



School of Engineering

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Department of Engineering Technology

Head: Albert Byrne, BSc, MSc

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Department of Trade Studies

Head: Denis O'Shea MIIIE (Mech)

The Department of Trade Studies offers block release apprenticeship studies and part-time industrial courses.

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Disclaimer

All course titles and information listed are subject to change

CODE: **WD010** LEVEL: **6**

Higher Certificate in Engineering in Electronic Engineering

COURSE FACTS

COURSE TITLE:
Higher Certificate in Engineering in Electronic Engineering

COURSE CODE: WD010

COURSE LEVEL: 6

DURATION: 2 years

COURSE ENTRY

LEAVING CERT:
Number of subjects at grade D or better: 5

REQUIRED SUBJECTS:
English/Irish: OD3/HD3
Mathematics: OD3/HD3

RECENT ENTRY POINTS:

YEAR:	2005	2006
Min points:	200	195

What is Electronic Engineering?

Electronic engineering is concerned with the design, development, manufacture and application of electronic devices, circuits and systems. Common electronic systems include applications like mobile phones, sound and vision systems, computer and information technology, automation and machine control, robotics and biomedical engineering.

What is the Higher Certificate in Engineering in Electronic Engineering course?

The Higher Certificate in Engineering in Electronics is a two-year course, which prepares students for employment and/or further education in the area of electronic engineering.

Career Opportunities

Graduates of the Higher Certificate in Engineering in Electronic Engineering find work in the following areas:

- Assembly, testing and troubleshooting of electronic equipment
- Operation and servicing of electronic equipment
- Technical sales and technical support
- Hardware and software computer applications

Follow on Study

BEng in Electronic Engineering

Special Features of the Course

There is a strong emphasis on practical work in the course and there is a project element in each semester where students construct and test electronic circuits. There is also hardware and software integration in some of these projects.

"I graduated from the National Cert in Electronic Engineering in 1997 and then transferred to the Diploma and subsequently the Degree, graduating in 2000 with a First Class Honours degree. I then began employment as a Telecommunications Software Engineer with Motorola in Cork.

I have worked on a number of different technologies, releases and products in the mobile telecommunications domain. In 2003, I used the experience and knowledge of working the mobile telephony/cellular network area to enter and win the Institution of Engineers of Ireland Associate Engineer of the Year Award.

The core subjects covered in WIT provided me with a good technical understanding. Not only was the actual information excellent, the whole support structure in WIT is excellent, from the lecturers, to members of lab staff, to the careers centre."

Emmett Cullinane, Higher Certificate in Engineering in Electrical Engineering



COURSE OUTLINE

YEAR ONE	SEMESTER 1
	Electronic Devices and Theory Engineering Science Electrical Science 1 Fundamental Engineering Maths Learning Skills Electronics Technology
	SEMESTER 2
	Discrete Active Circuits Combinational Digital Systems Electrical Science 2 Introductory Calculus Computer Aided Engineering Electronics Project
YEAR TWO	SEMESTER 3
	Linear Amps and Oscillators Sequential Digital Systems Telecommunications Fundamentals Further Calculus and Probability Electronic Systems 1 C Programming
	SEMESTER 4
	Non Linear Amps and Power Programmable Digital Systems Telecommunication Systems Linear Algebra and ODE's Electronic Systems 2 Control Systems

FOR FURTHER INFORMATION:

COURSE LEADER
Martin Hayes
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BEng in Electronic Engineering

CODE: **WD031** LEVEL: **7**

 **TRANSFER APPLICANTS ONLY**

What is Electronic Engineering?

Electronic engineering is concerned with the design, development, manufacture and application of electronic devices, circuits and systems. Common electronic systems include applications like mobile phones, sound and vision systems, computer and information technology, automation and machine control, robotics and biomedical engineering.

What is the BEng in Electronic Engineering course?

The BEng in Electronics is a one-year follow-on course from the Higher Certificate, which prepares students for employment and/or further education in the area of electronic engineering.

Career Opportunities

Graduates of the Bachelor of Electronic Engineering Degree will find work in the following areas:

- Telecommunications (e.g. Nokia, Ericssons)
- Microprocessor manufacture (e.g. Intel)
- Field service engineering (e.g. Siemens)
- Automotive Electronics
- Software development C/C++/JAVA
- Technical sales

Follow on Study

BSc (Honours) in Applied Electronics
BEng (Honours) in Electronic Engineering

COURSE OUTLINE

YEAR ONE
SEMESTER 1

Embedded Systems Project
Embedded HLL Programming
Industrial Measurement
Math.Transform Methods
Computer Interfacing
Embedded Arm Development

SEMESTER 2

Embedded Project Application
Embedded Software and RTOS
Industrial Instrumentation
Linear/Fourier Analysis
Computer Networking
Embedded Systems Design

Project Work

There is a strong emphasis on project work in the course. Students design, construct and test embedded electronic applications. Example project application areas include Robotics, Automotive Electronics, Telecommunications, Sensors and Interfacing to Mobile Phones and WWW. The BEng has a strong embedded electronic, software and instrumentation emphasis.

COURSE FACTS

COURSE TITLE:
BEng in Electronic Engineering
COURSE CODE: WD031
COURSE LEVEL: 7
DURATION: 1 year add-on

COURSE ENTRY

REQUIREMENTS:
Those who qualify for entry to this course are:

- Holders of a Higher Certificate in Electronic Engineering
- Holders of equivalent qualifications and/or experience, subject to interview



FOR FURTHER INFORMATION:

COURSE LEADER
Jason Berry
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CODE: **WD026** LEVEL: **8**

BSc (Hons) in Applied Electronics

COURSE FACTS

COURSE TITLE:
BSc (Hons) in Applied Electronics

COURSE CODE: WD026

COURSE LEVEL: 8

DURATION: 4 years

COURSE ENTRY

LEAVING CERT:
Total number of subjects at grade D or better: 6

Number of subjects at higher level grade C or better: 2

REQUIRED SUBJECTS:
English/Irish: OD3/HD3
Mathematics: OB3/HC3

RECENT ENTRY POINTS:

YEAR:	2005	2006
Min points:	290	305

What is electronics?

From computers to mobile phones, electronics is the technology that touches all aspects of our lives. Electronics is about creating microchip devices for sensing, processing, storing, and transmitting information.

What is the BSc (Hons) in Applied Electronics?

