INSTITUTE OF INDUSTRIAL ELECTRONICS ENGINEERING

PROSPECTUS
2024

021-99244218-20

www.iiee.edu.pk

St. 22/C Block 6, Gulshan-e-Iqbal,
University Road, Karachi, Pakistan

MESSAGE

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

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 Industrial Electronics, 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 country and nation with great zeal and conviction.

ENGR. SOHAIL AMEER MARWAT
MEMBER TECHNOLOGY, PCSIR

MESSAGE

Welcome to the Institute of Industrial Electronics 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, upgradation 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.

With an annual intake of (50) students being selected from all over the country, each student as an individual is focused to develop Integrity, respect and responsibility. Moral and ethical practices lead them to serve for the societal development of Pakistan and the world. A safe and healthy environment is created for our students to learn and succeed in future.

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

The rapid advancements in electronics and their pervasive influence on our daily lives, particularly within the industrial sectors, have created significant challenges for engineering education. Recognizing this, the Government of Pakistan has entrusted the planning and development of the institute, focused on the field of electronics, to the Ministry of Science and Technology/PCSIR.

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 programme 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.

Academic activities commenced from June 1989 with an intake of 40 students, and now batch of 50 undergraduates is being inducted in 1st Year Engineering. Graduate Engineers of IIEE are very much sought by the Industries/Organizations and those who have so far graduated are gainfully employed throughout the country and abroad.

ADMINISTRATION

PRINCIPAL Engr. Dr. Farah Haroon PhD (Telecom), Asian Institute of Tech., Thailand.	Ph. # 021-99244581 Fax # 021-99244221
P.A to Principal Syed Irfan Hussain Shah B.A University of Sindh , Jamshoro	021-99244218
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PRINCIPAL ADMIN OFFICER Syed Mukarrum Ali M. Ed	021-99244219
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INCHARGE EXAMINATION & QEC Engr. Muhammad Asghar Daudani . M.Engg. (Industrial Electronics), NEDUET, Karachi.	021-99244582
INCHARGE VISITING FACULTY, OFFICE OF INNOVATION & ENTREPRENUERSHIP Engr. Dr. Syed Saeed Jaffar . PhD (Communication System), HITEC Taxila, Pakistan.	021-99244582

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INCHARGE HEALTH AND SAFETY & COORDINATOR IAB Engr. Dr. Asif Ahmed Memon Ph.D. (Electronics), NED-UET, Karachi	021-99244582
COORDINATOR QEC Engr. Qurrat-ul-Ain M.S (Electrical Communication), PNEC, National University of Sciences & Technology (NUST), Karachi.	021-99244582
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INCHARGE ACCOUNTS Mr. Fareed Ahmed, (Accounts Officer) B.Com., M.A, University of Karachi	021-99244582
STUDENT AFFAIRS & RECORD BRANCH Mr. S.M. Qayyum	021-99244218 Ext. 102
LIBRARY ASSISTANT MS. Faiqa Khatoon M.A, KU	021-99244218 Ext. 103

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. Muhammad 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, Taxila, Pakistan. MS (Telecom), ICT, Islamabad. BS (Electronic) SSUET, Karachi.
CHIEF INSTRUCTORS BPS-18	
Engr. Dr. Sajid Hussain Assistant Professor National / International Publications; 08	Ph.D. (Electronics), NED-UET, Karachi. M. Engg. (IC & A), UIT,HU, Karachi. B.E. (Industrial Electronics), IIEE, NED-UET, Karachi.
Engr. Agha Muhammad Shakir Assistant Professor	M. Engg. (Industrial Electronics) NED-UET, Karachi. B.E (Electrical), NED-UET, Karachi.
Engr. Dr. Asif Ahmed Memon Assistant Professor 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 National / International Publications; 03	M.S (Electrical Communication), PNEC, National University of Sciences & Technology (NUST), Karachi. B.E. (Industrial Electronics), IIEE, NED-UET, Karachi.
Mr. Liaquat Ali Chief Instructor	BSc, & MAS, University of Karachi.
SENIOR INSTRUCTOR BPS-17	
Engr. M. Ghazanfar Ali Lecturer	M.S (Electrical), PNEC, National University of Science & Technology (NUST), Karachi. B.S (Electronics), SSUET, Karachi.
Engr. Ghulam Mustafa Rind Lecturer	M.S (Electronics), Dawood UET, Karachi. B.E. (Electronics), Dawood CET / NED-UET, Karachi.

NOTE: University Equivalent Designations (Associate Prof., Assistant Prof., and Lecturer) are being shown here in compliance of instructions of Pakistan Engineering Council.

LAB STAFF

Mr. Ameer Hamza Senior instructors	B. Tech, Mechanical NED-UET Karachi D.A.E (Mechanical Technology), Karachi.
Mr. Noman Network/System Administrator	PGD (Cybersecurity) , NED-UET, Karachi. BS (Software Engineering), University of Sindh

LAB SUPPORTING STAFF

Zahid Ahmed Khan	DAE (Electrical), SBTE MA (IR)
Javeria Mahjabeen	BSc (Applied Physics), University of Karachi. DAE (Instrumentation and process Control), SBTE

INFRASTRUCTURE

The main building of the Institute comprises of ground +3 floors. It houses classrooms, the library, an auditorium and administrative section. The classrooms are fully furnished and equipped with multimedia facilities. The laboratories along with mechanical bench and fabrication workshops are available to give hands-on skill training in highly conducive environment.

A computer simulations laboratory with latest PCs & Wireless based LAN provides connectivity to various labs and sections. The Institute has an Internet facility which is being further expanded to provide access to data-bases, information agencies, linkage with local/ foreign libraries and universities for resource sharing. A range of general & special purpose software are already in use.

