

	6.09	13.09	20.09	27.09	4.10	11.10	18.10	25.10	1.11	8.11	15.11	22.11	29.11	6.12	13.12	20.12	27.12	3.01	10.01	17.01	24.01	31.01	7.02	14.02	21.02	28.02	6.03	13.03	20.03	27.03	3.04	10.04	17.04	24.04	31.04	7.05	14.05	21.05	28.05	4.06	11.06	18.06	25.06	2.07						
	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 14	WEEK 15	WEEK 16	WEEK 17	WEEK 18	WEEK 19	WEEK 20	WEEK 21	WEEK 22	WEEK 23	WEEK 24	WEEK 25	WEEK 26	WEEK 27	WEEK 28	WEEK 29	WEEK 30	WEEK 31	WEEK 32	WEEK 33	WEEK 34	WEEK 35	WEEK 36	WEEK 37													
Year 10	Y10 MOCK NEA & DESIGN CONSIDERATIONS										Y10 MOCK NEA & COMMUNICATING DESIGN IDEAS										Y10 MOCK NEA & MANUFACTURING PROCESSES & TECHNIQUES										Y10 MOCK NEA, MATERIAL & MANUFACTURING CONSIDERATIONS										Y10 EXPLORING THE NEA CONTEXTS									
	Introduction to course content and assessment processes	Primary user & wider stakeholders Intro to Y10 project	Exploring existing solutions related to Y10 project context	Ergonomics & anthropometrics	Primary user requirements Sketching and modelling approaches	Environments & location for use on material selection	Stock forms Developing ideas	Developing ideas CAD/CAM in the production of prototypes	Materials and processes used to make iterative models Digital tools and media	Standard components, off the shelf parts and stock forms Iterative modelling	Costing Iterative modelling	Structural integrity Iterative modelling	Impact of design solutions on user lifestyles Final solution	Assessment New and emerging technologies	Feedback and PRT	Introduction to manufacturing Material categories, properties and uses	Marking out, accuracy & minimising waste Unit costs, quantities, weights and sizes	Jigs, templates and patterns Manufacturing	Wasting processes Manufacturing	Addition processes Manufacturing	Deforming/reforming processes Manufacturing	Manipulating and joining materials Manufacturing	Conversion of stock materials into components Manufacturing	Smart, modern and composite materials Manufacturing	Past and present professionals leading in application of new materials Manufacturing	Industry professional use of digital design to explore and develop ideas Manufacturing	Assessment Finalise manufacturing	Feedback Introduce CAD contextual challenge	Initiate CAD challenge CAD tutorials	Disruptive technologies CAD contextual challenge	Product life cycles Virtual modelling	Product evolution Virtual modelling	Introduction of NEA contexts Mindmapping	Exploring the contexts Mood boards	Design brief, identification of primary user and wider stakeholders Examination	Analysis of existing products Primary product analysis	Feedback & PRT													
Year 11	Y11 EXPLORING THE NEA CONTEXTS & TECHNICAL AND DESIGN CONSIDERATIONS										Y11 THE ITERATIVE DESIGN PROCESS & MANUFACTURING PROCESSES AND TECHNIQUES										Y11 THE ITERATIVE DESIGN PROCESS & MANUFACTURING PROCESSES AND TECHNIQUES										Y11 MANUFACTURING, TESTING & EVALUATION										REVISION									
	Introduction to course content and assessment processes	Design brief & identification of primary user and wider stakeholders	Stakeholder survey Integration of movement into products	Analysis of survey results Mechanical devices and control	Primary user interview Inputs, processes and outputs in simple and complex products	Materials research & components Electronic components	Technical research Ergonomics & anthropometrics recap	PUN/ Primary User Needs Non technical structural integrity	Focus on primary material types, properties and uses Initial ideas	Focus on primary material types, properties and uses Initial ideas	Focus on secondary material types, properties and uses Initial ideas review	Wasting processes Initial ideas review	Additive processes Iterative modelling & development of ideas	Forming/reforming processes