The BSc (Hons) in Applied Electronics is an exciting four year degree course, which prepares students for careers that are both financially and intellectually rewarding. The course programme covers a broad range of areas: computer technology (hardware and software), analogue and digital electronics, telecommunications, signal processing, and mathematics.

Career Opportunities

Career opportunities for graduates of this course exist as electronics engineers in various areas:

- Telecommunications
- Software and Computer industry
- Research and development
- Electronic and IC design
- Production
- Test/maintenance, and control/automation departments.

Examples of companies employing past graduates are:

- Intel
- Ericsson
- Analog Devices
- EMC
- Honeywell
- Dell
- Bausch & Lomb

Industrial Placement

A company placement programme takes place in the third year of the course from February to September to provide students with a real experience of the working environment. Past companies who have been involved in industrial placement includes: Intel, Ericsson, Analog Devices, Guidant, Honeywell, ESB, and many more.

Follow on Study

MEng in Electronic Engineering

“My time spent in WIT has not only provided me the qualifications required to pursue a career in engineering, but also the skills and confidence necessary to do so successfully”.

Brian Carr, BSc in Applied Electronics

“I completed a National Cert and a National Diploma in Electronic Engineering, and following this transferred into the Bachelor of Technology in Electronic Engineering, from which I graduated in 2004. During my third year of the degree course I completed a seven-month work placement in Intel. Having successfully completed the placement I was offered a permanent job during my final year and now am a full-time employee of Intel Ireland.

My time in WIT was thoroughly enjoyable. The lecturers were always extremely helpful and were very approachable. The wide range of engineering subjects and practical applications were extremely beneficial to me in gaining a wide range of knowledge, allowing for development into any number of disciplines”.

Carol Burke, BSc in Applied Electronics

COURSE OUTLINE

YEAR ONE	SEMESTER 1
	Analogue Devices Combinational Logic DC Circuit Analysis Engineering Science Fundamental Engineering Maths Learning Skills
	SEMESTER 2
	Analogue Circuits Sequential Logic AC Circuit Analysis Engineering Physics Fundamental Calculus GUI Development
YEAR TWO	SEMESTER 3
	Linear Electronics Digital Finite State Machines Telecom 1 Microcontroller Systems Introductory ODE Embedded HLL Programming
	SEMESTER 4
	Active Circuits Digital Systems Telecom 2 Application Project L. algebra Multi Diff Calculus Applied Embedded Programming
YEARS THREE & FOUR	SEMESTER 6
	Industrial Placement (February - September)
	SEMESTER 5 - 8
	In semester 7, students are assigned a project and are exposed to research, circuit design and implementation, simulation, use of equipment, and software development, in a work/ laboratory environment.
	Other topics of study in Semester 5 to 8: Telecommunications, Embedded Systems, Data Communications, Wireless Communications, DSP fundamentals, Signal & Systems, Industrial Studies and Marketing Management.

FOR FURTHER INFORMATION:

COURSE LEADER
Mohamed Medjaou
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BEng (Hons) in Electronic Engineering

What is the BEng (Hons) in Electronic Engineering?

The BEng (Hons) in Electronics is a four-year degree course recognised by Engineers Ireland (EI), which prepares students for employment in the electronics industry.

Career Opportunities

Graduates of the BEng (Hons) in Electronic Engineering may find employment in the following areas:

- Electronics Design
- Control Engineering
- Research & Development
- Test and Measurement
- Teaching
- Technical Support
- Electronic Sales

Industrial Studies and Placement

The Placement occurs in an electronics company from mid-February to mid-August. Prior to going on placement, there is an intensive course on Health & Safety, Resource Management and Ethics in Engineering.

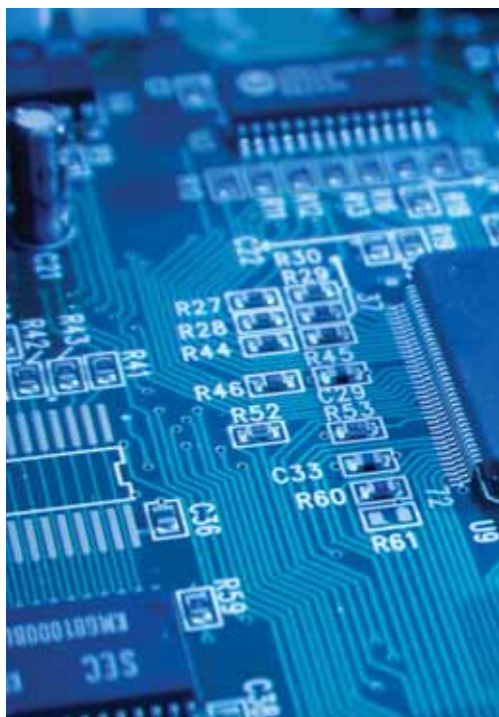
Companies which have taken students in the past include ABB, Abbott, Analog Devices, Bausch & Lomb, Braun, Datapac, EMC, Ericsson, ESB, GEA Automation, Honeywell, Howmedica, Intel, Janssen Pharmaceutical, Kromberg & Schubert, Lasercut Engineering, Measurex, Merck Sharpe & Dohme, Sanmina - SCI and Schering Plough.

Follow on Study

MEng in Electronic Engineering

Research Opportunities

Some recent graduates are pursuing Masters and PhD level research in Ireland and abroad.



COURSE OUTLINE	
YEAR ONE	SEMESTER 1 Analogue Electronic Device Combinational Logic DC Circuit Theory Physics 1 Engineering Maths Learning Skills
	SEMESTER 2 Analogue Electronic Circuits Sequential Logic AC Circuit Theory Physics 2 Maths Calculus Introduction to Programming Concepts
YEAR TWO	SEMESTER 3 Analogue Electronics 1 Finite State Machines Electric Circuit Theory Telecommunications Theory 1 Maths Ordinary Differential Equations Advanced Programming Concepts
	SEMESTER 4 Analogue Electronics 2 Digital Systems Sensors, Fields & Filters Telecommunications Theory 2 Maths Advances Calculus Software Engineering & OO Programming
YEAR THREE	SEMESTER 5 Analogue Control Advanced Engineering Maths Data Structures & Algorithms Semiconductor Fundamentals Electromagnetic Fields & Waves Telecommunications Theory
	SEMESTER 6 Industrial Studies Industrial Placement
YEAR FOUR	SEMESTER 7 & 8 In semester 7 & 8 there are elective streams in Computer Engineering (Virtual Machines, Embedded OS), RF engineering (Fields and Waves, Antennas) and Control & Networking (Digital Control, Data Networking).

