

**NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF ELECTRICAL ENGINEERING**

**Guidelines for Pre-Admission Entry Test for Spring Semester 2022**

**(Academic Session 2022)**

Department of Electrical Engineering is offering M. Engg. (Power System), M. Engg. (Smart Grid), M. Engg. (Control), MEM (Energy Management). Following are the guidelines:

1. The test will be an online in-campus test. There will be a single test for all specializations mentioned above.
2. Test will comprise of MCQs, fill in the blanks and True/False questions.
3. Test will have total 60 questions and time duration will be 60 minutes.
4. Programmable calculators are not allowed.
5. Passing marks in entry test is 50% and above. The overall merit will be formed on the basis of following criteria (weightage).

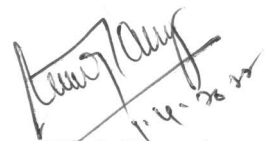
Written Test Marks	80%
BE (% or CGPA)	20%
Total	100%

Following topics will be covered in the test:

1. Engineering Mathematics
2. English section which will cover Vocabulary, Grammar, Synonyms/antonyms & others
3. Basic Electrical Engineering and Electric Circuits Analysis
4. Electrical Machines
5. Power Generation and Energy Issues of Pakistan
6. Signal & System (Analog/Digital)
7. Feedback Control System/ Linear Control System
8. Electrical Instrumentation & Measurement
9. Programming Languages C and C++
10. Engineering Economics
11. Power System Analysis
12. Power Transmission and Distribution
13. Power System Protection
14. Microprocessors and Embedded System
15. Basic Electronics
16. Power Electronics
17. Computer Networks



**Dr. Muhammad Mohsin Aman**  
Co-Chairman



**Prof. Dr. Atta Ullah Khwaja**  
Chairman