In addition to the main building, the premises of the IIEE include a mosque with a staff colony located adjacent to it.

IIEE Academic Block

IIEE LABORATORIES

The furnished Ten (10) laboratories including mechanical bench and fabrication workshops are available to give hand on skill training in highly conducive environment.

The laboratories are:

- Applied Physics Lab.
- Basic Engineering Lab.
- Fabrication Workshop.
- Electronics Lab.
- Advance Electronics Lab.
- Industrial Electronics and Project Lab.
- Industrial Automation Lab.
- Electrical Machines Lab.
- Electronic Motor Drives and Power Electronics Lab.
- Computer and Simulation Lab with Additional Digital Library.

In mostly Labs the complete set of equipment and tools are issued to the students on yearly basis.

Industrial Automation Lab

Computer Lab

AUDITORIUM

Auditorium of the Institute is centrally air-conditioned with a sitting capacity of 250 audience. It is available for all student activities, academic seminars, conferences, convocation and other academic/nonacademic activities.

IIEE Auditorium

Session being conducted in the IIEE Auditorium

IIEE STUDENT'S PROJECT DISPLAY CENTRE

IIEE student's Project Display Center has been established at IIEE adjacent to the main building. Project display center would be utilized for the display of IIEE student's Final Year Design Projects (FYDP) to promote linkage and institute outreach among Industrial and Engineering Community.
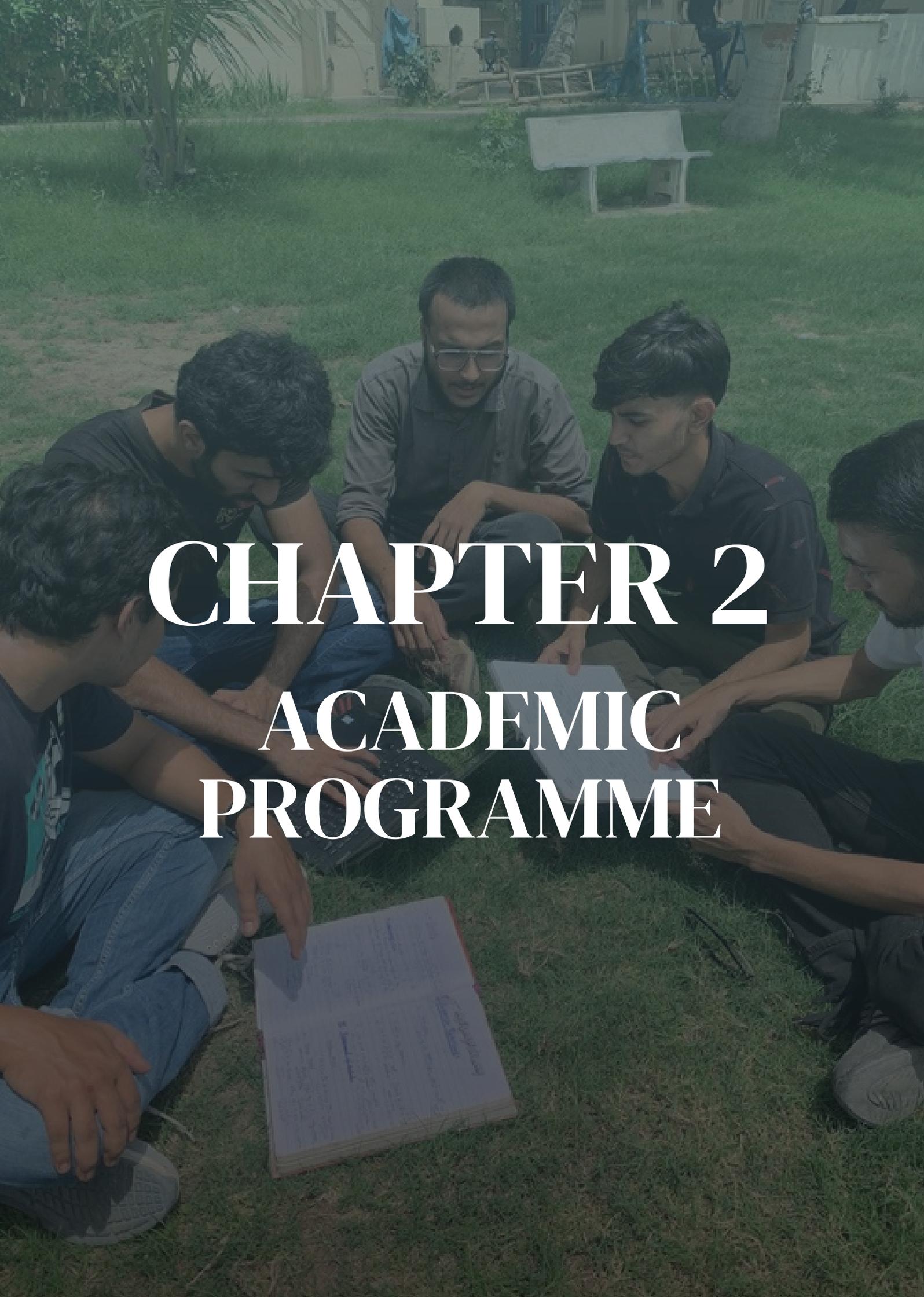

Final Year Project

Student presenting his project to Minister of Science and Technology, Mr. Khalid Maqbool Siddiqui

CHAPTER 2

ACADEMIC PROGRAMME

IIEE VISION

To produce professionals contributing towards sustainable industrial development for progressive and prosperous society.

IIEE MISSION

Prepare industrial electronic engineers to meet emerging industrial and societal needs through collaboration of industry, research and academia with professional ethics.