CODE:	LEVEL:
WD086	8

COURSE FACTS

COURSE TITLE:
BEng (Hons) in Electronic Engineering

COURSE CODE: WD086

COURSE LEVEL: 8

DURATION: 4 years

COURSE ENTRY

LEAVING CERT:
Number of subjects at grade D or better: 6

Number at higher level grade C or better: 2

REQUIRED SUBJECTS:
English/Irish: OD3/HD3
Mathematics: HC3

RECENT ENTRY POINTS:

YEAR:	2005	2006
Min points:	375	390

FOR FURTHER INFORMATION:

COURSE LEADER
Paul O'Leary
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CODE: **WD011** LEVEL: **6**

Higher Certificate in Engineering in Mechanical Engineering

COURSE FACTS

COURSE TITLE:
Higher Certificate in Engineering in Mechanical Engineering

COURSE CODE: WD011

COURSE LEVEL: 6

DURATION: 2 years

COURSE ENTRY

LEAVING CERT:
Total number of different subjects at grade D or better: 5

REQUIRED SUBJECTS:
English/Irish: OD3/HD3
Mathematics: OD3/HD3

RECENT ENTRY POINTS:

YEAR:	2005	2006
Min points:	185	200

What is Mechanical Engineering?

Mechanical engineering is the branch of engineering that deals with the design and manufacture of machinery and tools. Mechanical engineers are responsible for the design of a wide range of machines, from domestic household appliances to sophisticated machines such as aircraft and automobiles.

What is the Higher Certificate in Engineering in Mechanical Engineering course?

The Higher Certificate in Engineering in Mechanical Engineering is a two-year full-time course. Course graduates are trained in many engineering disciplines including Engineering Drawing, CAD, Hydraulics, Pneumatics and Automotive Technology.

Career Opportunities

- Plant operation and maintenance
- CAD/ Drawing Office
- CNC Programmer
- Manufacturing Engineering Support
- Assistant Design Engineer
- Technical Sales Person

Industrial Visits

To reflect the practical nature of mechanical engineering, the course contains a number of laboratory classes. These include Workshop, Automation, Materials, Science and Automotive laboratories. In addition industrial visits and field trips are used to enhance the learning experience.

Follow on Study

BEng in Manufacturing Engineering
BEng (Hons) in Mechanical & Manufacturing Engineering

COURSE OUTLINE

YEAR ONE	SEMESTER 1
	Electrical Technology Learning Skills Workshop 1 Machine Systems Materials Technology 1 Fundamental Engineering Maths
	SEMESTER 2
	Production Technology Engineering Drawing / CAD Mechanical Science Engineering Science Introductory Calculus Machine Control & Assembly
YEAR TWO	SEMESTER 3
	Calculus Engineering Drawing / 3D CAD Applied Computing Electronics & Control Materials Technology 2 Production Plant
	SEMESTER 4
	Mathematical Methods Production Technology 2 Power Systems Workshop 2 Engineering Design Analysis Project

FOR FURTHER INFORMATION:

COURSE LEADER
Paul Allen
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BEng in Manufacturing Engineering

CODE: **WD032** LEVEL: **7**

 TRANSFER APPLICANTS ONLY

What is the BEng in Manufacturing Engineering Course?

This one-year add on course is designed to give students the basic knowledge and tools to enable them to work in a manufacturing environment with particular emphasis on automation and control of machines and processes. The topics include robotics, programmable logic controllers (PLC), design, transducers and operations management.

Career Opportunities

- Process Engineers
- Production Engineers
- Automation Specialists

Follow on Study

BEng (Honours) in Computer Aided Manufacturing

COURSE OUTLINE

YEAR ONE	SEMESTER 1	Manufacturing Design Manufacturing Technology Mechatronics Operations Management Differential Equations Project 1
	SEMESTER 2	Manufacturing Design - Operation Mechatronics 2 Process Control Robotics & Materials Handling Dynamics & Control Project 2
		Special Feature - Project The main project contributes to the students' learning and development and is also the most enjoyable feature of this course. This is so because all the projects deal with 'real' problems and every project has a client who needs the results. The method by which the project objectives are achieved is not known in advance and is therefore developed by the students, in conjunction with their supervisor and client.

COURSE FACTS

COURSE TITLE:
BEng in Manufacturing Technology

COURSE CODE: WD032

COURSE LEVEL: 7

DURATION: 1 year add-on

COURSE ENTRY

REQUIREMENTS:

Applicants should have successfully completed a Higher Certificate in Engineering in one of the following disciplines:

- Mechanical Engineering
- Production Engineering
- Industrial Engineering
- Manufacturing Engineering
- Any qualification considered equivalent by the course board.

Please note that reaching the minimum requirements will not guarantee a place on this course.



"After graduating I started working for DePuy Ireland (a Johnson & Johnson company) in June 2004. DePuy designs, manufactures and distributes orthopedic devices and supplies including hip, knee, extremity, trauma, orthobiologics, and operating-room products which are manufactured in line with the highest quality standards within a regulated environment. I work as a Manufacturing Engineer in the foundry, where we produce over 5000 implants per week using an investment casting process, which makes life at DePuy a challenging place to work.

Luckily my time in WIT helped prepare me to meet challenges in this line of work. I especially think the practical project work students undertake alongside the classwork provides graduates from this course with a real understanding into how what they learn in class is relevant to what they will end up working with in industry".

Kenny Williamson,
BEng in Manufacturing Engineering

FOR FURTHER INFORMATION:

COURSE LEADER
David Walsh
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CODE: LEVEL:

WD036 8

TRANSFER APPLICANTS ONLY

BSc (Hons) in Computer Aided Manufacturing



COURSE FACTS

COURSE TITLE:
BSc (Hons) in Computer Aided Manufacturing

COURSE CODE: WD036

COURSE LEVEL: 8

DURATION: 1 year add-on



COURSE ENTRY

REQUIREMENTS:

Students who complete the BEng in Manufacturing Engineering or its equivalent may apply for admission.

Please note that reaching the minimum requirements will not guarantee a place on this course.

What is Computer Aided Manufacturing?

Computer Aided Manufacturing involves the use of computer systems to design products, plan production, control operations and perform the various business-related functions needed in a manufacturing firm and their incorporation into an integrated computer system.

