

BACHELOR OF ENGINEERING IN ELECTRONIC ENGINEERING

CODE: TA_EELEC_D

2 years part time

Who is this course for?

The Bachelor of Engineering Programme is designed to provide students with a proficiency in Electronic Engineering and equip them with professional engineering skills and knowledge that prepares them for employment or further study. Graduates of the Programme will demonstrate a strong knowledge of electronic hardware and embedded computing technology and display excellent troubleshooting and problem solving skills.

Entry Requirements

This Programme is a part time Add-On programme to the Higher Certificate in Electronic Engineering. Applicants need to hold a Higher Certificate in Electronic Engineering or an equivalent qualification.

Course Timetable

The course runs three evenings per week over two semesters. Alternatively, students may attend for one full day (including evening) each week.

Who can apply?

This course is open to all eligible students

Course Summary

This Programme provides you with the skills necessary to work in all aspects of the ICT industry including electronics, information technology, telecommunications, and

computer network engineering, while also offering the graduate an option of progressing to an Honours Degree programme. The Programme focuses on hardware and data communications design. Students spend approximately 60% of their time working with advanced equipment and software in our laboratories.

Career Opportunities

With our industry-relevant curriculum, graduates will be well placed to meet the needs of industry. Graduates can work in areas such as product design, maintenance, wireless system maintenance and computer networking design and support.

Course and Exam Information

The Bachelor of Engineering Programme is delivered over two years with examinations in January and May of each year. The Programme introduces specialist design-based modules in communications, computing networks, digital circuit design, control systems and the fabrication of microelectronic devices. In addition you will take an Integrated Project module normally over two semesters.

KEY DATES

INDUCTION	1 st /8 th September 2018
CLASSES BEGIN	Mid-September 2018
CLASSES FINISH	End April 2019
EXAMS	January and May 2019
RESULTS	June 2019

Head Start Maths and Head Start Academic English:

- 26th May – 30th June 2018 &
- 11th August – 8th September 2018

How to Apply

May 2018

Students apply directly to IT Tallaght

Please apply through www.it-tallaght.ie

Total cost of course (180 credits) is

Year 1 €1,290 / Year 2 €1,290

Please Note

You will be required to pay a €100 application fee with your application. If you are not offered a place on the course your application fee will be refunded. If you are offered a place on the course your fee will be put towards your full course fees. If you do not accept the offered place you will forfeit the application fee.

The balance of fees due are as follows:

On acceptance of place - €550

Payment of half your course fees due by 31 October 2018.

Payment of full fees due by 31 January 2019.

For further information – course specific

Please Contact: john.byrne@it-tallaght.ie

For queries on the application process

Please contact LLL@it-tallaght.ie or phone the Lifelong Learning Team @ 01-4042101

B. Eng (Hons) in Electronic Engineering (Semester 1–8)
 With Embedded B.Eng. in Electronic Engineering (Semester 1–6)
 With Embedded Higher Certificate in Electronic Engineering (Semester 1–4)

Streams	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
Mathematics Stream	Mathematics 1	Mathematics 2	Mathematics 3	Mathematics 4	Mathematics 5	Mathematics 6	Mathematics 7	Mathematics 8
Communications, Team Work & Project Work	Learning to Learn	Computer Aided Design	Project	Project	Integrated Lab work*	Integrated Lab work*	Project	Project
	Electronic Workshop							
Analogue Design	Electric Circuits 1	Electric Circuits 2		Control Systems		Control System Design		Analogue IC Design (E)
		Analogue Electronics		Solid State Circuits		Analogue System Design		
				Power Engineering				
Communications Eng			Computer Network Fundamentals	Routers & Switches	Network Design	Analysis of Analogue Communications	Analysis of Digital Communications	Wireless Comms (E)
			Radio Propagation Systems		Digital Communications		Comms Systems (E)	
			Internet Systems (E)	Network Eng (E)				
Software Development	Interactive Computer Programming	Interactive Embedded Systems	Java Programming	Microprocessor Fundamentals	C Programming	Embedded Systems	Software Devl. 1 (E)	Operating Systems (E)
							Software Devl. 2 (E)	
Engineering Science	Engineering Science				Semiconductor Fabrication		Semiconductor Device Physics (E)	Submicron MOSFET Fabrication (E)
Digital Design		Digital Systems 1	Digital Systems 2		Digital Design with Verilog		Digital FSM Design	Digital Processor Design (E)
								Digital Signal Processing