7 AFFORDABLE AND CLEAN ENERGY

Dawood UET directly supports **Affordable and Clean Energy** by fostering sustainable transport innovation through the development of **a cutting-edge electric bicycle** by a student from **the Electronics Department.** This **e-bike features a 60 km range on a single charge and a self-recharging mechanism,** securing second place at the Karachi University Science Exhibition.

ACHIEVEMENTS

DUET STUDENT DEVELOPS E-BICYCLE

Zahid Ali from the Electronics Department, Dawood University of Engineering and Technology, Batch 21F, for his outstanding innovation in developing a cutting-edge electric bicycle. The modern design of his e-bike boasts a range of 60 km on a single charge and features a unique self-recharging mechanism powered by pedaling. Zahid's exceptional project secured second place at the Karachi University Science Exhibition, showcasing the remarkable research and development -potential of our students. This achievement reflects DUET's commitment to fostering creativity and advancing sustainable solutions through research and innovation.

8 DECENT WORK AND ECONOMIC GROWTH

Dawood UET strongly contributes to **Decent Work and Economic Growth** by successfully linking education with employment. The university's strategy focuses on Lifelong Learning, Entrepreneurship, and Industry Placements, implementing:

- **Mandatory Internships and Recruitment:** Conducting over 36 on-campus recruitment drives and making internship training compulsory.
- **Industry Placement:** Hosting major recruitment drives by companies such as Engro Corporation, Descon (awarding "Golden Tickets" to 11 students), Geeks of Kolachi, Lucky-One Mall/Younus Brother Groups, Electro Polymers, EPRF/PMTF/PSM, and AGI Denim.
- **Practical Exposure:** Facilitating industry visits (e.g., to UEP Naimat Field), hosting "Meet and Greet" sessions with Engro Fertilizers, and showcasing student projects at FFBL to demonstrate practical skills.

INDUSTRY-ACADEMIA LINKAGES

ENGRO CORPORATION'S RECRUITMENT DRIVE & MOTIVATIONAL TALK AT DUET

The Directorate of Industrial Liaison and Placement Bureau (DILPB)successfully organized a recruitment drive for Engro Corporation's Graduate Trainee Engineer (GTE) program on February 26, 2025. This event targeted the graduating batch of 2021, providing them with a valuable opportunity to interact with industry professionals and explore potential career paths within Engro Corporation. The drive offered graduating students a platform to showcase their skills, learn about Engro's operations, and understand the requirements of the GTE program. The event was graced by the presence of Mr. Abdul Qayoom Shaikh, CEO of Engro Chemicals & Polymers, who provided invaluable insights and motivation to the students. His participation underscored Engro's dedication to nurturing young engineers. The Honorable Vice Chancellor, Prof. Dr. Samreen Hussain, played a crucial role in the success of the drive. Her visionary leadership and unwavering support were instrumental in facilitating this collaboration. The Directorate of Industrial Liaison and Placement Bureau (DILPB), under the leadership of Dr. Muhammad Dawood Idrees (Director) and Syed Ahmer Raza Shah (Assistant Director), effectively managed and executed the recruitment drive, ensuring a seamless and productive experience for both students and Engro representatives.

INDUSTRY-ACADEMIA LINKAGES

DESCON RECRUITMENT DRIVE AT DUET

Descon recently conducted a highly successful recruitment drive at Dawood University of Engineering & Technology (DUET), specifically targeting the graduating batch of 2021. The event was marked by enthusiastic student participation and a dynamic, interactive session. A total of 120 students actively participated in the recruitment drive, applying for Descon's prestigious Graduate Training Program (GTP). The session provided students with valuable insights into the company and the opportunities available to them. A highlight of the event was an engaging activity that culminated in the awarding of "Golden Tickets" to the winning team of 11 students. This achievement grants them direct entry into Descon's initial recruitment phase, a significant step towards their professional careers. We extend our warmest congratulations to these exceptional students. DUET expresses its sincere gratitude to the Descon team for their time and effort in conducting this informative and engaging recruitment drive. Their commitment to sharing valuable insights with our students is highly appreciated. We also extend our thanks to Dr. Faraz Ahmed Shaikh, Director of the Quality Enhancement Cell (QEC-DUET), for his participation and valuable contributions to the session. Above all, we are immensely grateful to our Honorable Vice Chancellor, Prof. Dr. Samreen Hussain (T.I.), for her unwavering support and encouragement. Her visionary leadership and dedication to fostering strong industry-academia linkages have been instrumental in providing DUET graduates with exceptional career opportunities. The recruitment drive was meticulously organized by the Directorate of Industrial Liaison and Placement Bureau (DILPB), Under the direction of Dr. Muhammad Dawood Idrees, Director of DILPB, and Syed Ahmer Raza Shah, Assistant Director, in collaboration with the respective academic departments. Their collaborative efforts ensured a smooth and successful event.

INDUSTRY-ACADEMIA LINKAGES

GEEKS OF KOLACHI RECRUITMENT DRIVE AT DUET

On September 4th, 2024, Geeks of Kolachi(GoK) successfully conducted a recruitment drive at Dawood University of Engineering and Technology (DUET)for the graduates and graduating students of Computer Systems Engineering (CSE) and Computer Science (BSCS) from the Batch 2019F and 2020. A total of 43 candidates participated in the recruitment test, with successful candidates advancing to the interview stage. This initiative provided an excellent opportunity for DUET students to explore promising career paths in the tech industry. We extend our sincere gratitude to the GoK representatives for their time and effort in organizing the on-campus recruitment event. Their commitment has opened valuable career opportunities for our students. The recruitment drive was organized by the Directorate of Industrial Liaison and Alumni Affairs (DILAA- DUET), in collaboration with the Departments of Computer Systems Engineering and Computer Science.

