

DEFINITIVE COURSE RECORD

Equipping individuals with knowledge, understanding and skills for success in employment in the mechanical/electronic/electrical engineering industries;

Providing specialist studies relevant to vocations and professions in which students are working (or intend to seek employment) within mechanical/electronic/electrical engineering and related industries;

Enabling progression to or counting towards an undergraduate degree or further professional qualification in mechanical/electronic/electrical engineering or related area;

Providing a significant educational base for progression to Incorporated Engineer level.

Course Learning Outcomes

The following statements define what students graduating from the HNC Engineering (General Engineering) course will have been judged to have demonstrated in order to achieve the award. These statements, known as learning outcomes, have been formally approved as aligned with the generic qualification descriptor for level 4 awards as set out by the UK Quality Assurance Agency (QAA)⁶.

1. Demonstrate the ability to critically analyse, synthesise and summarise information to produce engineering reports.
2. Use technical literature critically and demonstrate understanding through problem-solving in an engineering context.
3. Utilise innovative and independent thinking to solve engineering problems.
4. Support study progress, professional and personal development through recognition of – and responsibility for – own learning style.
5. Apply knowledge of the engineering sector and display understanding to the addressing of familiar and unfamiliar problems.

6. Apply investigative techniques to engineering proje engineee3].002t6 (r)-6 (i)2.6 (ng (t)-6.6eaTj -0.0 offhni.6 (o14.13 0 Td (.)4j -0.002 Tcd ()Tj EMC /P <</MCID 57 >>BDC -22.77 -1.141 T10.28 Tj 0 T

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England, Wales and Northern Ireland, and Quality Assurance Agency (QAA) Subject Sector Benchmarks. These qualifications are part of the UK Regulated Qualifications Framework (RQF).

Course Structure

The HNC Engineering (General Engineering) comprises modules at levels 4 only.

Module Specifications for each of these modules is included within the course handbook, available to students on-line at the beginning of each academic year. This will contain the details of the 8 modules offered from the syllabus as provided by Pearson, outlined below:

| | Module | Credits ⁷ |
|---------|---|----------------------|
| Level 4 | | |
| | Engineering Maths | 15 |
| | Engineering Science | 15 |
| | Engineering Design | 15 |
| | Managing a Professional Engineering Project | 15 |
| | Mechanical Principles | 15 |
| | Materials, Properties and Testing | 15 |
| | Fundamentals of Thermodynamics and Heat Engines | 15 |
| | Electrical and Electronic Principles | 15 |

Full-time students will undertake these modules within one academic year.

Awards

On successful completion of the course, students will be awarded an HNC Engineering (General Engineering).

Course Delivery

The course is delivered at East Coast College Great Yarmouth campus. Students studying on HNC Engineering (General Engineering) are likely to have approximately 12 contact hours per week full-time study, and 9 hours per week part-time study. The contact hours will be a mix of class sessions, practical time in workshops, use of IT rooms and tutorials. The total hours for the course per student should amount to around 1200 hours, which includes both attendance at college and independent study hours.

Course Assessment

A variety of assessments will be used on the course to enable students to experience and adapt to different assessment styles. The assessment methods used will be appropriate to assess each module's intended learning outcomes. Assessment on the course overall will be predominantly coursework (including essays, reports, presentations, group work activity and research projects) and a small number of practical assessments. There are no examinations on this programme.

⁷ Units designated as mandatory core (MC) must be taken and passed in order to achieve the award. For further information, see the [Framework and Regulations for Higher National Awards](#)

