the educational experience but also promotes continuous improvement in teaching and learning practices.

HEALTH & SAFETY COMMITTEE

The Health and Safety Committee at IIEE is dedicated to promoting a safe and healthy campus environment for all students, faculty, and staff. This committee is responsible for developing and implementing policies and procedures that address health and safety concerns, ensuring compliance with regulations. It conducts regular assessments of campus facilities, organizes safety drills and provides training on emergency response and occupational health.



CHAPTER 3-**ADMISSION POLICY**

ADMISSION POLICY

The admissions in B.E Industrial Electronics at IIEE are offered on the basis of HSC-I / O-level / DAE. The eligibility criteria in admissions 2026 is at least 60% marks in HSC-I. The merit criteria is based upon 50% weightage of Pre-Admission Entry Test and 50% of HSC-1/ O-levels or equivalent examination Marks/ DAE. The passing marks in the entry test is 50%.

ELIGIBILITY CRITERIA FOR ADMISSIONS-2026

a. Applicant must be a Pakistani National.

b. Candidates who had passed HSC-I (Pre-Engineering/Computer Science) Examinations in the Year 2025 with at least 60% marks or those who had passed HSC (Pre-Engineering/Computer Science) or Equivalent Examinations in 2025, 2024, or 2023 with at least 60% Marks are eligible to apply.

c. Candidates appearing in A-Level or 12th Grade Examinations will be allowed to appear in Entry Test. They will be offered provisional admission based on the Marks secured in the O-Level and Entry Test.

d. HSC-II or Equivalent Foreign Examination candidates will be required to submit their final Grade Sheet /IBCC Equivalency Certificate with minimum of 60% Marks latest by 30th October, 2026.

e. Candidates who have passed Diploma of Associate Engineer (DAE) Certificate in the same/relevant field from the Provincial Board of Technical Education in the current year or year 2025, 2024, or 2023 (with at least 60% Marks) are also eligible to apply.

f. An applicant should have passed the Pre-admission Entry Test of

1. IIEE administered by NED UET at NED Karachi(main campus) and PCSIR Laboratories Complex, Lahore with a minimum of 50% marks. Or;
2. NED University of Engineering & Technology with at least 50% marks.

MERIT CRITERIA FOR ADMISSIONS-2026

Provisional admissions would be offered on the basis of merit score. The criteria for determining the merit score of candidates is outlined as:

Merit Score = 40% (HSC Part-I/O-Level marks or equivalent) + 60% weightage to the Entry Test.

Admission will be confirmed only after the candidate submits the final HSC / equivalent result showing at least 60% marks.

Marks deduction for additional attempt

For applicants who have passed their qualifying examination in 2023, 2024, or 2025 their merit positions for the purpose of admission shall be determined after deduction of 0.91% marks from the total obtained in their respective qualifying examinations. The same deduction shall apply in case of improvement (Including applicants who have taken improvement examination in the same calendar year as that of the HSC / Qualifying Examinations).

b. Appearance in more than one entry test

If an applicant clears more than one entry test (IIEE, NED) entry tests, the best score will be considered for merit

c. Additional Marks for Hafiz-e-Quran

Any applicant who is Hafiz-e-Quran and has passed IIEE/NED entry test shall have 1.82% of marks added to the HSC / equivalent marks obtained by the candidate.

As per the previous policy.

He/She shall have to provide the original Sanad of Hafiz-e-Quran from Wafaq-ul-Madaris or any other board /madrassah as recognized by the government.

The applicant shall have to appear and qualify the Hafiz-e-Quran test as notified by IIEE.

d. Tie in Merit Position

The tie in merit position shall be resolved as per the policy approved last year which is reproduced as under:

Aggregate marks obtained in Pre-Admission Entry Test shall be the criterion for resolving the merit.

Any further tie shall be resolved by considering the marks obtained in sections of Mathematics, then Physics, and then Chemistry/Computer Science of HSC or equivalent.

REJECTION OF APPLICATION FORM

The applications not fulfilling the conditions mentioned in Eligibility criteria will be rejected.
The candidates found guilty of suppression or misrepresentation of material facts at any stage shall be rejected for admission.
The Principal of the Institute shall be competent to reject any application for admission and to cancel or withdraw admission of any student without assigning any reason.