What is the BSc (Hons) in Computer Aided Manufacturing course?

The BSc (Hons) in Computer Aided Manufacturing is a one-year follow-on programme for graduates of the BEng in Manufacturing Engineering. The course prepares students to work with the latest computer-based technologies associated with modern manufacturing practice.

Career Opportunities

Graduates of the BSc (Hons) in CAM have found employment in the following areas:

- Process development and automation
- Plant specification
- Equipment commissioning
- Manufacturing and engineering management
- Resource planning
- Project control.

Gaining employment with many diverse organisations including: Allied Signal, Bausch & Lomb, Bulmer's, Boston Scientific, Abbott, Turnex, Wyeths, Genzyme, Johnson & Johnson.

Follow on Study

Graduates achieving an honours degree on this course may apply for MSc or PhD degree programs in WIT or elsewhere.

COURSE OUTLINE

YEAR ONE	
SEMESTER 1	Software engineering
	CAE
SEMESTER 2	Advanced Manufacturing
	Process Control
	Process Technology
	Project 1
	Project 2

Projects
Projects form a very enjoyable part of the course where students have the freedom to genuinely express themselves. Many of the projects undertaken have developed into postgraduate research projects and a number of final-year students have presented their work in published papers at international conferences.

Field Trips

Industrial visits and field trips form part of this course. Presentations from past graduates and industrial visitors are a regular feature.



FOR FURTHER INFORMATION:

COURSE LEADER
Liam O'Shea
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BEng (Hons) in Mechanical & Manufacturing Engineering

CODE: **WD085** LEVEL: **8**

What is Mechanical & Manufacturing Engineering?

This is a broad area focusing on the design and development of products and processes. Mechanical engineering has a strong product and equipment design element, while manufacturing engineering analyses the processes and systems required to produce goods.

What is the BEng (Hons) Mechanical & Manufacturing Engineering course?

This is a four year honours degree, which prepares students for employment in a very broad range of engineering situations.

Career Opportunities

Graduates of the course may find work in the following areas:

- Process Design and Improvement
- Enterprise Resource Management
- Product Design & Development
- Manufacturing Engineering
- Quality Management

Past Graduates are employed in a variety of companies including:

- Hewlett-Packard
- Intel
- Mercury Engineering
- Radley Engineering
- Abroad

Follow on Study

Graduates of the BEng (Hons) Mechanical & Manufacturing Engineering are eligible to proceed to postgraduate courses in WIT and other colleges.

Industrial Placement

Industrial placement takes place in semester 6, which can be up to six months duration (March - September). These placements have been very successful at providing for the students a perspective on the broad variety of material that they have covered in the course. Students have been previously placed in ABB Transformers (Waterford), Bausch & Lomb (Waterford), Honeywell (Waterford), Intel (Leixlip), Janssen Pharmaceutical (Cork), Lasercut Engineering (Shannon), Schering-Plough (Wicklow), and Stryker (Cork).

"I graduated from WIT in 2002. I am now a Mechanical Engineer with Intel. My work requires communication skills and knowledge of many topics. My job mainly consists of Layout Analysis, Capacity Analysis, Design Reviews for installation of machines, reviewing, modifying and updating layout plans for machines and routes, Co-ordinating Installation within the FAB, interfacing with Base Build, Manufacturing & Process Engineering, Materials and delivering presentations to colleagues and management groups.

I did my Work Experience in Bausch & Lomb, which was great, touching on the mechanical/design side of engineering. It can be tough to get through college, but if you balance the craic and work, you'll fly it."

Brian Cully, BEng (Hons) in Mechanical & Manufacturing Engineering

Field Trips

Industrial visits are an integral part of the course, providing the students with examples of authentic applications of course material. Other events, such as visiting lecturers or Engineering Society trips, occur on a regular basis.

COURSE OUTLINE		
YEAR ONE	SEMESTER 1	Fundamental Engineering Maths Physics Materials Science & Engineering 1 Engineering Mechanics Engineering Drawing Thinking & Learning Skills
	SEMESTER 2	Introductory Calculus Electrical Science Materials Science and Engineering 2 Mechanical Systems Computer Aided Draughting Manufacturing Systems
YEAR TWO	SEMESTER 3 & 4	Modules covered in subsequent semester Mathematical Methods, Advanced Calculus, Electrical Engineering, Electronic Engineering, Manufacturing Technology, Applied Mechanics, Programming for Engineers, Engineering Design, Computer-Aided Design, Computer Applications and Production Systems.
YEAR THREE	SEMESTER 5	Quality Management Industrial Power Systems Mechanics of Materials Measurement & Inspection Enterprise Resourced Management Fluid Mechanics
	SEMESTER 6	Industrial Studies Industrial Placement
YEAR FOUR	SEMESTER 7 & 8	Process Control, Facility Simulation & Reliability, Operations Strategy, Robotics: Theory and Applications, Thermodynamics, Process Engineering, Manufacturing Facilities, Advanced Materials, FEA & Design Tools, Engineering Management, Project.



COURSE FACTS

COURSE TITLE:
BEng (Hons) in Mechanical & Manufacturing Engineering
COURSE CODE: WD085
COURSE LEVEL: 8
DURATION: 4 years



COURSE ENTRY

LEAVING CERT:
Number of different subjects at grade D or better: 6
Number of at higher level grade C or better: 2

REQUIRED SUBJECTS:
English/Irish: OD3/HD3
Mathematics: OB3/HD3

A minimum HC3 in a laboratory science or technological subject compensates for not making the required grade in maths (OB3/HD3).

RECENT ENTRY POINTS:

YEAR:	2005	2006
Min points:	275	250



FOR FURTHER INFORMATION:

COURSE LEADER
Jim Lawlor
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Higher Certificate in Engineering in Building Services Engineering

CODE: **WD040** LEVEL: **6**



COURSE FACTS

COURSE TITLE:
Higher Certificate in Engineering in Building Services Engineering

COURSE CODE: WD040

COURSE LEVEL: 6

DURATION: 2 years



COURSE ENTRY

LEAVING CERT:

Total number of different subjects at grade D or better: 5

REQUIRED SUBJECTS:

English/Irish: OD3/HD3

Mathematics: OD3/HD3

RECENT ENTRY POINTS:

YEAR: 2005 2006

Min points:
185 210



FOR FURTHER INFORMATION:

COURSE LEADER

Colm Tynan, BSc Eng, MSc Eng
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What is Building Services?