INDUSTRY-ACADEMIA LINKAGES

LUCKY-ONE MALL & YOUNUS BROTHER GROUPS RECRUITMENT DRIVE AT DUET

Dawood University of Engineering & Technology (DUET) successfully hosted an oncampus recruitment drive by Lucky-One Mall and its parent company, Younus Brother Groups (YBG), on November 29, 2024. This initiative, aimed at the graduating batches of 2019F and 2020F, focused on the Graduate Trainee Engineer (GTE) program and facilitated direct interaction between students and industry leaders.

The recruitment drive witnessed enthusiastic participation from 33 students across diverse engineering disciplines, including Electronics Engineering, Energy & Environmental Engineering, Computer Science, Computer Systems Engineering, and Telecommunication Engineering. Students engaged in on-campus interviews, demonstrating their skills and potential to representatives from Lucky-One Mall, Gadoon Textile, Lucky Energies, and other YBG subsidiaries. Notably, a significant number of students have been shortlisted for subsequent interview rounds, showcasing the caliber of DUET graduates. The event underscored the importance of strong industry-academia linkages in preparing students for successful careers. The presence of Lucky-One Mall and YBG representatives provided students with invaluable professional insights and a direct pathway to potential employment opportunities. The success of this recruitment drive is a testament to the visionary leadership of our Honorable Vice Chancellor, Prof. Dr. Samreen Hussain (T.I.). Her unwavering support for fostering industry partnerships and enhancing student employability has been instrumental in creating such valuable opportunities. We extend our sincere gratitude for her dedication to empowering DUET graduates. The recruitment drive was meticulously organized by the Directorate of Industrial Liaison and Placement Bureau (DILPB), under the direction of Dr. Muhammad Dawood Idrees, Director of DILPB, and Syed Ahmer Raza Shah, Assistant Director, in collaboration with the respective academic departments. Their collaborative efforts ensured a smooth and successful event.

INDUSTRY-ACADEMIA LINKAGES

ENGRO FERTILIZERS LTD. SESSION ON "MEET AND GREET" AT DUET

Engro Fertilizers Ltd. recently conducted a highly beneficial "Meet and Greet" session at Dawood University of Engineering & Technology (DUET), providing focused groups of students with direct interaction and invaluable insights from industry leaders. This initiative served as a crucial platform for students to gain a deeper understanding of the professional world. Engro Fertilizers hosted three distinct sessions, each meticulously tailored to address the specific needs and interests of targeted student groups. These sessions covered a comprehensive range of topics, including:

- Industry Perspectives: Providing students with a clear understanding of current industry trends, challenges, and emerging opportunities.
- Industry Expectations: Outlining the key skills, professional attributes, and expectations that companies like Engro seek in fresh graduates.
- Student Perspectives: Encouraging open dialogue and fostering a two-way exchange of ideas, allowing students to share their concerns and aspirations.
- Path to Success: Offering practical advice and guidance from experienced professionals on navigating career paths and achieving professional success.

The "Meet and Greet" sessions proved to be highly impactful, effectively bridging the gap between theoretical knowledge and practical industry experience. DUET expresses its sincere gratitude to Engro Fertilizers for their commitment to engaging with our students and providing them with such valuable learning opportunities. The success of this initiative is a testament to the visionary leadership of our Honourable Vice Chancellor, Prof. Dr. Samreen Hussain (T.I.). Her unwavering support for fostering strong industry-academia collaborations has been instrumental in creating opportunities like this for DUET students. Her guidance continues to empower students to excel in their professional journeys. This event was successfully organized by the Directorate of Industrial Liaison and Alumni Affairs (DILAA-DUET), under the direction of Dr. Muhammad Dawood Idrees, Director DILAA, and Syed Ahmer Raza Shah, Assistant Director. Their dedication and meticulous planning ensured a productive and insightful experience for all participants. DUET remains committed to fostering strong industry partnerships and providing students with opportunities to gain practical experience and professional insights. This "Meet and Greet" session with Engro Fertilizers Ltd. exemplifies our dedication to empowering students and preparing them for successful careers.

INDUSTRY-ACADEMIA LINKAGES

ELECTRO POLYMERS PVT. LTD.
RECRUITMENT DRIVE, AT DUET

Electro Polymers Pvt. Ltd. recently conducted a highly successful recruitment drive at Dawood University of Engineering & Technology (DUET), offering valuable opportunities to the graduating batches of 2019F and 2020F. The drive targeted students from Chemical Engineering, Electronics Engineering, Industrial Engineering & Management, and Metallurgy & Materials Engineering departments. A total of 73 students actively participated in the on-campus interviews, demonstrating their skills and potential. Notably, a significant number of students have been shortlisted for the subsequent round of interviews, reflecting the high caliber of DUET graduates. DUET extends its sincere gratitude to the representatives of Electro Polymers Pvt. Ltd. for their valuable time and commitment to providing career opportunities for our graduates.

This recruitment drive has not only boosted student morale but also provided them with invaluable insights and constructive feedback from the interview panels, contributing significantly to their professional development. We are deeply thankful to our Honourable Vice Chancellor, Prof. Dr. Samreen Hussain (T.I.), for her unwavering support and encouragement. Her guidance continues to be instrumental in fostering strong industry-academia linkages and creating opportunities for DUET students. The recruitment drive was meticulously organized by the Directorate of Industrial Liaison and Alumni Affairs (DILAA-DUET), under the direction of Dr. Muhammad Dawood Idrees, Director DILAA, and Syed Ahmer Raza Shah, Assistant Director, in close collaboration with the participating departments. Their collaborative efforts ensured a smooth and productive recruitment process.