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 posses 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 (PEO)

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)

On successful completion of this program, students are expected to possess following twelve attributes;

PLO-1 — Engineering Knowledge

An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PLO-2 — Problem Analysis

An ability to identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

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.

PLO-4 — Investigation

An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.

PLO-5 — Modern Tool Usage

An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering activities, with an understanding of the limitations.

PLO-6 — The Engineer and Society

An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.

PLO-7 — Environment and Sustainability

An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

PLO-8 — Ethics

Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PLO-9 — Individual and Team Work

An ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.

PLO-10 — Communication

An ability to communicate effectively, orally as well as in writing, 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, make effective presentations, and give and receive clear instructions.

PLO-11 — Project Management

An ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.

PLO-12 — Lifelong Learning

An ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

COURSE SCHEME

Following is the course scheme for the bachelors of engineering (B.E) in Industrial Electronics.

FIRST YEAR OF ENGINEERING

Fall Semester					Spring Semester				
Course. Code	Course Title	Credit Hours			Course. Code	Course Title	Credit Hours		
		T	L	Total			T	L	Total
HS115	Functional English	2	0	2	HS121	Communication Skills	3	0	3
MS111	Calculus and Analytical Geometry	3	0	3	HS122 HS123	Islamic Studies (Muslims) Ethical Behaviour (Non-Muslims)	2	0	2
MS114	Applied Physics	3	1	4	MS121	Differential Equations	3	0	3
IE114	Engineering Drawing	0	1	1	IE121	Basic Electronics	3	1	4
IE115	Engineering Materials & Workshop	1	1	2	IE122	Fabrication Workshop	0	1	1
IE116	Linear Circuit Analysis	3	1	4	IE125	Computer Programming	3	1	4
IE117	Introduction to Computing	1	1	2					
.	Total	13	5	18	.	Total	14	3	17

SECOND YEAR OF ENGINEERING

Fall Semester					Spring Semester				
Course. Code	Course Title	Credit Hours			Course. Code	Course Title	Credit Hours		
		T	L	Total			T	L	Total
HS231	Pakistan Studies..	2	0	2	MS241	Linear Algebra	3	0	3
MS231	Complex Variables & Transforms	3	0	3	IE245	Digital Logic Design	3	1	4
IE234	PCB Manufacturing	1	1	2	IE246	Instrumentation & Measurements	3	1	4
IE235	Electronic Circuit Design	3	1	4	IE247	Basic Mechanical Engineering	2	0	2
IE231	Electromagnetic Field Theory	2	0	2	IE248	Electrical Network Analysis	3	1	4
IE357	Electrical Machines	3	1	4	HS200	Community Service	-	-	NC
.	Total	14	3	17	.	Total	14	3	17

Institute of Industrial Electronics Engineering

THIRD YEAR OF ENGINEERING

Fall Semester

Course. Code	Course Title	Credit Hours		
		T	L	Total
HS351	Technical Report Writing and Professional Skills	2	0	2
HS352	Integrated Circuits	3	1	4
IE358	Microprocessors and Microcontrollers	3	1	4
IE356	Signals & Systems	3	1	4
IE362	Power Electronics	3	1	4
.	Total	14	4	18

Spring Semester

Course. Code	Course Title	Credit Hours		
		T	L	Total
MS361	Probability & Statistics	3	0	3
IE361	Feedback Control Systems	3	1	4
IE364	Embedded Systems	2	1	3
IE484	Communication Systems	3	1	4
IE471	Digital Signal Processing	3	1	4
HSXXX	Foreign Language I			NC
.	Total	14	4	18

FOURTH YEAR OF ENGINEERING

Fall Semester

Course. Code	Course Title	Credit Hours		
		T	L	Total
MS484	Entrepreneurship	2	0	2
IE475	Artificial Intelligence	3	1	4
EL47X	Elective I (Engineering)	3	1	4
IE473	Industrial Process Control	2	1	3
IE485	Final Year Design Project	0	3	3
HSXXX	Foreign Language II	-	-	NC
.	Total	10	6	16

Spring Semester

Course. Code	Course Title	Credit Hours		
		T	L	Total
MS471	Numerical Methods	3	0	3
MS483	Engineering Economics & Management	3	0	3
EL48X	Elective II (Non Engineering)	3	0	3
IE483	Industrial Instrumentation Systems	2	1	3
IE485	Final Year Design Project	0	3	3
.	Total	11	4	15

GRAND TOTAL:= 136 Credit Hours

Elective I (Engineering)

EL471 Electronic Motor Drives (3+1)
EL472 Digital System Design (3+1)
EL473 Digital Control Systems (3+1)
EL474 Robotics (3+1)

Elective II (Non- Engineering)

EL481 Organizational Behavior (3+0)
EL482 Professional Ethics (3+0)
EL483 Sociology for Engineers (3+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. By fostering a culture of quality and accountability, the QEC contributes to the overall development and excellence of the institute.

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. With a focus on enhancing student life, the Students' Branch Office is committed to fostering a supportive and engaging campus environment.

# 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. By encouraging collaboration and practical application of knowledge, the Office of Innovation and Entrepreneurship empowers students to pursue entrepreneurial ventures and contribute to the technological advancement of society.

