Advanced Diploma in Engineering Design

www.highlightcomputer.com/dipenggdesign.pdf

This course trains the students to work as Engineering Design Drafters in Electrical, Civil & Mechanical Engineering Design and Construction.

The graduates of the courses satisfy the academic requirement for Associate Membership (Engineering Technician) of Singapore Institute of Engineering Technologists

The students can follow three strands

- Mechanical
- Civil
- Electrical

to complete the program

Pre-requisite

Completion of

Diploma in Engineering (Design & Drafting) or other diploma level relevant qualifications

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Course 31115 Advanced Diploma in Mechanical Engineering Design

Total 30 Credit points. Each unit has 3 credit points. Total 10 units (Accumulated credit 60 points with Diploma in Engineering (Design & Drafting)

- ME 205 Manufacturing Processes-and-Materials & ME 303 Computer Aided Design and Manufacturing
- ME101 Applied Mathematics & CE113 Structure 1
- ME102 Engineering Thermodynamics
- ME201 Fluid Mechanics
- ME104 Machine Principle
- ME 234 Wind Turbines
- ME 334 Airconditioning and Refrigeration
- ME109 Engineering Drawing
- ME110 Mechanical Engineering Design Software Applications

Note-

The students who have completed Computer Aided Design training related to Mechanical design at affiliated educational establishment will be given advanced standing for the following units

- ME109 Engineering Drawing
- ME110 Mechanical Engineering Design Software Applications

Further Course-

The graduates of this course can continue Advanced Diploma in Mechanical Engineering which is recognized by Singapore Institute of Engineering Technologists as satisfying the academic requirement for Member /Fellow (Engineering Technologists)

Course 31015 Advanced Diploma in Civil Engineering Design

Total 30 Credit points. Each unit has 3 credit points. Total 10 units (Accumulated credit 60 points with Diploma in Engineering (Design & Drafting)

- CE111A-Road+Bridges
- ME101 Applied Mathematics & CE113 Structure 1
- ME201 Fluid Mechanics
- CE 109 Energy Efficient Building Design
- CE106A (Part 1) Detailed Construction & Building Construction Materials
- CE106A (Part 2) Brick Laying & Sprouting & Guttering
- CE115 Estimating & Specification
- ME 334 Airconditioning and Refrigeration
- CE104B Building Drawing Advanced
- CE120 Civil Engineering Design Software Applications

Note-

The students who have completed Computer Aided Design training related to Civil design at affiliated educational establishment will be given advanced standing for the following units

- CE104B Building Drawing Advanced
- CE120 Civil Engineering Design Software Applications

Further Course-

The graduates of this course can continue Professional Diploma in Civil Engineering which is recognized by Singapore Institute of Engineering Technologists as satisfying the academic requirement for Member /Fellow (Engineering Technologists).

Course 30915 Advanced Diploma in Electrical Engineering Design

- Total 30 Credit points. Each unit has 3 credit points. Total 10 units (Accumulated credit 60 points with Diploma in Engineering (Design & Drafting)

- CE 109/EE307 Energy Efficient Building Design & ME 334 Airconditioning and Refrigeration
- ME101 Applied Mathematics & CE113 Structure 1
- EE117 Solar Electrical System
- EE103B Advanced Electrical Drafting
- EEE306 Electro-mechanical Control & EE121 Electronic Power Control Devices
- EE202 Electrical Circuits & EE112 Alternating Current Principle
- EE118 Electrical Energy Supply System
- EE111 Electro-magnetism & Basic Electrical Machines
- EE110 Computer Applications in Electrical Design

Note-

The students who have completed Computer Aided Design training related to Electrical design at affiliated educational establishment will be given advanced standing for the following units

- EE103B Advanced Electrical Drafting
- EE110 Computer Applications in Electrical Design

Further Course-

The graduates of this course can continue Professional Diploma in Electrical Engineering which is recognized by Singapore Institute of Engineering Technologists as satisfying the academic requirement for Member /Fellow (Engineering Technologists).