Iterative modelling & development of ideas	Finishing processes and finishes Iterative modelling & development of ideas	Joining and manipulation of materials Iterative modelling & development of ideas	Tolerance Finalise development section	Scale of production Final idea	Industrial manufacturing processes Finalise manufacturing of final prototype	Industrial manufacturing processes Finalise manufacturing of final prototype	Industrial manufacturing processes Finalise manufacturing of final prototype	Industrial manufacturing processes Finalise manufacturing of final prototype	Unit 1 revision - Design Consideration 5 Manufacturing	Unit 1 revision - Design Consideration 5 Manufacturing	Unit 2 revision - Communicating ideas Manufacturing	Unit 3 revision - Material Consideration Feasibility testing	Unit 3 revision - Material Consideration Feasibility testing	Unit 4 revision - Technical Understanding Evaluation and modifications	Unit 4 revision - Technical Understanding Finalise NEA	Unit 5 revision - Manufacturing Consideration Finalise NEA	Unit 5 revision - Manufacturing Consideration Final NEA deadline	Revision	Revision	Revision	Revision & examination															
Year 12 Product Design & Graphics	Y12 UNIT 5 - MATERIALS & FOCUSED PRACTICAL TASK 1										Y12 UNIT 5 - MODERN MATERIALS & FOCUSED PRACTICAL TASK 2										Y12 UNIT 1, 4 & 3 - STAKEHOLDER REQUIREMENTS, USABILITY, COMMUNICATION METHODS & WIDER ISSUES IN D&T										Y12 UNIT 6 & 3 STRUCTURAL INTEGRITY, THE WIDER ISSUES AND THE BUILT ENVIRONMENT										Y12 UNIT 2, 4 AND 7 - EXISTING PRACTICE, COMMUNICATION METHODS, MANUFACTURING METHODS & INITIATION OF THE NEA									
	Introduction to course content and assessment processes	Unit 5.1 Classification and properties of materials Initiate focused practical task	Unit 5.2 Timbers and boards Focused practical task	Unit 5.3 Polymers Focused practical task	Unit 5.3 Biopolymers Focused practical task	Unit 5.4 Metals Completion of focused practical task	Unit 5.5 Textiles Initiate focused practical task 2	Unit 5.6 Composite materials Focused practical task 2	Unit 5.6 Modern materials Focused practical task 2	Unit 5.6 Smart materials Focused practical task 2	Assessment Focused practical task 2	Feedback Completion of focused practical task 2	Unit 1.2 Stakeholder analysis Usability design criteria	Unit 4.1 Communication on Methods Design ideas and annotation	Unit 1.3 Usability, ergonomics and anthropometrics Unit 3.6 Maths in D&T Development of design ideas using CAD	Unit 4.2 Industry professional communication on Finalisation of usability project - CAD and iterative modelling	Unit 6.1 Structural Integrity Initiate built environment project	Unit 3.1 Environments Issues, circular economy and Life Cycle Assessment Initial ideas for building - CAD and hand rendering	Unit 3.6 Energy and environmental incentives & directives Initial manufacture using CAD	Unit 3.2 DFM, TQM, planning and scale of production Assembly of building prototype	Assessment Complete assembly of building prototype	Feedback Complete manufacturing of building prototype	Level coursework Mind mapping	Feasibility studies and mood boards Existing practice research	Unit 2.2 New technological developments Feasibility studies and markability survey Existing practice research	Unit 2.4 Product life cycle including marketing Design brief and identification of stakeholders Existing practice research	Unit 4.3 Approaches to design thinking Research plan and Gantt chart for project management	Unit 7.4 Scale of production Inspiration and influences research Primary research	Unit 7.3 Polymer forming processes Stakeholder surveys and interviews	Unit 7.3 Polymer forming processes Stakeholder surveys and interviews	Examination Materials research	Examination Technical research	Feedback Design criteria	Hand in coursework for assessment	PRT & Feedback															
