

BACHELOR OF ENGINEERING IN ENGINEERING SOFTWARE

CODE: TA_EAENS_D

2 years part time

Who is this course for?

The Bachelor of Engineering in Engineering Software Programme is designed to provide students with a proficiency in software, particularly with a view to embedded computing systems. Engineering Software graduates from this Programme combine expertise in electronic engineering with advanced knowledge of computer hardware and software. Graduates who have an in-depth background in this rapidly advancing interdisciplinary field are well placed for interesting and rewarding careers at the interface of engineering and computing.

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 Programme focuses on engineering software and the interfacing of engineering

and computing. Students develop their design skills using industry standard programming languages, operating systems and applications. In addition to a thorough grounding in modern computer systems and programming, you will also study specialist units on topics such as digital communication systems, and computational intelligence.

Career Opportunities

ICT industries are likely to form the main sources of employment for graduates of the Programme. Companies involved in the technology sector need graduates with software skills to work in mobile system development, embedded system design, and computers network engineering.

Course and Exam Information

The Programme is delivered over two years with examinations in January and May of each year. The Programme introduces specialist software based modules in programming, computing networks, object orientated design, control systems and data structures. In addition students take a Software Project module. Students work with advanced equipment and engineering software systems in the laboratories.

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

How to Apply

Students apply directly to IT Tallaght

Please apply through www.it-tallaght.ie

Total cost of course 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: 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		
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 F SM Design	Digital Processor Design (E)
								Digital Signal Processing