

## HNC Mechanical Engineering



### In a nutshell

Our HNC Level 4 Mechanical Engineering has been designed in consultation with industry and is intended to link to local industry as much as possible, both in its content and in the mode of attendance.

The aim is to produce a highly qualified and knowledgeable engineer who can meet the requirements of the world of work. This is a specialist vocational programme with a strong work related emphasis.

The course provides a thorough grounding in the key concepts and practical skills required in the sector and is nationally recognised by employers, plus allows for further study at degree level and beyond.

### This course is for...

... those who want a career in Engineering, Design, Manufacturing or Maintenance

... students who are interested in the design and manufacturing of heat engines, electro



# COURSE INFORMATION LEAFLET

pneumatic & hydraulic systems, jet engines, vehicles, rockets and airplanes

... students who prefer vocational, hands-on courses

... numerate, creative and self-motivated individuals

## Course content

The course provides a thorough grounding in the key concepts and practical skills required in the sector.

You will study units including:

Year 1

Engineering Design  
Engineering Maths  
Engineering Science  
Mechanical Principles

Year 2

Managing a Professional Eng. Project  
Materials, Properties & Testing  
Fundamentals of Thermodynamics and Heat Engines  
Electro, Pneumatic & Hydraulic Systems

You will learn through a mixture of lectures, tutorials and practical sessions.

Assessment

Learners will be assessed via mainly coursework and few examinations.

## Entry Requirements

You would usually need at least one of the following:

A relevant BTEC Level 3 profile of Merit/Merit  
CC at A Level

Apply online at [www.colegwent.ac.uk](http://www.colegwent.ac.uk)

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CC grades at A Level plus C in Welsh Bacallaureate

Plus: GCSE passes in three subjects at grade C or above to include Maths and English Language (or equivalent).

Mature students with relevant industry experience who do not meet the academic qualifications will be considered individually via interview.

### **Additional information**

Upon completion, you can progress onto a Level 5 HND in Mechanical Engineering or the first/second year of a university degree programme.

Alternatively, you can go into technician engineering positions.

You will attend college eight hours per week, 30 weeks per year.

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