SEATS ALLOCATIONS

IIEE has total 50 and 40 number of seats available for admissions in Industrial Electronics and Computer Systems Engineering program respectively, which are distributed in four (4) main categories (given in Table) as prescribed by the Federal Ministry of Science & Technology, Government of Pakistan. The main categories are:

Category 1.0: All Pakistan Open Merit

Category 2.0: Provincial Quota

Category 3.0: PCSIR employee's Son(s)/Daughter(s) Quota;

Category	Quota	No. of Seats (IE)	No. of Seats (CSE)
1.0	All Pakistan Merit (Top 5 Candidates in overall / combined merit list)	05	04
2.1	Sindh (Urban) Domicile	07	
2.2	Sindh (Rural) Domicile	11	
2.3	Punjab Domicile	12	
2.4	Khyber Pakhtunhwa (KPK) Domiciled	03	
2.5	Balochistan Domicile	01	
2.6	A.J & K Domicile	01	
2.7	FATA/FANA (Including Gilgit-Baltistan) Domicile	01	
3.0	Reserved Seats for PCSIR Employee's Son/Daughter(s)	04	02
4.0	Reserved Seats for Self-Finance Scheme	05	04
	Total No. of Seats	50	40

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2.2	Sindh (Rural) Domicile	11	09
2.3	Punjab Domicile	12	10
2.4	Khyber Pakhtunhwa (KPK) Domicile	03	02
2.5	Balochistan Domicile	01	01
2.6	A.J & K Domicile	01	01
2.7	FATA/FANA (Including Gilgit-Baltistan) Domicile	01	01
3.0	Reserved Seats for PCSIR Employee's Son/Daughter(s)	04	02
4.0	Reserved Seats for Self-Finance Scheme	05	04
	Total No. of Seats	50	40

NOTE

The vacant Seats in any Category (Other than Category 1.0) due to non-availability of eligible candidates, shall be shifted to category 1.0. Candidate applying for admission on self-finance program must enclose Bank Draft of Rs.600,000/- (Rupees Six Hundred Thousand) In the name of IIEE Karachi, on Submission of Admission form.

PCSIR EMPLOYEE'S SON/DAUGHTER QUOTA

Four (04) seats are available for admission on PCSIR employee's Sons/ Daughters on merit basis in B.E. degree program in Industrial Electronics. The candidate for admission of PCSIR employee's Sons/ Daughters subject to fulfilling all eligibility criteria mentioned above and also;

1. Additional processing fee of Rs.1500/ - must be submitted with an application fee.
2. Student should submit one form by marking the both options regular and PCSIR employee's Sons/Daughters scheme.
3. The candidate admitted to 1st year engineering under PCSIR employee's Sons/ Daughters program shall be required to qualify medical fitness examination and payment of normaltuition fee as prescribed by the Institute.
4. All other terms & conditions will be the same.

SELF-FINANCE SCHEME

Five (05) seats are available for admission on self-finance basis in
B.E. degree program in Industrial Electronics. The candidate for admission of self-finance,

1. Candidate applying for admission on self- finance program only, the processing fee of Rs.5000/- must be submitted with an application form.
2. Candidate Applying for admission on both regular and self- finance category, the processing fee of Rs.5000/- plus Rs.1500/- must be submitted with an application form.
3. Candidate applying for admission on self-finance program must enclose Pay Order/Demand Draft of Rs.600,000/-(Rupees six hundred thousand) in the name of IIEE Karachi on submission of admission form. The selection of the candidate under self finance program shall be after passing the entrance test on merit only, to be determined on the basis of the marks obtained by the candidate in the entrance examination.
4. Candidate applied only for on self-finance scheme, they will not be considered on regular merit category.
5. The candidate applied in both the regular and self-finance categories but was not selected in the merit category after the first merit list was displayed. They will only be considered for self- financed schemes.

6. The Pay Order/ Demand Draft of a candidate once admitted under self-finance program, shall not be refunded/ returned on any account. However, the candidate who is not selected for admission, or candidate who selected on merit category in first merit category list, the amount deposited by them will be refunded after the admission for that session is declared closed by the Institute. The Pay Order of the candidate withdrawing their application before admission shall be returned on receipt of such applications duly supported by their father/ parent in person and their name shall stand deleted from the merit list.
7. The candidate admitted to 1st year engineering under self-Finance program shall be required to qualify medical fitness examination and payment of normal tuition fee as prescribed by the Institute.
8. All other terms & conditions will be the same

INSTRUCTIONS TO FILL ADMISSION FORM

1. Candidates for admission must fill their application forms either in their own handwriting (must be legible) or using a word processor.
2. Please attach one attested copy of each of the following documents:
   a. SSC Certificate & Marks Sheet or “O” level Certificate.
   b. HSC (Passed in 2025, 2024, 2023) Marks Sheet or A-Level certificates.
   c. Applicant’s CNIC/B-Form (if below 18 years in age).
   d. Parent’s/Guardian’s CNIC.
   e. Applicant’s Domicile Certificate (verified from concerned district).
   f. Applicant’s Permanent Residence Certificate (PRC) (only for applicants from Sindh Province).
   g. Equivalence Certificate from IBCC for “O” level /“A “level applicants.
   h. Applicants applying additionally on PCSIR Employee’s Son/Daughter Quot must attach PCSIR Employment Certificate of his/her parent (Mother or Father) duly issued by Director General/Director of PCSIR’s concerned unit.
3. Application form and the documents attached shall not be returned.
4. Incomplete application forms shall not be considered.
5. The application shall be rejected similarly in case the candidate is found guilty of suppression or misrepresentation of material facts.
6. The completed application form comprising the material specified above must reach the Institute either by hand or by registered post, not later than 3:00 p.m. on the last date of submission of application form notified in the press advertisement. Any application received after this date and time or found deficient in any respect will be rejected. Any certificate or matter in addition to the specified requirement shall be treated as irrelevant and discarded.