Building Services Engineers deal with the design, installation and maintenance of mechanical and electrical systems within buildings. These systems include heating, ventilation, air-conditioning, refrigeration, energy management, water supply, drainage, fire prevention, lighting, electrical supply, control and renewable energy.

What is the Higher Certificate in Engineering in Building Services Engineering Course?

The Higher Certificate in Engineering in Building Services Engineering is a two year certificate course, which prepares students for employment in the engineering sector at technician level.

Career Opportunities

- Design and Consulting engineers
- Building Services contractors
- Facilities Management
- Energy Management
- Technical sales

Follow on Study

BEng in Building Services Engineering

Site Visits/Design Project

There are regular site visits throughout the course to see building services systems, such as heating, ventilation and air-conditioning, being installed in a variety of different building types. The students undertake a project in second year to design the services required for a modern commercial building.

COURSE OUTLINE

YEAR ONE	SEMESTER 1
	Heating & Water Services
	Mechanical Services Drawing
	Static Systems
	Fundamental Engineering Maths
	Building Components
	Learning Skills
SEMESTER 2	
	Mechanical Building Services
	Computer Aided Draughting [2D]
	Plant Dynamics
	Introductory Calculus
	Electrical Systems
	Heat & Energy
YEAR TWO	SEMESTER 3
	Hydraulic Systems
	Building Services Management
	Computer Services Design
	Applied Thermodynamics
	Mathematical Methods
	Computing
SEMESTER 4	
	Air Systems
	Electrical Building Services
	Acoustics & Lighting
	Mechanical Services Design
	Building Services Project
	Calculus



"I graduated in 2003 with a National Certificate in Environmental Engineering and transferred onto the National Certificate in Building Services Engineering from which I graduated in 2004. I am currently working in the Estimating Department (Tendering Contracts) of a Mechanical Contractors, H A O'Neil, who are part of a large group of Mechanical, Electrical and Commissioning companies known as the Jones Engineering Group. I am soon to work as a Site Engineer, working on a variety of projects including Intel, Tullamore Hospital, Whitfield Clinic, Eli Lilly Pharmaceuticals, St. John's Hospital, Castlehope Development, Guinness St James' Gate and many, many others.

My experience in WIT was excellent. Everything I learned from class work to projects/assignments was very relevant to what I'm doing now. Nothing was left undone and I'm still referring back to all my notes on a regular basis."

Dermot Murphy, Higher Certificate in Engineering in Building Services Engineering

BEng in Building Services Engineering

What is the BEng in Building Services Engineering course?

The BEng in Building Services Engineering is a one year add-on degree course for graduates of the Higher Certificate in Engineering in Building Services. This course prepares students for employment in the mechanical services engineering arena.

Career Opportunities

- Building Services Engineering Consultancies
- Building Services Engineering Contracting companies
- Commissioning of heating, ventilation and air-conditioning systems

Follow on Study

B.Eng (Hons) Building Services Engineering at DIT

Site Visits

Site visits take place during the course to see heating, ventilation and air-conditioning systems in buildings. This practical approach allows students to see these systems first hand before entering the workplace.

"I graduated with distinction from WIT in 2004 and was awarded a National Diploma in Engineering in Building Services. I had been working as an Engineer prior to enrolling at WIT and continued with my work throughout the period of my studies. I was working in collaboration with a refrigeration design consultancy on a large industrial project in Saudi Arabia and upon completion of the course at WIT, secured a position as design engineer with Johnston Reid & Associates in Dublin who are a progressive building services design consultancy. I am now working on a range of building projects including Hotels, Office/Retail Parks, Schools and Apartment Developments.


I was very impressed with the all-round education which I received at WIT. I am very grateful for the encouragement and assistance I received from the lecturers, staff and fellow students. In my day-to-day problem solving I am regularly brought back in my mind to a particular lecture to find a solution".

Sean Deegan, BEng in Building Services Engineering

COURSE OUTLINE

YEAR ONE	SEMESTER 1
	Mathematics
	Heating Systems
	Air-Conditioning Systems
	Building Services Control
	Computer Applications
	Building Services Project
YEAR TWO	SEMESTER 2
	Heating Plant & Cooling Plant
	Building Performance & Energy
	Building Energy Management
	Design & Draughting Project
	Building Services Management

CODE: **WD059** LEVEL: **7**

 TRANSFER APPLICANTS ONLY

COURSE FACTS

COURSE TITLE:
BEng in Building Services Engineering

COURSE CODE: WD059

COURSE LEVEL: 7

DURATION: 1 year add-on

COURSE ENTRY

REQUIREMENTS:

To apply for this course you must hold a Higher Certificate in Building Services Engineering or equivalent. Please note that reaching the minimum requirements will not guarantee a place on this course.



FOR FURTHER INFORMATION:

COURSE LEADER
Tom O'Brien
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CODE: **WD139** LEVEL: **7**

BEng in Civil Engineering

COURSE FACTS

COURSE TITLE:
BEng in Civil Engineering

COURSE CODE: WD139

COURSE LEVEL: 7

DURATION: 3 years

COURSE ENTRY

LEAVING CERT:

Total number of different subjects at grade D or better: 5

REQUIRED SUBJECTS:

English/Irish: OD3/HD3

Mathematics: OD3/HD3

RECENT ENTRY POINTS:

YEAR: 2005 2006

Min points: 260

What is Civil Engineering?

Civil Engineering specialises in the planning, design, construction and maintenance of major structures such as roads, railways, bridges, tunnels, airports, harbours, power stations and large structures of every kind from skyscrapers to offshore oilrigs.

What is the BEng in Civil Engineering course?

The BEng in Civil Engineering is a three-year degree course, which prepares graduates to find employment as civil engineering technicians in the civil engineering sector.

Career Opportunities

Civil Engineering technicians find employment with:

- Local authorities
- Civil engineering contractors
- Consulting engineers
- Government departments

Follow on Study

BSc (Honours) in Construction Management and Engineering

"I was always interested in the construction industry from a young age so it was always going to be the road I'd take as a career. I chose engineering because it was more hands on and less restricting than the other construction courses. I also heard from a friend that the course in WIT was widely renowned by both students and employers as one of the best in the country. So the decision on where to go was easy.

At first I was shocked to see the difference in school and college life. College is much more mature and relaxed. I had a great time in and out of the classroom and am really enjoying my course, even when I do have to put the head down!"

