

PROFESSIONAL ENGINEERS BOARD

CONFIRMATORY EXAMINATION - INSTRUCTION TO CANDIDATES

1. OBJECTIVE

The objective of the examination is to assess the educational adequacy of candidates with non-accredited degrees.

2. CANDIDATES

2.1 Candidates shall be selected from applicants for registration as professional engineers. Only approved applicants shall be allowed to sit for the examination.

2.2 Candidates who passed the examination are eligible to apply for registration under section 15(1)(c) of the Professional Engineers Act. However, as for the other applicants, they would have to satisfy section 15(2) of the Act and the Professional Engineers Rules in order to be registered as professional engineers.

3. EXAMINATION FORMAT AND SYLLABUS

3.1 Candidates are to take 2 core subjects and 2 elective subjects. The core subjects will be assigned by the Board. The candidates may select the elective subjects.

4. EXAMINATION FEES

4.1 For any sitting, the fee for the first subject is \$450.00. The fee for each subsequent subject is \$250.00 each.

4.2 Examination fees are not refundable.

5. TIME LIMITATION

5.1 Candidates are to take all 4 subjects in the first sitting. A candidate need not repeat any paper that he has passed. However, he should repeat those papers that he has failed in the next sitting.

5.2 Candidates are allowed a maximum of 3 sittings within 5 calendar years from the date of notification by the Board to complete the examination.

- 5.3 The examination will be conducted by Nanyang Technological University (NTU). Candidates are to take the examination together with the students in NTU. The examination will be held in October/November and April/May.

6. **RESULTS OF EXAMINATION**

- 6.1 Examination results will be sent out not later than 3 months following the completion of the examination. No results will be communicated by telephone or through personal visitation. Examination papers will not be returned to the candidates nor are answers available. Petitions for the Board to re-check examination papers will not be accepted.

7. **PENALTIES**

- 7.1 A candidate found using notes or aids in an examination where these are not permitted will have the examination paper confiscated and is subject to having his candidature in the examination terminated and he will also be barred from future examination.

CIVIL ENGINEERING

Core Subjects

- a) CV411 Prestressed Concrete
- b) CV331 Foundation Engineering

Elective Subjects

- a) CV413 Numerical Structural Analysis
- b) CV412 Advanced Steel Structures
- c) CV431 Advanced Foundation Engineering
- d) CV451/CV452 Water Supply Engineering and Wastewater Engineering
- e) CV441/CV442 Traffic Engineering and Highway Engineering

MECHANICAL ENGINEERING

Core Subjects

- a) M303 Heat Transfer
- b) M403 Fluids Engineering

Elective Subjects

- a) M432 Robotics
- b) M435 Materials Engineering
- c) M436 Manufacturing Systems & Automation
- d) M447 Aerodynamics
- e) M450 Air-Conditioning
- f) M451 Building Services Engineering

ELECTRICAL ENGINEERING

Core Subjects

- a) E207 AC Circuits & Devices
- b) E315 Power Systems and Machines

Elective Subjects

- a) E430 Power System Analysis and Control
- b) E431 Electricity Utilisation Systems
- c) E432 Power Electronic and Drives
- d) E433 High-Voltage Engineering and Protection
- e) E440 Digital Systems
- f) E445 Semiconductor Process Engineering

- g) E453 Telecommunication Systems
- h) E454 Computer Interfacing Techniques
- i) E467 Control Instrumentation
- j) E468 Robotics and Automation