SELECTED CANDIDATES

1. Merit list of successful candidates and those on the waiting list shall be displayed on the notice board of the Institute. Merit list will also be displayed on IIEE Website.
2. Application form should be signed by both an applicant and guardian and witnessed by 17 grade gazette officer.
3. A short list of names under each quota category shall be prepared in strict order of merit.
4. Subject to availability of any vacant seats the candidates on waiting list referred in will be offered admission, after expiry of the deadline given to the selected candidate for admission.
5. Principal has a final authority to cancel any admission

PROVISIONAL ADMISSION

1. The selected candidates shall complete and submit in original the following forms, within due date:
   a. Medical Fitness Form
   b. Application form for Enrolment with NED University.
   All candidates shall also be required to submit an Affidavit of Rs 100/- on Judicial Stamp paper (matter can be downloaded from IIEE website) for the compliance and fulfilment of the requirement (In any case, the candidate shall be required to submit his/her original Mark Sheet / IBCC Equivalency Certificate with at least 60% after announcement of their respective results). Any non-compliance shall result in cancellation of provisional admissions.
2. If a candidate fails to get admission as required and does not confirm his/her consent by submitting the required fees within the specified due date, his/her seat will be declared vacant and will be filled up from the candidates on the waiting list.

REQUIRED DOCUMENTS FOR SELECTED CANDIDATES

According to the rule of the Institute the following documents of the selected candidate admitted are required.

a. HSC Marks Sheet or A-Level certificates of qualifying examination in original (to be sent to NED University for Enrolment).
b. Migration Certificate (If required as para 3.15 (f) in original (to be sent to NED University for enrolment).

c. Secondary School Certificate exam marksheet (retained by IIEE).
d. P.R.C.in original (retained by IIEE). (Only for applicants from Sindh Province).
e. H.S.C Provisional Certificate (to be sent to NED University for enrolment).
f. Domicile Certificate (verified from concerned district/DC office) in original (retained by IIEE).

The above documents shall not be made available to the student concerned, during his/her studies at IIEE. However, under exceptional cases the Photostat of the required documents retained by IIEE can be provided to the candidate on submission of his/her. application.

MEDICAL FITNESS

Candidate must be in sound physical and mental health free from any congenital malformation or defect with normal speech and hearing. The eyesight, aided or un-aided, should not be less than 6/9 in one eye and 6/12 in the other eye. The chest expansion should be less than 4 cm and X-Ray of the chest satisfactory. The limbs, including the feet and toes, should be well formed and developed with perfect and un-restricted movement of all joints. The candidate should not suffer from any remarkable skin disease or venereal disease. Final decision of the applicant fitness shall be made by the Medical Officer nominated by IIEE.

RECHECKING OF ENTRY TEST

IIEE Admission Committee cannot entertain rechecking of entry test papers. The candidates can contact their respective testing authorities and shall have to follow their policy and procedures in this regard.

EMPLOYMENT SIMULTANEOUS ENROLLMENT IN OTHER INSTITUTE

The programme leading to B.E. (IE) degree is a regular full time day programme and thus no student admitted in this Institute shall be allowed to engage himself/ herself in employment or maintain a simultaneous enrolment in other course of studies in other educational institution. Violation of above may lead to cancellation of admission.



CHAPTER 4-RULES AND REGULATIONS

IIEE adheres to a 16-week academic semester in accordance with PEC regulations. Classes at the Institute begin at 8:30 a.m. according to the timetable, which includes lab and workshop practice, and conclude at 4:00 p.m.

EVALUATION SYSTEM

GRADE	GRADE POINT	% MARKS	REMARKS
A+	4.0	94-100	Extra Ordinary
A	4.0	85-93	Excellent
A-	3.7	80-84	Very Good
B+	3.4	75-79	Very Good
B	3.0	70-74	Good
B-	2.7	67-69	Above Average
C+	2.4	64-66	Average
C	2.0	60-63	Satisfactory
C-	1.7	57-59	Adequate
D+	1.4	54-56	Pass
D	1.0	50-53	Pass
F	0.0	Below 50	Fail
P	-	50-100	Pass in non-credit course
IP	-	-	In Progress
X	-	-	Exempted
I	-	-	Incomplete
W	-	-	Withdrawl
WU	-	-	Withdrawl Unofficially

The Grade/Grade-Point are used for evaluation of student's academic performance, in semester system. Following is the Grade/Grade-Point equated with percentage of marks and other grades.
Grade point Average (CGPA) for any semester and Cumulative Grade Point (CGPA) for more than one semester shall be calculated as:

$$\text{GPA/CGPA} = \frac{\text{Sum of credit hours of each Course multiplied by grade point in that course}}{\text{Total credit hours of Course together}}$$

Distribution of marks assigned to any course shall be as under: Each theory paper, design course and final year project shall have 60% marks for final examination and 40% marks for session evaluation. However, practical shall have 40% marks for final examination and 60% marks for session evaluation.