Eoin Mulcahy, BEng in Civil Engineering



COURSE OUTLINE

YEAR ONE	SEMESTER 1
	Intro to Land Surveying Civil & Structural Graphics Civil Engineering Mathematics 1 Mechanics (1) Civil Engineering Technology Intro to ICT
	SEMESTER 2
	Levelling Intro to CAD Civil Engineering Mathematics 2 Mechanics (2) Materials Technology (1) Engineering Science
YEAR TWO	SEMESTER 3
	Digital Surveying CAD (2) Environmental Engineering (1) Design of Structures (1) Management of Civil Engineers European Language (1) / Communications
	SEMESTER 4
	Setting Out Civil & Structural Draughting Construction Health & Safety Design of Structures (2) Soil Mechanics European Language (2) / International Studies
YEAR THREE	SEMESTER 5
	Advanced Surveying Research Methods Civil Engineering Mathematics 3 Structural Analysis & Design (1) Materials Technology (2) European Language (3) / Business Project
	SEMESTER 6
	CAD (3) Group Project Environmental Engineering (2) Structural Analysis & Design (2) Civil Engineering Construction European Language (4) / Mathematics (4)



FOR FURTHER INFORMATION:

COURSE LEADER
Tom O'Brien
Email: tobrien@wit.ie

BSc (Hons) in Quantity Surveying

Course Description

This programme has been designed to produce graduates who can successfully operate as professional quantity surveyors/costs consultants in the future Irish and global construction industry. They will be able to communicate effectively, have a working knowledge of relevant Information and Communications Technologies (ICT).

Career Opportunities

There has been a huge demand from the booming Irish construction industry for qualified Quantity Surveyors. This demand continues to exist with both Professional Quantity Surveying/Cost Consultant practices and with Construction companies.

Industrial Placement

Each student is required to complete a 30-week industrial placement relating to quantity surveying. This paid placement will be typically with either a quantity surveying consultancy or a construction company. Placements will normally be organised by WIT and be completed in Ireland. There is however the possibility of placements in the UK and further afield. Each placement will be have an academic supervisor and an industrial supervisor.

Follow on Study

MSc in Construction Project Management



COURSE OUTLINE		
YEAR ONE	SEMESTER 1	Introduction to Economics Measurement & Estimating (1) Mathematics Residential Technology (1) Communications & Study Skills Introduction to ICT
	SEMESTER 2	Introduction to Management Measurement & Estimating (2) Introduction to Construction Law Residential Technology (2) Introduction to Land Surveying Introduction to CAD
YEAR TWO	SEMESTER 3	Procurement Strategy Measurement & Estimating (3) Management Studies Commercial Technology (1) Services Technology (1) ELECTIVE
	SEMESTER 4	Cost Planning Measurement & Estimating (4) Introduction to Project Management Commercial Technology (2) Integrated Project ELECTIVE
YEAR THREE	SEMESTER 5	Construction Administration Measurement & Estimating (5) Contracts Studies Construction Health & Safety Advanced Technology ELECTIVE
	SEMESTER 6	Research Methods Industrial Placement
YEAR FOUR	SEMESTER 7	QS Professional Practice Advanced Measurement Project & Corporate Management Services Technology & Integration Dissertation Industrial Placement 2
	SEMESTER 8	Development Economics Marketing & Finance Construction Law & Ethics Value Management Dissertation ELECTIVE

CODE: **WD162** LEVEL: **8**

COURSE FACTS

COURSE TITLE:
BSc (Hons) in Quantity Surveying

COURSE CODE: WD162

COURSE LEVEL: 8

DURATION: 4 years

COURSE ENTRY

LEAVING CERT:
Total number of subjects at grade D or better: 6

Number of subjects at higher level grade C or better: 2

REQUIRED SUBJECTS:
English/Irish: OC3/HD3
Mathematics: OB3/HD3

FOR FURTHER INFORMATION:

COURSE LEADER
Mr Robert Smyth, BSs MSc
FSCS FRICS FCIOB
Email: rsmyth@wit.ie

CODE: **WD025** LEVEL: **8**

BSc (Hons) in Construction Management & Engineering

COURSE FACTS

COURSE TITLE:
BSc (Hons) in Construction Management & Engineering

COURSE CODE: WD025

COURSE LEVEL: 8

DURATION: 4 years

COURSE ENTRY

LEAVING CERT:

Total number of subjects at grade D or better: 6

Number of subjects at higher level grade C or better: 2

REQUIRED SUBJECTS:

English/Irish: OC3/HD3
Mathematics: OB3/HD3

RECENT ENTRY POINTS:

YEAR:	2005	2006
Min points:	300	295

What is Construction Management & Engineering?

Construction Management & Engineering prepares students for responsible engineering and management roles in all phases of construction projects. It emphasises management, engineering and technological techniques useful in organising, planning and controlling the activities of diverse specialists working in the project environment of the Irish and international construction industry.

What is the BSc (Hons) in Construction Management & Engineering?

The BSc (Hons) in Construction Management & Engineering is a four year course that prepares graduates for a career as professional construction managers and engineers in the Irish and worldwide construction industry.

What career opportunities are available on completion of the course?

- Project Management
- Construction Engineering
- Design & Build
- Information Technology
- Facilities Management
- Property Development
- National & International Projects
- Business Development

Industrial Placement

Each student is required to complete a 30-week paid industrial placement with a construction company in the second period (February to September) of the third year. The companies comprise general contractors in civil engineering, building and residential property, project management companies, specialist contractors, engineering design offices and materials manufacturers.

Follow on Study

MSc Construction Project Management

"I graduated from the BSc in Construction & Management Engineering in 2002. I began work as a Cost Engineer with Jacobs Engineering on the construction of Fab14. I was then seconded to Intel's cost control team where I worked as a lead Cost Engineer. In 2003 I began working for Wyeth Biopharma in their Biopharmaceutical plant where I was involved in the management of the costs associated with the commissioning and validation of the plant. I have now transferred into Wyeth's Engineering projects team, which is responsible for the managing of all new projects.

Classes in WIT were smaller and hence lecturers had more time to dedicate to their students. The large array of subjects that I studied as well as intensive project work and practical assignment have helped me throughout my career".