INDUSTRY-ACADEMIA LINKAGES

INDUSTRIAL VISIT TO UEP NAIMAT FIELD

The SPE DUET Student Chapter organized a two-day industrial visit to United Energy Pakistan (UEP) Naimat Field for Batch 21F students on October 19-20, 2024. This visit provided students with valuable hands-on experience in the oil and gas sector, bridging the gap between theoretical knowledge and practical application. Such industry-academia engagements are essential for equipping students with the skills and exposure needed to excel in their professional careers. DUET remains committed to facilitating opportunities that enhance technical learning and career development.

FINAL YEAR STUDENTS SHOWCASE INNOVATIVE PROJECTS AT FFBL

Final-year students from Dawood University of Engineering & Technology (DUET) Karachi had the opportunity to present their groundbreaking projects at Fauji Fertilizer bin Qasim Limited (FFBL). Their innovative solutions addressed real-world challenges, demonstrating their technical expertise and problem- solving skills in the field of chemical engineering. This initiative provided students with industry exposure, allowing them to engage with professionals, receive valuable feedback, and explore practical applications of their academic knowledge. DUET takes pride in nurturing the next generation of engineers and remains committed to fostering a strong academia-industry linkage.

INDUSTRY-ACADEMIA LINKAGES

RECRUITMENT DRIVE OF EPRF, PMTF, & PSM AT DUET

ENAR Petroleum Refinery Facility (EPRF), Pakistan Machine Tool Factory (PMTF), and Peoples Steel Mills (PSM) jointly conducted a recruitment drive at Dawood University of Engineering and Technology (DUET) on 13th May 2025. A total of 207 graduates and graduating students from various departments enthusiastically participated in the test. This successful drive reflects the growing collaboration between industry and academia, providing students with valuable career opportunities and real-world exposure. We sincerely thank the representatives of EPRF, PMTF, and PSM for their valuable time and efforts in engaging with our students. Their participation is a strong endorsement of the talent and potential of DUET graduates.

INDUSTRY-ACADEMIA LINKAGES

ARTISTIC GARMENT INDUSTRIES (AGI DENIM) RECRUITMENT DRIVE AT DUET

On May 15th, 2025, Artistic Garment Industries (AGI Denim) conducted an on-campus recruitment drive at DUET for the departments of Industrial Engineering & Management and Chemical Engineering. A total of 90 graduating students from the 21 batch participated in the written test and interviews, showcasing their academic knowledge and interpersonal skills. This drive provided an excellent opportunity for students to engage with industry professionals and gain exposure to real-world recruitment processes. Many students have been shortlisted for the next stage of technical interviews, which marks a significant milestone in their career journey. We extend our sincere gratitude to the AGI Denim team for taking the time to visit our campus, conduct the recruitment process, and provide valuable feedback that will help shape the careers of our students. Their thoughtful interaction and assessment not only evaluated the students' potential but also motivated them to work harder towards their professional goals. Such initiatives play a key role in building a bridge between academic learning and practical industry expectations.

INDUSTRY-ACADEMIA LINKAGES

INDUSTRIAL TOUR TO NELSON PAINTS

The AIChE DUET Chapter, with the support of the Chemical Engineering Department, successfully organized an industrial tour to Nelson Paints, providing students with an opportunity to explore the practical aspects of paint manufacturing and its applications. This insightful visit allowed students to witness industrial operations firsthand, bridging the gap between academic learning and real-world practices. The university expresses its sincere gratitude to Nelson Paints for their gracious hospitality and to the Chemical Engineering Department for their continued efforts in strengthening industry-academia collaborations. Such initiatives are integral to preparing students for professional challenges and fostering innovation through shared knowledge.

INDUSTRIAL TOUR TO NELSON PAINTS

The AIChE DUET Chapter, in collaboration with the Chemical Engineering Department, organized an industrial tour to Power Cement Ltd, fostering valuable industry-academia connections. This enriching visit provided students with hands-on exposure to modern cement manufacturing processes, bridging the gap between theoretical knowledge and practical application. The university extends its heartfelt gratitude to Power Cement Ltd for their hospitality and support, and to the Chemical Engineering Department for their dedication to enhancing learning experiences. Such initiatives underscore DUET's commitment to equipping students with industry-relevant skills and fostering partnerships that advance both education and industrial innovation.

INDUSTRY-ACADEMIA LINKAGES

RECRUITMENT DRIVE BY ELECTRO POLYMERS (PVT) LIMITED AT DUET

ELECTRO POLYMERS (Pvt.) LIMITED conducted a recruitment drive on 20th June 2025 for the graduating batch of the Department of Electronics Engineering, Industrial Engineering and Management, and Metallurgy and Materials Engineering.

More than 50 students participated in the initial round of interviews, and many have been shortlisted for the next stage of technical evaluations. The drive provided an excellent opportunity for students to demonstrate their skills and engage with industry professionals. We extend our heartfelt thanks to the team at ELECTRO POLYMERS (Pvt.) LIMITED for sparing their valuable time to conduct on-campus interviews and interact meaningfully with our graduating students. Their insights, professionalism, and encouragement have greatly motivated our students and contributed to their career development journey.

We are also deeply grateful to our Honourable Vice Chancellor, Prof. Dr. Samreen Hussain (T.I, S.I) for her unwavering support, visionary leadership, and dedication to fostering industry-academia collaboration. Her continuous encouragement has played a vital role in creating opportunities that empower our students to excel in their professional pursuits. Organized by the Directorate of Industrial Liaison and Placement Bureau (DILPB).