CLASS ATTENDANCE

a. A student must have at least 75% attendance in each theory and lab class overall, so as to be eligible to appear in the respective final semester examination.
b. IIEE is a Federal Institute running under PCSIR and hence the leave pattern of provincial government is not followed.
c. Under exceptional circumstances, students may apply for leave of absence to the Principal of the Institute who may sanction such leave which will however not be acceptable as a plea for not putting in 75% of the attendance, which is a pre-requisite for being eligible to appear in the final examination of a semester.
d. The student is advised to strictly follow punctuality in both the theory and practical classes.

DEGREE AWARDING REQUIREMENTS

Any student who was admitted in first year and passed all courses during four years of study as prescribed in (with CGPA of at least 2.0 in the semester system) shall be eligible for the award of a degree in Industrial Electronic Engineering by the NED University of Engineering & Technology, Karachi.

REGULATIONS PERTAINING TO SEMESTER DURATION

The course of study leading to the B.E. (IE) degree is four academic years (8 semesters) duration. Each semester consist of 16 weeks of academic activity, i.e. 16 weeks for the classes followed by the Semester final examinations.

In these 16 weeks of academic activity there must be at least 48 hours of teaching of theory classes (for 3 credit of theory) and 16 lab sessions (for 1 credit lab).
The mode of instruction in all courses and laboratories is in English language. The instructional programs and examination system of the Institute is based on the semester system. The students are advised to study rules and regulations relating to the semester system of examination.
Practical examinations are held along with theory examinations by the Institute in courses where the lab work is the part of the curriculum.

ADMISSIONS IN SUBSEQUENT SEMESTER/YEAR OF STUDY

a. Admission in any semester shall be allowed only during the first three weeks after the commencement of classes of that semester.
b. Registration will be confirmed after payment of the semester fee.
c. In any case, the number of registered courses in any semester including all prescribed courses of a semester, should not exceed the maximum prescribed limit, of NED University of Engineering and Technology.
d. In any Semester, the student shall be allowed to register in maximum of Twenty one 21) credit hours in total.
e. In the summer session, the student shall be allowed to register in maximum of Nine (09) credit hours. Students will not be allowed to register in FYDP in summer session.
f. Any student who fails to obtain at least 2.00 CGPA in First Year Fall Semester shall remain on probation during First Year Spring Semester.
g. During the probation period such student shall be allowed to register for the regular courses as well as any backlog courses within the maximum limit defined in clause (d).
h. In any semester, the student shall ONLY be allowed to register in the course(s) of which he/she has studied/qualified for the relevant pre- requisite course (s).In any case, the maximum number of courses shall be in accordance to clause (d).
i. Final Year Design Project (FYDP) will be allowed to all such students who had completed/passed a minimum of 80% courses up to 3rd year.
j. Any such students who after being in probation have obtained less than 2.00 CGPA shall not be allowed to register in subsequent semester and will remain in Probation. He / She will be required to improve his/her CGPA up to 2.00 before being allowed to register in subsequent semester.
k. Any student having discontinued his/her studies after official permission due to any reason, shall be allowed registration in any subsequentsemester (Fall or Spring), subject to fulfillment of condition laid down in clause (h & I).

CANCELLATION OF ADMISSION

a. Admission of any such student shall be cancelled, who without information fails to register in any semester even after passing of the permissible registration duration.
b. Students who fail to register themselves with the Controller of Examinations (NED) in 1st semester examinations on any account shall have their admission automatically cancelled. No fees or charges deposited earlier by such students shall be refundable.
c. Students who do not pass all their examinations from first to final year of B.E. program within 7 academic years shall have their enrolment cancelled. They shall not be given any further chance to clear their failed subjects/examination after the expiry of the above specified period.
d. Any student who discontinues his/her studies for continuous period of one year would not be eligible to continue his/her study in that academic year and is obligated for re-admission.

ATTENDANCE RULES

a. Any candidate, who registered during the semester, will be allowed to appear only in such course(s) in which his/her attendance is at least 75% during these semester.
b. Any candidate, who registered during the semester, will be allowed to appear in all courses of the semester provided his/her aggregate attendance in all courses is at least 75% of the total of all classes held in the courses during the semester and his/her aggregate of attendance is 65% or more but less than 75% then aggregate attendance may be condoned allowing him/her to appear in all courses of the semester on case-to-case basis provided that the candidate requests condonation and produces documentary evidence justifying his/her shortage of attendance, on such grounds as for example having officially represented the university in games and/or hospitalization for sufficiently long period in any recognized hospital and his/her aggregate of attendance is less than 65% then condonation in any course(s) may be considered provided the candidate requests and produces documentary evidence justifying his/her shortage of attendance.

