

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY
SUSTAINABILITY AND IMPACT REPORT
2024-25



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Preface

This seventh Sustainability Report of NED University of Engineering and Technology (2024-25) reaffirms the University's commitment to advancing the United Nations Sustainable Development Goals (SDGs). As a leading institution, NED University recognizes its responsibility to address global challenges such as climate change, inequality, and environmental degradation through education, research, and community engagement.

The report presents key achievements, performance highlights, and data-supported evidence reflecting progress across campus infrastructure, institutional policies, curriculum integration, and outreach initiatives. It also outlines ongoing projects and future plans aimed at deepening our contribution to a more sustainable and equitable world.

Established by the United Nations in 2015, the 17 Sustainable Development Goals serve as a universal framework to achieve a better future for all—addressing poverty, inequality, climate action, environmental preservation, peace, and justice. This report reflects NED University's continued dedication to these global objectives and its journey toward a sustainable future.



- **SDG 1 No Poverty:** End poverty in all its forms everywhere.
- **SGD 2 Zero Hunger:** End hunger, achieve food security and improved nutrition, and promote sustainable agriculture.
- **SGD 3 Good Health and Well-being:** Ensure healthy lives and promote well-being for all at all ages.
- **SGD 4 Quality Education:** Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.
- **SGD 5 Gender Equality:** Achieve gender equality and empower all women and girls.
- **SGD 6 Clean Water and Sanitation:** Ensure availability and sustainable management of water and sanitation for all.
- **SGD 7 Affordable and Clean Energy:** Ensure access to affordable, reliable, sustainable, and modern energy for all.
- **SGD 8 Decent Work and Economic Growth:** Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all.
- **SGD 9 Industry, Innovation, and Infrastructure:** Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation.
- **SGD 10 Reduced Inequalities:** Reduce inequality within and among countries.
- **SGD 11 Sustainable Cities and Communities:** Make cities and human settlements inclusive, safe, resilient, and sustainable.
- **SGD 12 Responsible Consumption and Production:** Ensure sustainable consumption and production patterns.
- **SGD 13 Climate Action:** Take urgent action to combat climate change and its impacts.
- **SGD 14 Life Below Water:** Conserve and sustainably use the oceans, seas, and marine resources for sustainable development.
- **SGD 15 Life on Land:** Protect, restore, and promote sustainable use of terrestrial ecosystems, manage forests sustainably, combat desertification, halt and reverse land degradation, and halt biodiversity loss.
- **SGD 16 Peace, Justice, and Strong Institutions:** Promote peaceful and inclusive societies for sustainable development, provide access to justice for all, and build effective, accountable, and inclusive institutions at all levels.
- **SGD 17 Partnerships for the Goals:** Strengthen the means of implementation and revitalize the global partnership for sustainable development.

Table of Contents

Chapter 1: Introduction and Overview	7
1.1 University Profile	7
1.2 Sustainability Initiatives	11
1.3 University Rankings	14
1.4 Report Organization and SDG Mappings	15
Chapter 2: Carbon Reduction Targets and Initiatives	16
2.1 University Carbon Mitigation Targets	16
2.2 CO2 Smart Executive Club	17
2.3 Healthy Friday	18
Chapter 3: Green Buildings and Infrastructure	18
3.1 Campus Area	18
3.2 Solarization of Buildings (Renewable Energy Generation)	19
3.3 Energy Efficient Appliances	20
3.4 Electricity Consumption Details	21
3.5 Green Construction and Renovation	22
Chapter 4: Water Conservation and Management	23
4.1 Water Filtering Units	23
4.2 Waste Water Recycling	24
4.3 Treated Water Generation and Water Consumption Details	25
4.4 Fresh Water Consumption Details	25
Chapter 5: Waste Management and Recycling	26
5.1 Sewage Disposal and Inorganic Waste Treatment	26
5.2 Reducing the Use of Paper in Campus	27
Chapter 6: Biodiversity and Habitat Conservation	28
6.1 On-Campus Vegetation area	28
6.2 Plantation Drives	28
6.3 Urban Forest Plantations	29
Chapter 7: Sustainable Transportation	30
7.1 Modes of Transport for Mass Transits	30
7.2 Statistics on Transportation Usage	31
Chapter 8: Health and Wellbeing Facilities	32
8.1 Medical Facilities	32
8.2 Sports Facilities	33
8.3 Extra and Co-Curricular Activities	35
8.4 Affordable and Nutritious Food	39

Chapter 9: Diversity, Equity and Inclusion	40
9.1 Gender Equality	40
9.2 Ethnic and Religious Equality	43
9.3 Inclusion for Minorities, Differently-abled Persons and Other Boards Through Fixed Distribution of Seats	44
9.4 Financial Aid and Scholarships	46
9.5 Pedestrian Path Policy on Campus	46
9.6 Daycare Centre	47
Chapter 10: Education and Research	48
10.1 University Impact	48
10.2 Research Statistics	53
10.3 Research Journals	53
10.4 Research Centres	53
Chapter 11: Community Engagement	55
11.1 Extending Community Service Through Students	55
11.2 Cowsjee School	57
11.3 Shuttle Service for School Children	57
11.4 Clean Drinking Water for Students and Employees	58
11.5 Blood Donation Camps	58
11.6 U-Inspire Pakistan	58
11.7 Alumni Engagement and Support	59
Chapter 12: Industrial Linkages and Outreach	60
12.1 Office of Research, Innovation and Commercialization (ORIC)	60
12.2 Business Incubation Centre (BIC)	61
12.3 National Incubation Centre, Karachi	62
12.4 Directorate of Industrial Liaison	62
Chapter 13: Governance and Institutional Integrity	64
13.1 Senate: The University’s Legislative Authority	64
13.2 Grievance Committee: Ensuring Fairness and Justice	64
13.3 Complaint Log Register: Promoting Transparency and Accountability	65

Chapter 1: Introduction and Overview

1.1 University Profile

The NED University of Engineering and Technology, established in March 1977, evolved from the NED Government Engineering College, originally founded in 1921. As of 1977, the NED Government Engineering College became NED University of Engineering and Technology. This institution is among Pakistan's oldest, dedicated to producing engineering graduates.

1.1.1 Vision Statement

Be a leader in enabling Pakistan's social and economic transformation.

1.1.2 Mission Statement

Acquire education and research excellence in engineering and allied disciplines to produce leadership and enabling application of knowledge and skills for the benefit of the society with integrity and wisdom.

1.1.3 Quality Policy

NED University of Engineering and Technology believes in establishing environment conducive to continual improvement its efforts for providing the highest-level quality education.

The University is making all out efforts to raise its standards through teaching excellence and quality research. These efforts are carried out with involvement of the entire university work force – to obtain utmost possible satisfaction of its customer.

Our endeavors are to make our students useful to the society in particular and to humanity in general. In dealings with industry and utilities, attempts are made to maintain standards of integrity as well as quality. For further details, visit https://www.neduet.edu.pk/faculties_and_departments



1.1.4 Campuses and Affiliations

NED University has three campuses namely:

- **Main Campus:** NED University of Engineering and Technology, University Road, Karachi.

- **LEJ Campus:** NED University LEJ Campus 81-A, Block-3, Memon Cooperative Housing Society, Karachi.

- **City Campus:** NED University City Campus Maulana Din Muhammad Wafai Road, Karachi.



NED University of Engineering and Technology has one constituent college:

- **TIEST Campus:** Thar Institute of Engineering and Technology, Police Road, Mithi, Tharparkar.



1.1.5 Academic Faculties and Departments

NED University has 30 teaching departments from 5 faculties and 1 constituent college – TIEST as listed below, offering 35 undergraduate, 61 masters and 21 Ph.D. programmes – thus a total of 117 programmes are currently being offered.

- **Faculty of Civil and Petroleum Engineering (CPL)**
 - Department of Civil Engineering
 - Department of Urban and Infrastructure Engineering
 - Department of Petroleum Engineering
 - Department of Earthquake Engineering
 - Department of Environmental Engineering
- **Faculty of Electrical and Computer Engineering (ECE)**
 - Department of Electrical Engineering
 - Department of Electronic Engineering
 - Department of Telecommunications Engineering
 - Department of Computer and Information Systems Engineering
 - Department of Bio-Medical Engineering
 - Department of Computer Science and Information Technology
 - Department of Software Engineering
- **Faculty of Mechanical and Manufacturing Engineering (MME)**
 - Department of Mechanical Engineering
 - Department of Industrial and Manufacturing Engineering
 - Department of Textile Engineering
 - Department of Automotive and Marine Engineering
- **Faculty of Chemical and Process Engineering (CPE)**
 - Department of Chemical Engineering
 - Department of Polymer and Petrochemical Engineering
 - Department of Materials Engineering
 - Department of Metallurgical Engineering
 - Department of Food Engineering
- **Faculty of Architecture and Sciences (ASC)**
 - Department of Architecture and Planning
 - Department of Economics and Management Sciences
 - Department of Physics
 - Department of Chemistry
 - Department of Mathematics
 - Department of English Linguistics and Allied Studies
 - Department of Essential Studies
- **Thar Institute of Engineering, Sciences and Technology (TIEST)**
 - Department of Civil Engineering [TIEST]
 - Department of Computer Science and Technology [TIEST]

For further details, visit https://www.neduet.edu.pk/faculties_and_departments.

1.1.6 Administrative Departments

The University has 15 administrative departments, as listed below:

- Registrar Office
- Directorate of Finance
- Examinations Department
- Directorate of Services
- Information Technology (IT) Department

- Directorate of University Advancement and Financial Assistance (UAFA)
- Student Affairs Department
- Directorate of Industrial Liaison (DIL)
- Directorate of Planning and Projects
- Quality Enhancement Cell (QEC)
- Medical Department
- Audit Department
- Office of Research, Innovation and Commercialization (ORIC)
- Procurement Cell
- Central OBE Cell (COBEC)
- Business Incubation Center
- Engr. Abul Kalam Library
- NED Academy

For further details, visit https://www.neduet.edu.pk/administrative_departments.

1.1.7 Authorities, Statutory and Other Bodies

The following are authorities of NED University, established by the Ordinance.

- Senate
- Syndicate
- Academic Council
- Board of Faculty (BoF)
- Board of Studies (BoS)
- Board of Review (BoR)
- Advanced Studies and Research Board (ASRB)
- Finance and Planning Committee (FPC)
- Affiliation Committee
- International Advisory Board
- Selection Board
- Special Selection Board for BPS 21 to BPS 22
- University Development Working Party (UDWP)

For further details, visit https://www.neduet.edu.pk/university_bodies.

1.1.8 Portfolio Reports

NED University publishes the following reports annually.

- **Annual Report**
The annual report provides a comprehensive overview of a academic, research, financial and outreach performance of NED University. The University is publishing its annual reports since 2014.
For further details, visit https://www.neduet.edu.pk/University_Portfolio_Reports.
- **Sustainability Report**
The sustainability report aims to provide a comprehensive overview of NED University's commitment to environmental stewardship, social responsibility, and economic viability. It outlines the progress, achievements, and challenges in integrating sustainable practices across all facets of the University's operations, education, and community engagement. The University is publishing its sustainability reports since 2018.
For further details, visit https://www.neduet.edu.pk/sustainability_reports
- **Strategic Report**
The strategic report provides NED University's strategic direction, goals, and plans for future growth and development. It seeks to help stakeholders understand how the organization intends to create value

over the long term. The University has started publishing its strategic report from the current year of 2024.

1.2 Sustainability Initiatives

As a leading institution of higher education, NED University recognizes the critical role universities play in shaping a sustainable future. The University is committed to equipping the students with the knowledge and skills needed to address the complex environmental and social challenges facing the world. Sustainability is not just a goal; it is a guiding principle that informs our academic programs, research initiatives, and campus operations. By embedding sustainability into the institutional culture, the University strives to create a campus environment that reflects our values and serves as a living laboratory for innovation and leadership in sustainability.

1.2.1 Sustainability Leadership

The Honorable Vice Chancellor of the NED University Prof. Dr. Sarosh H. Lodi, has taken the lead in transforming the Main Campus of the University into a ‘live lab’ working towards a sustainable and ultimately first carbon neutral engineering university campus of Pakistan. He himself chairs a variety of University forums to address challenges and monitor the progress of all the activities related to sustainability.

The NED University has taken up the responsibility in leading the Higher Education Institutions of Pakistan in becoming the sustainable campus sites and host academic and research activities for the local and international industries and municipalities working towards the establishment of a sustainable future for us all. The University has established a sustainability leadership forum, to develop strategies, key performance indicators, and implementation plans for sustainability measures. This committee is also responsible for overseeing the implementation and monitoring of these initiatives. The forum comprises of the following members.

