

BACHELOR(HONOURS) OF ENGINEERING IN ELECTRONIC ENGINEERING

CODE: TA_EELEC_B

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 trouble shooting 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 evening 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

The BEng (Hons) Degree in Electronic Engineering is a strong technically focused programme targeted at producing graduate

design engineers specialising in defining system architecture, electronic system design and solving engineering problems. Students gain expertise in hardware and software design across a wide range of areas from communications to software. The student will learn to work as part of a team while developing strong technical and design skills.

Career Opportunities

Graduates can work in areas such as semiconductor technology, process engineering, wireless networks, sustainable energy, and programming. Electronic Engineers are employed in technical roles in the IT industry designing high speed data equipment as well as coding.

Course and Exam Information

The Programme is delivered over two years with examinations in January, May, and July of each year. Students are provided with a major hardware or software project which constitutes an important element of the Programme. Students can tailor the Programme to an area of interest by selecting specific elective modules such as software design or communications systems. These electives will provide the opportunity to study a particular area of interest at a greater depth.

KEY DATES

INDUCTION	4 th /5 th September 2018
CLASSES BEGIN	Mid-September 2018
CLASSES FINISH	End April 2018
EXAMS	January and May 2019
RESULTS	June 2019



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How to Apply

Students apply directly to IT Tallaght

Please apply through www.it-tallaght.ie

Total cost of course €3650 per year

Please Note

You will be required to pay a €100 application fee with your application. If you are offered a place on the course your fee will be put towards your full course fees. The application fee is only refundable if the course does not run.

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: johno.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							Management Practice
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)	
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