DISCIPLINE

a. All students of the Institute shall conform to the rules and regulations of the Institute and are under overall disciplinary control of the principal.

b. Breach of rules, misconduct, irregularity in time keeping, idleness, lack or unreasonable progress in studies, etc. will render a student liable to disciplinary Action including expel or rusticate from the Institute. In this regard, the IIEE
c. Principal is the sole and final authority.
d. Students who abstain themselves (for seven days at a stretch without notice)either from lectures or from laboratory work will not be allowed to resume their study until satisfactory explanation is submitted and accepted.
e. A student willing to leave the institute must apply in writing and the student's parent or guardian must countersign such application. Admission once cancelled shall not be restored.
f. Students are strictly forbidden from forwarding applications, appeals or any other communication direct to any authority other than the Principal of the institute and any violation of this rule shall make the student liable for disciplinary action.
g. Students may be permitted to form or carry out only such association or club as are provided under the Rules. Such association or club must be open for membership regardless of religion, community or political opinion. In no circumstances will any association, the object or membership of which is directly or indirectly sectarian or political, shall be permitted. No member of the association or club can invite any outsider in the Institute without prior permission in writing from the principal of IIEE.
h. No sectarian functions are permitted to be held by the students in the Institute.
i. Every student must carry his Institute Identity Card with him /her which is issued by the Institute.
j. Duplicate Identity Card may be issued on a written request on the prescribed form on reasonable grounds/charges.
k. Students are levied fines for the loss or damage caused due to the negligence or mishandling to any instrument or equipment or any other property of the Institute.
l. Principal's decision in all matters shall be final.
m. The following among other shall constitute acts of indiscipline for which action may be taken against the student or students:
    1. Breach of any rule of public moral, such as use of indecent or filthy language.
    2. Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolvency. Defiance of authority.
    3. False impersonation or giving false information or willful suppression of information, cheating or deceiving.
    4. Inciting or staging a walkout, a strike, or an unauthorized procession.
    5. Shouting of slogans derogatory to the prestige of the institute or the reputation of its officers or faculty.

PENALTIES

a. Principal IIEE is authorized to penalize Rs. 4,000/- against violation of each discipline, besides payment of damages, if any.
b. Maximum total penalty can be Rs.20,000/-, in case of more than one discipline violation.
c. In case of loss or damage to the books borrowed from the library of the institute, a fine of double the current market price is charged from the student. For late return of books a fine or Rs.10/- per day per book is charged.



CHAPTER 5-INDUSTRIAL LINKAGE

Industrial linkage has emerged as a common and widely acceptable diverse phenomenon in areas of education/training and research. It covers a broad spectrum including consultancy, research contracts, jointly organized conferences and exhibitions and above all awarding of final year projects. All such connections of students with an industrial sector would be highly appreciable but however, this interaction in all cases would always be channelized through the institution. Any violation of this would not be tolerable and hence would be considered as an act of misconduct.

INDUSTRIAL ADVISORY BOARD (IAB)

One remarkable milestone of an OBE cell is the formation of IAB. One member of the OBE cell is working as an IAB coordinator. After detailed working and correspondence with Industrial professionals, the IAB has been constituted with highly motivated and professionally sound members who can positively contribute towards IIEE Curriculum and Learning Process. The board has been established to provide a platform for IIEE faculty and industry interaction to:

a. Obtain professionals review on Program Educational Objectives and Curriculum of Industrial Electronics Engineering.
b. Keep track with new trends and transformational changes that are taking place, or are expected to take place, in industry.
c. Explore opportunities for joint collaboration Identify potential employers for IIEE graduates.
d. Promote institute outreach in Industrial community.

INDUSTRIAL LIASON OFFICER (ILO)

An Industrial Liaison officer is also linked with Industries and Organizations regarding student and alumni affairs. Students submit the requests to chief coordinator which are forwarded to Industrial Liaison officer who later coordinates with industries and arranges internships. Besides, he is also responsible to organize Industrial tours, seminars and recruitment tests for IIEE student.



CHAPTER 6-FEES & EXPENSES

Following is the fee structure, which is normally to be paid per Semester, (unless stated otherwise). Semester fee is required to be paid within first 15 days of the semester, otherwise candidate may not be allowed to attend the class.