- **Prof. Dr. Muhammad Tufail**, *Vice Chancellor*
- **Prof. Dr. Noman Ahmed**, *Pro Vice Chancellor*
- **Prof. Dr. Saad Ahmed Qazi**, *Dean Electrical and Computer Engineering (ECE), and Sustainability Director*
- **Dr. Ali Hasan Mahmood**, *Controller Student Affairs*
- **Engr. Muhammad Saqib**, *Assistant Professor, Department of Civil Engineering, Sustainability Coordinator and Faculty Advisor NED Green Society*
- **Dr. Muhammad Ali Memon**, *Associate Professor, Department of Electrical Engineering*
- **Dr. Atif Mustafa**, *Chairman, Department of Environmental Engineering*
- **Dr. Junaid Akhlas**, *Assistant Professor, Department of Polymer and Petrochemical Engineering*
- **Engr. Madiha Zaidi**, *Assistant Professor, Department of Urban and Infrastructure Engineering*
- **Engr. Muhammad Hassan ul Haq**, *Assistant Professor, Department of Electrical Engineering*
- **Ar. Sadia Bano**, *Assistant Professor, Department of Architecture and Planning*
- **Engr. Adeel Ahmed Khan**, *Assistant Professor, Department of Mechanical Engineering*
- **Engr. Muhammad Ali Akhtar**, *Lecturer, Department of Computer and Information Systems Engineering*

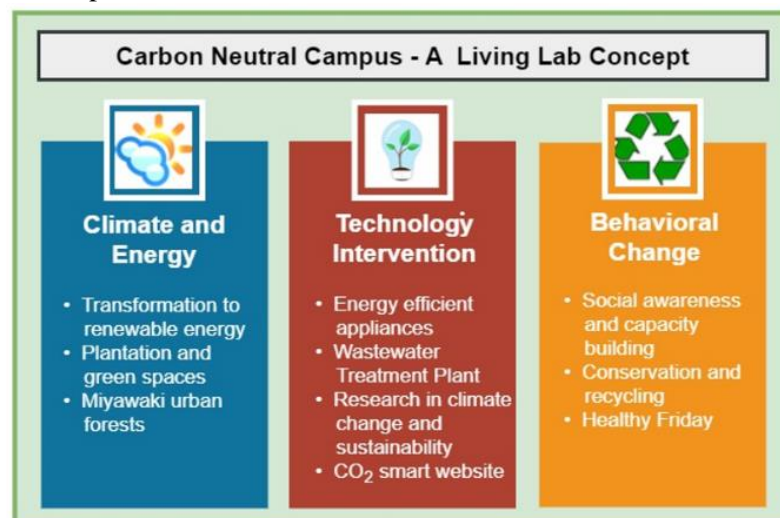
1.2.2 Carbon Neutral Built Environment initiative

On February 12, 2018, the worthy Vice Chancellor of NED University Dr. Sarosh H. Lodi has signed the Talloires Declaration to become Carbon Neutral Campus and brought Pakistan as a member of Talloires Signatory List. As an institution of higher education, concerned about the state of the world environment and the advancement of sustainable development, NED University shall strive to promote actions that will achieve a sustainable future. By signing the Talloires Declaration, a university agrees to Increase Awareness of Environmentally Sustainable Development, Create an Institutional Culture of Sustainability, Educate for Environmentally Responsible Citizenship, Foster Environmental Literacy for All, Practice Institutional Ecology, Involve all Stakeholders, Collaborate for Interdisciplinary Approaches, Enhance Capacity of Primary and Secondary Schools, Broaden Service and Outreach Nationally and Internationally, and Maintain the Movement.

More than ever, our world is facing the challenges of climate change and sustainability. The future of our existence is at stake. NED University has taken this initiative to bring together professionals in academia and research, practicing and consulting engineers/ architects, construction and energy industry professionals, public and private sector managers, builders, policy makers, assessors, certification and funding bodies and government officials concerned with climate change and sustainability projects and centre programmes from all over the world, for engagement and exchange of thoughts and experiences regarding the concepts of climate change, sustainability and carbon neutrality.

The term carbon neutrality generally refers to achieving a net zero carbon emission. The task of achieving carbon neutrality requires taking two parallel lines of actions.

- i. **Reducing Carbon Emission:** In order to reduce carbon emission on campus the measures that need to be taken include creating general awareness, conducting carbon emission studies, improving energy efficiency to reduce carbon emission related to energy generation, making the campus green and using renewable energy sources.
- ii. **Balancing Carbon Emission:** In order to balance carbon emission on campus the measures that need to be taken include tree plantation, optimization of water use, optimization of land use and turning the campus into forested campus.



Under a Carbon Neutral Built Environment initiative, launched in 2018, a steering committee was formed under the leadership of Vice-Chancellor NED University to drive the initiative's multi-pronged agenda. The idea was to create a set of diverse experiences related to climate change best practices within and beyond the University campus, with a goal to gradually transform the University as a "LIVE LAB" of carbon neutrality – based on the concept of "SEEING IS BELIEVING".

1.2.3 Institutional Policies on Sustainability

Institutional policies on sustainability are guidelines and rules set by an organization to promote environmental responsibility and sustainable practices. These policies are designed to reduce the ecological footprint of the institution, enhance social responsibility, and ensure long-term viability. NED University's commitment to sustainability is reflected in the following policies, which align with the University's vision of creating a sustainable and responsible institution:

- NED University Research Ethics Policy
- NED Plagiarism Policy
- HEC Policy on Protection against Sexual Harassment in Higher Education Institutions
- Access to all Policies
- Clean Energy and Climate Change Policy
- Clean Energy and Climate Change Policy
- Canteen Waste Policy
- Academic Freedom Policy
- Environmental Policy
- Equality Policy
- Grievances Committee
- Women Participation and Support Policy
- No Smoking Policy
- Policy for Students with Disabilities
- NED University Sustainable Procurement Policy
- NED University of Engineering and Technology Anti-Bribery and Anti - Corruption Policy
- NED University Sustainable Investment Policy
- Conflict of Interest Policy

For further details, visit https://www.neduet.edu.pk/institutional_policies.

1.3 University Rankings

1.3.1 THE World University Ranking

THE World University Rankings	1500+
Asia University Rankings	601+
Engineering and Technology Rankings	1001+

1.3.2 Times World Impact Ranking

Times World Impact Ranking 2025	401-600
Quality Education	Top 200
Industry Innovation and Infrastructure	Top 200
Affordable and Clean Energy	Top 200
No Poverty	Top 400
Clean Water and Sanitation	Top 400

1.3.3 QS Asian University Ranking

QS Asian Rankings 2024	Top 500
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1.3.5 Round University Rankings (RUR)

World University Rankings	926
Research Rankings	787
International Diversity	867
Financial Sustainability	588
Academic Ranking	894
















1.3.6 Research Innovation and Commercialization 2024-25

Overall ranking in Research, Innovation and Commercialization	Top 5, W Category
Ranking in Research Excellence	3 rd
Ranking in HR and Operations	2 nd
Ranking in Innovation and Commercialization	4 th

1.4 Report Organization and SDG Mappings

NED University has made significant strides in advancing sustainability across our campus. Our commitment is reflected in our strategic plans, policies, and initiatives that prioritize environmental responsibility, social equity, and economic resilience. This report provides detailed insights into these areas, showcasing our accomplishments, ongoing efforts, and future goals. Through collaboration and innovation, we aim to lead by example and contribute to a more sustainable world.

Each chapter has been aligned to the United Nations’ Sustainable Development Goals (SDGs) to identify how our efforts align with the objectives of the SDGs. Here is a breakdown for each chapter.

Chapter	Aligned SDGs
Chapter 2 Carbon Reduction Targets and Initiatives	SDG 13: Climate Action SDG 7: Affordable and Clean Energy SDG 17: Partnerships for the Goals SDG 3: Good Health and Well-being    
Chapter 3 Green Buildings and Infrastructure	SDG 11: Sustainable Cities and Communities SDG 7: Affordable and Clean Energy SDG 12: Responsible Consumption and Production   
Chapter 4 Water Conservation and Management	SDG 6: Clean Water and Sanitation 
Chapter 5 Waste Management and Recycling	SDG 12: Responsible Consumption and Production SDG 6: Clean Water and Sanitation  
Chapter 6 Biodiversity and Habitat Conservation	SDG 15: Life on Land 
Chapter 7 Sustainable Transportation	SDG 11: Sustainable Cities and Communities 
Chapter 8 Health and Wellbeing Facilities	SDG 3: Good Health and Well-being SDG 4: Quality Education SDG 2: Zero Hunger   
Chapter 9 Diversity, Equity, and Inclusion	SDG 5: Gender Equality SDG 10: Reduced Inequalities SDG 11: Sustainable Cities and Communities SDG 1: No Poverty    
Chapter 10 Education and Research	SDG 4: Quality Education SDG 9: Industry, Innovation and Infrastructure  
Chapter 11 Community Engagement	SDG 11: Sustainable Cities and Communities SDG 4: Quality Education SDG 17: Partnerships for the Goals SDG 1: No Poverty SDG 2: Zero Hunger     
Chapter 12 Industrial Linkages and Outreach	SDG 9: Industry, Innovation and Infrastructure SDG 8: Decent Work and Economic Growth  
Chapter 13 Governance and Institutional Integrity	SDG 16: Peace, Justice, and Strong Institutions 

Chapter 2: Carbon Reduction Targets and Initiatives

SDG Targets



Reducing carbon emissions directly contributes to mitigating climate change.



Increasing efficiency and clean energy use.



Promoting collaboration among leaders to reduce emissions.



Promoting health through environmentally friendly practices.

2.1 University Total Carbon Emissions

Scope	Description	Emissions (Tonnes CO _{2E})
Scope 1	Direct emissions (campus vehicles, boilers, etc.)	1,512 MTeCO ₂
Scope 2	Indirect emissions (purchased electricity)	1,657 MTeCO ₂
Scope 3	Other indirect emissions (commuting, procurement)	19,200 MTeCO ₂

These calculations have been made following GHG Protocol / ISO 14064

2.2 CO₂ Smart Executive Club

The University has started a project to record and report carbon footprint of the region. The project aims towards collaborative efforts to reduce this carbon footprint. The related data is available at <https://co2smart.neduet.edu.pk/>. The website continuously reports current status of carbon reduction contribution in kg.



2.3 Healthy Friday

The University has taken the initiative to declare every Friday as Healthy Friday. It is a vehicle free day, when no vehicle / motorbikes are allowed in the Campus during the day. The employees and the students are encouraged to use bicycles. Prominent figures have joined NED University during healthy Fridays.



Chapter 3: Green Buildings and Infrastructure

SDG Targets



Developing sustainable infrastructure. Promoting eco-friendly building practices.



Promoting renewable energy. Monitoring and optimizing energy use.



Reducing energy consumption.

3.1 Campus Area

Campus Site	Area (sq m)
Main Campus	480,003.91
LEJ Campus	3,688.37
City Campus	9,105.30
Total	492,798



3.2 Solarization of Buildings (Renewable Energy Generation)

So far 936 KW of solar power plants have been installed generating 984,200 units annually, making about 24% of scope 2 CO₂ footprint. The details are as follows.

Locations	Solar (KW)	Units Generated	Amount saved (PKR)	CO2 mitigated (tons equivalent)
Civil Engineering Department	10	13,724	870,102	11
Deans Offices	5	6,862	435,051	5
Abul Kalam Library	100	137,240	8,701,016	109
Electrical Engineering Department	36	49,406	3,132,366	39
Mechanical Engineering Department	70	96,068	6,090,711	77
Textile Engineering Department	100	137,240	8,701,016	109
Biomedical Engineering Department	100	137,240	8,701,016	109
Other	515	406,420	26,103,048	313
Total	936	984,200	36,631,277	774
Percentage of Electricity load shifted on solar				24%

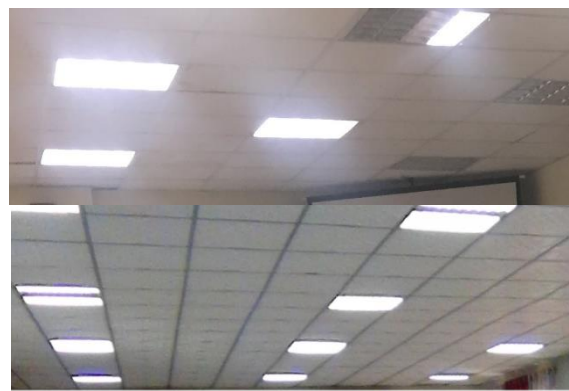


3.3 Energy Efficient Appliances

Energy-efficient appliances are gradually replacing conventional ones. All computer monitors at NEDUET campuses are now energy-efficient LCDs. The lighting is being updated to LED bulbs, and ceiling fans are being modified to consume less electricity by converting them to DC power sources. Smart energy-efficient fans, which use 50% less energy, have also been introduced.

Additional related projects include:

- Li-ion battery fabrication
- Design of charging stations
- High-efficiency motor design
- Vehicle controllers
- Intelligent battery management systems



3.4 Electricity Consumption Details

Electricity consumption detail within the University for the year 2024-25 are as follow.