Year 12 Textiles	Y12 UNIT 2&6 - EXISTING PRACTICE & TECHNICAL UNDERSTANDING - FOCUSED PRACTICAL TASK 1										Y12 UNIT 5&6 MATERIAL CONSIDERATION & TECHNICAL UNDERSTANDING - DESIGN CHALLENGE TASK										Y12 UNIT 1,4,6&7 STAKEHOLDER REQUIREMENTS, USABILITY, COMMUNICATION METHODS, TECHNICAL UNDERSTANDING & MANUFACTURING PROCESSES										Y12 UNIT 2, 4 AND 7 - EXISTING PRACTICE, COMMUNICATION METHODS, MANUFACTURING METHODS & INITIATION OF THE NEA																			
	Introduction to course content and assessment processes	Unit 6.1 Decorative components Initiate focused practical task	Unit 6.2 Printing Focused practical task	Unit 6.1 Fastenings Focused practical task	Unit 6.2 printing Focused practical task	Unit 6.2 printing Focused practical task	Unit 6.1 Decorative components Focused practical task	Unit 6.1 Fully fashioned knitwear Initiate design challenge task	Unit 5.2 Natural Fibres with a focus on wool Unit 6.1 Reduction of fullness Design challenge task	Unit 5.2 Synthetic fibres Unit 6.1 Reduction of fullness Design challenge task	Unit 5.2 Regenerated fibres Unit 6.1 Construction 1 understanding Design challenge task	Unit 5.2 Yarns Unit 6.2 Dyeing Design challenge task	Unit 5.2 Knitted & woven construction Unit 6.2 Dyeing Design challenge task	Unit 6.2 Mechanical techniques Unit 6.2 Dyeing Design challenge task	Unit 6.2 Digital printing Focused practical task 2	Unit 4.1 Graphic communication Unit 6.2 Digital printing Focused practical task 2	Unit 4.2 Industry professional communication Unit 6.2 Digital printing Focused practical task 2	Unit 4.3 Approaches to design thinking Unit 6.2 Digital printing Focused practical task 2	Unit 1.1 Exploring contexts Initiate focused practical task 2	Unit 1.2 Stakeholder analysis Focused practical task 2	Unit 1.3 Usability, ergonomics and anthropometrics Unit 7.1 Iterative models Focused practical task 2	Unit 7.2 Final prototypes Industrial printing techniques Focused practical task 2	Unit 7.3 Commercial product processes Focused practical task 2	Assessment Complete assembly of focused practical task 2	Feedback Complete manufacturing of focused practical task 2	Initiate A Level coursework project Mind mapping	Unit 2.1 Analysis and evaluation of products Feasibility studies and mood boards Existing practice research	Unit 2.2 New technological developments Feasibility studies and markability survey Existing practice research	Unit 2.4 Product life cycle including marketing Design brief and identification of stakeholders Existing practice research	Unit 7.3 Industrial dyeing & printing Research plan and Gantt chart for project management	Unit 7.3 Computerised processes Inspiration and influences research	Unit 7.4 Scales of production Primary research	Unit 7.5 Quality Stakeholder surveys and interviews	Examination Materials research	Examination Technical research	Hand in coursework for assessment														
Year 13 D&T	Y13 UNIT 4 & 7 - DESIGN THINKING, WORKSHOP MANUFACTURING PROCESSES AND THE ITERATIVE DESIGN PROCESS										Y13 UNIT 7 & 6 - COMMERCIAL MANUFACTURING PROCESSES, FINISHES AND THE ITERATIVE DESIGN PROCESS										Y13 UNIT 8 & 9 - VIABILITY, HEALTH & SAFETY AND MANUFACTURING FOR THE NEA										Y13 UNIT 3 - MATHS IN D&T AND COMPLETION OF MANUFACTURING, TESTING & EVALUATION										Y13 REVISION									
