

BE+BMgt

Year 1+2

Advanced Diploma in Engineering 60 credit+
Diploma in Management 30 credits concurrent study

Year 3+4

Bachelor of Engineering (Electrical)

YEAR 3 +4

Subjects
<u>BAE 401 Advanced Engineering Mathematics</u>
<u>BAE 402 Calculus</u>
<u>BAE 403 Engineering Mechanics</u>
<u>BAE 404 Engineering Materials & Thermodynamics</u>
<u>BAE 405 Advanced Circuit Analysis</u>
<u>BAE 406 Electro-mechanics</u>
<u>BAE 407 Advanced Electro-magnetics Field & Materials</u>
<u>BAE 408 Analogue & Digital Electronics</u>
MANAGEMENT
<u>Mgt 301 Electronics Business</u>
<u>Mgt 302 Information Security</u>

[BAE 501 Advanced Power Systems & Power Transmission Networks](#)

[BAE 502 Linear System](#)

[BAE 503 Control System](#)

[BAE 504 Power System Analysis](#)

[BAE 505 Power System Optimization](#)

[BAE 506 Power System Stability & Protection](#)

[BAE 507 Electro-mechanical Energy Conversion](#)

[BAE 508 Industrial Engineering & Industrial Management](#)

MANAGEMENT

[Mgt 303 Management Information System](#)

[Mgt 304 Electronics Commerce](#)

[Mgt 305 Quantitative Methods for Management](#)

[BAE 601 Computer Programming](#)

[BAE 602 Computer Network](#)

[BAE 603 Software Engineering](#)

[BAE 604 Telecommunication Engineering](#)

[BAE 605 Engineering Management](#)

[BAE 606 Building Service Electrical & Mechanical Engineering](#)

[BAE 607 Radio Wave Propagation & Microwave Techniques](#)

[BAE 608 Professional Engineer Competency Demonstration Report](#)

MANAGEMENT

Mgt 306 Human Resources Management

Mgt 307 Marketing Management

Mgt 308 Artificial Intelligence

Yr 3+4 Total Engineering = 72 CP+ Management=24 cp= 96 cp

Total Credit points= 90cp (Yr 1+2)+ 96 cp (Yr 3+4+5)= 186 cp

Bachelor of Engineering (Civil)

Year (3) Part 1 ADVANCED GENERAL CIVIL ENGINEERING DEGREE LEVEL

Subjects
<u>BAE 401 Advanced Engineering Mathematics</u>
<u>BAE 402 Calculus</u>
<u>BAE 403 Engineering Mechanics</u>
<u>BAE 404 Engineering Materials & Thermodynamics</u>
<u>BAE 508 Industrial Engineering & Industrial Management</u>
MANAGEMENT
<u>Mgt 301 Electronics Business</u>
<u>Mgt 302 Information Security</u>

Year (3) Part 2 ADVANCED GENERAL CIVIL ENGINEERING DEGREE LEVEL (18 Pt)

[BAE421 Building Construction Engineering \(4 pt\)](#)

[BAE422 Estimating \(2 pt\)](#)

[BAE423 Fluid Mechanics \(2 pt\)](#)

[BAE424 Reinforced Concrete \(2 pt\)](#)

[BAE425 Timber Engineering \(2 pt \)](#)

[BAE521 Road & Bridge \(2 pt \)](#)

[BAE522 Rock Mechanics \(2 pt \)](#)

[BAE523 Soil Mechanics \(2 pt \)](#)

[BAE 523A Environmental Engineering](#)

MANAGEMENT

[Mgt 303 Management Information System](#)

[Mgt 304 Electronics Commerce](#)

[Mgt 305 Quantitative Methods for Management](#)

TOTAL 35 Pt

Year (4) Part 1

<u>BAE 601 Computer Programming</u>
<u>BAE 605 Engineering Management</u>
<u>BAE 606 Building Service Electrical & Mechanical Engineering</u>
<u>BAE 609 Design Project</u>
Total Credit points in this group

Year (4) Part 1

(12 Pt)

[BAE621 Structural Engineering \(3 pt \)](#)

[BAE623 Surveying& Traffic Engineering \(2 pt\)](#)

[BAE624 Water Supply , Sanitation & Finishing \(2 pt \)](#)

[BAE 608 Engineering Competency Demonstration Report Writing \(2pt\)](#)

SELF STUDY

[BAE622 Architecture \(3 pt \)](#)

MANAGEMENT

[Mgt 306 Human Resources Management](#)

[Mgt 307 Marketing Management](#)

[Mgt 308 Artificial Intelligence](#)

Yr 3+4 Total Engineering = 72 CP+ Management=24 cp= 96 cp

Total Credit points= 90cp (Yr 1+2)+ 96 cp (Yr 3+4+5)= 186 cp

Bachelor of Engineering (Mechanical)

Year (3)

GENERAL APPLIED ENGINEERING (MECHANICAL) DEGREE

Subjects
<u>BAE 401 Advanced Engineering Mathematics</u>
<u>BAE 402 Calculus</u>
<u>BAE 403 Engineering Mechanics</u>
<u>BAE 404 Engineering Materials & Thermodynamics</u>
<u>BAE 507 Electro-mechanical Energy Conversion</u>
<u>BAE 508 Industrial Engineering & Industrial Management</u>
<u>BAE511 Air-conditioning & Refrigeration Part 1</u>
<u>BAE613 Mechanical Instrumentation Process</u>
<u>BAE614 Machine Design</u>
<u>BAE512 Building Service Water Supply System</u>
<u>BAE511 Air-conditioning & Refrigeration Part 2</u>
<u>BAE613 Mechanical Instrumentation Process</u>
MANAGEMENT
<u>Mgt 301 Electronics Business</u>
<u>Mgt 302 Information Security</u>

Year (4) Part 1 BE (Mechanical + General Related Subjects)

<u>BAE 601 Computer Programming</u>

[BAE 602 Computer Network](#)

[BAE 603 Software Engineering](#)

[BAE 605 Engineering Management](#)

[BAE 606 Building Service Electrical & Mechanical Engineering](#)

MANAGEMENT

[Mgt 303 Management Information System](#)

[Mgt 304 Electronics Commerce](#)

[Mgt 305 Quantitative Methods for Management](#)

Year (4) Part 2

Bachelor of Engineering (Mechanical) Specialization (13 pt)

[BAE311 Plant Engineering \(2 pt\)](#)

[BAE312 Design Engineering \(2 pt\)](#)

[BAE313 Environmental Control \(2 pt\)](#)

[BAE314 Mechanical Power Generation \(2 pt\)](#)

[BAE315 Materials Engineering \(2 pt\) Part 1 Part 2](#)

[BAE 608 Engineering Competency Demonstration Report Writing \(3 pt\)](#)

Elective (2 pt)

Subjects
<u>BAE513 Production Technology</u>
<u>BAE611 Maintenance Engineering</u>
<u>BAE612 Engineering Metallurgy</u>

MANAGEMENT

[Mgt 306 Human Resources Management](#)

[Mgt 307 Marketing Management](#)

[Mgt 308 Artificial Intelligence](#)

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Total Credit points= 90cp (Yr 1+2)+ 96 cp (Yr 3+4+5)= 186 cp