We look forward to continued collaboration with industries to create more impactful opportunities for our students. For contact and coordination: dir.dilpb@duet.edu.pk

INDUSTRY-ACADEMIA LINKAGES

RECRUITMENT DRIVES

S.No.	Date	Activity	Industry / Employer Name	Interested Departments	Venue
1.	5th July, 24	Recruitment Drive (Interviews)	Transsion-Tecno Electronics (TTE)	Telecommunication Engineering Electronics Engineering Industrial Engineering & Management Metallurgy and Materials Engineering	Seminar Room, DUET
2.	22nd July, 24	Recruitment Drive (Interviews)	Ana and Batla Industries	Chemical Engineering	Seminar Room, DUET
3.	25th July, 24	Recruitment Drive (Interviews)	Lotte Chemicals	Industrial Engineering & Management	Seminar Room, DUET
4.	1st Aug, 24	Recruitment Drive (Interviews)	Sybride	Telecommunication Engineering	Seminar Room, DUET
5.	2nd Sept, 24	Recruitment Drive	Pakistan Petroleum Limited	Chemical Engineering	Seminar Room, DUET
6.	9th Sept, 24	Recruitment Drive (Interviews)	Nizam Din Sons	Industrial Engineering & Management Metallurgy and Materials Engineering Energy and Environmental Engineering	Seminar Room, DUET
7.	19th Sept, 24	Recruitment Drive (Interviews)	Electro-Polymers Pvt. Ltd	Industrial Engineering & Management Metallurgy and Materials Engineering Chemical Engineering	Seminar Room, DUET
8.	10th Oct, 24	Recruitment Drive (Test)	Sprint	Petroleum and Gas Engineering	Seminar Room, DUET
9.	8th Nov, 24	Recruitment Drive	ENAR Petrotech Service Pvt. Ltd.	Chemical Engineering Electronics Engineering	Seminar Room, DUET
10.	18th Nov, 24	Recruitment Drive (Interviews)	AGI Denim	Chemical Engineering Electronics Engineering Energy and Environmental Engineering Industrial Engineering & Management	Seminar Room, DUET
11.	29th Nov, 24	Recruitment Drive (Interviews)	Lucky-One (YBG)	Electronics Engineering Energy and Environmental Engineering Industrial Engineering & Management Computer Science Computer Systems Engineering	Seminar Room, DUET
12.	5th Dec, 24	Recruitment Drive (Interviews)	Yousuf Adil	Computer Science	Seminar Room, DUET
13.	6th Dec, 24	Recruitment Drive (Test)	Power Cement	Chemical Engineering Electronics Engineering Computer Science Industrial Engineering & Management	Seminar Room, DUET
14.	19th Dec, 24	Recruitment Drive (Interviews)	Denim E	Chemical Engineering Energy and Environmental Engineering	Seminar Room, DUET
15.	24th Dec, 24	Recruitment Drive	AM Appereal	Industrial Engineering & Management Chemical Engineering Energy and Environmental Engineering	Seminar Room, DUET
16.	20th Feb, 25	Recruitment Awareness	DESCON	Electronics Engineering Computer Systems Engineering Energy and Environmental Engineering Industrial Engineering & Management Metallurgy and Materials Engineering	Seminar Room, DUET
17.	25th Feb, 25	Recruitment Awareness	Engro Corp	Electronics Engineering Computer Systems Engineering Energy and Environmental Engineering Industrial Engineering & Management Metallurgy and Materials Engineering	Seminar Room, DUET

INDUSTRIAL VISIT TO ARCANA

Students of the Computer Systems Engineering Department (Batches 2022 & 2023) of Dawood University of Engineering & Technology successfully conducted a two-day industrial visit to ARCANA Info. on 8th and 9th May 2025. The visit offered students a highly informative and engaging experience, providing deep insights into the company's ongoing projects, technical operations, and professional work environment. Organized by the Directorate of Industrial Liaison and Placement Bureau (DILPB) in collaboration with the department, the initiative aimed to bridge the gap between academia and industry. DUET extends its sincere gratitude to Team ARCANA Info. for their warm hospitality and valuable mentorship, and to the Honorable Vice Chancellor for her continued support in enabling such impactful learning opportunities.

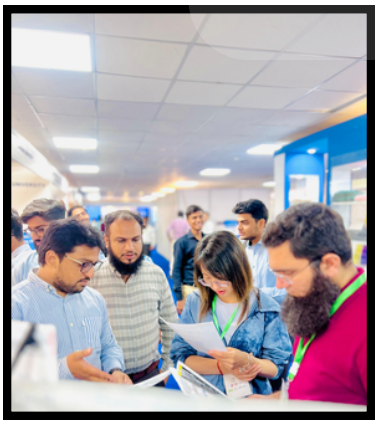
INDUSTRIAL VISIT TO PAKISTAN OXYGEN LIMITED

On May 27, 2025, the Industrial Engineering & Management Department of Dawood University of Engineering and Technology organized an industrial visit to Pakistan Oxygen Limited for its students. This visit provided the students with a valuable opportunity to gain practical insights into the industry, bridging the gap between theoretical knowledge and industrial practices. The students were exposed to real-world processes and operations, enhancing their understanding and preparing them for future professional endeavors. This initiative reflects the institution's commitment to experiential learning and industry-academia collaboration.

DUET PARTICIPATED IN PAKISTAN CHEMICAL EXPO BY PCMA

(PAKISTAN CHEMICAL MANUFACTURERS ASSOCIATION)

A mega event titled "Pakistan Chemical Expo (PACE) 2025" was organized by Pakistan Chemical Manufacturers Association (PCMA) at Expo center Karachi on 25-26 June 2025. This significant event provided a dynamic platform for different companies and universities to present innovative and indigenously developed technologies & products.
Dawood University of Engineering and Technology (DUET) participated in this prestigious event with three projects by the Department of Chemical Engineering; development and sustainable coal ashes bases cement material, effect of Digested Inoculum Temperature on Bio-Hydrogen and Total Volatile Fatty Acids from CBC Karachi Food Waste Under Dark Fermentation and development of Magnetic Photocatalyst for Waste Water Treatment, supervised by Dr. Abdul Karim Shah, Dr. Abdul Sattar Jatoi and Dr. Shoaib Ahmed. The representatives of different companies including Sitara Chemicals, Ittehad Chemicals, Fauji Fertilizer Company (FFC), Descon Engineering Limited, and other key players in the chemical and manufacturing sectors visited DUET stall. These industry professionals engaged in detailed discussions with the student teams and faculty coordinators, showing interest in the practical relevance and commercial potential of the projects exhibited.
On behalf of DUET, participation arrangements were looked after by Dr. Abdul Sattar Jatoi (Assistant Professor, Department of Chemical Engineering) and Mr. Sadam Hussain (ORIC).
#duet #duetoric #duetchemical #duetpmc #research #projects #commercialization #pace2025 #oric #pcma #chemical



