

BEng (Hons) Electrical and Electronic Engineering

Electrical and Electronic Engineering / Faculty of Science and Engineering

Year 1 Modules

Module Code	Module Title	Credits
CELEN120	Foundation Algebra	20
CELEF008	Introduction to Academic Skills	10
CELEN038	The Scientific Method	10
CELEN122	Foundation Electromagnetism and Mechanics	20
CELEN037	Foundation Calculus and Mathematical Techniques	20
CELEN040	Foundation Chemistry	10
CELEN052	English in Specific Academic Contexts B (Engineering; Comp Sci; Env'mental Sci & Architecture)	20
CELEN082	Oral Communication Skills B	10

Year 2 Modules

Module Code	Module Title	Credits
EEEE1044	Introduction to Software Engineering and Programming	10
EEEE1037	Engineering Mathematics	20
EEEE1036	Information and Systems	20
EEEE1035	Power and Energy	20
EEEE1039	Applied Electrical and Electronic Engineering: Construction Project	40
EEEE1045	Contemporary Engineering Themes A	10

Year 3 Modules

Module Code	Module Title	Credits
EEEE2068	Contemporary Engineering Themes B	10
EEEE2056	Electrical Energy Conditioning and Control	20
EEEE2057	Electronic Processing and Communications	20
EEEE2058	Modelling: Methods and Tools	20
EEEE2075	Electronic Systems Group Design Project	20
EEEE2067	Design and Implementation of Engineering Software	10
EEEE2074	Energy Conditioning Group Design Project	20

Year 4 Modules

Compulsory Modules

Module Code	Module Title	Credits
EEEE3102	Analogue electronics	20
EEEE3056	Third Year Project	30
EEEE3101	Professional studies	10

Optional Modules

Group 1: Students must take 20-40 credits from this group

Module Code	Module Title	Credits
EEEE3103	Power electronic applications and control	20
EEEE3104	Electrical machines, drive systems and applications	20

Group 2: Students must select between 20 credits and 40 credits from this group

Module Code	Module Title	Credits
EEEE3109	Mobile technologies	10
EEEE3070	Embedded Computing	10
EEEE3076	Robotics, Dynamics and Control	10
EEEE3077	Artificial Intelligence System	10
EEEE3107	Advanced engineering mathematics	10
EEEE3124	Internet of Things (IoT)	20

EEEE3125	Digital VLSI Design	10
EEEE3110	Sensing systems and signal processing	10