Location	Units Consumed (kWh) (A1-R tariff)												
	Jul 2023	Aug 2023	Sep 2023	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Total
Staff Colony S/S	110,989	75,515	94,619	91,604	63,626	47,601	40,211	47,742	59,810	96,679	99,344	114,859	942,599
Mech. and Elect. Dept.S/S	44,621	18,218	40,108	33,863	30,184	21,498	18,838	18,977	25,570	26,350	31,383	43,859	353,470
Civil Engg. Dept. S/S	83,956	42,669	75,518	77,652	62,542	50,038	37,192	46,377	56,265	62,736	71,079	102,995	769,018
Student Hostel S/S	77,926	43,853	74,159	55,366	54,796	38,001	36,097	38,346	51,453	53,267	62,830	92,736	678,830
New Mech. Lab.	28,983	9,729	27,315	29,217	17,381	8,577	4,699	5,626	14,858	23,360	18,847	36,690	225,283
New Elect. Lab.	24,182	5,496	23,946	19,632	15,235	10,356	7,006	7,749	11,614	12,451	13,037	21,803	172,505
NED Pump	5,242	5,323	5,040	5,233	3,439	5,368	4,843	5,507	4,985	5,801	5,205	5,810	61,796
City Campus	11,629	4,427	8,487	6,691	9,021	7,230	5,287	5,227	6,775	7,011	7,843	10,850	90,477
LEJ Campus	16,825	6,952	7,000	10,076	8,123	6,246	4,181	5,056	5,449	8,916	5,803	12,328	96,955
NED School	1,007	339	2,118	1,356	1,513	910	538	753	1,261	1,498	734	-	12,026
Admission Centre	26,448	17,817	24,843	24,631	17,261	10,579	7,498	10,150	17,372	21,488	22,623	32,483	233,193
CS and IT	8,688	6,502	8,504	7,458	6,913	5,050	5,327	5,538	5,357	8,007	8,947	9,400	85,690
Petrochemical	21,663	9,134	24,439	20,934	16,590	13,142	10,550	12,494	14,535	19,036	18,897	29,708	211,122
Automotive	13,815	3,693	17,601	10,409	12,482	11,504	9,083	7,491	10,314	15,722	10,788	16,275	139,176
Staff Colony S/S	110,989	75,515	94,619	91,604	63,626	47,601	40,211	47,742	59,810	96,679	99,344	114,859	942,599
Mech. and Elect. Dept.S/S	44,621	18,218	40,108	33,863	30,184	21,498	18,838	18,977	25,570	26,350	31,383	43,859	353,470
Civil Engg. Dept. S/S	83,956	39,740	75,518	72,323	62,542	46,604	37,192	43,195	56,265	58,431	71,079	95,926	742,771
Total Units	715,539	383,140	643,942	591,909	475,458	351,803	287,590	326,948	427,262	543,781	579,168	784,439	4,074,000
Solar Units	46,510	24,904	41,856	41,433	38,036	31,662	28,758	37,598	53,407.79	67,972	75,291	101,977	984,200
Renewable Proportion	6.5%	6.5%	6.5%	7%	8%	9%	10%	11.5%	12.5%	12.5%	13%	13%	20%

3.5 Green Construction and Renovation

Elements of green building implementation as reflected in all construction and renovation policy. Majority of the buildings at the NED University of Engineering and Technology are designed to take maximum advantage of sunlight and coastal winds. The classrooms are especially designed for efficient day lighting and with provision of large windows for cross-ventilation.



Chapter 4: Water Conservation and Management

SDG Targets



Ensuring access to clean water.

Promoting water reuse and efficiency.

Monitoring and reducing water use.

4.1 Water Filtering Units

The two water filtering Units with the capacity of 10,000 gallons per day and 5,000 gallons per day respectively are continuously providing safe and filtered water to the students, employees and the residents of University Staff Colony.



4.2 Waste Water Recycling

As part of a living lab, NED has established a wastewater treatment facility on campus having capacity of 29,000 m³ annually; and gray water treatment facilities at Abul Kalam Library and NED mosque having 2,420 m³ annual processing capacity. Department of Civil Engineering is minimizing water use by installing pipe system for recycle gray water for watering the different gardens in the department.



4.3 Treated Water Generation and Water Consumption Details

Treated Water generation and consumption details within the University for the year 2024-25 are as follows.

Item	Quantity
Total water consumed	39,625,807 Gallons
Total volume of treated water consumed	37,817,000 Gallons
Number of water recycling plants	2
Number of water efficient appliances / plants	---

4.4 Fresh Water Consumption Details

Fresh water consumption details within the University for the year 2024-25 are as follows.

S. No.	Month	Water Connection Size (Diameter) in Inches	Water Quantity in Gallons	Sub-total Water Quantity in Gallons
1	July	3	2,529,648	5,404,608
		8	2,874,960	
2	August	3	2,529,648	5,022,468
		8	2,492,820	
3	September	3	2,529,648	4,584,888
		8	2,055,240	
4	October	3	2,529,648	4,903,668
		8	2,374,020	
5	November	3	2,529,648	5,444,208
		8	2,914,560	
6	December	3	2,529,648	5,497,668
		8	2,968,020	
7	January	3	2,529,648	5,654,088
		8	3,124,440	
8	February	3	2,529,648	5,436,288
		8	2,906,640	
9	March	3	2,529,648	5,281,848
		8	2,752,200	
10	April	3	2,529,648	4,672,008
		8	2,142,360	
11	May	3	2,529,648	5,588,748
		8	3,059,100	
12	June	3	2,529,648	6,032,268
		8	3,502,620	
Total Water Quantity in Gallons				63,522,756

Chapter 5: Waste Management and Recycling

SDG Targets



Minimizing resource use. Efficient waste management.



Protecting water resources through proper waste treatment.

5.1 Sewage Disposal and Inorganic Waste Treatment

Major portion of the wastewater generated at the NED University main campus is aerobically treated at the wastewater treatment facility onsite and is then used for watering plants and vegetation.

The inorganic waste generated at the University is sorted and sorted in the junkyard and is periodically disposed-off via recycling and/or down-cycling.

Organic, inorganic and toxic waste treatment details within the University for the year 2024-25 are as follows.

Item	Quantity
Total volume organic waste produced	360 tonnes
Total volume organic waste treated	20%
Total volume inorganic waste produced	63 tonnes
Total volume inorganic waste treated	53 tonnes
Total volume toxic waste produced	3.5 kg
Total volume toxic waste treated	3.5 kg
Total sewage disposed	850,000+ gallons



5.2 Reducing the Use of Paper in Campus

The University dedicatedly follows the guidelines on the judicious use of paper both by the staff members and the students.

All the customer feedback systems and other data collection processes are completely online, reducing the use of paper in all campuses.

The Green Society of the NEDUET actively promotes the minimal use of paper and plastic products at the campus and in daily lives among the students and the staff members of the University.

Chapter 6: Biodiversity and Habitat Conservation

SDG Targets



Conserving and restoring ecosystems.
 Enhancing biodiversity through tree planting.
 Urban greening initiatives.

6.1 On-Campus Vegetation area

Statistics for forest and planted vegetation area in main campus are as follows.

Item	Area (sq m)
Natural forest vegetation area	12,364
Planted forest vegetation area	28 x 13 = 364
Total planted vegetation area	218497
Total vegetation area	231225
Total main campus area: 492798	492798
Total vegetation area percentage	$(218497 / 492798) \times 100 = 44.34\%$

6.2 Plantation Drives

NED University has 9200+ Trees at Main Campus during the year 2024-25.



6.3 Urban Forest Plantations

First Urban Forest in the University was inaugurated on July 12, 2019. Since then 14 Urban Forests (10 on campus, 4 off-campus) have been planted in different areas of Karachi, providing 1,620 trees. About 12.5 tons of CO₂ emissions have been sequestered in the last two years. As the trees grow, the impact increases. One fully grown Urban Forest of 300 sq. ft. saves about two tons of CO₂ annually. The details of these forests are as under.



Urban Forest Site	Sponsor	Area	No. of Plants	Inauguration Date
Department. of Materials Engineering, NEDUET	Engr. Sohail Bashir Chairman IEP, Karachi Centre	~ 28 m ²	90	12-07-2019
NEDUET Visitors Gate	Col.(R) Zafar Uddin Ahmed CEO Sigma Motors	~ 28 m ²	90	01-03-2020
S.M.S. Agha Khan School	NEDUET Technical Sponsor	~ 48 m ²	154	02-11-2020
Department. of Materials Engineering II, NEDUET	Col.(R) Zafar Uddin Ahmed CEO Sigma Motors	~ 28 m ²	90	25-03-2021
Department. of Materials Engineering III, NEDUET	Col.(R) Zafar Uddin Ahmed CEO Sigma Motors	~ 28 m ²	90	25-03-2021
KMC Abdullah Haroon Road	F M Associates	~ 28 m ²	90	13-04-2021
KMC Shaheed Benazir Bhutto Park	Chotani Group	~ 28 m ²	90	06-11-2021
NED Masjid, NEDUET	HYE Family A NEDAN-NA Project	~ 28 m ²	90	01-04-2022
Abul Kalam Library, NEDUET	NEDA-DC A NEDAN-NA Project	~ 28 m ²	90	08-04-2022
Mech Corner, NEDUET	Nayyar Iqbal Ahmad A NEDAN-NA Project	~ 28 m ²	90	07-04-2022
City Campus, NEDUET	NED Alumni Association – North America	~ 28 m ²	90	08-06-2022
Mech Corner II, NEDUET	NED Alumni Association of Michigan	~ 28 m ²	90	23-11-2022
Cowasjee School, NEDUET	NED Alumni Association – North America	~ 28 m ²	90	23-11-2022
MAJU, Karachi	MAJU	~ 28 m ²	90	30-12-2021

For more information visit <https://co2smart.neduet.edu.pk/e-club/index-urban-forest.html>

Chapter 7: Sustainable Transportation

SDG Targets



Promoting efficient public transport.
Analyzing transport impact.

7.1 Modes of Transport for Mass Transits

NED University has taken substantial measures in implementing sustainable transportation practices. Here's a breakdown of how these measures contribute to sustainability:

- **Shuttles on Subsidized Rates:** By offering shuttles at subsidized rates, the university encourages the use of public transport over personal vehicles. This reduces the number of vehicles on the road, leading to decreased traffic congestion and lower carbon emissions. It makes transportation more affordable for students and staff, promoting inclusivity and accessibility.
- **Small Vehicles for Internal Transport:** Utilizing small vehicles for internal transport helps minimize the carbon footprint within the campus. It offers a convenient way to navigate the campus without relying on personal cars. It reduces emissions and noise pollution on campus, contributing to a cleaner and quieter environment.
- **Restricted Vehicle Access:** Limiting vehicle access to only authorized faculty and staff helps control the number of vehicles on campus. This can lead to reduced emissions and less traffic congestion.
- **Carbon-Free Fridays:** Designating a day when no carbon-emitting vehicles are allowed on campus emphasizes the university's commitment to reducing its carbon footprint and promotes awareness about sustainability practices. This initiative can lead to increased use of bicycles, walking, or public transport on Fridays, encouraging healthier and more sustainable commuting habits.

These strategies are effective ways to promote sustainable transportation and reduce the university's overall environmental impact.



7.2 Statistics on Transportation Usage

Statistics on transportation usage in main campus for the year 2024-25 are as follows.

Item	Quantity
Number of cars actively used and managed by the university	200
Number of cars entering the university daily	≈ 5000
Number of motorcycles entering the university daily	≈ 1000
Number of shuttles operating in the university	20
Average number of students of each shuttle	55
Average number of passengers (students+staff) of each shuttle	72
Total trips of each shuttle services each day	2
Zero Emission Vehicles (ZEV) availability on campus	Yes
Average number of Zero Emission Vehicles on campus per day	2

Chapter 8: Health and Wellbeing Facilities

SDG Targets



Access to health services.
Promoting physical activity.



Supporting holistic education.



Promoting access to affordable meals.

8.1 Medical Facilities

Medical Department is located next to Humanities Department of this University and is administered by Principal Medical Officer, accompanied by two Senior Medical Officers and One Lady Medical Officer, all are posted at main Campus. One male and two female nurses are also present in Main Campus. Medical Sub Centre is located at each LEJ, City Campus and Thar Campus, dispenser is available at LEJ while Female Nurse at City Campus.

There are numerous diagnostic and therapeutic modalities available free of charge for the students and staff at the Main Campus. Emergency/routine Outpatient Department Service (OPD), Pathological, Radiological and Electrocardiographic facilities are also available. Similarly therapeutic support in the form of Airway, Breathing and Circulatory (ABC) assistance are available. Besides that Outpatient facilities are also available at peripheral Medical Sub-Centres, i.e. City and LEJ Campus. However, X-Ray, Pathological Laboratory and Ambulance facility are restricted to Main Campus only.

NED University's Medical Department is committed to ensuring the wellbeing of the University's workforce and students. The following is the list of major facilities provided by the medical department to staff and students.

- Emergency treatment facilities
- Out patient treatment facilities (OPD)
- Diagnostic pathological tests
- Diagnostic radiological tests
- Indoor treatment facilities direct / reimbursement panel system
- Counselling for cognitive assessment, psychological wellbeing, and stress management on a case to case basis
- 24/7 ambulance services
- ECG facility
- Nebulization
- Observation rooms services
- During covid epidemic, the Medical Department provided COVID-19 vaccination services to students/employees and their dependents, with a total of 5,884 individuals vaccinated

The statistics of services provided by the department are as follows.

Treatment	Number of Patients
Students treated in both emergency and out-patient at main campus and the peripheral medical sub-centres at LEJ and City campuses.	708
Employees and their dependents treated in both emergency and out-patient at main campus and the peripheral medical sub-centres at LEJ and City campuses.	2206
Employees and their dependents who received inpatient treatment at both direct panel/enlisted reimbursement hospitals	1349
Candidates for undergraduate programme were examined for issuance of Medical fitness in 2024-25.	2357
Employees were examined for provisional medical fitness at the time of recruitment in 2024-25.	09



Further details are available at https://www.neduet.edu.pk/medical_department.

8.2 Sports Facilities

Sports Section was established at NED University in 1978 that is functioning under the control of Students Affairs Department. The facilities provided by this section are as follows.

- Boy's gymnasium
- Girl's gymnasium
- Squash complex
- Two outdoor basketball courts
- Tennis court
- Table tennis court
- Volleyball court
- Badminton court

- Cricket ground with turf wicket
- Football ground with tartan track
- Fitness centre



The Sports Section also organizes NED Interdepartmental Games and Inter Faculty Games every year for the Student of NED University, while, NED University teams participate in Intervarsity Championships that are scheduled under auspices of Higher Education Commission, Islamabad i.e. (Badminton, Basketball, Cricket, Table Tennis, Football, Volleyball, Squash etc.).

The following sports events were organized by the Sports Section of the Office of Controller of Student Affairs during the year 2024-25:

CRICKET EVENTS

- 15–23 Jan 2024: Participated in Master Oil University Cricket Championship League, Karachi.
- 01–06 May 2024: Organized Night Cricket Tournament for NED Hostellers.
- 11-May 2024: Friendly Night Cricket match with Sri Lankan students.
- 06-Jun 2024: Friendly cricket match against Bahria University.
- 07-Aug 2024: Night cricket match: NED Sri Lankan vs Dow Sri Lankan students.
- 15-19 Oct 2024: Participated in PCB HEC Intervarsity Cricket (Boys) Zone-M Tournament at IBA Karachi.
- 01–02 Jan 2025: Practice matches for HEC Cricket team selection at NED.