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.
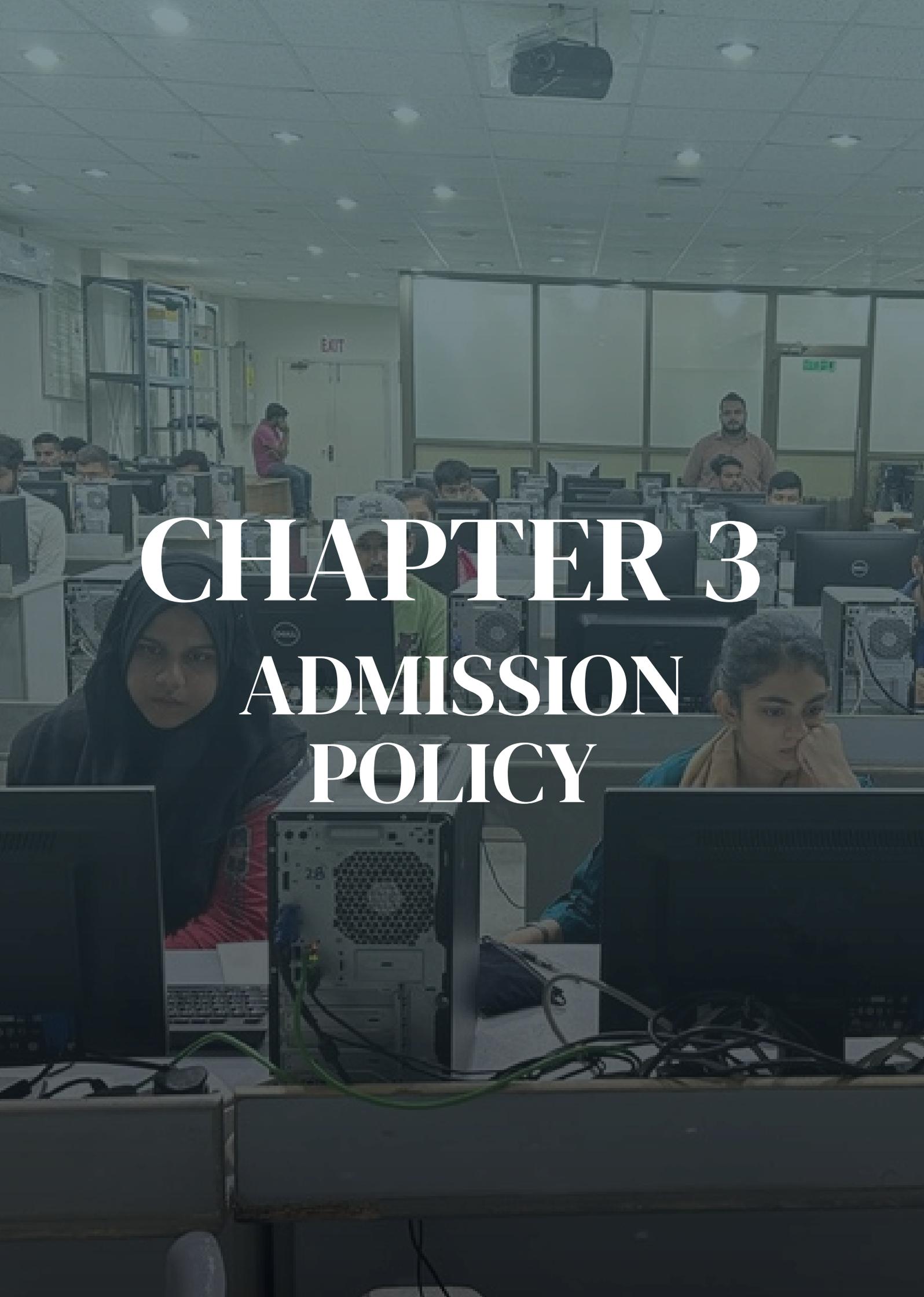
CHAPTER 3
ADMISSION POLICY

ADMISSION POLICY

The admissions in B.E Industrial Electronics at IIEE are offered on the basis of HSC-I / O-level / DAE due to the delay of the HSC-II result announcement. It helped in completion of admission process on time and pulling back the academic calendar.

The eligibility criteria in admissions 2024 is aligned with NED-UET admission eligibility criteria approved in recent academic council meeting. 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 also maintained at 50%.

The applicants of IIEE from other cities are however, facing problems in appearance in the entry test being organized only in Karachi. Therefore, in IIEE admissions 2024, the provision of conduction of pre-entry test in Lahore administered by NED UET is included.

Admissions at IIEE are extended nationwide, determined by the quotas specified by the Government of Pakistan.

The eligibility and merit criteria are mentioned as

ELIGIBILITY CRITERIA FOR ADMISSIONS-2024

- Applicant should be Pakistani National.
- Candidates who had passed HSC-I(Pre-Engineering/Computer Science) examinations in the Year 2023 with at least 55% marks or those who had passed HSC (Pre-Engineering/Computer Science) or Equivalent Examinations in 2023, 2022, or 2021 with at least 60% Marks are eligible to apply.
- 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. They need to submit IBCC equivalency certificate for admission. A-level or 12th grade candidates will be required to submit their grade sheet by October 2024 and with IBCC equivalent certificate latest by Mid-January 2025 (They must secure 60% marks as per the IBCC equivalency)
- 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 2023, 2022, or 2021 (with at least 60% Marks) are also eligible to apply.
- Any applicant who has passed HSC with subjects of Mathematics, Physics, and Computer Science shall be considered for admission without having study any additional course.
- An applicant should have passed the Pre-admission Entry Test of
  - IIEE administered by NED UET at NED Karachi (main campus) or PCSIR Laboratories Complex, Lahore with a minimum of 50% marks. or;
  - NED University of Engineering & Technology with at least 50% marks.

MERIT CRITERIA FOR ADMISSIONS 2024

Provisional admission in Industrial Electronics Engineering is to be offered based on the marks secured by the individuals in HSC/HSC-I /Equivalent Examination (with Mathematics, Physics and Chemistry/Computer Science)/DAE and Pre-Admission Entry Test with an equal weightage of 50% each.

