

BE (Electrical/Civil/Mechanical with Renewable Energy) Programs

Pre-requisite= Advanced Diploma in Engineering (Electrical/Machnaical/Civil)

Total Credit points= 60

BE (Electrical/Mechanical/Civil with Renewable Energy) (Total 12 units)

YEAR 3 (24 credit points / 2 points per unit)

1 BAE 401 Advanced Engineering Mathematics

2 BAE 402 Calculus

3 BAE 403 Engineering Mechanics

4 BAE 404 Engineering Materials & Thermodynamics

5 RE001- Foundation Studies in Renewable Energy and Sustainability

6.RE003- Solar and Thermal Energy Systems

7.RE004- Energy Storage Systems

8 RE005- Renewable Energy Resource Analysis

9.RE006- Wind Energy Conversion Systems

10 RE010-Engineering Materials

11 RE012a-Electrical Engineering Part 1

12RE016/ BAE508-Design & Project Management

BE (Electrical with Renewable Energy)

YEAR 4 (36 credit points / 3 points per unit)

- 1 BAE 601 Computer Programming
 - 2 BAE 602 Computer Network
 - 3 BAE 603 Software Engineering
 - 4 RE012b-Electrical Engineering Part 2
 - 5 RE002- Grid Connected Photovoltaic Power Systems
 - 6 RE013-Electrical Machines
 - 7 RE014-Electronics Control
 - 8 RE015-Electrical Project/ Practice
 - 9 BAE 501 Advanced Power Systems & Power Transmission Networks
 - 10 BAE 506 Power System Stability & Protection
 - 11 BAE 604 Telecommunication Engineering
 - 12.RE007- Energy System Efficiency

 - 13 BAE 608 Professional Engineer Engineering Competency Demonstration Report & BAE 605 Engineering Management (Completion Certification with no credit points)
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BE (Civil with Renewable Energy)

YEAR 4 (36 credit points / 3 points per unit)

- 1 RE011a-Civil & Mechanical Engineering Part 1
- 2 RE011b-Civil & Mechanical Engineering Part 2a

3 BAE 606 Building Service Electrical & Mechanical Engineering

4BAE421 Building Construction Engineering

5 BAE422 Estimating

6 BAE423 Fluid Mechanics

7 BAE424 Reinforced Concrete

8 BAE522 Rock Mechanics

9 BAE 523A Environmental Engineering

10BAE621 Structural Engineering

11BAE623 Surveying & Traffic Engineering

12BAE624 Water Supply , Sanitation & Finishing

13 BAE 608 Professional Engineer Engineering Competency Demonstration Report & BAE 605 Engineering Management (Completion Certification with no credit points)

BE (Mechanical with Renewable Energy)

YEAR 4 (36 credit points / 3 points per unit)

1 RE011a-Civil & Mechanical Engineering Part 1

2 RE011b-Civil & Mechanical Engineering Part 2a

3BAE 606 Building Service Electrical & Mechanical Engineering

4 BAE311 Plant Engineering

5 BAE314 Mechanical Power Generation

6 BAE315 Materials Engineering

7 BAE511 Air-conditioning & Refrigeration

8 BAE512 Building Service Water Supply System

9 BAE613 Mechanical Instrumentation Process

10 BAE614 Machine Design

11.RE007- Energy System Efficiency

12 BAE 601 Computer Programming

13 BAE 608 Professional Engineer Engineering Competency Demonstration Report & BAE 605 Engineering Management (Completion Certification with no credit points)