- 06 Jan 2025: HEC selection match at Rashid Latif Cricket Ground.
- 08–11 Jan 2025: HEC Cricket vs Eshaal Asst. at National Bank Stadium.
- 14–17 Jan 2025: HEC Cricket vs KRL at NBP Sports Complex.
- 20–23 Jan 2025: HEC Cricket vs Ghani Glass at UBL Sports Complex.
- 26–27 Jan 2025: More HEC practice matches at NED.
- 01–04 Feb 2025: HEC Cricket vs SBP at SBP Sports Complex.
- 07–10 Feb 2025: HEC Cricket vs SNGPL at UBL Sports Complex.
- 13–16 Feb 2025: HEC Cricket vs PTV at KCCA Stadium.
- 19–22 Feb 2025: HEC Cricket vs WAPDA at KCCA Stadium.
- 25–28 Feb 2025: HEC Cricket vs OGDCL at SBP Sports Complex.
- 24-Apr 2025: Friendly cricket match among NED students.

FOOTBALL EVENTS

- 01 Mar 2024: Friendly football match vs Invaders Football Club.
- 20 Apr 2024: Football match vs Sir Syed University.
- 04 May 2024: Match against 16 Stars Football Club.
- 31 May 2024: Football match vs Indus University.
- 09 Nov 2024: Match vs IoBM Football team.
- 17 Nov 2024: Second football match vs IoBM.

VOLLEYBALL EVENTS

- 12-13 Nov 2024: Hosted and participated in Intervarsity Volleyball (Men) Zone-M Championship.
- 22 Nov 2024: Friendly volleyball match vs IoBM Volleyball team.

OTHER SPORTS AND EVENTS

- 25–29 Jan 2024: Referee Refresher Course & National Karate Championship.
- 24 Feb 2024: Ms. Eisha Iffan represented NED at Aitchison Fastest Men & Women Championships.
- 01 Jun–30 Jul 2024: Archery camp for NED students.
- 07 Aug 2024: Independence Day Sports Celebration (Cricket, Athletics, Badminton, Futsal, Tug of War).
- 24 Apr 2025: Basketball match between NED and Bahria University

8.3 Extra and Co-Curricular Activities

Department of Student Affairs Events

- “Youm e Istehsal e Kashmir” Awareness Session held on 5th August 2024.
- 77th Pakistan Independence Day Celebrations on 14th August 2024 including: • Flag Hoisting Ceremony • Independence Day Rally • Declamation • National Song & Theater Play • Sports Competition (Girls & Boys)
- “NED Orientation Programme & Carnival 2024” held on 19th August 2024.
- Anti-Harassment Session with FOSPAH held on 10th September 2024.
- Full Bright & Global UGRAD sessions: 13th Sept, 4th Oct, 12th Nov 2024.
- Higher Studies Sessions (France, Nottingham) in Sept & Oct 2024.
- “RedBull Basement NED Start up Showdown” held on 2nd October 2024. “Pakistan Army’s Selection Criteria & Process” held on 3rd October 2024.
- Educational Visits of Baluchistan University, Habib Girls School, Army College, and others from Oct 2024 to Apr 2025.
- “Revitalization The Message of Pakistaniyat” held on 12th November 2024.
- “How to Build a Startup” held on 11th February 2025.

- “US Universities Fair 2025” held on 18th February 2025.
- “Iftar Party at Governor Sindh” held on 8th March 2025.
- Seminars and Sessions on Inclusive Youth, Extremism, Disability Rights (April 2025).
- “Importance of Vaccines on World Immunization Week 2025” on 28th April 2025.
- “Regional Rounds of Debating Championship” held on 15th April 2025. Cricket Tournament for Youth Awareness held on 26th April 2025.

Literary & Publications Society (LPS)

- “Baad e Naubahar” – Essay Writing, Mazmoon Nigari, Bait Baazi, Poetry & Arts Competitions held on 1st & 3rd July 2024.
- Essay & Art Competition titled “Journey towards a Peaceful and Stable Country” held on 4th September 2024.
- “Zaawiya Season 5 Episode 1” held on 26th September 2024.
- “Huruf o Hunter” held on 19th November 2024.

Photography Society

- “Photohunt x NPS” held on 4th November 2024.

NSA – Notifying Stories Around Society

- “NED Eats Food Stalls & Students Activities” held on 4th July 2024.
- “NED in Focus: A Walk through Lens” held on 24th September 2024.
- “Olympiad 3.0” Sports Event held from 13th to 15th November 2024.

NED Debating Society

- Speaker Session & National Song Competition on “Youn e Defa” held on 5th September 2024

Green Society

- “Stream of Progress Motivation Session” held on 15th October 2024.
- “NED Plantation Drive 2025” held on 14th January 2025.

Girls Affairs Society

- Youth Awareness Programme on “Breast Cancer” held on 23rd October 2024.
- “Lead Her Ship” programme held on 21st November 2024.

The NEDians Forum Society

- “The Enigma Experience” held on 24th October 2024.
- “NED Athletic Demonstration Session” held on 27th January 2025.
- “NED Athletic” Sports Event held on 28th & 29th January 2025.
- Seminar on “Inclusive Pakistan: Disability Rights Accessibility” held on 21st November 2024.

MOSAIC (Artistic & Intellectual Creativity Society)

- “ViRTous Quest 2.0” (Theater & National Song Competition) held on 4th & 5th November 2024.

Youth Empowerment Club

- “Teacher Tribute Day” held on 8th November 2024.
- “Disasters Management” programme held on 18th November 2024.

Blood Donation Drives Organized by Student Affairs Department

- “The Enigma Experience” held on 24th October 2024.
- “NED Athletic Demonstration Session” held on 27th January 2025.
- “NED Athletic” Sports Event held on 28th & 29th January 2025.

- Seminar on “Inclusive Pakistan: Disability Rights Accessibility” held on 21st November 2024.

For more information visit https://www.neduet.edu.pk/students_affairs.

TECHNICAL SOCIETIES

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) NED Student Branch

- 2nd October 2024: Back to Future by Timothy Wentz, Past-President ASHRAE International.
- 3rd October 2024: Inauguration of Anwar Saadat RAC Lab by Dennis Knight, President ASHRAE International.
- 17th February 2025: Explore the power of a scientific calculator - NEDUET Student Branch.
- 7th May 2025: Cooling Load Calculation via Computational Tools - Dr. Haider Ali, Associate Professor, Department of Mechanical Engineering.

American Concrete Institute (ACI) NED Student Chapter

- 1st November 2024: Beadbox - Lightweight concrete cube casting event for civil students.
- 25th April 2025: Flexstasy - Bendable concrete beam casting event highlighting ductility.
- 19th April 2025: Site Visit to Bahria Town - Explored mosque, stadium, and STP for architectural and environmental learning.
- 10th April 2025: RE³ Workshop - Guided students on research methodology, writing, and analysis.
- 18th March 2025: Marketing Workshop - Online session on professional marketing skills.
- 9th February 2025: CIVIL SOFTVERSE Launch - Free learning platform for Revit and ETABS; two batches completed.
- 14th March 2025: Ramadan Charity Drive - for TCF to support underprivileged children.
- 19th February 2025: Humans of Civil - Online series featuring civil department personalities.
- 18th–23rd March 2025: Concrete Trivia - Quiz competition testing student knowledge on concrete.
- 5–6th February 2025: Green Construction Conference - ACI NEDUET members volunteered for global sustainability event.
- 15–16th November 2024: 14th ICEC Volunteering - Assisted in organizing international civil engineering conference.
- 15th November 2024: NSA Sports Olympiad Victory - ACI NEDUET won the all-university sports competition.

Institute of Mechanical Engineering IMechE NED Student Chapter

- 6th June 2024: Photography Challenge'24 - Students showcased photography skills.
- 13th June 2024: Abul Kalam Design Challenge AKDC'24 - National event with 14 teams showcasing engineering skills.
- 11th August 2024: Propellair'24 - National RC airplane design and flying competition with 19 teams.
- 25th September 2024: Induction Ceremony - Welcomed new members for the 2023-2024 tenure.
- 25th October 2024: Speak Out for Engineering Nationals'24 - Umme Aiman from IMechE NED emerged as the winner.
- 11th November 2024: Mechathon 9.0 - Flagship event with 128 teams competing across four modules.
- 3rd February 2025: Speak Out for Engineering SOFE'25 - Students articulated ideas on pressing engineering topics.
- 28th April 2025: Photography Challenge'25 - Students displayed creative skills through captivating images.

American Association of Textile Chemists and Colourists AATCC NED Chapter

- 6th July 2024: Annual Retreat 2024 - Well-being retreat at a scenic farmhouse.
- 24–25th August 2024: 9th Color & Chem Expo Participation - Managed AATCC Pakistan Section booth in Lahore.
- 22nd October 2024: Induction Event - Welcomed new members and introduced plans for activities.
- 12th November 2024: Midas Safety Event 2024 - Career event on industry trends and sustainability.
- 13–15th November 2024: Olympiad 4.0 Participation - Won Girls' Sprint and placed in Boys' Table Tennis.
- 12th November 2024: Hassan Ali Khatri's Achievement - Won 3rd place in AATCC Graduate Paper Competition (USA).
- 10th February 2025: Sustainability in Textile Seminar - Sessions on circular fashion and eco-innovation.
- 26th January 2025: Visit to GTex Exhibition - Explored modern textile machinery at Expo Centre, Karachi.
- 21st February 2025: Visit to Indus Motor Company - Observed Toyota production/assembly plant.
- 28th April 2025: Textile Printing Competition - Students displayed diverse printing techniques.
- 30th April 2025: AATCC Career Seminar - Over 200 students explored career options and industry expectations.
- 5th May 2025: NEDUET Alumni Insight - Alumnus Mr. Arif Zaffar Mansuri shared career guidance tips.
- 7th May 2025: Environmental Sustainability Competition - Students showcased eco-friendly projects.

AIChE NED Chapter

- 30th August 2024: Freshers Fest - Ice-breaking event with Scavenger Hunt and Trivia Competition.
- 27th September 2024: Induction Ceremony - Held at Mechanical AV Hall for new members.
- 26th October 2024: Bazm-e-Chemies - Welcome party for members.
- 5th November 2024: Seminar on "Shaping the Future of Chemical Engineers" - Collaborated with ACS NEDUET.
- 20th November 2024: Team Shoots - Professional photoshoot for the student body.
- 18–19th December 2024: Volunteered at ICAMPE 2024 - 4th International Conference on Advanced Materials.
- 17th and 24th January 2025: Industrial Visits to Lucky Core Industries.
- March 2025: Ramadan Donation Drive - Raised over PKR 200,000 for TCF with ACI NEDUET and SPE NEDUET.
- 18th March 2025: Industrial Marketing Workshop - Collaborated with ACI NEDUET and ITE NEDUET.
- Ramadan 2025: Launched "Catalyst Connect" - Alumni network for Chemical Engineering Department.
- 16–18th April 2025: ChemE Nexus - 3-module technical event with safety training and refinery simulation.
- 7th May 2025: Research Workshop - Part of Chemical Symposium 2.0 with Dr. Bilal Kazmi (University of Karachi).

NED Chapter of the American Society of Mechanical Engineering (ASME)

- 26th September 2024: Induction Ceremony - Included session by Ms. Arooba Afridi.
- 3rd October 2024: Orientation Ceremony.
- 14th October 2024: Informative session on medical hazards for women with Dr. Hina Andani and Dr. Rabia Naz.
- 16th October 2024: Visit to Alsons Industries and GTR (Ghandhara Tyre).
- 31st October 2024: Ignite 9.0 Orientation and Amal Academy Information Session.
- 1st November 2024: Session by Ms. Sheema Ghani on 'Role of Women in Transforming Public Services'.

- 4–6th November 2024: Ignite 9.0 - Flagship event at NED Main Campus.
- 21st January 2025: Visit to Atlas Honda.
- 28th January 2025: Visit to Dawlance Pvt Ltd.
- 12th March 2025: Online talk with Ms. Aiman Shafique on EV industry.
- 2024-2025: Won 'Student Section Achievement Award' and 'Distinguished Student Section Award' (Asia Pacific).

IEEE Power and Energy Society Student Branch NED

- 10th September 2024: Visit to KE Bin Qasim Power Station II (BQPS-II).
- 11–13th February 2025: Electrovision-25 - Mega event with competitions and networking opportunities.
- 23rd January 2025: Industrial visit to KE CCPP Bin Qasim Power Station (BQPS-II and BQPS-III).
- 21st October 2024: Industrial visit to K-Electric (Gulshan-e-Iqbal Grid station).
- 16th October 2024: Seminar on "Introduction to Substations & Networking-Career Guidance" by Mr. Kashif Shamshad (MAK POWER).

8.4 Affordable and Nutritious Food

In support of SDG 2 (Zero Hunger), the university ensures access to affordable and nutritious food through several canteens offering hygienic meals at subsidized rates. Additionally, a dedicated canteen with lower prices is available for hostel students, ensuring food security for those residing on campus. Regular hygiene and quality audits are conducted to maintain high standards of food safety.

Chapter 9: Diversity, Equity and Inclusion

SDG Targets



Ensuring equal opportunities.
Supporting work-life balance.



Promoting inclusivity.



Promoting pedestrian-friendly infrastructure.



Providing access to education for economically disadvantaged students.

