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TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2017 Edition
<u>**COMPUTER ENGINEERING**</u>

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INTRODUCTION
A full set of Computer Engineering examinations consists of the following, three-hour examination papers. 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 COMPUTER ENGINEERING

GROUP A

17-Comp-A1	Electronics
17-Comp-A2	Digital Systems Design
17-Comp-A3	Computer Architecture
17-Comp-A4	Program Design and Data Structures
17-Comp-A5	Operating Systems
17-Comp-A6	Software Engineering

GROUP B

17-Comp-B1	Advanced Computer Architecture
17-Comp-B2	Principles of VLSI
17-Comp-B3	Data Bases and File Systems
17-Comp-B4	Computer Graphics
17-Comp-B5	Computer Communications
17-Comp-B6	Computer Control and Robotics
17-Comp-B7	Digital Signal Processing
17-Comp-B8	Computer Integrated Manufacturing
17-Comp-B9	Artificial Intelligence and Expert Systems
17-Comp-B10	Distributed Systems
17-Comp-B11	Advanced Software Design
17-Comp-B12	Computer Security
17-Comp-B13	Mechatronic Design

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