

Bachelor of Engineering (Computer Aided Engineering)

[BE \(Civil with CAE\)](#)

[BE \(Electrical with CAE\)](#)

[BE \(Mechanical with CAE\)](#)

[BE \(CAE\)](#)

[BTech \(CAE\) \(BE Year 3 CAE\)](#)

Year 1

Diploma/ Advanced Diploma in Electro-mechanical and Construction Engineering

Year 2

Civil ETAB+REVIT

Mechanical and Electrical 181 M & E Software

Mechanical CAM/CNC/Master CAM

BTech (CAE) (BE Year 3 CAE)

Year 3

[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](#)

1 BAE 401 Advanced Engineering Mathematics

2 BAE 402 Calculus

Mathcad

3 BAE 403 Engineering Mechanics

Gear Box Design

MESYS Shaft System Calculation - Interface with TBK Gear Calculation

1/TBK 2014 CAD PlugIn for SOLIDWORKS: pinion shaft run out

2/TBK 2014 CAD-PlugIn for SOLIDWORKS: Bidirectional connection for CAD and calculation

3/TBK 2014 CAD-PlugIn for SOLIDWORKS: Create bevel gears in SOLIDWORKS

4/TBK 2014 CAD-PlugIn for SOLIDWORKS: Cylindrical gear with involute spline hub (DIN5480)

5/TBK 2014 CAD-PlugIn for SOLIDWORKS: save eAssistant password

6/TBK 2014 CAD-PlugIn for SOLIDWORKS: Insert gear manufacturing data

7/TBK 2014 CAD-PlugIn for SOLIDWORKS: pinion shaft with involute spline (DIN 5480)

BAE 403 MESYS-Axial-Radial-Rollerbearings

BAE403 Ball Screw ReportExample_BallScrew

BAE403 DIN743_CalculationBasis

BAE403 ExampleSlewingRing

BAE403 FlyerRollingBearingAnalysis

BAE403 FlyerShaftCalculation

BAE403 FlyerTrackRoller

BAE403 MESYS_Manual

BAE403 Tutorial_Angular_Contact

BAE403 Tutorial_Cylindrical_Roller

BAE403 TutorialShaft

BAE403 TutorialShaftSystems

BAE403 TutorialShiftGearTransmission

Software

BAE403 Calcula-3.5

BAE403 Engg Power Tools eptool20

BAE403 Engg Power Tool eptool19

BAE403 Shaft Calculation Tutorial_SolutionFiles

BAE 404 Engineering Materials & Thermodynamics

Engineering Materials

[Materials Database Online Software](#)

Engineering Thermodynamics

Videos

1/Steam

2/Solid Liquid Equilibria using Excel
3/Residue Curves for Benzene(x1) + Ethanol(x2) + Methanol(x3)
4/Sillen Basics
5/Z vs. Pr Plot using Matlab
6/Using Preos.xlsx to plot an isotherm
7/LLE Excel Macro
8/PrMix Spreadsheet
9/Publishing from Matlab to html to Microsoft Word
10/Fitting Pxy data using Excel

5 RE001- Foundation Studies in Renewable Energy and Sustainability
6.RE003- Solar and Thermal Energy Systems

RE001+003 Charge Controller V1.95-Windows

RE001+003 eLOG-Windows

RE001+003 Inverter(SHI&STI)V1.1-Windows

RE001+003 Inverter(TP)V1.1-Windows

RE001+003 Inverter(UPower)V1.2-Windows

RE001+003 SPP-02(Sealed)V4.0-Windows

RE001+003 SunDATForSketchUp-V3-9-0-B12

RE001+003-SPP Tools(Li)V3.0

Wire Calculator- Online

Sundata

7.RE004- Energy Storage Systems

The ESWare™ Suite

ES/Analyzer

ES/Optimizer

S/Pilot

9.RE006- Wind Energy Conversion Systems

WAsP Bundle

Wind farm production

Wake Effect Model

Micro siting

Wind Power Potential

Wind Resource Mapping

Wind Climate Estimate

Wind Atlas Generation

10 RE010-Engineering Materials

[Materials Database Online Software](#)

11 RE012a-Electrical Engineering Part 1

Circuit Draw

RE012 CLStudent_Setup

RE012 edraw-max_setup_full5371

RE012 gnucap-master

RE012 LTspiceXVII

RE012 ngspice-31_64

RE012 pecs

RE012 solveelec25ensetup

1/Spice

2/Analog Circuit Simulator

3/SIM Plus

4/Circuit Logix

5/SPICE

6/Multi SIM

7/PSPICE

8/LSPICE

9/SIMULATOR

10/Android Circuit Simulation'

[NgSpice](#) –[GnuCap](#) –.

[EasyEDA](#) –[CircuitLogix](#) –[LTSpice](#)

[TopSpice](#) –[Circuit Simulator 1.5j](#) [MacSpice](#) [SimScale](#) –[5Spice](#) [Beige Bag](#) [Micro-Cap 10](#) [PECS](#) –

12RE016/ BAE508-Design & Project Management

RE016-user-manual-seavus-project-viewer

Year 4

BE (Civil with CAE)

BE (Electrical with CAE)

BE (Mechanical with CAE)

BE (CAE)

Specialized Professional Software Applications- Open Studies