NED University of Engineering &Technology Annex-B

For Admission in Masters Degree Programmes for the

Academic Session 2025

E L I G I B I L I T Y

1. The **applicant** must have passed their Qualifying Examinations Bachelor of Engineering Degree examination in the relevant Engineering Discipline from NED University or an equivalent recognized Institution with First Division (for Annual System) or at least with CGPA 2.40 / 4.0 (for Semester System).
2. All Professional Bachelors Degree must be accredited by respective Accreditation bodies e.g. Pakistan Engineering Council (PEC) and Pakistan Council of Architects & Town Planners (PCATP)
3. All other degrees must be recognized by Higher Education Commission (HEC).

MASTER OF ENGINEERING (M. ENGG)	QUALIFICATION REQUIRED
1. Automotive Engineering a) Automotive Design b) Automotive Manufacturing	Bachelor Degree in *Automotive / Mechanical and Industrial & Manufacturing Engineering*.
2. Biomedical Engineering Biomedical Engineering*+	Bachelor Degree in *Biomedical Engineering* or in any of the relevant degrees.
3. Chemical Engineering Chemical Engineering+	Bachelor Degree in *Chemical / Materials / Metallurgical / Polymer & Petrochemical / Mechanical / Industrial & Manufacturing / Petroleum / Textile and Food Engineering*.
4. Civil Engineering a) Structural Engineering*+ b) Geo-Technical Engg*. c) Transportation Engg*. d) Construction Engineering Law e) Coastal & Water Resource Engineering***	Bachelor Degree in *Civil Engineering* along with Specialization in *Construction* and *Urban Engineering* or in any of the relevant degrees.
5. Computer Systems Engineering Computer Network & System Security	Bachelor Degree in *Computer Systems Engineering* or in any of the relevant degrees.
6. Earthquake Engineering Earthquake Engineering*	Bachelor Degree in *Civil / Urban Engineering* or in any of the relevant degrees.
7. Electrical Engineering a) Electrical Power Systems	Bachelor Degree in *Electrical Engineering* or in any of the relevant degrees.
b) Smart Grid	Bachelors in *Electrical Engineering* with specialization in *Power, Telecommunication, Electronic* and *Computer Systems.*
c) Control Systems	Bachelor Degree in *Electrical Engineering* or in any of the relevant degrees.
8. Electronic Engineering a) Industrial Electronics b) Integrated Circuit Design +	Bachelor Degree in *Electronic Engineering* or in any of the relevant degrees.
9. Telecommunications Engineering a) RF Engineering b) Telecommunication Networks	Bachelor Degree in *Telecommunications / Electrical / Electronic / Computer System / Network Engineering* or in any of relevant degrees.
10. Environmental Engineering Environmental Engineering*+	Bachelor Degree in *Civil / Mechanical / Chemical Engineering* or allied disciplines.
11. Industrial & Manufacturing Engineering Manufacturing Engineering	Bachelor Degree in *Industrial & Manufacturing Engineering* or allied disciplines.
12. Materials Engineering Materials Engineering	Bachelor Degree in *Materials / Metallurgical Engineering* or in any of the relevant degrees.
13. Mechanical Engineering a) Design b) Energy Systems+ c) Renewable Energy	Bachelor Degree in *Mechanical Engineering* or allied Disciplines.
d) Mechatronics	Bachelor Degree in *Mechatronics Engineering* or allied Disciplines.
14. Polymer & Petrochemical Engineering Polymer Engineering	Bachelor of Engineering in *Polymer Engineering, Chemical, Materials, Metallurgical, Industrial & Manufacturing, Textile and Mechanical Engineering*
15. Textile Engineering Textile Engineering+	Bachelor Degree in *Textile Engineering* or allied Disciplines
16. Software Engineering Software Engineering+	Degree in BE *Software Engineering*, *Computer Engineering* or relevant engineering domain earned after 16 years of education from an HEC recognised university with First division or 2.4 / 4.0 CGPA.
17. Petroleum Engineering Petroleum Engineering	Bachelor of Engineering in *Petroleum Engineering, Chemical Engineering, Mechanical Engineering* and other relevant engineering disciplines.
18. Metallurgical Engineering Metallurgical Engineering	Bachelor Degree in *Metallurgical Engineering / Materials* or in any of the relevant degrees.