9.1 Gender Equality

The University always strives to provide equal facilities to all genders. Some supporting statistics are given in the following.

9.1.1 Students

The following are the gender-wise student statistics for admissions, enrollment and graduation, for the year 2024-25.

		Male	Female	Total
Applications	Undergraduate Programmes	7074	4368 (38%)	11442
	Masters Programmes	1308	495 (27%)	1803
	PhD Programmes	47	39 (45%)	86
	Total Applicants	8429	4902 (37%)	13331
Admissions	Undergraduate Programmes	1329	1199 (47%)	2528
	Masters Programmes	754	308 (29%)	1062
	PhD Programmes	14	15 (52%)	29
	Total Applicants	2097	1522 (42%)	3619
Enrollment	Undergraduate Programmes	4806	4308 (47%)	9114
	Enrolment in TIEST	91	43 (32%)	134
	Masters Programmes	1524	628 (29%)	2152
	PhD Programmes	106	83 (44%)	189
	Total Applicants	6527	5062 (44%)	11589
Graduation	Undergraduate Programmes	1172	906 (44%)	2078
	Masters Programmes	640	276 (30%)	916
	PhD Programmes	14	07 (33%)	21
	Total Applicants	1826	1189 (40%)	3015

Scholarships and financial assistance is also provided equally to all genders. Further details are discussed in section 9.4.

9.1.2 Faculty and Staff

The University provides equal teaching, research and administrative opportunities to everyone irrespective of the gender. Gender-wise employment statistics for teaching departments are given below. The administrative posts include Chairperson, Co-Chairperson, and Postgraduate Coordinator.

Department Name	Teaching Staff (Number)				Non-teaching Staff (Number)		
	Total	Male	Female	Female holding Administrative Post	Total	Male	Female
Civil Engineering	45	29	16	--	49	42	7
Urban and Infrastructure Engineering	13	6	7	--	22	22	--
Petroleum Engineering	14	13	1	--	16	16	--
Earthquake Engineering	2	2		--	13	10	3
Environmental Engineering	4	3	1	--	18	18	--
Electrical Engineering	44	29	15	--	55	54	1
Electronic Engineering	25	10	15	--	35	34	1
Telecommunications Engineering	15	6	9	--	15	15	--
Computer and Information Systems Engineering	30	14	16	--	45	40	5
Bio-Medical Engineering	17	10	7	--	26	24	2
Computer Science and Information Technology	21	12	9	--	29	27	2
Software Engineering	16	5	11	2	0	--	--
Mechanical Engineering	54	49	5	--	65	65	--
Industrial and Manufacturing Engineering	23	15	8	--	40	38	2
Textile Engineering	21	10	11	--	40	34	6
Automotive and Marine Engineering	8	7	1	--	29	27	2
Chemical Engineering	19	16	3	--	23	19	4
Polymer and Petrochemical Engineering	8	4	4	--	18	17	1
Materials Engineering	10	9	1	--	29	28	1
Metallurgical Engineering	14	11	3	--	34	32	2
Food Engineering	9	5	4	1	11	10	1
Architecture and Planning	25	6	19	1	24	22	2
Economics and Management Sciences	16	11	5	--	7	7	--
Physics	16	10	6	--	10	10	--
Chemistry	13	2	11	1	10	9	1
Mathematics	29	19	10	--	8	8	--
English Linguistics and Allied Studies	14	2	12	1	7	6	1
Essential Studies	6	4	2	--	3	3	--
Civil Engineering [TIEST]	8	7	1	--	4	4	--
Computer Science and Technology [TIEST]	9	8	1	--	0	--	--
Total	548	334	214	6	685	641	44

Likewise, gender-wise employment statistics for administrative departments and research centres are given below. Administrative posts include Vice Chancellor, Pro-Vice Chancellor, Registrar, Deputy Registrar, Director, and Deputy Director.

Department Name	Total Employees	Male	Female	Female holding administrative Post
VC Secretariat	10	10	--	--
P.V.C Secretariat	6	6	--	--
Dean Office (Faculty of Civil and Petroleum Engineering)	4	4	--	--
Dean Office (Faculty of Mechanical and Manufacturing Engineering)	4	4	--	--
Dean Office (Faculty of Electrical and Computer Engineering)	5	5	--	--
Dean Office (Faculty of Information Sciences and Humanities)	4	4	--	--
Dean Office (Faculty of Chemical and Process Engineering)	7	7	--	--
Dean Office (Faculty of Architecture and Management Sciences)	5	5	--	--
Registrar Office	218	213	5	--
Finance	45	40	5	--
Examination	52	47	5	--
Works and Services	226	214	12	--
Information Technology (IT Department)	40	6	34	--
Student Affairs	35	28	7	--
Industrial Liaison	8	8	--	--
Advanced Studies Research Board (ASRB)	4	4	--	--
Quality Management Cell (QMC) / Quality Enhancement Cell (QEC)	5	5	--	--
Medical Department	20	16	4	1
Audit Department	8	8	--	--
Office of Research, Innovation and Commercialization (ORIC)	4	3	1	--
Procurement Cell	16	16	--	--
Planning and Development	13	13	--	--
Engr. Abul Kalam Library	54	41	13	1
MR ISO Office	11	11	--	--
NED Academy	5	5	--	--
University Advancement and Financial Assistance (UAFA)	4	4	--	--
Planning and Projects	3	3	--	--
Project Directorate Mega IV	1	1	--	--
Project Directorate Mega V	1	1	--	--
Thar Institute of Engineering, Sciences and Technology	32	31	1	--
National Center for Artificial Intelligence (NCAI) - Neuro-Computation Lab	38	26	12	--

National Center for Artificial Intelligence (NCAI) - Smart City Lab	2	1	1	--
National Center for Cyber Security (NCCS)	4	4	--	--
National Center in Big Data and Cloud Computing (NCBC)	16	12	4	--
National Center for Robotics and Automation (NCRA)	2	2	--	--
High Performance Computing Centre	5	5	--	--
Instrumentation Centre	5	5	--	--
NED University Virtual Reality Center	5	1	4	--
Panjwani - Hissar Water Institute	2	1	1	--
Sultan Qaboos Oman I.T. Chair	1	1	--	--
Total	930	821	109	2

Similarly, significant representation of females can be seen in the following position-wise employee statistics.

Position	Male	Female	Total
Professors	41	04 (9%)	45
Associate Professors	34	16 (32%)	50
Assistant Professors	137	77 (36%)	214
Lecturers	106	104 (50%)	210
Research Staff	84	59 (41%)	143
PhD Faculty	178	66 (27%)	244
PhD Enrolled Faculty	31	11 (26%)	42
Number of visiting faculty members at UG and PG	---	---	518

9.2 Ethnic and Religious Equality

9.2.1 Students

The University does not discriminate admissions on the basis of religion. All students who meet the merit criteria are eligible for admission, irrespective of caste, creed or religion. Religion-wise statistics of the students admitted in batches from 2019 till 2023 are as follows. The table also shows the number of foreign national students admitted in the University in the same batches.

Batch	Non-Muslims	Foreign Nationals
2019	38	10
2020	20	5
2021	19	17
2022	21	18
2023	19	55
2024	90	57

Major number of seats are reserved for the local students of home-city Karachi, however sufficient proportion of seats is kept for other ethnicities as well. The details of the distribution of seats can be found in the University Undergraduate Prospectus available at

https://www.neduet.edu.pk/sites/default/files/Admissions-2023/UGProspectus_2023.pdf.

9.2.2 Faculty and Staff

The University provides equal employment opportunities including teaching, research and administrative positions to everyone who is eligible for the post on merit. The religion-wise statistics for the faculty are as follows.

Department Name	Teaching Staff (Number)		Non-teaching Staff (Number)
	Non-Muslims	Foreign Nationals	Non-Muslims
Department of Civil Engineering	--	2	--
Department of Petroleum Engineering	--	1	--
Department of Electrical Engineering	1	--	--
Department of Electronic Engineering	--	--	1
Department of Computer and Information Systems Engineering	--	--	1
Department of Computer Science and Information Technology	--	--	1
Department of Mechanical Engineering	--	1	--
Department of Architecture and Planning	1	--	--
Department of Chemistry	--	--	1
Department of Mathematics	--	--	--
Department of Civil Engineering [TIEST]	--	--	1
Department of Computer Science and Technology [TIEST]	3	--	--
Total	5	4	5

Likewise, the religion-wise statistics for the staff of administrative departments and research centres are as follows.

Department Name	Total Non-Muslim Employees
Registrar Office	1
Examination	1
Works and Services	31
Information Technology (IT Department)	1
Student Affairs	2
Thar Institute of Engineering, Sciences and Technology	5
Total	41

9.3 Inclusion for Minorities, Differently-abled Persons and Other Boards Through Fixed Distribution of Seats

In Under graduate admissions, although the majority of admission seats are reserved for the mainstream Board of Intermediate Education Karachi, some seats are allocated for other boards and quotas to represent students from cities and categories. Additionally, the university has introduced reserved seats for religious

minorities and differently-abled persons in departments where accommodation is feasible, promoting the notion of inclusion. The summary of these reserved seats is as follows.

Category	Number of Seats	
	Regular Scheme	Self-Finance Scheme
HSC from Board of Intermediate Education, Karachi	1533	215
Differently-abled Person	12	--
Religious Minorities	37	--
HSc from Other Boards	315	116
A-Level	156	87
Other Equivalent Boards	42	9
Rural Areas of City Division Karachi HSC from Board of Intermediate Education, Karachi	6	--
Real Son/Daughter of NED University Teachers and Staff	69	--
Nominees of Dinshaw Family	4	4
Nominees of LEJ Foundation, UET Lahore/Taxila, UET Peshawar	12	--
Nominees of Government of Balochistan, FATA, Government of Kashmir, Government of Gilgit Baltistan, Indian Occupied Kashmir (IOK)	44	--
Outstanding Sportsmen	4	--
Nominees of Ministry of Education Govt. of Pakistan	1	--
Nominees of Armed Forces and Rangers	16	--
Equivalent Boards located outside Pakistan		17
Foreign Candidates	5	14
Real Sons and daughters of NEDAN Life Members, Professional Engineers, Professional Architect and Town Planners	--	21
Others	--	177
Total	2256	660

Department-wise distributions can be found in the Undergraduate Prospectus available at

<https://www.neduet.edu.pk/admission>.

For post-graduate admission, the admissions are open to all those candidates who fulfil the prerequisites for the admission. Details can be found in the Postgraduate Prospectus available at

https://www.neduet.edu.pk/postgraduate_admissions.

Current status of enrollment for differently-abled persons is as follows.

Level	Number of Students	Programme
Undergraduate	1	Bachelor of Science - Computer Science, Specialization in Artificial Intelligence
	1	Bachelor of Science - Computer Science, Specialization in Data Science
	1	Bachelor of Science - Computer Science, Specialization in Cyber Security
Postgraduate	1	Master of Science - Computer Science and Information Technology

9.4 Financial Aid and Scholarships

Aligned with our commitment to SDG 1 (No Poverty), the university provides scholarships and financial assistance to help reduce financial barriers to education, ensuring equal opportunities for all students regardless of economic background. This year, a total of 12228 scholarships were awarded, amounting to over Rs. 378 million, benefiting students from underprivileged backgrounds. These efforts play a vital role in alleviating poverty by enabling access to quality education. Statistics for the year 2024-25 are given below.

	Male	Female	Total	Amount (PKR)
Private Funded	570	598	1168	101,875,994
Maa Jee Scholarship	125	175	300	26,851,473
Ehsaas Programme	52	54	106	14,840,000
HEC Scholarship	56	100	156	2,500,000
Zakat and Ushr	54	64	118	12,600,000
Sindh HEC	12	13	25	5,750,000
Admission Support (Financial Assistance)	50	57	107	4,423,447
Semester Support (Financial Assistance)	09	10	19	784,171
Duty Society	368	205	573	12,859,243
NED University Undergraduate Fellowship Programme	5070	4432	9502	186,838,848
PhD Fellowships	154			9,240,000
Total	12228 students			378,563,176

9.5 Pedestrian Path Policy on Campus

As per the pedestrian path policy of the University, the following facilities are provided to the faculty, staff and students including the disabled.

- Railings and supports
- Street lamps for pedestrian in night
- Ramps and guiding blocks which have suitable design for pedestrian having physical disabilities

9.6 Daycare Centre

A 'Daycare Centre' is facilitating the female university employees. The University has recently approved Rs. 5 million for construction of an additional block for the Centre; its stone laying Ceremony was held in December 2019 by Justice (Rtd.) Nasira Iqbal.



Chapter 10: Education and Research

SDG Targets



Delivering impactful education and research.
 Demonstrating research excellence.
 Highlighting research contributions.



Advancing research and innovation.

