TOTAL EXAMINATION PROGRAM PEO Syllabus of Examinations, 2016 Edition

ELECTRICAL ENGINEERING

INTRODUCTION

A full set of Electrical Engineering examinations consists of the following, three-hour examination papers and an engineering report. Candidates will be assigned examinations based on an assessment of their academic background. Examinations from discipline syllabi other than those specific to the candidates' discipline may be assigned at the discretion of PEO's Academic Requirement Committee.

BASIC STUDIES EXAMINATIONS

- 04-BS-1 Mathematics
- 04-BS-2 Probability and Statistics
- 04-BS-3 Statics and Dynamics
- 04-BS-4 Electric Circuits and Power
- 04-BS-5 Advanced Mathematics
- 04-BS-6 Mechanics of Materials
- 04-BS-7 Mechanics of Fluids
- 04-BS-8 Digital Logic Circuits
- 04-BS-9 Basic Electromagnetics
- 04-BS-10 Thermodynamics
- 04-BS-11 Properties of Materials
- 04-BS-15 Engineering Graphics and Design Process
- 04-BS-16 Discrete Mathematics

PROFESSIONAL EXAMS – SPECIFIC TO ELECTRICAL ENGINEERING

GROUP A

- 16-Elec-A1 Circuits
- 16-Elec-A2 Systems and Control
- 16-Elec-A3 Signals and Communications
- 16-Elec-A4 Digital Systems and Computers
- 16-Elec-A5 Electronics
- 16-Elec-A6 Power Systems and Machines
- 16-Elec-A7 Electromagnetics

GROUP B

- 16-Elec-B1 Digital Signal Processing
- 16-Elec-B2 Advanced Control Systems
- 16-Elec-B3 Digital Communications Systems
- 16-Elec-B4 Information Technology Networks
- 16-Elec-B5 Advanced Electronics
- 16-Elec-B6 Integrated Circuit Engineering
- 16-Elec-B7 Power Systems Engineering
- 16-Elec-B8 Power Electronics and Drives
- 16-Elec-B9 Electromagnetic Field, Transmission Lines, Antennas, and Radiation
- 16-Elec-B10 Electro-Optical Engineering

COMPLEMENTARY STUDIES

- 11-CS-1 Engineering Economics
- 11-CS-2 Engineering in Society Health & Safety
- 11-CS-3 Sustainability, Engineering and the Environment
- 11-CS-4 Engineering Management
- 3.2 Engineering Report