DAWOOD UNIVERSITY STRENGTHEN'S
GRADUATES' SUCCESS IN THEIR PREFERRED ENDEAVOUR

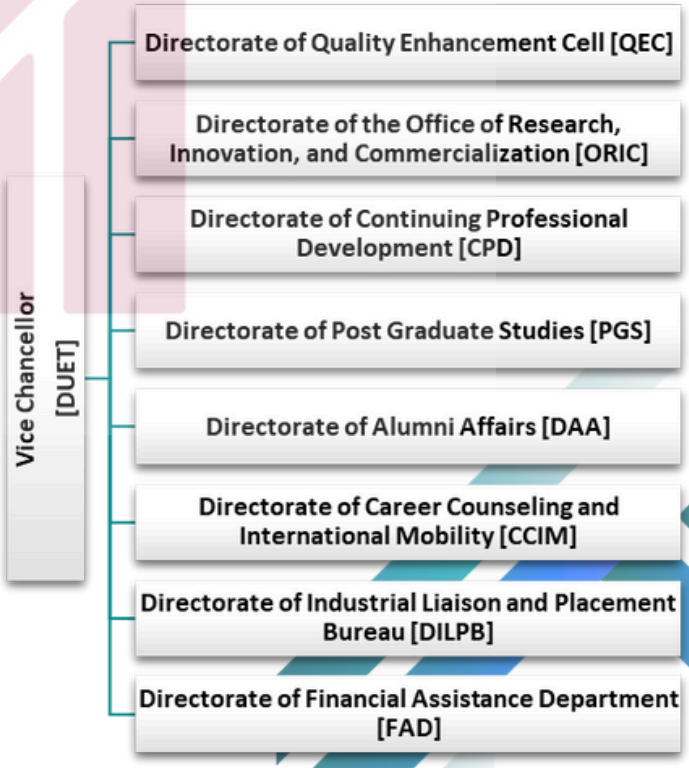
EMPOWERING SUCCESS: LEARN, INNOVATE, THRIVE

"To create a roadmap guiding graduates towards Industry- Placements, Higher-Studies, Quality- Education, Innovation and Commercialization, International-Opportunities, Entrepreneurship and Ensuring Long- Term Professional Success"

On Thursday, 6th February 2025, at 11:30 a.m., a pivotal meeting was convened by the Honorable Vice Chancellor, Prof. Dr. Samreen Hussain (S.I) (T.I), in the Conference Room of the Vice Chancellor's Secretariat. Under the visionary leadership of the Vice Chancellor, Dawood University of Engineering and Technology (DUET) is committed to fostering a culture of excellence, innovation, and global competitiveness. The Vice Chancellor's dedication to cultivating industry-ready graduates who can thrive as global leaders drives the university's strategic vision.

GOVERNANCE AND OVERSIGHT

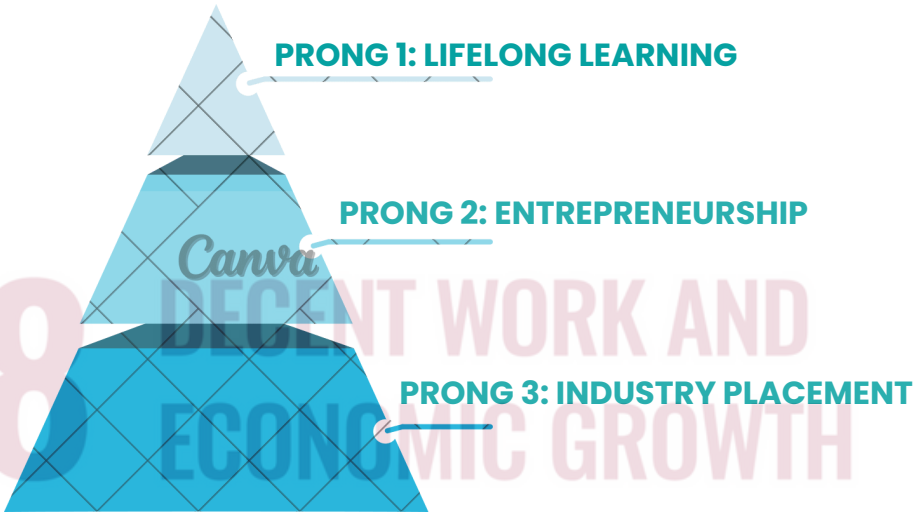
Dawood University of Engineering and Technology (DUET) is governed by the Honorable Vice Chancellor, who oversees the implementation of the university's strategic vision and objectives. The Vice Chancellor is supported by a robust governance structure, comprising various directorates that work collaboratively to ensure the university's continued success



STRATEGIC FRAMEWORK THREE-PRONG APPROACH TO STUDENT SUCCESS

Dawood University of Engineering and Technology (DUET) adopts a three-pronged approach to ensure graduate success, integrating lifelong learning, entrepreneurship, and industry placements. This strategic framework aligns directorates and departments towards a share division, fostering collaboration and continuous support for students from enrollment to employment or further education

The approach based on Three Key Pillars:



PRONG 1: LIFELONG LEARNING

Dawood University of Engineering and Technology (DUET) fosters lifelong learning by supporting students pursuing postgraduate studies locally and internationally. The Directorate of Career Counseling and International Mobility (CCIM) facilitates partnerships with academic institutions, providing guidance on programs, scholarships, and admissions.