Cria Madigan, BSc (Hons) in Construction Management & Engineering

COURSE OUTLINE

YEAR	SEMESTER	COURSE OUTLINE
YEAR ONE	SEMESTER 1	Construction Measurement Introduction to Management Mathematics Construction Technology Introduction to ICT Communications & Study Skills
	SEMESTER 2	Construction Economics Management Studies Theory of Structures Engineering Services Intro to Construction Materials Introduction to CAD
YEAR TWO	SEMESTER 3	Intro to Construction Law Intro to Project Management Soils Engineering Construction Methods Services Technology European Language (1)/CAD (2)*
	SEMESTER 4	Tendering & Estimating Operations Management Design of Structures Introduction to Surveying Integrated Project European Language (2)/Int. Studies*
YEAR THREE	SEMESTER 5	Engineering Structure Site Surveying Construction Tech Systems Construction Health & Safety Measurement & Costing Business Project European Language*
	SEMESTER 6	Research Methods Industrial Placement
YEAR FOUR	SEMESTER 7 & 8	Construction Law & Ethics, Project & Corporate Management, Temporary Works Design, Services Tech & Integration, Dissertation, European Language (4)*, Foundation Engineering; Development Economics, Marketing & Finance, Quality & HRM, Innovative Technology, Dissertation, European Language (5)*, ICT Visualisation Technology *Optional/Elective

FOR FURTHER INFORMATION:

COURSE LEADER
Eugene O'Sullivan
Ph: 051 302084
Email: emosullivan@wit.ie

BSc (Hons) in Architecture

CODE: **WD144** LEVEL: **8**

What is Architecture?

Architecture is the art and science of building. Good architecture should link with the landscape, the people, the climate and the culture of a particular region as well as contributing in a sustainable fashion to the environment. Architecture is a public art and can improve the quality of our everyday life.

An architect brings 'design' into projects. They are design leaders and preferably involved throughout the totality of a project from the initial ideas to completion on site. There are many steps in the design process including, preparing the programme with the clients, visiting the site, developing a preliminary design for the building and refining it to make sure that it meets the client's needs and budget and complies with the regulations; applying for planning permission; preparing detailed drawings and specifications; obtaining quotes from builders; administering the contract between the client and the builder and checking that the building is being constructed in accordance with the drawings; making sure that payments to the builder are in order. An architect's job involves a lot of responsibility and creative thinking. They are above all problem solvers. Regardless of the size of the project, they juggle in a creative way diverse parameters such as context, climate, construction, craft and client's needs.

What is the BSc (Hons) in Architecture?

The BSc (Hons) in Architecture educates and empowers students with the knowledge, skills and power of thought necessary to bring together the challenges facing the construction world, the environment and the needs of the society of the future in a creative way. The process of architectural design is explored throughout the programme from simple architectural forms to complex building types. Conservation and Sustainable Design are integral parts of the programme.

There are two main elements in the BSc Arch programme. These are project work where skills in architectural design, drawing, modelmaking, CAD are developed and lecture programmes where the science of building and history of architecture and design are taught. Studio is the heart and soul of the course. Here a creative 'learning through doing' environment is nurtured. Design projects are themed to match subjects being explored in theory lectures. Project work is assessed on a continual assessment format and makes up 50% of the overall mark. All other subjects are a mixture of continual assessment and end-of-semester exams.

The programme also incorporates the new paradigm in education which is student focused by being more accessible and flexible in its delivery.

Career opportunities

- Architectural Design Offices
- Researching

Follow on Study

B.Arch. professional architectural programme
Masters programmes

COURSE OUTLINE

YEAR ONE	SEMESTER 1
	Design Studio: 'The Concept' & Graphics Cultural Context: 'A history of Architectural Ideas' Technology & the Environment: 'Introduction to structures' Analytical Design Skills
	SEMESTER 2
	Design Studio: 'Everything but the Building' & CAD Cultural Context: 'The history of the Human Habitat' Technology & the Environment: 'Technology & Materials' Communications & Introduction to ICT
YEAR TWO	SEMESTER 3
	Design Studio: 'The House & I' & Computers Cultural Context: 'History of the House' Technology & the Environment: 'Environmental Science 1' Language (E) Intensive Design (E) Publications (E)
	SEMESTER 4
	Design Studio: 'Housing & Collectivity' & Computers Cultural Context: 'A History of Collective Building Types' Technology & the Environment: 'Technology & Materials 2' Language (E) Life Drawing (E) Publications (E)
YEAR THREE	SEMESTER 5
	Design Studio: 'The Old & the New' & Computers Cultural Context: 'Conservation 1' Technology & the Environment: 'Environmental Science 2' Language (E) Life Drawing (E) Project Management (E)
	SEMESTER 6
	Design Studio: 'The Building in Context' & Communication Skills Cultural Context: 'A History of Public & Ritual Buildings' Professional Practice 1 Language (E) Life Drawing (E) Project Management (E)

(E) = Elective
Language = French, German, Italian or Spanish
Students chose one elective subject in each semester subject to availability



COURSE FACTS

COURSE TITLE:
BSc (Hons) in Architecture
COURSE CODE: WD144
COURSE LEVEL: 8
DURATION: 3 years



COURSE ENTRY

LEAVING CERT:
Total number of subjects at grade D or better: 6

Number of subjects at higher level grade C or better: 2

REQUIRED SUBJECTS:
English/Irish: OD3/HD3
Mathematics: OB3/HD3

RECENT ENTRY POINTS:

YEAR:	2005	2006
Min points:		450



FOR FURTHER INFORMATION:

COURSE LEADER
Jurgen Bauer, Dip. Ing. Architekt
Member of German Chamber of Architects
Email: jbauer@wit.ie

CODE: **WD094** LEVEL: **7**

BSc in Architectural Technology



COURSE FACTS

COURSE TITLE:
BSc in Architectural Technology

COURSE CODE: WD094

COURSE LEVEL: 7

DURATION: 3 years



COURSE ENTRY

LEAVING CERT:
Total number of subjects at grade D or better: 5

REQUIRED SUBJECTS:
English/Irish: OD3/HD3
Mathematics: OD3/HD3

RECENT ENTRY POINTS:

YEAR:	2005	2006
Min points:	330	350

What is Architectural Technology?

Architectural Technologists provide architectural design services and solutions. They are specialists in the science of architecture, building design, construction and conservation of new and existing buildings in the context of current building, planning and related legislation. The Architectural Technologist works closely with the Architect and other members of the design team on construction projects.

What is the BSc in Architectural Technology course?