TYPE OF FEES	AMOUNT IN Rs.	PAYMENTS TO BE MADE
Tuition fee	50,000	Per Semester
Admission fee(Non Refundable)	30,000	One-Time
Student Activities Fund	2500	Per Semester
Sports Fund	1,000	Per Semester
Local Study Tour Charges	2,000	Per Semester
Internet Charges	1,000	Per Semester
Student welfare Fund	2,500	One-Time
Security Deposit (Refundable)	8,000	One-Time
I.D. Card Charges	500	One-Time
Lab Coat Charges	2,500	One-Time
Verification of documents	4,000	One-Time
Enrolment Charges	5,000	One-Time
Amount to be paid at the time of Admission	Rs 109,000/-	
FEES FOR NON-REGULAR AND NON-CREDIT COURSES		
Repeater Fees (PerCourse)	4,000	As Applicable
Summer Fees (PerCourse)	8,000	As Applicable
Fees of Non-Credit Course*	5,000	As per approved Course Scheme
Issuance of Transcript	1,500	On Request
Issuance of English Proficiency Letter	500	On Request
Issuance of Hope Certificate	500	On Request

a. None of the fees is refundable under any circumstances except the Security Deposit.
b. The security deposit is against breakage and any other damage to the Institute property, instruments and tools caused by the student and is deducted from security deposit at the beginning of each semester. The balance shall be only refunded to the students if claimed within one year after the graduation and old deposit in this head is now considered as forfeited.
c. Each student will submit Pay Order in the name of "IIEE Student Fund Account" amounting of Rs.109,000 /-. The Institute does not provide any hostel facility. The student has to arrange accommodation and transport of their own.

REFUND OF FEE

1. REGULAR REFUND OF FEE

   Any student after being admitted requests for cancellation of admission shall have refund of his/her paid fee dealt as under:

   a. In case of applying for cancellation of admission and refund of fee before commencement of classes shall have all fee refunded except of admission fee.
   b. In case of applying for cancellation of admission after commencement of classes shall only have the security deposit refunded.

2. REFUND OF SELF FINANCE FEE

   Any student after being admitted under self-finance category requests for cancellation of admission shall have refund of his/her self-finance fee dealt as under:

   a. In case of applying for cancellation of admission and refund of fee before commencement of classes shall have all fee refunded except of admission fee.
   b. In case of applying for cancellation of admission after commencement of classes shall only have the security deposit refunded.

   Note: Apart from the rest of the fee paid at the time of admission will be handled according to above clause (Regular refund of fee). The Institute will refund only the security deposit if the student does not join the Institute. Admission processing fee is not refundable

3. ADMISSION WITHDRAWAL

   In any case withdrawal shall only be allowed:

   a. After successful completion of First Year Fall Semester.
   b. All dues up to the withdrawal Semester should be cleared.

4. LATE PAYMENT OF TUTION FEE

   Students who did not pay fee in time for the session, may not be allowed to appear in the respective semester examination.

EXAMINATION FEE

On announcement of the examination schedule, the students have to deposit the examination fee and fine (if any) as announced by the NED University along with examination form.

FEE EXEMPTION AWARD

The Institute has a defined fee exemption policy for meritorious and deserving students. In each semester, the top three students are granted, fee exemption based on the results of previous semester.

Note: If a position holder student withdraws from the fee exemption award, the same shifts to the next consecutive position holders. There is no fee exemption in first semester.

SCHOLARSHIPS

IIEE always welcomes scholarship awards to its diligent and needy students. However, in all means the respective requests and the grants should be channelized through the Institution. Scholarships on need cum merit basis are available from IIEE student welfare fund.



CHAPTER 7-STUDENTS' FACILITIES

The institute's main building consists of four floors, including the main library, auditorium, and administrative offices. Classrooms are designated for each year or batch and are fully furnished with multimedia facilities. Well-equipped laboratories provide hands- on skill training in an excellent working environment. In addition to the main building, the IIEE campus features a mosque and staff residential quarters.

LIBRARY & BOOK BANK

The IIEE library has a collection of more than 5600 books related to the courses of Industrial Electronics Engineering. The books are selected to help the students and the faculty in their course of study and for further enhancement of their knowledge.Additionally, the text books are issued to all the students of four years from the book bank. However, the books are required to be returned to Library at the end of the academic year. The seating capacity in the library is for 50 students. The library subscribes a number of different technical magazines and journals mainly on electronics and computer sciences. PC's facilities are available with access to national & international data-base through HEC linkage for digital library.

The library also offers book bank facility free of charges. The students are issued textbooks at the beginning of the semester for the whole duration of the semester.



HOSTEL ACCOMADATION

IIEE does not provide hostel facility to its students. However, students find and share apartments in the very neighborhood of the institute at very affordable rates. The new students who desire to live in the rented apartments may contact IIEE student branch for help and guidance.

SPORTS FACILITIES

An extra curriculum activity plays a vital role for healthy & competition environment in an institute. Every year IIEE organizes a sports week with great fervor and enthusiasm. A significant budget is allocated and both the indoor and outdoor games are organized among the students of all the four years. A playground in front as well as at the back of IIEE main building are available for student extra curriculum activities.



MEDICAL FACILITY

Medical facility is also available in IIEE for the students. The Senior Medical Officer of PCSIR, Laboratory Complex, Karachi, pays visit to the IIEE on every Wednesday of the month for routine checkup of undergraduates. IIEE Management committee unanimously approved that the Medical facility and treatment at hospital would be borne by IIEE on emergent grounds in case of any accident or injury of a student during official hours.