Key Initiatives:

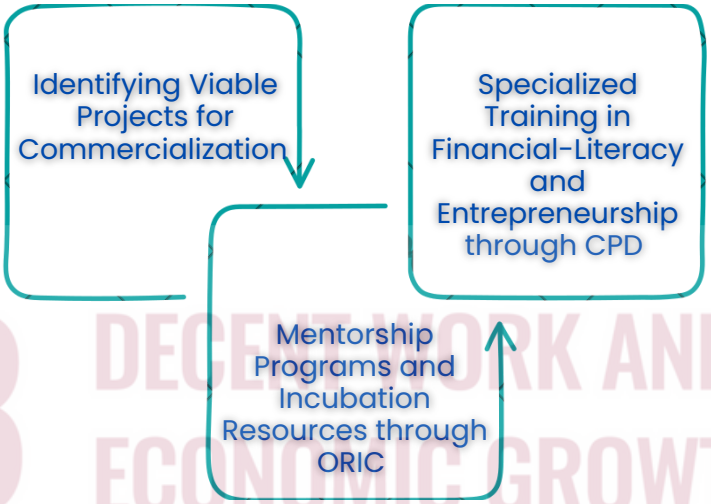
"This prong ensures a robust research culture, providing students with critical research exposure, supervisory skills, and advanced research expertise"

PRONG 2: ENTREPRENEURSHIP

Dawood University of Engineering and Technology (DUET) cultivates entrepreneurship through a collaborative effort between the Directorate of ORIC (Office of Research, Innovation, and Commercialization) and the Directorate of Continuing Professional Development (CPD).

Key Initiatives:

"This prong equips students with the skills to transform innovative ideas into sustainable businesses, preparing them for success as entrepreneurs in competitive markets"

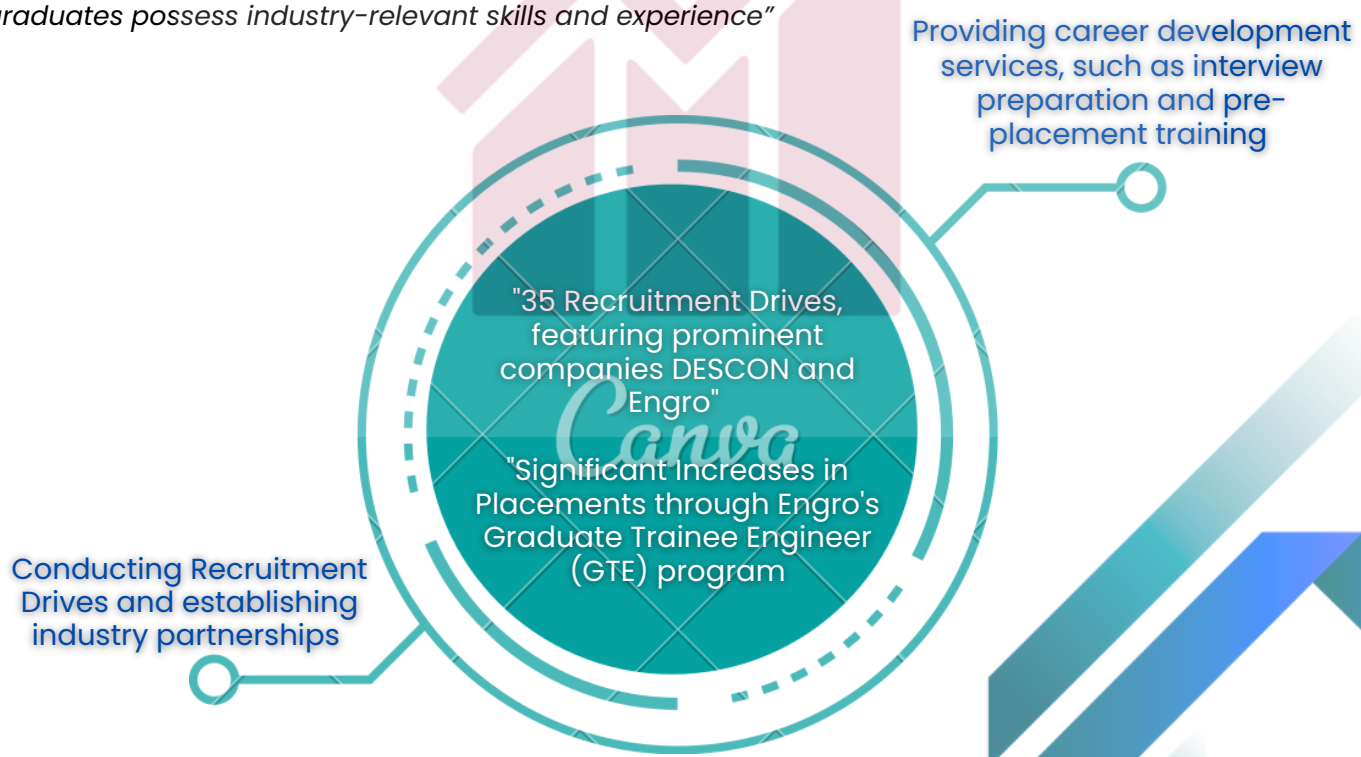


PRONG 3: INDUSTRY PLACEMENT

Dawood University of Engineering and Technology (DUET) facilitates industry placements through the Directorate of Industrial Liaison & Placement Bureau (DILPB). DILPB connects students with employment opportunities.

