

POST 16 SUBJECT OVERVIEW

Post 16 Subject Overview

Name of Subject

Edexcel BTEC Level 3 NQF National Diploma in Mechanical Engineering

Which Examination Specification is Studied for this Course?

BTEC

Why should I study this course?

The BTEC Level 3 NQF National Diploma in Mechanical Engineering has been designed for students that want a strong core of mechanical engineering knowledge. Offering you the opportunity to gain a broad understanding and knowledge of the engineering sector whilst gaining a more focused understanding of engineering through the selection of optional and specialist units. You will have the opportunity to develop a range of personal skills and techniques, through the selection of optional units that are essential for successful performance in working life.

The BTEC Level 3 NQF National Diploma in Mechanical Engineering enables progression to employment and/or continue your study in the same, or related vocational area.

Who is suitable to study this course?

Students who are looking for a vocational or academic course which allows progression into University or into an apprenticeship. If you are interested in a career in the Engineering sector such as mechanical, automotive and electrical engineering.

What GCSE Qualifications Support the Study of this Course?

English

Maths

Tech Award in Engineering

What are the Qualification Requirements for this Course?

Minimum of a Grade 5 in English and Maths

How is the Course Delivered?

The course is delivered by 1 teacher with 10 hours of lessons per week. Students are expected to complete 5 hours per week independent study. The course is delivered using a mix of theory, workshop practical, research skills and application of knowledge, similar to the delivery method in the Tech Award in Engineering.

Google Classroom is used to set, complete and submit work. All relevant teaching resources are available in the Classroom. All learners will have the opportunity to experience the vocational elements of the programme, and develop practical skills, such as demonstrating engineering manufacturing that will help prepare learners for the world of work.

Subject Overview		
Half Term	Year 12	Year 13
Autumn 1	<ul style="list-style-type: none"> Unit 2: Delivery of Engineering Processes Safely as a Team 	<ul style="list-style-type: none"> Unit 25: Mechanical Behaviour of Metallic Materials
Autumn 2	<ul style="list-style-type: none"> Unit 42: Primary Forming Processes 	<ul style="list-style-type: none"> Unit 25: Mechanical Behaviour of Metallic Materials Unit 4: Applied Commercial and Quality Principles in Engineering
Spring 1	<ul style="list-style-type: none"> Unit 30: Mechanical Measurement and Inspection Technology 	<ul style="list-style-type: none"> Unit 3 Exam Unit 1 Exam
Spring 2	<ul style="list-style-type: none"> Unit 5:A Specialist Engineering Project 	<ul style="list-style-type: none"> Unit 24: Maintenance of Mechanical Systems
Summer 1	<ul style="list-style-type: none"> Unit 5:A Specialist Engineering Project 	<ul style="list-style-type: none"> Unit 24: Maintenance of Mechanical Systems
Summer 2	<ul style="list-style-type: none"> Unit 10: Computer Aided Design in Engineering 	

How is the Course Assessed?

The course is assessed through a blend of internally assessed coursework and externally assessed assessments.

Unit 1 and Unit 3 of this qualification is Externally assessed, the unit provides learners with a sound knowledge of the breadth of Mechanical Engineering.

What is our Recommended Subject Reading list to Support your Study? -

BTEC Level 3 National Engineering Student Book