INTERNET FACILITY

computer & simulations laboratory comprises latest PCs and an Ethernet & Wireless based LAN provides connectivity to various labs and sections. A range of general & special purpose software are already in use. Internet and WIFI facility is available to faculty, staff and students. Currently a total bandwidth of 250 Mbps and 50 Mbps is available.



CHAPTER 8-**OUTSTANDING IIEE ALUMNI**

CELEBRATING GLOBAL IMPACT

At IIEE, our proudest legacy is the remarkable global footprint of our graduates. From the heart of Pakistan's rapidly evolving industrial sectors to top-tier technology hubs across the globe, IIEE alumni are driving innovation, pioneering automation, and leading engineering breakthroughs. They embody the rigorous technical discipline, resilience, and problem-solving mindset fostered right here on our campus. As industry executives, visionary entrepreneurs, and cutting-edge researchers, they continue to elevate our institute's name on the international stage. Explore the faces and stories of the trailblazers who started their journey here and are now transforming the world.



ENGR. DR. TAHIR HAMEED

Won research award for AY23-24 (2024) at Girard Schoolof Business. Published in the areas of Technology Innovation Management and Healthcare Analytics.

ENGR. DR. MUHAMMAD ARSALAN

Awarded by the Association of Energy Engineers (AEE) in two distinct categories in the year 2024. Innovative Energy Project of the Year (International, runner-up) 2024, Thru-tubing Retrievable Intelligent Completion System.
Awarded 2022, Regional Completions Optimization and Technology Award, by Society of Petroleum Engineers, Kingdom of Saudi Arabia.
Dr. Muhammad Arsalan was also honored to receive the king prize (Takreemwww.kingprize.sa) from custodian of the two Holy mosques, the king of Saudi Arabia for the indication related to the US Patent # US9804105B2 with co-inverter from KAUST.

ENGR. SAJJAD KHAN

Engr. Sajjad Khan joined PORSCHE in 2022, after serving the Mercedes-Benz, in June 2017, for development of new software for digital vehicle and mobility. He is now holding the position of; Vice President of Digital Vehicle & Mobility at Daimler.

ENGR. DR. KHURRAM HAMEED

Awarded Civil Award, Tamgha-e- Imtiaz by the President of Pakistan on 14th August 2022. He is also a recipient of PEC excellence award 2020.

ENGR. DR. SHERAZ KHAN

Dr. Sheraz Khan got recognition in Guinness Book of World Record in 2013 for his; "First ever Weakest Magnetic Field measurement on surface of earth at the Massachusetts Institute of Technology (MIT), USA". Obtained Assistant Professor Faculty position at Harvard Medical School in 2020.

ENGR. ISMAIL SULTAN

Recipient of Fulbright Scholarship for; Class of 2013 MS Ocean Engineering Program, from Florida Institute of Technology, USA. Recipient of Myron Zucker Design Award 2004, of IEEE USA. Now he is working as QHSSE Manager at GTI Fujairah FZC, United Arab Emirates.

ENGR. KHALIL SULTAN

Recipient of Fulbright Scholarship for Master of Engineering Management, Concentration: Energy,(GPA: 3.7/4.0), Duke University Durham, NC, USA. Recipient of Myron Zucker Design Award 2004, of IEEE USA. He is Strategy Consultant at RTI International, North Carolina, USA.

ENGR. DR. KASHIF ISHAQUE

Engr. Dr. Kashif Ishaque (IIEE Alumni) is the only research scientist from Pakistan in the field of Electrical & Electronics Engineering to be included in the global list of most cited 02% Scientist compiled by Stanford University, 2020, 2021 & 2022., his H-index is 29, 2024.

ENGR. JUNAID AHMED

Enr. Junaid Ahmed is serving at Oxford University, as a Teaching and Design Engineer at the Department of Engineering Science, Oxford since 2024.
Recipient of Fulbright Scholarship for; Master of Science in Electrical Engineering, North Carolina State University, Raleigh, NC, USA.

ENGR. DR. KHURRAM BHATTI & ENGR. KHALIL SULTAN

Dr. Khurram Bhatti and Engr. Khalil Sultan won a prestigious grant from NCGSA, Pakistan to work on Oil/chemical detection in Arabian Sea in 2021.

ENGR. DR. ZEESHAN SHAREEF

Recipient Gold Medal in IIEE 3rd Convocation on First-Class-First Position in BE Industrial m,Electron 2004-07.Recipient Gold Medal in PIEAS Convocation on securing First-Class- First-Position in MS Systems Engine (2008-2010).He got admission in PIEAS, Islamabad on MS Scholarship.
Recipient of Merit scholarship from German Government for PhD Studies. He completed PhD Mechatronics and Robotics from University of Paderborn, Germany.

ENGR. SHAHZEB KHANZADA

Although Mr. Shahzeb Khanzada graduated from IIEE, and earned BE degree in industrial electronics, he made his career in Electronic Media Journalism. Now he is working with GEO News (Jung Group) and is the anchor person of a very popular talk show; Aaj Shahzeb Khanzada Kay Sath.

