

Bachelor of Science (Honours) **SOFTWARE DEVELOPMENT**

A new route to a degree in
Software Development!



**Complete the first two years of a four-year degree in
Portlaoise Institute – then complete the remainder of your
degree in SETU's Carlow Campus!**

South East Technological University (SETU) and Laois and Offaly Education and Training Board (LOETB) are participating in an innovative pilot Unified Tertiary Project to provide a co-delivered degree programme in Portlaoise. This programme will give people of Portlaoise and surrounding areas the opportunity to access a third level course in their local area without any requirement for a CAO application.

Starting September 2023!

Our Honours Software Development Degree will equip you with the qualifications to enable you to work in a vast array of organisations from small local companies to large multinationals. Course content in the first three years includes a broad range of subjects and an industry work placement. Year 4 concentrates on state-of-the-art, high-level software development topics such as secure app development, data science, distributed systems and an extensive project.

In this four-year course, you will complete the first two years in Portlaoise Institute, followed by Years 3 and 4 in SETU's Carlow Campus. Students will be registered with SETU from Year 1 and will have access to the full range of services available to all SETU students. Transport from Portlaoise to Carlow will be provided in Years 1 and 2 for cross-campus workshops.

ELIGIBILITY

Those wishing to be accepted onto the programme should meet the following minimum entry criteria:

- Leaving Certificate; 2H5 & 4O6/H7; including English or Irish O6/H7; Mathematics O6/H7, or
- Level 5 major award, or
- Other qualifications equivalent to a major award at level 5 on the NFQ

However, we will also accept your application if you are aged 21 or over but do not meet the minimum entry requirement. Your application will be assessed based on merit, taking into account your life experience, work or community experience.

If your first language is not English, the standard required is B2 (or equivalent) on the Common European Framework of Reference for Languages in writing, reading, listening and speaking. Evidence of achievement of this standard is necessary for entry to the programme.

LOETB and SETU's Unified Tertiary Programmes aim to encourage the participation and success of students from sections of society that are under-represented in higher education, by offering degree programmes at a local level. In the event of over subscription to the programme, priority will be given to applicants who most demonstrate local need.



Year	Location	Embedded Award
Year 1	Portlaoise Institute	Certificate in Computing (Component Award)
Year 2	Portlaoise Institute	Higher Certificate in Computing (Programming) (NFQ Level 6)
Year 3	SETU (Carlow)	Bachelor of Science in Software Development (NFQ Level 7)
Year 4	SETU (Carlow)	Bachelor of Science (Honours) in Software Development (NFQ Level 8)

Year	Semester 1 Subjects	Semester 2 Subjects
Year 1	<ul style="list-style-type: none"> • Applications and Interpersonal Communications • Computer Hardware 1 • Mathematics 1 • Networking 1 • Programming 1 	<ul style="list-style-type: none"> • Computer Hardware 2 • Mathematics 2 • Networking 2 • Programming 2 • Operating Systems
Year 2	<ul style="list-style-type: none"> • Web Programming and Databases 1 • Digital Logic • Data Structures and Algorithms • Object Oriented Software Development 1 • Systems Analysis and Testing 	<ul style="list-style-type: none"> • Assembly and C • Discrete Structures • Object Oriented Software Development 2 • Web Programming and Databases 2 • Project
Year 3	<ul style="list-style-type: none"> • Software Engineering • Advanced Programming • Operating Systems • Advanced Data Structures and Algorithms • Cloud Development 	Group Elective 1 <ul style="list-style-type: none"> • Approved Semester Abroad • Work Placement • Project
Year 4	<ul style="list-style-type: none"> • Concurrent Development • Data Science and Machine Learning 1 • Agile Software Development • Agile Software Verification • Project (Software Development) (part 1) 	Mandatory <ul style="list-style-type: none"> • Project (Software Development) (part 2) • Data Science and Machine Learning 2 • Secure Application Development Range of Group Electives

FEES

There are no registration fees for the first two years of the programme, which will be delivered in Portlaoise Institute. Students may be eligible to apply to SUSI for a grant to cover fees for Years 3 and 4.

Your Pathway!

1

Be driven by the career
you want rather than
the CAO points you get!

2

Apply to your
chosen course
via LOETB

3

Make your learning
objectives and progress
through your degree
with LOETB and SETU

4

Flexible modes of
learning and work
placement options

5

Complete your degree
studies and graduate!

FOR MORE INFORMATION, CONTACT

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To apply: <https://www.fetchcourses.ie/course/finder?sfcw-courseId=404908>



Take the next steps
towards earning
your degree!

 **National Tertiary Office**
Oifig Thrasachta Náisiúnta

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