KS5

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	Mini Coursework project. Sketching and 3D CAD skills are required to design and manufacture a working Bike light. 3D printing and block modelling skills are developed throughout.		Coursework project begins. Identifying a problem and client	Assessment Objective 1 Investigation.	Assessment Objective 2 Design ideas. Design ideas Further research review	
		Materials. 1. Woods 2. Metals 3. Polymers 4. composites	1.2 Performance characteristics of materials. 1.3 Material properties	3.1-3.4 Processing and Joining techniques of materials	PPE Prep Exam questions and Model answers 5.3 The influence of aesthetics, ergonomics	5 Factors influencing the development of products
Year 13	Assessment Objective 2 Development.		ke Ogs	Assessment Objective 4 Evaluation. Evaluation and Testing Final exam prep Exam Question and Techniques.		
	PPE Prep Exam questions and Model answers	Methods of production One-off production Batch production High-volume production	Robotics in production Materials handling syst Flexible manufacturing modular/cell productio	systems IFMSI. n systems ng just-in-time Jit systems ight-in components acturing [QRMI		