Key Initiatives:

"DILPB will continue to expand recruitment initiatives and strengthen industry ties, ensuring DUET graduates possess industry-relevant skills and experience"



DEPARTMENT OF ENERGY & ENVIRONMENT ENGINEERING

CHAPTER

9

eee.duet.edu.pk

9.1 About the Department

The Department of Energy and Environment Engineering was established in 2010. The department offers a 4-year bachelor program in Energy and Environment Engineering. At present, this department consists of eleven highly qualified and experienced faculty members. The department developed 5 laboratories with excellent machinery for experimental studies. All the classrooms are fully equipped with necessary accessories for modern learning. This department has been producing many outstanding graduates over the years. Our graduates find themselves in high demand for positions in some of the top corporate, government, and educational institutions and continue to make substantial contributions to their respective fields.

9.2 Mission

To disseminate and integrate knowledge of engineering, science, and technology that enables our students to develop sustainable energy systems and solutions for the future applying innovative applications of engineering using modern tools by investigating, communicating in interdisciplinary ways to identify society problems and to lead, motivate and work in teams to manage energy and environmental problems and progressing in the profession through lifelong learning attitude.

9.3 Program Educational Objectives (BE Energy & Environment Engineering)

PEO-1: Demonstrate and apply energy and environmental engineering knowledge to develop and transfer innovative applications of engineering, science and technology to improve the practices using modern tools.

PEO-2: Investigate and communicate in interdisciplinary ways to recognize problems and solutions in their entirety.

PEO-3: Practice their profession successfully as a team player and entrepreneur with innovative approach to provide socio-economical and sustainable solutions to solve energy and environmental issues.

PEO-4: Leading ethical life and continuous progressing in the profession through practicing lifelong learning attitude

Department offers the following degree program:

BE (Energy and Environment Engineering)
BS (Environment Science)

9.4 Faculty Members

Dr. Ayaz Ali Shah
Chairperson/Assistant Professor
PhD Energy Technology,
Aalborg University, Denmark
MS Environmental Engineering
and Management, MUET, Jamshoro
BE Environmental Engineering,
MUET, Jamshoro
PEC No. Enviro/306

Dr. Sikandar Ali Abbasi
Professor
PhD Energy Systems Engineering
MUET, Jamshoro
MS/ME Environmental Engineering,
SSUET, Karachi
BE Electrical Engineering, MUET,
Jamshoro
PEC No. Elect/6736

Dr. Tahir Hussain
Assistant Professor
PhD Energy Technology, Aalborg
University Denmark
MS Environmental Engineering
and Management, NEDUET, Karachi
BE Energy & Environment
Engineering
QUEST, Nawabshah

Dr. Abdul Fatah Soomro
Assistant Professor
PhD Environmental Engineering
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ME Environment Engineering,
MUET, Jamshoro
BE Textile Engineering, MUET,
Jamshoro
PEC No. Textile/1331

Dr. Ghulam Mujtaba
Associate Professor
PhD Energy Environmental
Engineering, Myongji University,
South Korea
MS Environmental Engineering,
Myongji University, South Korea
BS Environmental Science,
COMSATS, Abbottabad
PEC No. N/A

Engr. Muhammad Irfan Rajput
Assistant Professor (On Study Leave)
PhD (In Progress)
ME Energy Environmental
Management, Europa-University
Flensburg, Germany
BE Energy & Environment Engineering,
QUEST Nawabshah
PEC No. Environ/101

Engr. Khuda Buksh
Assistant Professor
PhD (In Progress)
M/E Energy Engineering, Hamdard
University, Karachi
BE Energy & Environment
Engineering, QUEST Nawabshah
PEC No. Environ/107

Dr. Zubair Ahmed
Lecturer
PhD Environment and Energy, South
China University of Technology,
Guangzhou, China
ME Environmental Engineering,
NEDUET, Karachi
BE Energy and Environment
Engineering, QUEST, Nawabshah
PEC No. Enviro/00041

Dr. Ihsanullah Sohoo
Assistant Professor (On Leave)
PhD Environmental Engineering,
Institute of Environmental Technology,
and Energy Economics, University of
Technology, Hamburg, Germany
ME Environmental Engineering,
NEDUET, Karachi
BE Energy & Environment
Engineering, QUEST Nawabshah
PEC No. Enviro/07

Engr. Siraj Ahmed
Assistant Professor
PhD (In Progress)
ME Energy Engineering, Hamdard
University, Karachi
BE Energy Environment
Engineering, QUEST, Nawabshah
PEC No. Environ/93

Engr. Waseem Ali
Assistant Professor
PhD (In Progress)
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BE Mechanical Engineering, SZAB MUET Campus Khairpur Mirs
PEC No. Mech/28827

Engr. Aamir Raza
Assistant Professor
PhD (In Progress)
ME Energy Engineering, Hamdard University, Karachi
BE Energy Environment Engineering, QUEST Nawabshah
PEC No. Enviro/386

Engr. Aisha Memon
Lecturer (On Study Leave)
PhD (In Progress)
ME Environmental Science and Engineering, Tsinghua University, Beijing, PR China
BE Environmental Engineering, MUET Jamshoro
PEC No. Enviro/430

Engr. Irfan Ahmed Abbasi
Lecturer (On Study Leave)
PhD Study Leave (Environmental Engineering), Sungkyunkwan University, South Korea
ME Environmental Engineering & Management, MUET Jamshoro
BE Textile Engineering, DCET, Karachi
PEC No. Textile/361

Engr. Asif Abbasi
Assistant Professor
PhD (In Progress) MUET, Jamshoro
PGD (Environmental Science), University of Karachi
MS Transportation Engineering NEDUET, Karachi
BE Civil Engineering NEDUET, Karachi
PEC No. Civil / 18268