However, for securing Admission in Industrial Electronics Engineering, at least 60% Marks in HSC or Equivalent Examinations are required.

1   Marks Deduction for additional attempt

For applicants who have passed their qualifying examination in 2021, 2022 or in 2023 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).

2   Appearance in more than one entry test

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

3   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. He /She shall have to provide the original Sanad of Hafiz-e-Quran from Wafaq-ul-Madaris and be prepared to appear and qualify in a Hafiz-e-Quran test as notified by the IIEE.

4	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.

Note: The admission will be confirmed only after the candidate submits his/her final marks with a minimum of 60%.

REJECTION OF APPLICATION FORM

1. The applications not fulfilling the conditions mentioned in Eligibility criteria will be rejected.
2. The candidates found guilty of suppression or misrepresentation of material facts at any stage shall be rejected for admission.
3. 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 number of seats available for admissions, 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 4.0:   Self-Finance Scheme

CATEGORY	QUOTA DEFINITIONS	NO. OF SEATS
1.0	All Pakistan Merit (Top five candidates in overall / combined merit list.)	05
2.1	Sindh (Urban) Domiciled	07
2.2	Sindh (Rural) Domiciled	11
2.3	Punjab Domiciled	12
2.4	Khyber Pakhtunkhwa (KPK) Domiciled	03
2.5	Balochistan Domiciled	01
2.6	A. J. & K. Domiciled	01
2.7	FATA/FANA (including Gilgit-Baltistan) Domiciled	01
3.0	Reserved Seats for PCSIR employee's Son(s)/Daughter(s)	04
4.0	Reserved Seats for Self-Finance Scheme	05
	Total No. of Seats	50

Note: The vacant seats in any Category (other than Category 1.0) due to non-availability of eligible candidates, shall be shifted to the 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.1000/ - 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 normal tuition 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, subject to fulfilling all eligibility criteria mentioned above and also;

1. Candidate Applying for admission on self- finance program only, the processing fee of Rs.4000/- must be submitted with an application form.

2. Candidate Applying for admission on both regular and self-finance category, the processing fee of Rs.4000/- plus Rs.1000/- 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:

- SSC Certificate & Marks Sheet or "O" level Certificate.
- HSC (Passed in 2023, 2022, 2021) Marks Sheet or A-Level certificates.
- Applicant's CNIC / B Form (if below 18 years in age).
- Parent's/Guardian's CNIC.
- Applicant's Domicile Certificate (verified from concerned district).
- Applicant's Permanent Residence Certificate (PRC) (only for applicants from Sindh Province).
- Equivalence Certificate from IBCC for "O" level / "A" level applicants.
- Applicants applying additionally on PCSIR Employee's Son/Daughter Quota 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

- 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.
- Application form should be signed by both an applicant and guardian and witnessed by 17 grade gazetted officer.
- A short list of names under each quota category shall be prepared in strict order of merit.
- 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.
- 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.

- Medical Fitness Form.
- 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.

- HSC Marks Sheet or A-Level certificates of qualifying examination in original (to be sent to NED University for Enrolment).
- Migration Certificate (If required as para 3.15 (f) in original (to be sent to NED University for enrolment).
- Secondary School Certificate exam mark sheet (retained by IIEE).
- P.R.C. in original (retained by IIEE). (Only for applicants from Sindh Province).
- H.S.C Provisional Certificate (to be sent to NED University for enrolment).
- 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

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

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	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	---	---	Withdrawal
WU	---	---	Withdrawal Unofficially

Grade Point Average (GPA) for any semester and Cumulative Grade Point (CGPA) for more than one semester shall be calculated as:

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

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 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.
- IIEE is a Federal Institute running under PCSIR and hence the leave pattern of Provincial government is not followed.
- 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.
- 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).

(g) 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).

(h) 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.

(i) 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.

(j) Any student having discontinued his/her studies after official permission due to any reason, shall be allowed registration in any subsequent semester (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 the 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.

(c) 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.

(d) 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.

Prospectus 2024

DISCIPLINE

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

- 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 Principal is the sole and final authority.

- 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.

- 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.

- 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.

- 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.

- No sectarian functions are permitted to be held by the students in the Institute.

- Every student must carry his Institute Identity Card with him /her which is issued by the Institute.

- Duplicate Identity Card may be issued on a written request on the prescribed form on reasonable grounds/charges.

- 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.

- Principal's decision in all matters shall be final.

- The following among other shall constitute acts of indiscipline for which action may be taken against the student or students.
  - Breach of any rule of public moral, such as use of indecent or filthy language.
  - Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolvency.
  - Defiance of authority.
  - False impersonation or giving false information or willful suppression of information, cheating or deceiving.
  - Inciting or staging a walkout, a strike, or an unauthorized procession.
  - Shouting of slogans derogatory to the prestige of the institute or the reputation of its officers or faculty.