CHAPTER 9-PHOTO GALLERY



Students Awarded Gold Medal in 37th IEEE Multi-Topic Symposium



Students showcasing their project at the President's House



Team IIEE receiving the First Prize at KSBL Simerge 2026



Scientists Convention at IIEE

Signing Ceremony and Inauguration of Siemens at Industrial Automation Laboratory







Group members receiving the winning prize from jury members



Mujtaba Abbas recognizing his selection in the Graduate Engineering and Management Trainee Program



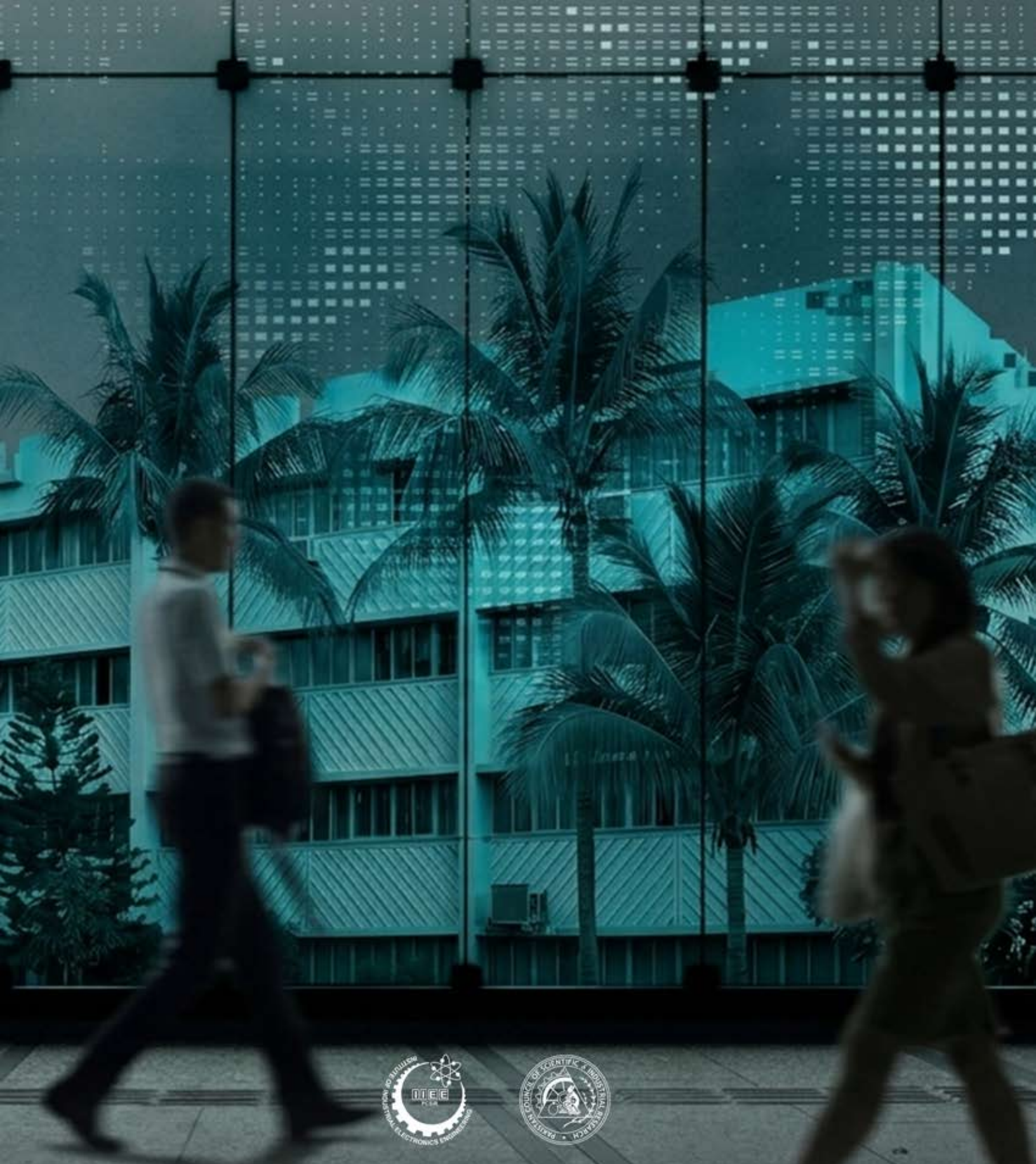
Receiving Award from an honorable President of Pakistan Dr. Arif Alvi after securing runner up position in National Idea Bank II



Final year IIEE students receiving the first-place award from the esteemed guests

This prospectus is intended for informational purposes only and does not constitute a binding commitment by the Institute.

Consequently, the Institute reserves the right to modify any part of the prospectus at any time without prior notice, as deemed necessary.



IIEE -INSTITUTE OF INDUSTRIAL ELECTRONICS ENGINEERING, KARACHI

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