

**INTERNATIONAL ISLAMIC UNIVERSITY, ISLAMABAD**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**

**Department of Electronic Engineering**

**1. Admission Merit Criteria\***

**1.1 Ph.D (EE)**

Academic qualification: 30%

Admission test: 50%

Interview: 20%

**2. Ph.D (EE) Admission Test**

**2.1. Test Format**

Total Questions (MCQs) = 100

Total Test Time = 2 Hours

**2.2. Test Contents**

General Section = 30 questions of the total questions

Subject Section = 70 questions of the total questions

**2.3. Areas of General Section**

English (Verbal) = 15

Analytical Reasoning = 15

**2.4. Subject Section Distribution**

| Sr.No | Core Areas of Education         | No of questions out of 70 |
|-------|---------------------------------|---------------------------|
| 1.    | Basic Electric Engineering      | 8                         |
| 2.    | Communication Systems           | 6                         |
| 3.    | Control Systems                 | 6                         |
| 4.    | Digital Signal Processing       | 4                         |
| 5.    | Electrical Machines             | 6                         |
| 6.    | Electromagnetic Field Theory    | 4                         |
| 7.    | Electronic Devices and Circuits | 5                         |
| 8.    | Instrumentation and Measurement | 3                         |
| 9.    | Integrated Circuits             | 3                         |
| 10.   | Principle of Computing          | 6                         |
| 11.   | Digital Logic Design            | 6                         |
| 12.   | Microprocessor Based System     | 3                         |
| 13.   | Power Electronics               | 4                         |
| 14.   | Power Systems                   | 6                         |

|  |                         |           |
|--|-------------------------|-----------|
|  | <b>Total questions:</b> | <b>70</b> |
|--|-------------------------|-----------|

**Note:** Test format is in accordance with NTS GAT (Subject)-Electrical Engineering.

\* Successful candidates are required to submit GAT-Subject scores (minimum 60% cumulative) before or latest by the end of first semester of PhD program.

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