PENALTIES

- Principal IIEE is authorized to penalize Rs. 4,000/- against violation of each discipline, besides payment of damages, if any.
- Maximum total penalty can be Rs.20,000/-, in case of more than one discipline violation.
- 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.
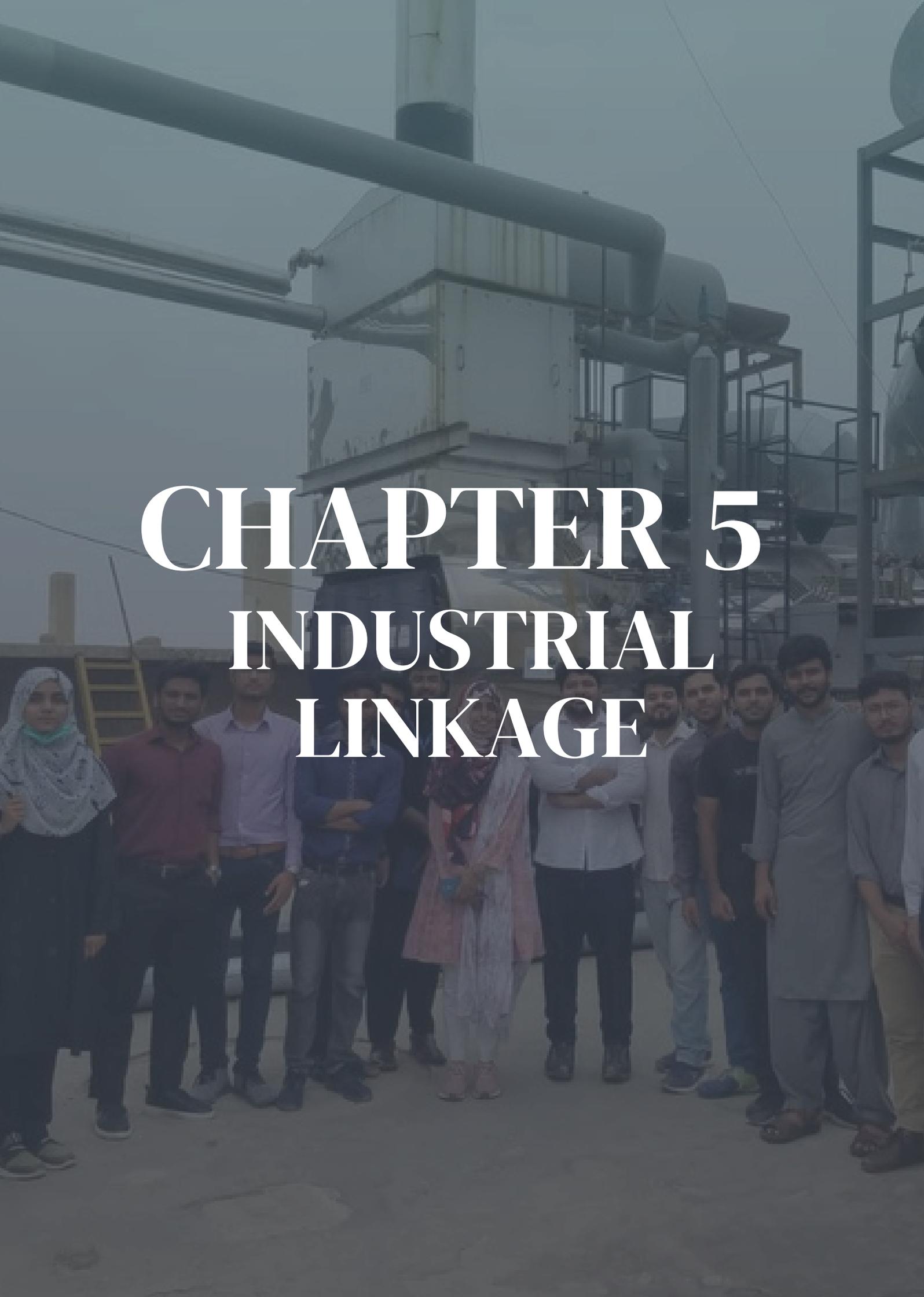
CHAPTER 5
INDUSTRIAL LINKAGE

INDUSTRIAL LINKAGE

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.

Students from batch 2019 visited Ebrahim Textile Pv. Ltd.

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:

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

INDUSTRIAL PROJECTS

- Four Industrial project has been assigned to batch 2020 by
  i. Target Oil Industries Pakistan Limited.
  ii. Pakitex Boards (Pvt) Ltd.
  iii. Afroze Textile.
  iv. Atlas Autos.

- Four Industrial Project from Textilfort (Private) Limited, Laboratory Complex, PCSIR, Atlas GCI, Karachi, and Continental Scientific Syndicate, Karachi have been assigned to the students of IIEE for the Batch-2019

- One Industrial research project has been assigned by Continental Scientific Syndicate to the Faculty of IIEE.

- Four Industrial Project from Peoples Steel Mills Limited, Karachi, Watsun Engineering Solutions, Allied Cables, Spade Innovations Karachi have been assigned to the students of IIEE for the Batch-2018

- Industrial Project from Peoples Steel Mills Limited, Karachi titled as "Automation & Control of Natural Gas Fired Annealing Furnace".

- Two FYDP project from research organization SUPARCO tilted as "IoT based Crop Monitoring and Analysis" and "Robotic Manipulation Through Reinforcement Learning in ROS"

- Two FYDP project from research organization SUPARCO tilted as "IoT based Crop Monitoring and Analysis" and "Robotic Manipulation Through Reinforcement Learning in ROS"