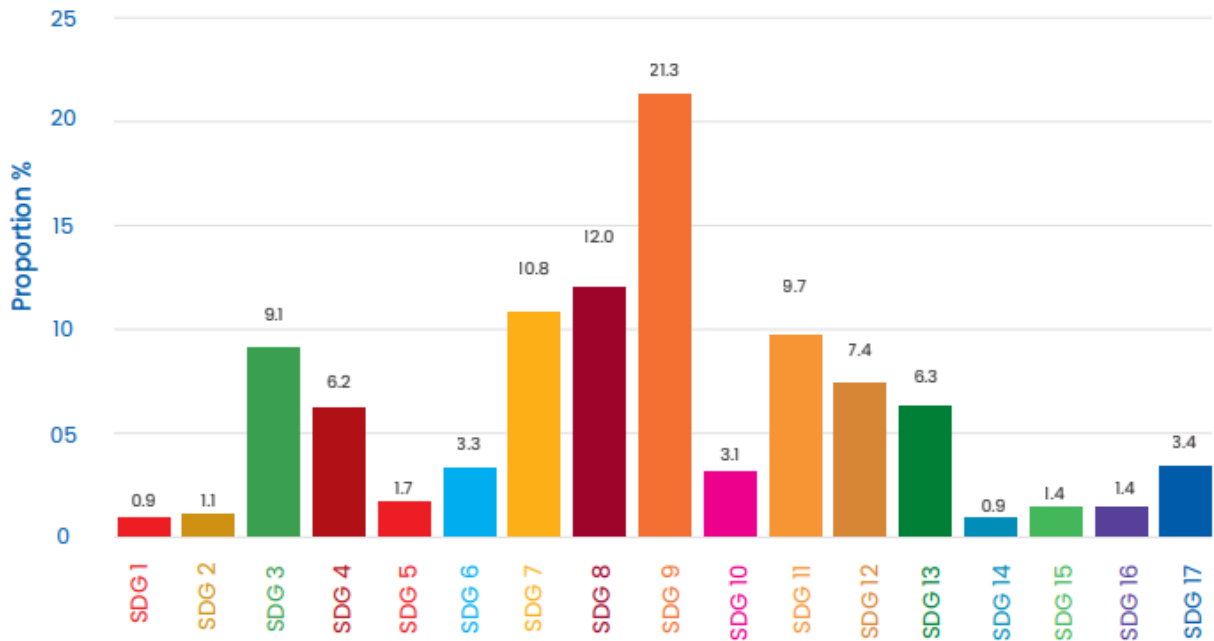
10.1 University Impact

NED University has demonstrated a strong commitment to promoting sustainable development through its academic and research activities. By mapping seven key components, NED University has identified areas where it can contribute to achieving the United Nations Sustainable Development Goals (SDGs). Through these efforts, NED University is making a significant impact towards creating a more sustainable future and promoting global progress towards achieving the SDGs. The seven components mapping 3742 activities with 5430 instances across 17 SDGs are as follows.

- Undergraduate courses
- Postgraduate courses
- Undergraduate projects (Final year design projects)
- Postgraduate projects / thesis
- Externally funded research projects
- University events
- Research Publications



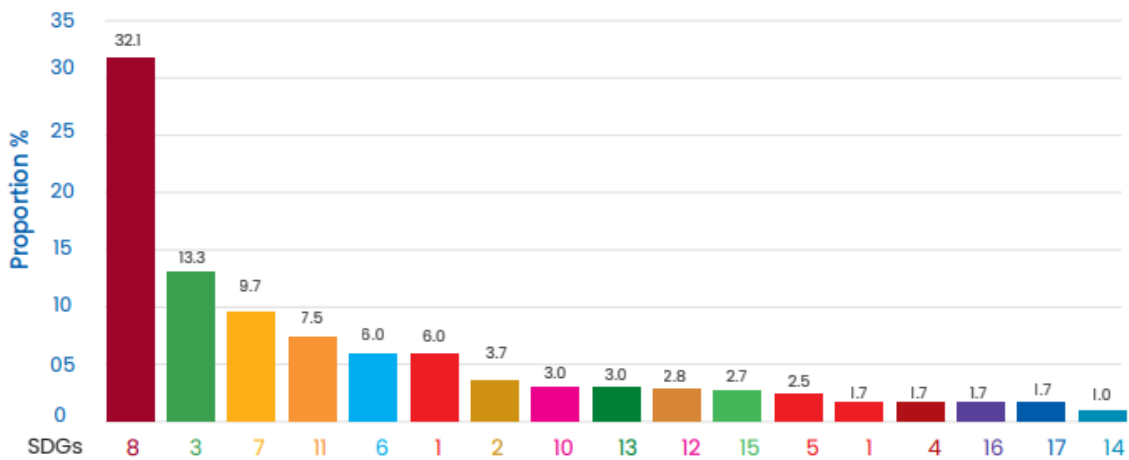
10.1.1 Overall SDG Mapping of Impact Components



10.1.2 Undergraduate Courses

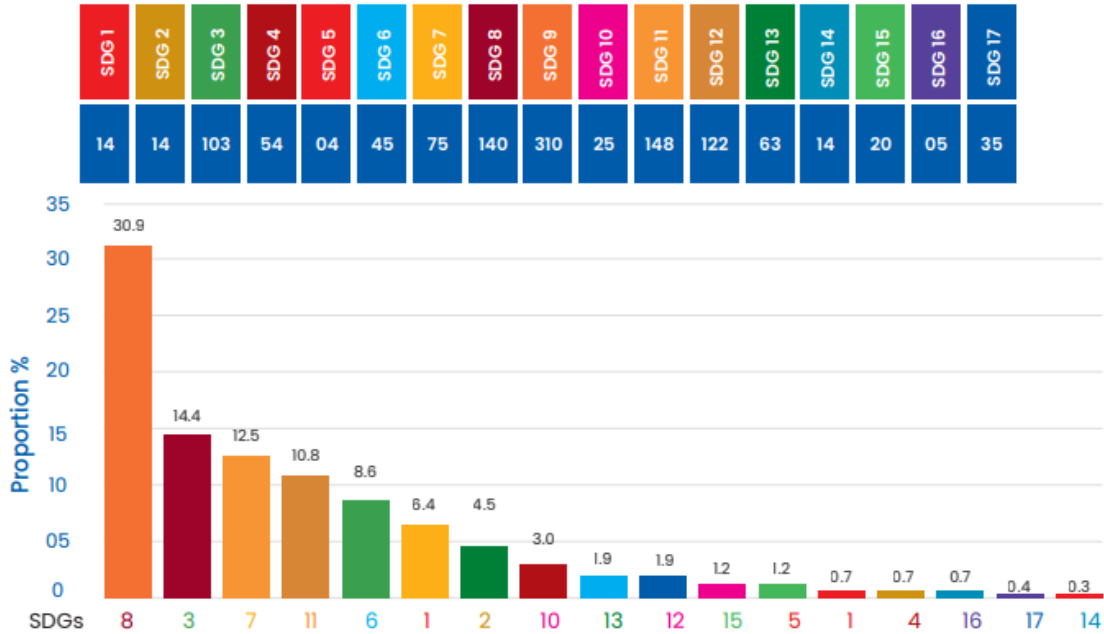
During year 2023 and 2024, 812 courses at undergraduate level were offered. There were 1,494 mapping instances on SDGs. The following table shows the numerical mapping while the proportions are visualized below.

SDG	Count
SDG1	25
SDG2	55
SDG3	198
SDG4	25
SDG5	37
SDG6	90
SDG7	145
SDG8	480
SDG9	90
SDG10	45
SDG11	112
SDG12	42
SDG13	45
SDG14	15
SDG15	40
SDG16	25
SDG17	25



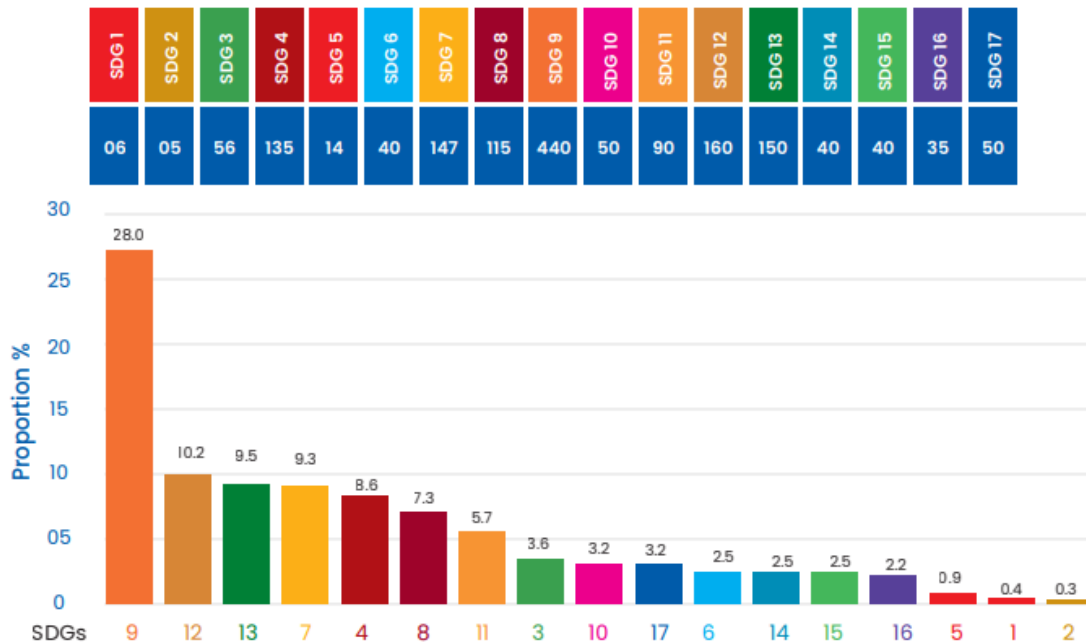
10.1.3 Final Year Design Projects

561 Final year design projects (FYDP) were carried out at undergraduate level during year 2023 and 2024. There were 1,191 mapping instances on SDGs. The following table shows the numerical mapping while the proportions are visualized below.



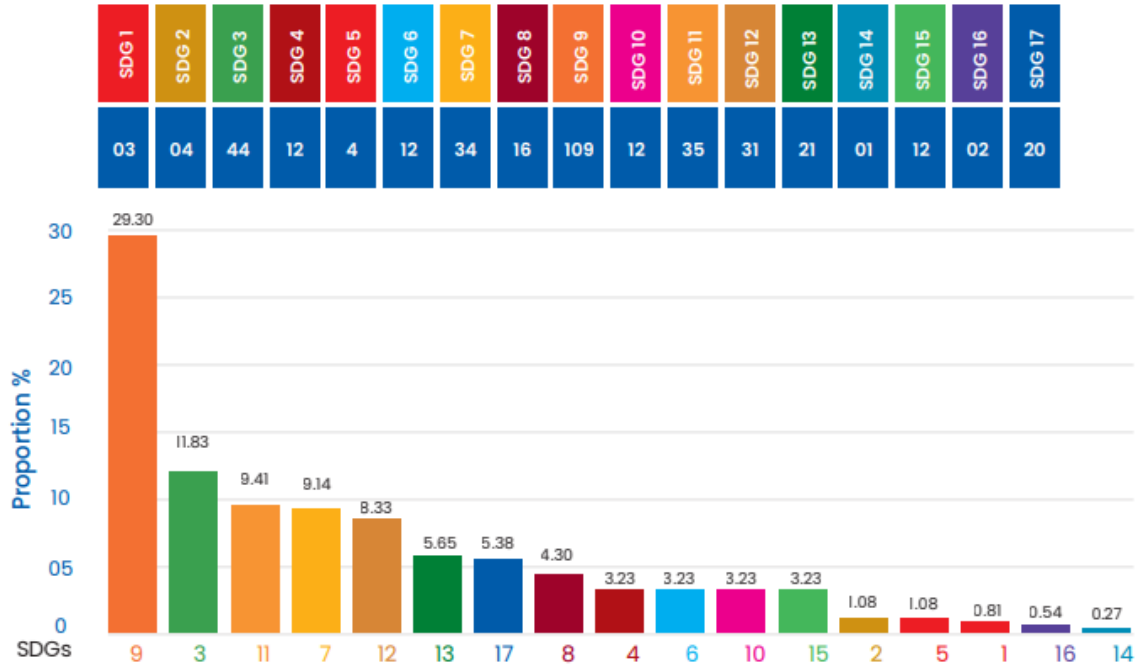
10.1.4 Postgraduate Courses

During year 2023 and 2024, 513 postgraduate courses were taught at the master level. There were 1,573 mapping instances on SDGs. The following table shows the numerical mapping while the proportions are visualized below.



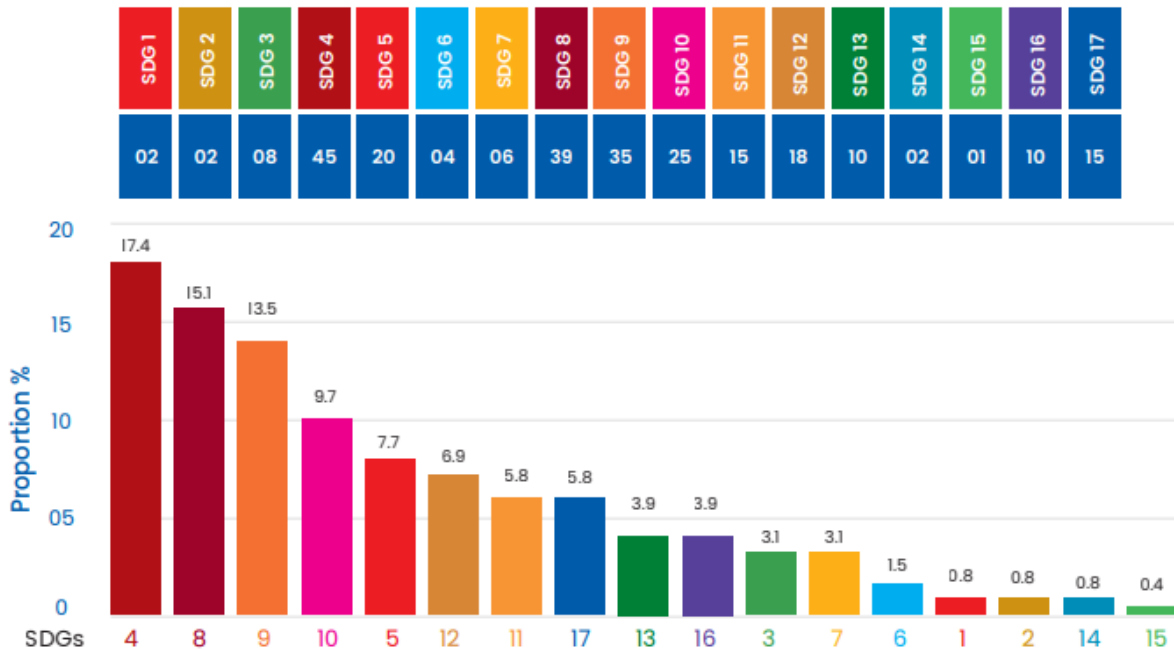
10.1.5 Masters Thesis

145 masters projects theses were undertaken during the year 2024-25. There were 372 mapping instances on SDGs. The following table shows the numerical mapping while the proportions are visualized below.