MASTER OF ENGINEERING MANAGEMENT (MEM)	QUALIFICATION REQUIRED
Name of Departments and Areas of Specialization are given below:	.
1. Civil Engineering Construction Management*+	Bachelor Degree in *Civil Engineering* along with Specialization in *Construction* and *Urban Engineering* or *Architecture* or an equivalent Degree recognized by *Pakistan Council of Architects & Town Planners (PCATP)* with Intermediate (Pre-Engineering)
2. Electrical Engineering Energy Management	Bachelor Degree in *Electrical Engineering* or in any relevant discipline with preferably two years' work experience in Power and Energy Sector
3. Environmental Engineering Environmental Management*+	Bachelor Degree in *Civil / Mechanical/ Chemical Engineering* or allied disciplines.
4. Urban & Infrastructure Engineering Transportation Infrastructure Management +	Bachelor Degree in *Civil / Urban Engineering /* Bachelor Degree in *City & Regional Planning*
5. Industrial & Manufacturing Engineering a) Industrial Management+ b) Quality Management c) Supply Chain Management	Bachelor Degree in *Industrial & Manufacturing Engineering / Biomedical Engineering* or allied disciplines.
6. Textile Engineering Textile Management	Bachelor Degree in *Textile Engineering* or allied Disciplines.
7. Mechanical Engineering Energy and Plant Management+	Bachelor Degree in **Mechanical Engineering** or allied Disciplines.
8. Chemical Engineering Chemical and Process Management+	Bachelor Degree in *Chemical, Mechanical, Food, Petroleum, Environmental, Industrial & Manufacturing, Materials, Metallurgy,* Polymer */ Polymer & Petrochemical Engineering* from the Institutions as recognized by this University.
9. Panjwani-Hisaar Water Institute (PHWI) a) Urban Water Management** b) Climate Change Management**	BE or BS or equivalent as per HEC curriculum or 16 years of Education in the domains of *Civil / Environmental / Urban / Agriculture Science* or *Engineering*, and other relevant disciplines.
MASTER OF SCIENCE (MS)	**QUALIFICATION REQUIRED**
Name of Department and Area of Specialization is given below:	
1. Chemistry Industrial Chemistry +	B.E (All Disciplines) /B.S (Four Years)/ M.Sc. in Chemistry/Applied Chemistry or equivalent
2. Computer Science & Information Technology a) Computer Science & Information Technology+	a) BS (CSIT) or equivalent b) Any Engineering/ Architecture degree or equivalent c) BS Electronics / Telecommunications / Software Engineering d) M.Sc / BS Applied Mathematics/ Applied Physics/Statistics.
b) Information Security+	a) BS (CSIT) or equivalent b) Any Engineering/ Architecture degree or equivalent c) BS Electronics / Telecommunications / Software Engineering d) M.Sc / BS Applied Mathematics/ Applied Physics/Statistics.
c) Data Science+	BS (CSIT) or equivalent as per HEC curriculum or 16 years education in the domains of Information Technology, Software Engineering, Computer Engineering, Electrical Engineering, Statistics or Mathematics and other relevant disciplines are eligible to apply.
d) Geospatial Data Science (GDS)+	BS (CSIT) or equivalent as per HEC curriculum or 16 years of education in the domains of Information Technology, Software Engineering, Computer Engineering, Electrical Engineering, Statistics or Mathematics, Remote Sensing & GIS and other relevant disciplines.
3. Textile Sciences Textile Management+	BS (Textile Sciences) or Sixteen Years of education in allied disciplines with relevant Textile experience.
4. English Linguistics and Allied Studies Applied Linguistics	Sixteen Years of education and possessing Last/Undergraduate Degree in English (BS/MA) with minimum Second Division / CGPA 2.40/4.0.
5. Mathematics Applied Mathematics+	Bachelors of Engineering Degree (All Disciplines) or Sixteen years education **in** Mathematics or equivalent.
6. Physics a) Physics b) Optics c) Medical Physics	Sixteen Years of education in Physics/Applied Physics/ Engineering or equivalent/Applied Mathematics

MASTER OF SCIENCE (MS)	QUALIFICATION REQUIRED
Name of Department and Area of Specialization is given below:	

7. Computer & Information Systems Engineering
  a) Data Engineering and Information Management**
 	
  b) Artificial Intelligence
	Sixteen Years of education (with **Computer Engineering, Computer Science, Software Engineering, Statistics, Applied Mathematics, Business Administration** (IT background) or relevant field with Majors in **Mathematics**
	Bachelor Degree in *Computer Systems Engineering* / **Computer Science** / **Software Engineering** or in any of the relevant degrees.

8. Telecommunications Engineering Telecommunication Systems**	Sixteen Years of education (with **Telecommunication Systems, Electronic Systems, Computer Science, Applied Physics, Applied Mathematics, Statistics, Business Administration (I.T. Background) or relevant field with major in Mathematics)**
9. Economics and Management Sciences Economics and Finance+	a) BS (4 year Programme) with Economics, Management, Mathematics, Statistics, Commerce or BBA from any University as recognized by the NED University. b) MA / MSc with (Economics, Mathematics, Statistics) / MBA / M.Com/ BE or equivalent from any HEC recognized programme.
MASTER OF URBAN & REGIONAL PLANNING (MURP)	QUALIFICATION REQUIRED
Name of Department and Area of Specialization is given below:	
Architecture & Planning Urban & Regional Planning	i) Bachelor Degree in Architecture/City and Regional Planning/ Civil Engineering/Urban Engineering, OR ii) Possess M.Sc. in Geography / Four Year B.S. in Geography / M.A. in Geography subject to taking at least two non-credit courses as approved or recommended by Board of Studies, OR iii) B.S. in Development Studies subject to taking at least three non-credit courses as approved or recommended by Board of Studies
MASTER OF ARCHITECTURE (M.ARCH)	QUALIFICATION REQUIRED
Name of Department and Area of Specialization is given below:	
Architecture & Planning Architecture	Bachelor Degree in Architecture from PCATP accredited institution, registered member PCATP, or an equivalent degree having HEC equivalency certificate along with PCATP membership

* *These Programmes are also offered in the Morning Session. For further details, please contact the concerned Department*

+ *These Programmes are also offered during Weekend. Minimum Duration of the Programme is Three (3) Semester.*

** *This Programmes is only offered during Weekend. Minimum Duration of the Programme is Three (3) Semester.*

*** *This Programme is offered in collaboration with Panjwani-Hisaar Water Institute (PHWI)*

Note: Admission Test of all the above Programmes will be held on 20th to 22nd December, 2024.
Test date will be notified by concerned Departments separately.

REGISTRAR
NED University of Engineering & Technology, Karachi