CHAPTER 6
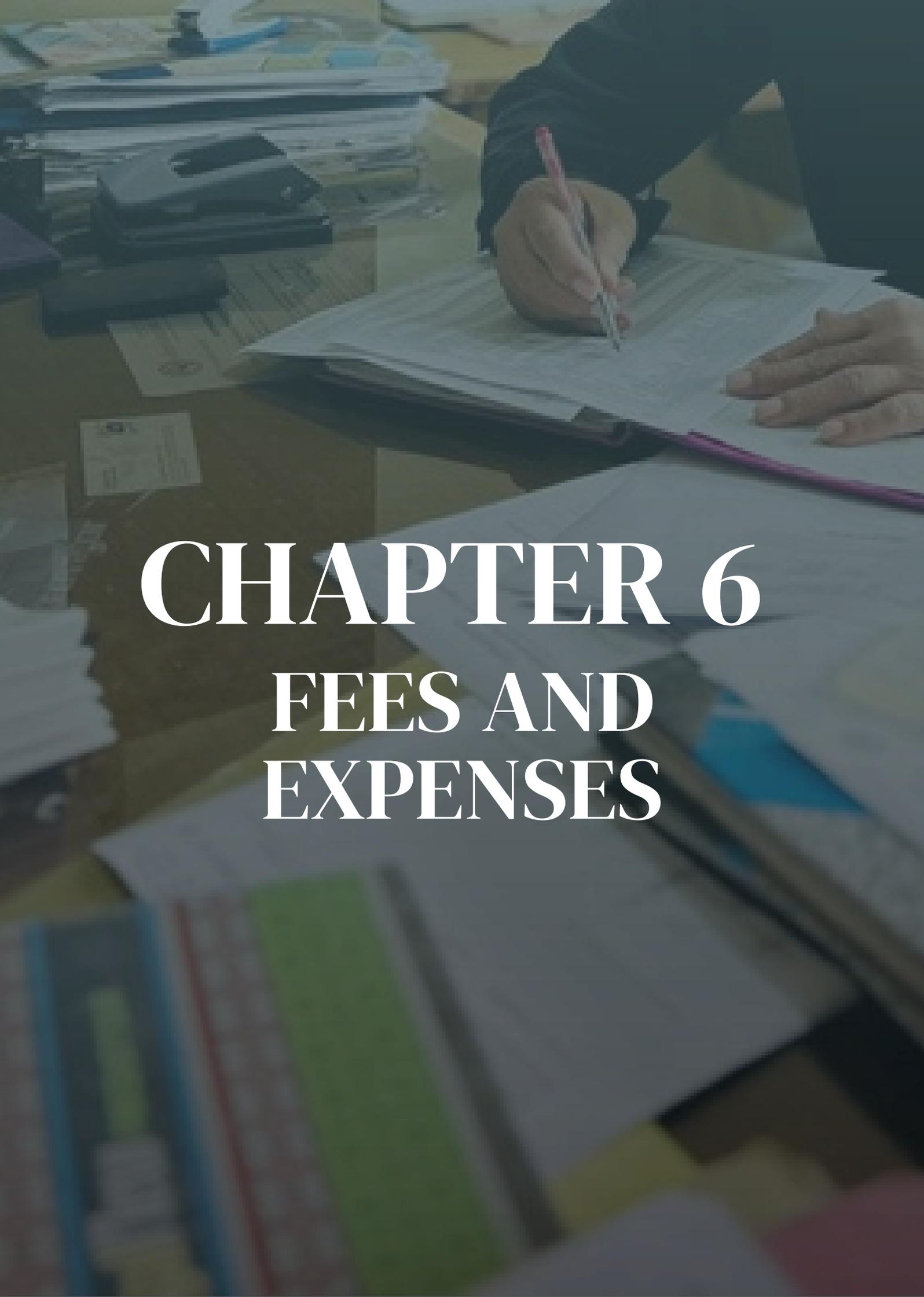
FEES AND EXPENSES

FEE STRUCTURE

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
Tuition fee	40,000	Per Semester.
Admission fee(Non Refundable)	15,000	Only Once
Student Activities Fund	2000	Per Semester.
Sports Fund	500	Per Semester.
Local Study Tour Charges	1000	Per Semester.
Internet Charges	1500	Per Semester.
Student welfare Fund	2000	Only Once
Security Deposit (Refundable)	5000	Only once
I.D. Card Charges	500	Only Once
Lab Coat Charges	2000	Only Once
Verification of documents	(4000) As per NED	Only Once
Enrolment Charges	(5000) As per NED	Only Once
Amount to be paid at the time of Admission:	Rs. 78,500/-	

(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.78500 /=. The Institute does not provide any hostel facility. The student has to arrange accommodation and transport of their own.

REFUND OF FEE

The Institute will refund fees as mentioned.

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:

- 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.
- In case of applying for cancellation of admission after commencement of classes shall only have the security deposit refunded.

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:

- 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.
- 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.

ADMISSION WITHDRAWAL

In any case withdrawal shall only be allowed
- After successful completion of First Year Fall Semester.
- All dues up to the withdrawal Semester should be cleared.