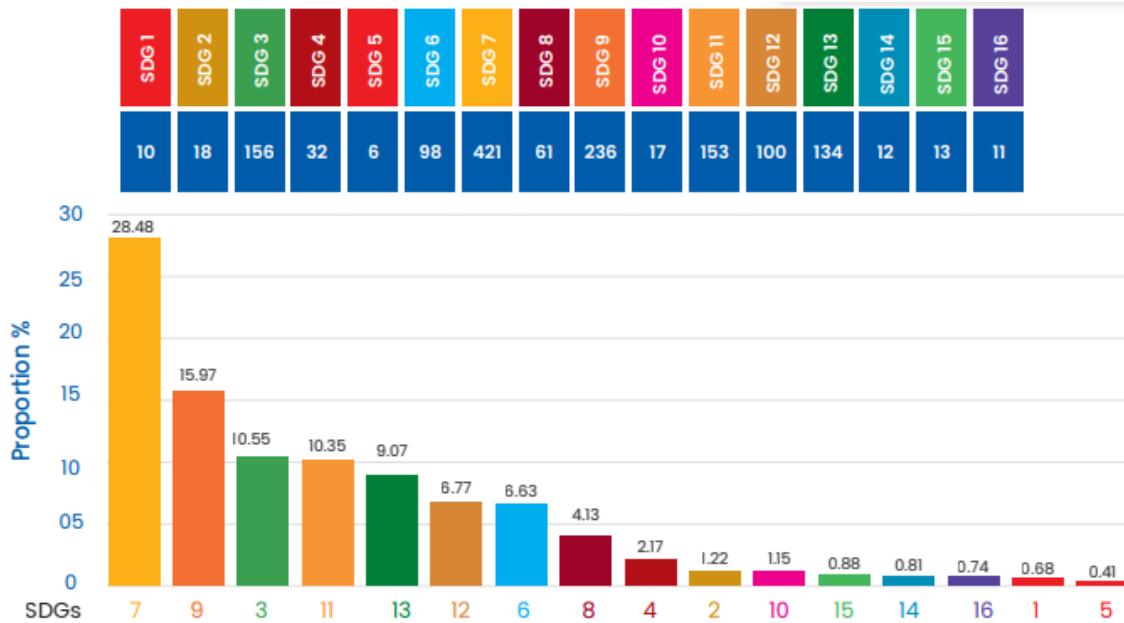
10.1.6 University Conferences, Seminars and Workshops

During year 2023 and 2024, 121 activities including international conferences, seminars, workshops and other co- and extra-curricular activities were held across NED University campuses. These activities had 259 SDG mapping instances. The following table shows the numerical mapping while the proportions are visualized below:



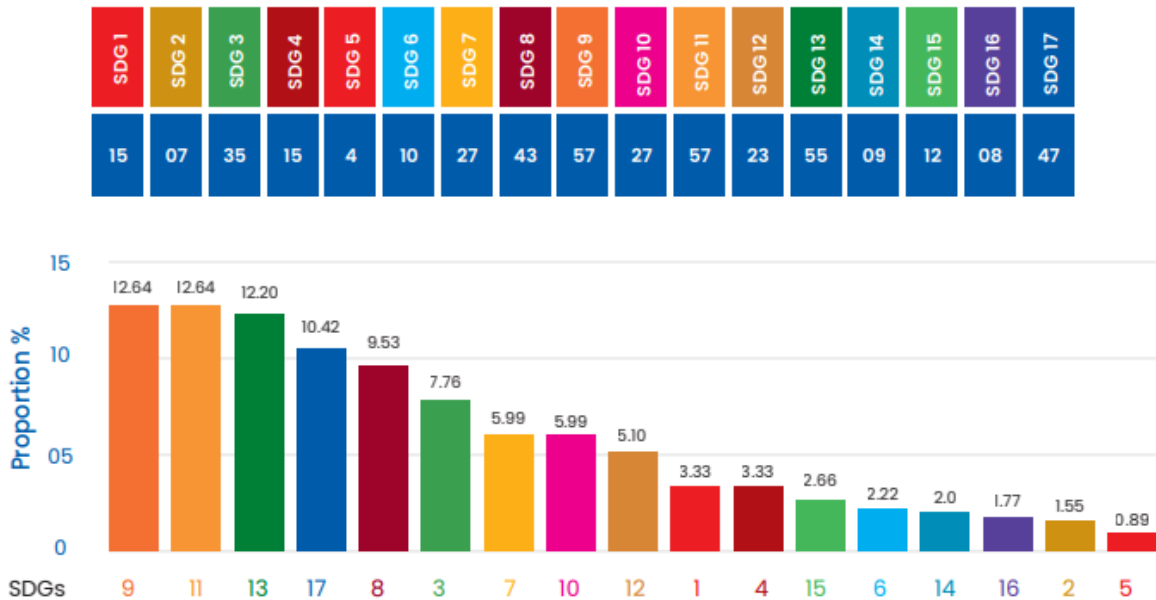
10.1.7 Research Publications

Mapping of NED University research publications across 1-16 sustainable development goals (SDGs) as per data provided by Scopus over the last five years is presented here. There were 1478 publications mapping onto SDGs with over 8,000 citations. The following table shows the numerical mapping while the proportions are visualized below:



10.1.8 Externally Funded Research Projects

During year 2024-25, 112 externally funded projects were being actively pursued by faculty members. There were 451 mapping instances of these projects on SDGs. The following table shows the numerical mapping while the proportions are visualized below:



10.2 Research Statistics

Research statistics for the year 2024-25 are as follows.

Research Centers	31
Ongoing Projects	233
Research Funding	Rs. 1.97 Billion
Research Publications	1478
Research Staff	143
International Conferences Held	13
Patents Granted	2
Patents Filed	15
Patents in Process	6
International Conferences Held	13

10.3 Research Journals

- **NED University Journal of Research** - Since 2013, the journal is published biannually in two sections, namely Structural Mechanics and Applied Sciences. The primary aim of this journal is to provide an international forum for the dissemination of research and new developments and their applications in engineering and technology. NED University of Journal of Research is a Scopus indexed Journal recognized and listed in HEC's HJRS database. The Journal is also indexed by several other indexing services.
- **Journal of Research in Architecture and Planning (JRAP)** – Focusing on research works relevant to the fields of architecture and planning, this journal explores issues of relevance to both scholars and practitioners. JRAP was initiated in 2000 and is a peer reviewed journal published biannually since 2011. The Journal is also recognized and listed in HEC's HJRS database.
- **Journal of Social Sciences and Interdisciplinary Research (JSSIR)** - Refereed, bi- annual journal. The journal acts as a forum for social scientists and researchers to investigate and discuss issues confronting societies both local and global. All the submitted manuscripts are multiple peer reviewed.

10.4 Research Centres

Currently a total of 31 research centres are working the University. These are listed as follows.

1. Advanced Traffic Lab for Analytics And Simulation (ATLAS), <https://atlas.neduet.edu.pk/>.
2. Centre for Affordable Housing And Sustainable Built Environment (CAHSBE), <https://cahsbe.neduet.edu.pk>.
3. Centre for Advanced Studies In Renewable Energy (ASURE), <https://asure.neduet.edu.pk/>.
4. Norwegian Centre of Petroleum Studies
5. Advanced Material Testing Lab
6. Panjwani Hisaar Water Institute
7. Cowasjee Earthquake Study Centre, <https://eqd.neduet.edu.pk/CESNED>.
8. Product Development Centre
9. Centre for Quantum Technologies
10. Smart City Lab, National Centre for Artificial Intelligence (NCAI), <https://ncai.neduet.edu.pk/>.
11. Neuro Computation Lab Lab, National Centre for Artificial Intelligence (NCAI),

- <https://ncai.neduet.edu.pk/>.
12. National Centre for Data Analytics and Cloud Computing (NCBC), <https://ncbc.neduet.edu.pk/>.
 13. National Centre for Cyber Security (NCCS) <https://nccs.neduet.edu.pk/>.
 14. National Centre for Robotics and Automations (NCRA), <https://ncra.neduet.edu.pk/>.
 15. National Incubation Centre
 16. Instrumentation Centre (IC), <https://ic.neduet.edu.pk/>.
 17. High Performance Computing Centre (HPCC), <https://hpcc.neduet.edu.pk/>.
 18. NED University Virtual Reality Centre (VR Centre), <https://vrc.neduet.edu.pk/>.
 19. Heritage Cell, https://www.neduet.edu.pk/arch_planning/Heritage/webpages/heritage.html#ad-image-1
 20. Asma M. Hashmi Stem Centre
 21. Centre for Gaming and Animation
 22. Electronic Design Centre (EDC), <https://edc.neduet.edu.pk/>.
 23. K Electric Lab
 24. Centre for Software Research and Development (CSRSD), <https://csrd.neduet.edu.pk/>.
 25. DICE Energy Innovation Centre, <https://dice.neduet.edu.pk/>.
 26. Building Information Modeling Centre (BIM)
 27. Centre for Nano Technologies
 28. Centre for Gaming and Animation
 29. Centre for Environment and Social Sustainability
 30. Siemens Innovation Centre
 31. Centre of Islamic Finance and FinTech

Chapter 11: Community Engagement

SDG Targets



Encouraging civic responsibility.



Promoting educational initiatives.



Strengthening alumni networks.



Addressing poverty in the community.



Addressing food insecurity in the community.

11.1 Extending Community Service Through Students

NED University has been one of the pioneer universities among higher educational institutes of Pakistan which has introduced community service course as mandatory in all undergraduates' programmes since 2017. The basic philosophy is to inculcate following spirit among the students:

- To create a sense of social service, owing and contribution to communities around them
- To creating bonding with the communities being served
- To create enhanced social awareness and responsibility
- To develop civic and social responsibility
- Help to develop interpersonal, teamwork and leadership skills in students.

University's community service programme covers both on and off campus activities. Some of them are highlighted below:

On-Campus Services

- Sorting of Books at Circulation Library
- Plantation at Campus
- Paper Recycling
- Organizing Laboratories
- Maintenance activities at Mosque
- Active participation in volunteering during conferences, seminars and others events

Off Campus Services

- Plantation at Public Sector Schools
- Plantation at Parks, Gardens and Public Places
- Maintenance at Public Sector Schools
- Spending Time with Children at Orphanages
- Spending Time with Senior Citizens at Old Homes
- Spending Time with Differently Abled Children
- Blood Donation Drive
- Iftar Drives
- Medical Camp
- Refreshment Drives
- Heat Stroke Prevention Drives
- Eid ul Adha Cleanliness Drive
- Beach Cleanliness Drive
- Awareness Seminars
- Birds Care
- Extending Service at Health Care Facilities
- Basic Need Donation Drives

Lab demonstration at Public Sector Schools

Some of the Collaborating Organizations for Community Service Programme are as follow.





11.2 Cowsjee School

Cowasjee School NED University under its USR programme has also established one school 'Cowasjee School' with a reasonable investment which include donation from Cowasjee Foundation. The school is meant for providing high quality basic education to the students so as they may be able to get admission in renowned higher education institutions. The school is charging a very nominal fee from the employees' children. The School is providing education from class-I up to matriculation with its current enrolment being around 400. Along with the children of employees who are charged a nominal fee, outsiders are also admitted in the school (around 32%) who are charged the normal fee.



11.3 Shuttle Service for School Children

The University provides one shuttle for the employees' children for pick and drop to their schools. This service is being managed with zero additional cost on the University as the parents of these children are charged for this facility.



11.4 Clean Drinking Water for Students and Employees

Providing Clean Drinking Water to Students and Employees The tap water supplied in the City is undrinkable. Hence, the University under its USR has established two water filtering Units with the capacity of 10,000 gallons per day and 5,000 gallons per day respectively. All students and employees get facilitated with this treated water. Along with that the residents of University Staff Colony also get benefited by these filter plants. The University under its USR programme make these plants fully functional throughout the year.

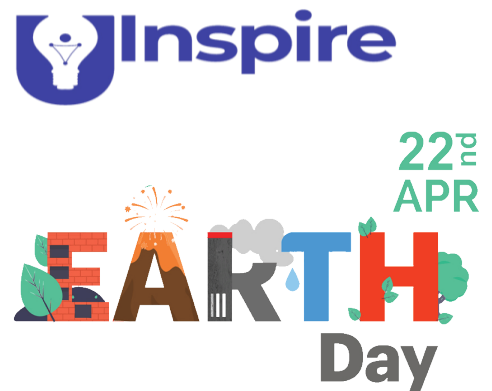
11.5 Blood Donation Camps

Arranging Blood Donation Camps The University under its USR programme arranges Blood Camps on regular basis. Renowned blood banks and hospitals are facilitated for collecting bloods in campus. While arranging such camps it is ensured that only those blood banks and hospitals are facilitated which have strong credibility and they are engaged in providing treatment and blood to less privileged people on discounted cost. Such camps are arranged at least once during each quarter of the year.