	Introduction to course content and assessment processes	Unit 4.3 Approaches to design thinking Conclusion of research and finalisation of user and stakeholder requirements	Unit 7.2 wasting materials including sawing and drilling Logo design	Unit 7.2 wasting materials including routing and turning Logo development	Unit 7.2 Joining materials Initial ideas	Unit 7.2 Wood joints and knock down fittings Initial ideas review	Unit 7.2 Forming and reforming polymer and metals Initiate the iterative development phase	Unit 7.2 Steam bending and timber lamination Initiate the iterative development phase	Unit 7.2 Casting Iterative modelling and development	Unit 7.2 Compression moulding, piercing, stamping, etc. Iterative modelling and development	Unit 7.2 Digital technology Iterative modelling and development	Assessment Iterative modelling and development	Unit 7.3 Commercial polymer processing and manufacturing processes Iterative modelling and development	Unit 7.3 Commercial metal processing and manufacturing processes Iterative modelling and development	Unit 7.3 Automation and accuracy Iterative modelling and development	Unit 7.4 Design efficiency & optimisation Identify iteration for suitable for final refinement	Unit 6.1 Structural integrity recap 6.2 Finishes Final idea	Unit 8.1 Viability Manufacturing specification	Unit 8.2 Materials testing Manufacturing specification	Unit 9.1 Health & Safety Materials testing	Unit 9.1 Risk assessment Risk assessment Manufacturing	Unit 9.2 Legislation Manufacturing	Unit 9.2 Legislation Manufacturing	Unit 3.3 Manufacture & materials Manufacturing	Unit 3.4 Distribution Manufacturing	Unit 3.6 Maths in D&T Evaluation and user testing	Unit 3.6 Maths in D&T Feasibility & viability	Unit 3.6 Maths in D&T Future modifications	Final coursework deadline	Revision	Revision	Revision & examination	Revision & examination																	
Year 13 Textiles	Y13 UNIT 4 & 7 - DESIGN THINKING, WORKSHOP MANUFACTURING PROCESSES AND THE ITERATIVE DESIGN PROCESS										Y13 UNIT 7 & 6 - COMMERCIAL MANUFACTURING PROCESSES, FINISHES AND THE ITERATIVE DESIGN PROCESS										Y13 UNIT 8 & 9 - VIABILITY, HEALTH & SAFETY AND MANUFACTURING FOR THE NEA										Y13 UNIT 3 - MATHS IN D&T AND COMPLETION OF MANUFACTURING, TESTING & EVALUATION										Y13 REVISION									
	Introduction to course content and assessment processes	Unit 3.1 Environmental issues, circular economy and Life Cycle Assessment Conclusion of research and finalisation of user and stakeholder requirements	Unit 3.1 Energy and environmental incentives & directives Logo design	Unit 3.2 DFM, TQM, planning and scale of production Logo development	Unit 3.2 Factors when manufacturing products Initial ideas	Unit 3.4 Distributing products Initial ideas	Unit 7.2 Pockets Initial ideas review	Unit 7.2 Pockets Initiate the iterative development phase	Unit 7.1 Pattern drafting Iterative modelling and development	Unit 7.2 Seams Iterative modelling and development	Unit 7.2 Digital technology Iterative modelling and development	Assessment Iterative modelling and development	Unit 7.2 Principles of pattern cutting Iterative modelling and development	Unit 7.3 Commercial textiles processing and manufacturing processes Iterative modelling and development	Unit 7.3 Commercial metal processing and manufacturing processes Iterative modelling and development	Unit 7.3 Automation and accuracy Iterative modelling and development	Unit 7.4 Design efficiency & optimisation Identify iteration for suitable for final refinement	Unit 6.1 Structural integrity recap 6.2 Finishes Final idea	Unit 8.1 Viability Manufacturing specification	Unit 8.2 Materials testing Manufacturing specification	Unit 9.1 Health & Safety Materials testing	Unit 9.1 Risk assessment Risk assessment Manufacturing	Unit 9.2 Legislation Manufacturing	Unit 9.2 Legislation Manufacturing	Unit 3.3 Manufacture & materials Manufacturing	Unit 3.4 Distribution Manufacturing	Unit 3.6 Maths in D&T Evaluation and user testing	Unit 3.6 Maths in D&T Feasibility & viability	Unit 3.6 Maths in D&T Future modifications	Final coursework deadline	Revision	Revision	Revision & examination	Revision & examination																