The BSc in Architectural Technology is a three year course, which will enable participants for professional careers as architectural technologists and will provide the opportunities for graduates to progress to professional status and to be equal members of the design team.

Career Opportunities

- Architect's office
- Government department or local authorities
- Commercial firms, for instance manufacturers or suppliers in the building industry
- Setting up a company in specialist areas

Follow on Study

BSc (Hons) Architectural Technology
Transfer onto BSc in Architecture (subject to certain procedures)

"I choose Architectural Technology at WIT because of my keen interest in technical drawing, design and various aspects of both Architectural history and development. I find the course to be very enjoyable and rewarding and the lecturers and college staff are most helpful. I have had nothing but great experiences since I entered the college in 2005 and would encourage anyone thinking of pursuing a career in Engineering to do so in WIT."

Yvonne McEvoy, BSc in Architectural Technology



COURSE OUTLINE

YEAR ONE	SEMESTER 1	Introduction to House Design Introduction to House Construction Technology Introduction to Graphics Maths & Linear Surveying Introduction to ICT
	SEMESTER 2	Technical House Design House Construction - Building Regulations Environmental Science (1) Introduction to Architecture Introduction to CAD
YEAR TWO	SEMESTER 3	Framed Construction Projects Framed Construction - Building Regulations Architectural Communication (1) Design & Designers European Language (1) / Levelling
	SEMESTER 4	Small Commercial Buildings Framed Construction - Cladding Materials & Detailing (1) Environmental Science (2) European Language (2) / International Studies
YEAR THREE	SEMESTER 5	Materials & Detailing (2) Environmental Science (3) Architectural Communication (2) Conservation (1) European Language (3) / Business Project
	SEMESTER 8	Urban Development Projects Environmental Science (3) Management & Law European Language (4) / Site Surveying



FOR FURTHER INFORMATION:

COURSE LEADER
Gordon Chisholm BArch,
DArch, RIBA, OBE
Email: gchisholm@wit.ie

BSc (Hons) in Architectural Technology

What is the BSc (Hons) in Architectural Technology?

The BSc (Hons) in Architectural Technology is a one-year add-on course, which will enable participants for professional careers as architectural technologists and will provide the opportunities for graduates to progress to professional status or continue postgraduate studies. Sustainability and conservation are the most important subjects. A joint project with a school of architecture in Paris is an integral part of the course along with joint projects with students on the Architecture course.

Career opportunities

The architectural technologist's work may involve:

- Architecture and refurbishment of buildings
- Researching
- Analysing

Follow on Study

Masters or PHD by research
BSc Architecture programme

Renzo Piano Foundation Scholarship

Each year one student is awarded €10,000 and an internship programme in one of Renzo Piano's offices in Genoa, Italy or Paris, France.

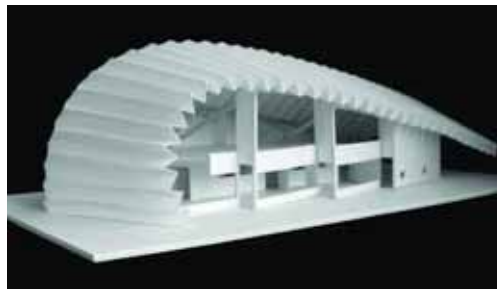
"I graduated from WIT in 2003 with a BSc (Hons) in Architectural Technology. After graduating, I got a job in the Architects Dept in Waterford City Council where I worked for six months. I worked on a number of Amenity, Urban Renewal and Social Housing schemes. I then moved to Duffy Henry Architects Ltd in Jan 2004. I am currently working on a number of new apartments, retail schemes and some building conservation projects.

My time at WIT was really enjoyable. The course was very project-based which really prepared me for the real working environment. The staff were very helpful and supportive, many of them have been practising architects for a number of years, and they passed on their valuable wisdom to the students."

Shane O'Connor, BSc (Hons) in Architectural Technology

COURSE OUTLINE	
YEAR ONE	SEMESTER 1
	SEMESTER 2

Contextual House Design
Environmental Science (4)
Construction Tech - Materials Conservation (2)
ICT Visualisation Technology
Euro Language (5) /Project & Corporate Management
Sustainability & Design Dissertation
Conservation Project
Management for Architectural Technologists
Euro Language (6) / Facilities Management



CODE: **WD092** LEVEL: **8**



TRANSFER APPLICANTS ONLY



COURSE FACTS

COURSE TITLE:
BSc (Hons) in Architectural Technology

COURSE CODE: WD092

COURSE LEVEL: 8

DURATION: 1 year add-on



COURSE ENTRY

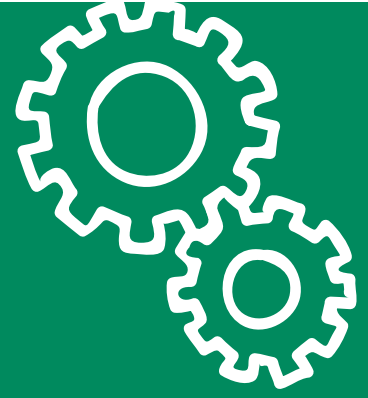
REQUIREMENTS:

Applicants must hold a BSc or equivalent in Architectural Technology and will be interviewed each candidate will undertake a bridging studies module.



FOR FURTHER INFORMATION:

COURSE LEADER
Robin Stubbs
Email: rstubbs@wit.ie



Trade Studies

Apprenticeship Courses

Trade Apprentice Block Release Courses

The trades for which the College provides block release courses are:

- Automobile Engineering
- Fitting & Turning
- Electrical
- Bricklaying

WIT offers these courses in association with FÁS, the training and employment authority.

The courses are mandatory for apprentices wishing to qualify as tradesmen under the recently introduced standards based apprenticeship.

Applications for Block Release Courses

Do not apply to these courses through the CAO system: entry is open only to apprentices who are already employed in a relevant trade and registered by their employer with FAS. For details of entry to a trade, please contact FÁS at:

FÁS

Services to Industry

Industrial Estate

Cork Road

Waterford

Part-time Courses in Trades

Part-Time courses in the above trades can be arranged to meet specific needs. If you are interested in this, please contact:

Mr Denis O Shea

Head of Trade Studies

WIT

Waterford

Ph: 051- 302410 or 302035

Hobby & General Interest Trade Courses

Details of hobby and general interest subjects such as car maintenance, welding, and so on are provided in the list of part-time evening courses contained in the part-time courses brochure.