Term 1 Multifunctional Storage Term 2 Electronics in Products	Term 3 NEA
Design theory Technological and cultural changes	June 1 st
Design communication Critical analysis and evaluation	
Design methods and processes Protecting design and intellectual processes	operty
Materials and their applications: timber National and international standards	in product design
Enhancement of materials Performance characteristics of mate	rials: metal & polymer
The use of finishes: timber Enhancement of materials: metals &	polymer
Digital design and manufacture The use of finishes: metal & polymer	
Performance characteristics of materials: paper and boards Designing for manufacturing, mainter	nance, repair and
Health and safety disposal	
Responsible design Feasibility studies	
Design for manufacture and project management Enterprise and marketing in the deve	elopment of products
Modern and industrial scales of practice Forming, redistribution and addition	processes
Forming, redistribution and addition processes Selecting appropriate tools, equipment	ent and processes
Selecting appropriate tools, equipment and processes	
Term 1 Multifunctional Storage	
Design Theory Design styles and movements	
Designers and their work	
Design Communication Orthographic Drawing	
3D Drawing: isometric, perspective	
Design Methods and Processes Iterative design	
User centered design	
Primary and secondary investigation	
Materials and their applications: timber Mechanical properties of materials	
Classification of materials	
Composite materials	
Material disposal	
Enhancement of materials Wood enhancement	
Enhancement using preservatives	
The use of finishes: Timber Paper and board finishing	
Paper and board minimig	
Wood finishing	
Digital design and manufacture Computer aided design	
Computer aided manufacture	
Rapid prototyping	
Rapid prototyping Electronic data interchange	

Performance characteristics of	Papers and boards
materials: paper and boards	Stock forms
	Seasoning
	Toxicity of wood
	Natural wood and manufacture boards
Health and safety	Safe working practices
	Health and safety at work act (1974)
	Control of substances hazardous to health regulations
	Safety precautions
	Risk assessment
	Legislation to protect consumers
	The trade description act 1968
	The British standards institute
	The safety of Toys
Responsible design	The 6r's of sustainability
	Renewable energy sources
	Product miles
	Circular economy
Design for manufacture and project	Ensuring accuracy of prototype designs
management	Quality assurance
Ŭ	Project management systems
	Critical path analysis
	Quality control
	Nondestructive testing
Modern and industrial scales of practice	Scales of production
	The use of computer systems
	Standardised components
	Sub- assembly
Forming, redistribution and addition	Laser cutting
processes: timber	Wood processes
	Wasting processes
	Forming processes
	Adhesives
	Jigs and fixtures
Selecting appropriate tools, equipment	Safe working practices and risk assessments
and processes	Quantity or manufacture and the implication on manufacturing processes
Term 2 Electronics in products	
Technological and cultural changes	Socio-economic influences
	Post-First world war and the development of furniture for mass production

	The Second world war, rationing and the development of utility products
	Contemporary times, fashion and the demand for mass produced furniture and decorative products
	The impact of microelectronics
	New materials
	New methods of manufacture
	Social, moral and ethical issues
	Product life cycle
Critical analysis and evaluation	Testing and Evaluating in commercial contexts
	Use of third-party feedback
Protecting design and intellectual	Copy right and design rights
property	Patents
	Registered designs
	Trademarks and Logos
National and international standards in	British standards institution
product design	International standards organisation
	Restriction of hazardous substances directives
	Battery directive
	Polymer codes of identification and recycling
	Packing Directives
	WEEE directive
	The EC energy label
	Eco Labelling
	Forst stewardship council
	EU energy star
Performance characteristics of	Production of polymers: fractional distillation
materials: metal & polymer	Thermoplastics & thermoset polymers
	Stock forms
	Biodegradable polymers
	Composites
	Smart & modern materials
	Classification of metals & stock forms
Enhancement of materials: metals &	Polymer enhancement: additives
polymer	Metal enhancements: hardning/annealing/case hardening/tempering
The use of finishes: metal & polymer	Polymer finishing
	Metals finishing
Designing for manufacturing,	Choice of materials
maintenance, repair and disposal	The 6R's of sustainability
	Upcycling
	Maintenace

	Disassembly
Feasibility studies	Computer modelling in production planning
	Feasibility studies and costings
	Testing prototypes
Enterprise and marketing in the	Customer identification
development of products	Coporate identity
	Packaging design
	Labelling
	Global marketing
	Advertising and promotion
	Product costing, calculation and profit
	Entrepreneurs and collaborative working with designers
Forming, redistribution and addition	Polymer processes
processes	Metal processes
Selecting appropriate tools, equipment	Safe working practices and risk assessment
and processes	Maintaining safety in commercial manufacture
	Development of designs to be mass produced