11.6 U-Inspire Pakistan

U-Inspire Pakistan is a society having vision to foster Pakistani youth and young professionals as the generator of innovation in Science, Engineering and Technology for disaster resilience at national and global level. The details are available at <https://uinspire.neduet.edu.pk/>.

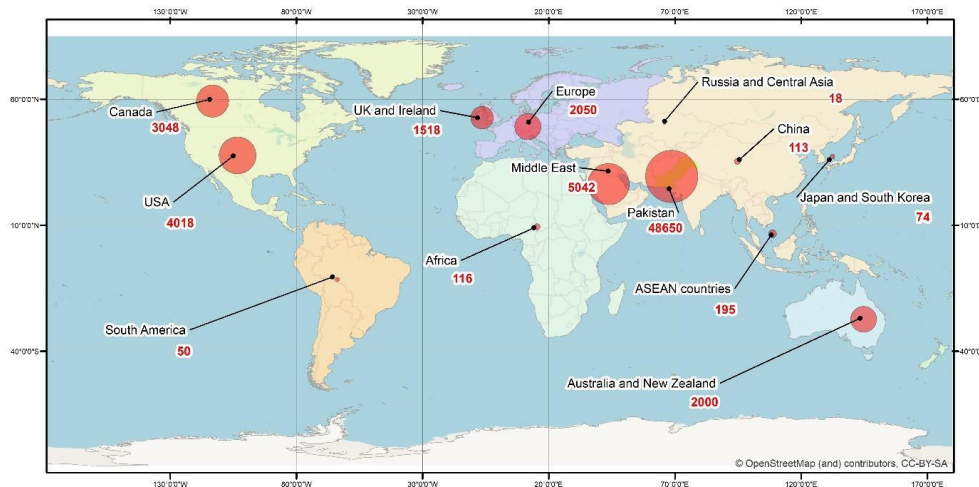


11.7 Alumni Engagement and Support

NED University is proud to have an active and vibrant relationship with its alumni across the world. Here is a map showing the global spread of NED alumni who are on contact with NED University via its social media platform. There are many more who enjoy physical connection with their alma mater. NED alumni are a huge source of support, advice and hand holding for their alma mater.

During the year 2024–25, NED University witnessed remarkable generosity from its distinguished alumni and alumni associations across the globe. Contributions and donations amounted to over Rs. 250 million, significantly enhancing the University’s infrastructure, academic environment, and student support systems. A glimpse of these impactful contributions is as follows:

- Engro Powergen Thar Limited (EPTL), through the efforts of Engr. Ahsan Zafar, funded the establishment of a Baby Daycare Centre, which was completed and inaugurated at the NED University.
- Numerous prominent alumni and international NED alumni associations contributed extensively towards scholarship and financial assistance programmes. Notably, Engr. Aftab Rizvi played a pivotal role in founding the MaaJee Scholarship Endowment Fund, which now enables over 300 students annually to pursue higher education in engineering.
- The NEDAASC chapter continued its annual tradition of recognizing academic excellence by awarding certificates and cash prizes to faculty and students under the categories of Best Researcher, Best Teacher, and High-Impact Final Year Projects.
- Ashraf Habibullah generously funded multiple initiatives, including: The installation of a 100 KW solar system, renovation and façade uplifting, rainwater flooding mitigation, and establishment of a smart classroom at the City Campus, all of which were completed and inaugurated in February 2025.
- Through NEDIAN-NA, he also supported the renovation of the Civil Engineering Lecture Hall, installation of two shading kiosks, donation of 25 desktop computers, and furnishing and interior development of the historic Chimney Building at the City Campus.
- The Makhdoomi CAD Lab was established in the Department of Civil Engineering through the generous donation of Engr. Amir ul Islam
- The construction of courtyards and an ablution area adjacent to the Civil Engineering block was funded by Paragon Constructors Pvt. Ltd., led by Engr. Aftab Siddiqui.
- The UKAA Baltimore Chapter extended its support towards STEM development programmes at NED University.
- HabibMetro contributed to the construction of the Wall of Fame at the Main Campus, commemorating notable achievements and milestones



Chapter 12: Industrial Linkages and Outreach

SDG Targets



Fostering innovation and partnerships. Enhancing industry-academia collaboration.



Supporting entrepreneurship. Encouraging business development.

12.1 Office of Research, Innovation and Commercialization (ORIC)

Achievements and Rankings

- Scored 80 out of 100 in the HEC ORIC Annual Scorecard FY 2023–24.
- Ranked among the Top 03 ‘W’ category ORICs out of 200+ universities/HEIs in Pakistan.
- Both ORIC and BIC at NED secured ‘W’ category rankings, a distinction held by only three universities nationwide.

Category-wise Rankings:

- 2nd in Human Resource and Operations
- 3rd in Research Excellence
- 5th in Innovation and Commercialization
- 5th in Sustainability and Capacity Building

Research & Grant Activity Summary

- 80 – SRSP (Sindh Research Support Programme – Sindh HEC) projects submitted
- 10 – SRSP projects awarded to faculty members
- 12 – SRSP projects successfully completed
- 02 – Erasmus+ Capacity Building in Higher Education proposals submitted
- 05 – NRPU (National Research Programme for Universities) projects completed
- 07 – Research projects submitted to NADRA
- 30 – Training proposals submitted to NADRA
- 150 – NGIRI (National Grassroots ICT Research Initiative) proposals submitted
- 01 – HEC Technology Development Fund (TDF 4th Call) project approved
- 02 – Pakistan Academy of Sciences grants awarded

Innovation & Intellectual Property Summary

- 02 – Patent disclosures submitted
- 02 – Patents granted
- 21 – Patents filed
- 03 – Patent revisions in process

- 02 – Industrial designs submitted

Key Events & Capacity Building Highlights

- IP for Business Success Training – Two-day pilot seminar under IPO Pakistan’s IP Training Institute held on 4–5 September 2024.
- WIPO Treaty Stakeholder Consultation – ORIC participated in the national seminar on 2 October 2024, discussing IP protection and genetic resources.
- ASHRAE Leadership Visit & Conference – Visit by ASHRAE Society President and participation in the regional conference (3–7 October 2024).
- Training on Research Grant Proposal Writing – ORIC managers attended Sindh HEC training on 6 and 19 November 2024.
- Energy 4.0 Talk – Delivered by Dr. Muhammad Uzair as part of the ERASMUS CBHE initiative at NEDUET on 9 December 2024.
- Sindh HEC’s 4th Research Showcase – Co-hosted by NED University on 22–23 January 2025, promoting research visibility.
- Invent for the Planet 2025 – A global innovation event hosted at NED from 7–9 February 2025, with participation from six departments.
- HEC Journal Recognition Workshop – Organized at NEDUET on 10 April 2025, aimed at uplifting academic publishing standards.
- WIPO Inventor Assistance Program – ORIC representatives attended on 9 April 2025, strengthening IP awareness and capacity.
- Inauguration of the NED Intellectual Property Wall – Launched on 21 March 2025, celebrating 50+ significant institutional IPs.

12.2 Business Incubation Centre (BIC)

The Business Incubation Centre (BIC) at NED University of Engineering and Technology aims to assist engineering students, faculty, and researchers in transforming their innovative ideas into revenue-generating business models. BIC provides opportunities for commercial partners to invest in businesses with the potential to lead new industrial trends.

HEC Validated Business Incubation Center NEDUET in “W” Category for 2023-24

- Joint 1st Rank in Initiatives and Linkages
- Joint 1st Rank in Capacity Building and Mentoring

1st Dawlance Sustainability Hackathon, January 16th and 17th 2025

- Dawlance Sustainability Hackathon was conducted on January 16th and 17th 2025 co-organized by BIC (ORIC) and 2nd International Conference on Technology Driven Climate Action team, conducted by Departments of Telecommunications Engineering and Physics.
- A total of 90 teams from 8 universities registered to participate. Based on a formulated evaluation criteria, 24 teams from 6 universities were selected to compete under four sustainability themes set by the Dawlance Research and product development Team.
- Higher management of Dawlance including CEO, Mr. Umar Ahsan, CMO, Mr. Syed Hasan Jamil, Director Technologies, Mr. Harun Bingol, along with 16 mentors and experts from Dawlance attended and participated in the Hackathon, enabling effective industry academia interaction.

Entrepreneurship Bootcamps

- BIC (ORIC) organized “2-day Entrepreneurship Bootcamp” with Beaconhouse College A level on 30th and 31st July 2024. Day 01 activity included Design Thinking and Problem Definition, Turning ideas

to prototypes and MVP and Elements of a BMC. Day 02 activity BMC Exercise (team activity), BMC presentations, Guest speaker sessions (Engr. Ansab Naqvi, CEO Asani.io, Engr. Sidra Shakeel, COO Fortify), Concluding remarks by Dr. Riaz Uddin (Director ORIC).

- Shell | Wafi Energy co-organized a one-day “The Big Idea” bootcamp on May 6th 2025. Around 40 students, researchers and faculty members participated in this certified bootcamp where Mr. Imran Azeem, Head of Training and Development and expert mentor and business coach provided guidelines and conducted Ideation activity.

Innovator Seed Fund (HEDP-ISF)

- Higher Education Commission Islamabad organized Investor Connect Event (ICE) on February 4th 2025. ISF 2023 awardee AirNex Global (Awardee: Mr. Irtiza Ali) was among the shortlisted startups to showcase their work at the event. The event was also attended by ISF 2023 focal person, Dr. Mirza Faizan from NEDUET.

Other notable activities

- Awareness session on “KE EPIC Challenge” conducted by Innoventures Global and K-Electric on 9th April 2025 for students and faculty.
- ORIC’s BIC hosted “Shell Tameer Awards 2024” session; NED secured 3 finalist spots, with one win in “Transportation and Mobility.”
- Over 100 NED students received USD 500 scholarships under Google Career Certificates Programme (IS & TD), concluded in Dec 2024.
- BIC and ORIC leaders served as judges for “Shark Tank Pakistan” auditions held from 12th–17th August 2024.
- Dr. Sundus Ali joined the “STEM Education” panel at IEP Karachi on 7th September 2024 to discuss academia-industry linkage.
- Dr. Sundus Ali participated in the 1st National Leadership Conference on Industrial Linkage on 3rd August 2024 at Marriott Hotel, Karachi.

12.3 National Incubation Centre, Karachi

Nestled within NED University Campus, the National Incubation Center Karachi (NIC Karachi) stands as a testament to fostering economic growth in Sindh and Pakistan. Established in May 2018, NIC Karachi is an ignition point for aspiring entrepreneurs, funded by the national technology fund Ignite and operated by LMKT.

NIC Karachi fosters a dynamic environment for innovation by forging partnerships with industry leaders on both the international and local fronts. Renowned institutions like INSEAD and Orbit Startups bring a global perspective, while local heavyweights such as YBG provide invaluable regional expertise and support. Through this collaborative network, NIC Karachi has empowered over 376 startups through its incubation and acceleration programs.

Startups incubated	376
Graduated startups	180
Revenue Generated	PKR 10 billion
Investment Raised	PKR 12 billion

12.4 Directorate of Industrial Liaison

Apart from engaging with industries for providing students opportunities for internships, final year projects, industrial visits and job placements, Directorate of Industrial Liaison also plays pivotal role in developing new industrial linkages and collaborations of NED University underscoring the importance of partnerships

between academic institutions and the industrial sector to foster innovation, enhance educational outcomes, and contribute to national development.

Chapter 13: Governance and Institutional Integrity

SDG Targets



Ensuring governance, fairness, transparency and accountability.

13.1 Senate: The University's Legislative Authority

The Senate serves as the highest legislative authority within the university, ensuring that academic and administrative policies align with the institution's mission and values. It plays a pivotal role in the governance structure, guiding strategic decisions and overseeing the implementation of key initiatives.

The Senate is composed of a diverse group of stakeholders, including all professors, heads of departments, and chairpersons, ensuring a broad representation of academic perspectives. Additionally, it includes all members of the Syndicate, four university teachers elected by their peers, principals of affiliated colleges, and chairpersons of boards of intermediate and secondary education. Furthermore, the Senate benefits from the insights of one elected registered graduate and two eminent engineers, who are nominated by the chancellor.

Chaired by the chancellor, with the registrar serving as secretary, the Senate convenes at least once annually. These meetings provide a forum for discussing and approving major policy changes, ensuring that the university operates with transparency, accountability, and a commitment to excellence. The Senate's decisions have a lasting impact on the university's direction, making it a cornerstone of strong institutional governance.

13.2 Grievance Committee: Ensuring Fairness and Justice

The university is committed to upholding justice and fairness within its community. To achieve this, a dedicated Grievance Committee has been established to address any issues or conflicts that arise. The committee's primary function is to provide a structured and impartial platform for addressing grievances, whether they involve academic matters, workplace concerns, or other issues affecting students, faculty, or staff.

This committee operates with the utmost integrity, ensuring that every case is thoroughly reviewed and resolved in a manner that aligns with the principles of fairness and equity. By providing a clear process for conflict resolution, the Grievance Committee helps maintain a positive and supportive environment within the university, furthering the institution's commitment to peace and justice in line with SDG 16.

The current composition of the committee can be found at https://www.neduet.edu.pk/policies/NED_Grievances_Committee.pdf.

13.3 Complaint Log Register: Promoting Transparency and Accountability

In addition to the Grievance Committee, the university has implemented a system of mandatory complaint log registers in every department. These registers serve as official records where students, faculty, and staff can document their concerns or complaints. This process ensures that all voices are heard and that issues are addressed systematically and promptly.

The complaint log registers are not merely passive tools; they are actively regulated through regular audits. This audit process ensures that complaints are not only logged but also followed up on and resolved appropriately. By maintaining this level of transparency and accountability, the university fosters a culture of trust and responsiveness, further contributing to strong institutional integrity.

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