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.
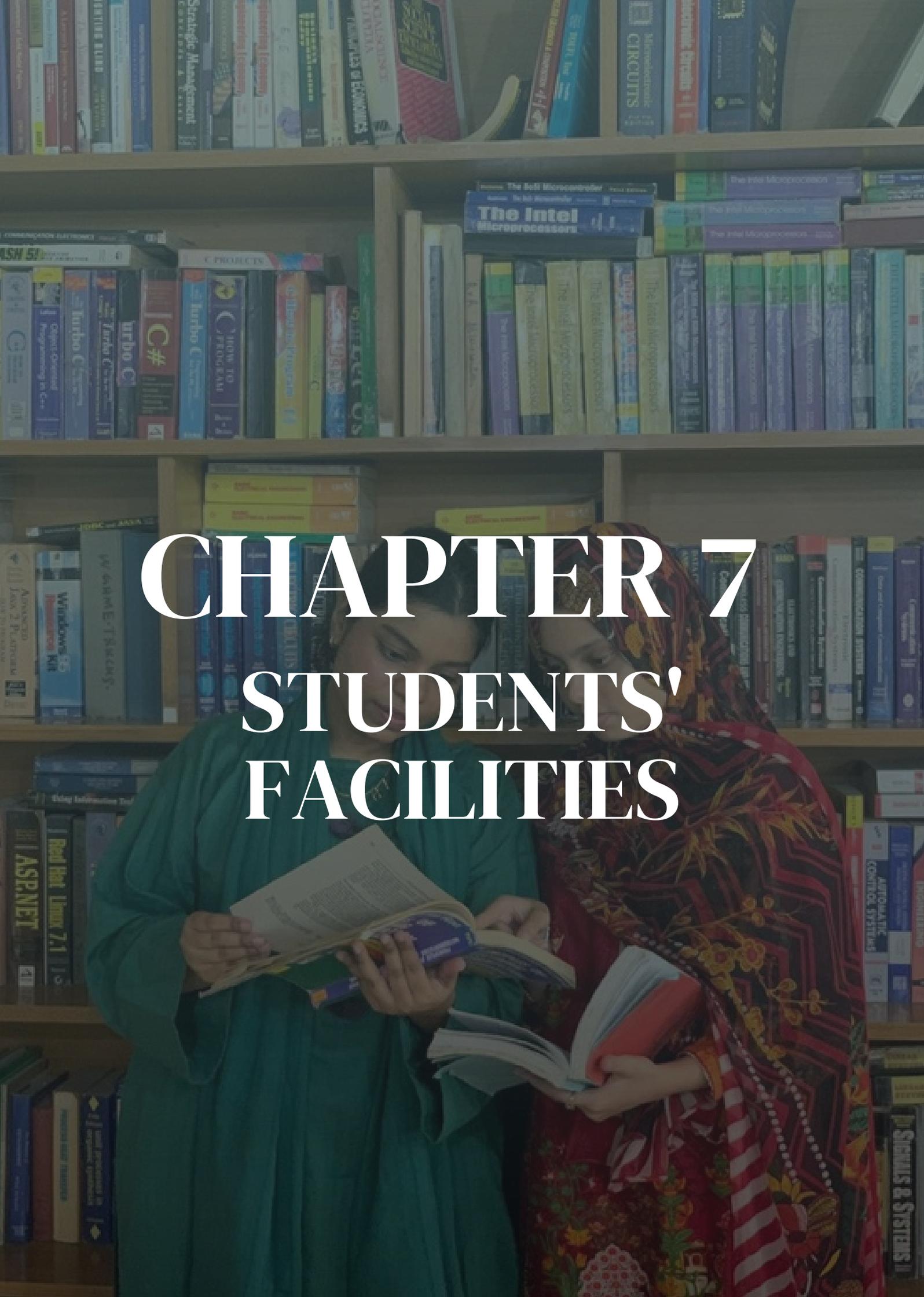
CHAPTER 7

STUDENTS' FACILITIES

ACADEMIC BUILDING

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 5000 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

A 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 B.W of 50 Mbps is available.

CAFETERIA

Keeping in view the demand of Students, new management has established a working cafeteria with in Institute premises.

CHAPTER 8
OUTSTANDING IIEE ALUMNI

ENGR. DR. TAHIR HAMEED

- Honored to receive this outstanding research award for AY23-24 (2024) at Girard School of Business. I have published in the areas of Technology Innovation Management and Healthcare Analytics.

ENGR. DR. MUHAMMAD ARSALAN

- Dr. Muhammad Arsalan has been 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.
- Dr. Muhammad Arsalan has been recognized by Global Energy Show Awards in two distinct categories in the year 2024.
  - The first recognition is for the Emerging Leader award, which acknowledges exceptional contributions exceeding typical job responsibilities.
  - The second nomination is for the Disruptive Digital Innovator award, recognizing collaborative development of the Hybrid Laser Interrogator with KAUST.
- Dr. Muhammad Arsalan has been awarded Oil & Gas Middle East Awards 2024 in two categories.
- High Commendation for the Hybrid DAS-DTS laser interrogator 2023.
- Dr. Muhammad Arsalan has been 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 (Takreem-www.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. This is the highest honor an inverter can receive in the Kingdom.
- Muhammad Arsalan was honored as best PhD student researcher award for devising embedded micro-antenna From Ottawa Centre for Research and Innovation.

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

- Dr. Khurram Hameed has been 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.
- It should be noted that earlier Engr. Dr. Kashif Ishaq was ranked first in the Directory of Productive Scientists of Pakistan during 2017 by Pakistan Council of Science & Technology (PCSIR).

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

- He is now serving 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 Electron 2004-07.
- Recipient Gold Medal in PIEAS Convocation on securing First-Class-First-Position in MS Systems Engin (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.
- Postdoc from University of Bielefeld (Germany) in area of Robotics and Machine Learning, and Pod from Technical University of Braunschweig (Germany) in area of Robotics and Machine Learning.
- Currently working as System Developer and Machine Learning Expert in Robert Bosch GmbH.

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

STUDENT'S ACHIEVEMENTS

Students receiving award at the NIB Exhibition from the President of Pakistan in Feb. 2024

Students Receiving Appreciation Shield at Teknofest

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

Students showcasing their project at the President's House

Student Won Pitching and Logo Competition at TEKNOFEST 2023

Students receiving award at the NIB event

Students at the 38th IEEEP All Pakistan Students 'Seminar 2023

SCIENTISTS CONVENTION AT IIEE

SPORTS WEEK 2024

STUDENTS' ACTIVITIES

Mental Health Day for Women

Optimistic Future, Event arranged by IEEE Women Branch

Bootcamp vibes

Embracing the Sprit of Entrepreneurship

COMMUNITY SERVICE

Students at Markaz e Umeed, Centre for Special Children

Students distributing gifts at Markaz e Umeed, Centre for Special Children

Students spending time with the elderly at Edhi Old Home

Students at Edhi Old Home

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