9.5 BE Energy & Environment Engineering Course Catalogue

Course Code	Knowledge Area/Name of Subject	Theory	Lab	Req. Courses	Req. CH	Prerequisites
Foundation						
EE-1101	Introduction to Environmental Engineering	3	0	7	21	
EE-1102	Energy Resources & Environment	3	0			
EE-1103	Engineering Mechanics	3	0			
EE-1104	Engineering Drawing & CAD	2	1			
EE-2105	Introduction to Energy System Engineering	3	0			
EE-2106	Fluid Mechanics	2	1			
EE-3107	GIS and Remote sensing	2	1			
Major Based Core Breadth						
EE-2201	Bio Energy Engineering	2	1	10	33	
EE-2202	Fuels and Combustion	3	1			Introduction to Energy System Engineering
EE-2203	Water Supply and Treatment Methods	3	1			Introduction to Environmental Engineering
EE-2204	Energy Conservation and Management	3	0			Introduction to Environmental Engineering
EE-3205	Environmental Laws and Policies	2	0			Introduction to Environmental Engineering
EE-3206	Hydro Power Engineering	3	0			Energy Resources & Environment
EE-3207	Energy Policy and Management	2	0			
EE-3208	Wastewater Engineering	3	1			Introduction to Environmental Engineering
EE-3209	Solid Waste Management	3	1			Energy Resources & Environment
EE-4210	Air and Noise Pollution Control	3	1			Introduction to Environmental Engineering
Major Based Core Depth						
EE-4301	Integrated Water Resources Management	3	0	7	21	Offered in Final Year Only
EE-4302	Ecological Management	2	0			Offered in Final Year Only
EE-4303	Solar & Wind Energy Technologies	3	1			Energy Resources & Environment Offered in Final Year Only
EE-4701	Environmental Impact Assessment	3	0			Offered in Final Year Only
EE-4702	Healt Safety & Environment	3	0			Offered in Final Year Only
EE-4703	Cleaner Production Technologies	3	0			Offered in Final Year Only
EE-4704	Climate Change and Disaster Management	3	0			Offered in Final Year Only
EE-4705	Waste Management	3	0			Offered in Final Year Only
EE-4706	Green Energy Technologies	3	0			Offered in Final Year Only
EE-4707	Watershed Management	3	0			Offered in Final Year Only
EE-4708	Marine Pollution and Coastal Management	3	0			Offered in Final Year Only
Inter Disciplinary Elective						
IDE-x401	Workshop Technology	0	1	3	7	
IDE-x402	Introduction to Engineering Materials	2	0			
IDE-x403	Engineering Thermodynamics	3	1			
IDE-x404	Basic Electronics	3	1			
IDE-x405	Instrumentation and Control	2	1			
IDE-x406	Power Distribution and Utilization System	2	0			
IDE-x407	Heat and Mass Transfer	3	1			
IDE-x408	Thermal Power Systems	3	1			
IDE-x409	Petroleum and Gas Exploration	2	0			
IDE-x410	Petroleum Refinary Engineering	3	1			
EE-4999	Final Year Design Project-I	0	3	1	6	Offered in Final Year Only
EE-4999	Final Year Design Project-II	0	3			Offered in Final Year Only

9.6 BS Environmental Science

The program of BS Environmental Science was launched in 2022 at Dawood University of Engineering & Technology. This is a 4-year BS degree program. BS Environmental Science courses teach knowledge pertaining to Natural Resource Management, Environmental Management System, Environmental Impact Assessment, Environmental Auditing, Occupational Hygiene, Health Safety & Environment, Solid Waste Management, Environmental Policy and Management, and Environmental Ethics. The Program is loaded with all basic facilities such as an excellent lecture hall, well equipped environmental laboratories, central library, and audiovisual facilities for the students. BS Environmental Science program is focused on arranging for future job roles in industry. It transforms students to work as Environmentalist, Solid waste Management, Health & Safety officer, Environmental Management Representative officer, and Environmental Inspector in various government and industrial sectors.

9.7 BS Environmental Science Course Catalogue

Course Code	Knowledge Area/Name of Subject	Theory	Lab	Req. Courses	Req. CH	Prerequisites
Foundation						
ES-1101	Introduction to Environmental Science	3	0			
ES-1102	Introduction to Geology	2	1			
ES-2103	Environmental Physics	3	0			
ES-2104	Population and Environment	3	0			
ES-2105	Environmental Microbiology	2	1			
ES-2106	Environmental Chemistry	3	0	10	30	
ES-2107	Fundamentals of Ecology	3	0			
ES-2108	Climatology	3	0			
ES-3109	Analytical Techniques in Environmental Science	1	2			
ES-3110	Environmental Profile of Pakistan	3	0			
Major						
ES-2201	Environmental Economics	3	0			
ES-2202	Public Health and Environment	3	0			
ES-3203	Natural Resource Management	3	0			
ES-3204	Biodiversity and Conservation	3	0			
ES-3205	Water & Wastewater Pollution	3	1			
ES-3206	Environmental Management Systems	3	0	11	35	
ES-3207	GIS & Remote Sensing	2	1			
ES-3208	Environmental Governance	3	0			
ES-3209	Climate Change Adaptation & Mitigation	3	0			
ES-4210	Solid Waste Management	3	1			
ES-4211	Air & Noise Pollution	2	1			
Electives						
ES-4701	Water Resource Management	3	0			Offered in Final Year Only
ES-4702	Occupational Health and Safety	3	0			Offered in Final Year Only
ES-4703	Environmental Impact Assessment	3	0			Offered in Final Year Only
ES-4704	Marine Pollution & Coastal Management	3	0	4	12	Offered in Final Year Only
ES-4705	Energy and Environment	3	0			Offered in Final Year Only
ES-4706	Hydrology	3	0			Offered in Final Year Only
ES-4707	Disaster Risk Management	3	0			Offered in Final Year Only
ES-4708	Ecotourism	3	0			Offered in Final Year Only
ES-4709	Project Management	3	0			Offered in Final Year Only
ES-4710	Urban Environmental Management	3	0			Offered in Final Year Only
ES-4999	Final Year Project-I	3	0			Offered in Final Year Only
ES-4999	Final Year Project-II	3	0			Offered in Final Year Only