

Graduate Diploma in Architectural Engineering Course Work

To complete the Graduate Diploma in Engineering, the students will have to complete 12 units with each 8 credit points totalling 96 credit points.

By adding Masters thesis of 24 credit points, they will complete 120 credit points . Total credit points for Masters degree is (Bachelor degree 120 credit points+ Graduate Diploma+ Masters degree 120 credit points Total 240 Credit points).

Graduate Diploma is pre-requisite for Masters degree.

Follow the instruction for Professional Diploma in Civil Engineering

www.highlightcomputer.com/profdipcivilengg.htm

Then complete the architecture units

<http://www.highlightcomputer.com/turesources.htm#i>

Also refer the followings which are not included in the above link.

- Professional Diploma in Civil and Architectural Engineering will be awarded , if 4 Architecture units are completed. 80 points at 20 points each
- Professional Diploma in Civil Engineering and Professional Diploma in Architectural I Engineering will be awarded if 6 Architecture units are completed. (120 points at 20 points each)
- If 8 Architecture Units are completed , Graduate Diploma in Architectural Engineering will be awarded (160 points at 20 points each)
- If 12 Architecture Units are completed , Master Diploma in Architectural Engineering will be awarded (ME-Architecture award by STC Technological University) (240 points)

Year 4 BE (Architectural Engineering)

AchE401 Architecture Theory

AchE402 Architectural Design

AchE403 Building Construction

AchE404 Building Services

AchE405 Construction Materials

AchE406 Sustainable Building Design

AchE407 Architectural Drafting

AchE408 Construction Quantity Surveying

Year 5 BE/ME(Year) (Architectural Engineering)

AchE501 Architectural Management

AchE502 Interior Design

AchE503 Green Building Design

AchE504 Construction Contract

AchE505 Solar Architecture & Smart House Design

AchE506 Architecture Commercial Design

AchE507 Urban Design

AE508 Landscape Design

Year 6 BE/ME (Year 2) (Architectural Engineering)

AchE601 Architectural Design & Ethics

AchE602 Building Survey & Reporting

AchE603 Building Control Systems

AchE604 Sustainable Architecture

AchE605 Details Design

AchE606 Outdoor Structure Design

Course Work Plan

The students will have to write 20 pages study report for each of the subjects outlined below.

The report needs to include

- Book review- Review on each chapter of the book highlighting the key concepts, key formula, key theory & practical application concepts
- Own idea on how to apply those concepts in real practical applications.
- Examples of engineering designs that use the concepts & knowledge expressed in those books (If any)
- Your comment on each book

BAE 655-Wireless Communications

BAE 656-Advanced Digital Signal Processing

BAE 657-Advanced Electromagnetics

BAE 658-Real-time Systems

BAE 659-Computer-aided Control Systems

BAE 660-Control Engineering

BAE 661-Design of Electrical Services for Buildings

BAE 662-Design of Rotating Electrical Machines

BAE 663-Digital Electronics

BAE 664-Distributed Generation in Power System

BAE 665-Embedded Digital Signal Processing Systems

BAE 666- Low Emission Electricity Generation

BAE 667-Industrial Control System

BAE 668-Photonics

BAE 669-Power Electronics and Instrumentation Engineering

BAE 670-Power System Engineering

BAE 671-Satellite Communications and Navigation Systems

BAE 672-Industrial & System Engineering

BAE 673-Frequency Stability

BAE 674-Intelligent Systems

BAE 675-Nanoelectronics

BAE 676-Failure Analysis

BAE 677-Photovoltaics System