

Engineering

Revision Timetable

2023 - 2024

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Before the November exam you were provided with a printed textbook containing all of your Engineering course content. There is also a digital version of this textbook in your teams files. It is recommended that you use this, and past papers to revise from so that you are studying the most relevant information for this course.

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	Engineering Disciplines
	Revise how the following areas of Engineering have shaped the modern world.
	 Remember the examples of each area of Engineering:
	Mechanical Engineering
	Hydraulics & Pascal's Principle
	o Gears
	o <i>Pulleys</i>
	 Electrical and Electronic Engineering
	o Power stations
	 Household appliances
	Integrated circuits
	Input/output receivers and transmitters ACCION Symposium
W/C 1 April	• Ac/DC currents
	 Aerospace Engineering Aircraft
	 Space vehicles
	Missiles
	Communications Engineering
	o Telephone
	o Radio
	o Mobile (3G, 4G, 5G)
	o Satellite
	o Fibre Optic
	Chemical Engineering One of the second
7.	Pharmaceuticals Foscil finals
	Fossil fuelsFood & drink
	FOOD & ATINKCosmetics
	Engineering Disciplines
	Revise how the following areas of Engineering have shaped the modern
	world.
	Remember the examples of each area of Engineering: Civil Engineering
W/C 8 April	Civil EngineeringBridges
	BridgesRoads
	o Railways
	RainvaysBuildings
	Automotive Engineering
	o Cars

	Malawarda
	 Motorcycles
	o Trains
	o Trucks
	Biomedical Engineering One of the stripe One
	o Prosthetics
	Medical devices Partitle warms.
	o Radiotherapy
	Software Engineering Analization a
	 Applications
	Systems Computer programming
	Computer programming
	Health & Safety Legislation in Engineering
	For each of the following you need to know what they are, why they exist, and
	how they protect employees and employers.
	Health & Safety at Work Act
	 Personal Protective Equipment at Work Regulations – Know and
W/C 15 April	recognise PPE, state situations when it is used, and what it protects
11/6 15 / (511)	from.
	 Manual Handling Operations Regulations – Know when this applies to
	workers.
	 Reporting of Injuries, Diseases and Dangerous Occurrences
	Regulations – <i>know what needs to be reported.</i>
	 Control of Substances Hazardous to Health – recognise and
	name the specific symbols.
	SI Units of Measurement
	Remember, you do not need to memorise equations – these will be provided for
	you in the exam. You need to know how to apply the equations to given
	scenarios.
	Scendinos.
	For each unit of measurement, you need to be able to state an example of it's
W/C 22 A <mark>pr</mark> il	use in Engineering, relating to one of the areas of Engineering stated above.
	Application of CI Unite of Management
	 Application of SI Units of Measurement Equations
	Energy
	Forces & Motion
	Electrical
	Geometric
	Reading Engineering Drawings
W/C 29 April	
	Remember: you do not have to draw in your exam, but you need to be able to
	read and interpret all listed drawing styles.
	Duitieh etendende / DC0000 /men, the difference of the trace Duitiel Constant
	British standards / BS8888– know the differences between British Standards and ISO Standards, and how/why they are used in Engineering.
	and ISO Standards, and how/why they are used in Engineering
	Drawing Conventions

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	 Title Blocks – know what information goes into a title block Systems of measurement – know the difference between imperial and metric and how to convert between the two Scale – understand how scale works in Engineering drawings Lines – know and recognise the types of lines used in Engineering drawings and what they mean Tolerance – know how tolerance is used in drawings and manufacturing
	Reading Engineering Drawings
W/C 6 May	 2D Projections - first and third angle orthographic projection 3D Projections - isometric, axonometric and 2-point perspective Properties and Characteristics of Materials
	Properties and Characteristics of Materials
	Remember, the specific properties can be found in your course textbook.
W/C 13 May	 Properties – define what each property is and know a material example that best represents the property. Chemical Electrical Mechanical Optical Thermal Characteristics Aesthetic The Environmental Impact of using Engineering materials – extraction, fossil fuels and sustainability
W/C 20 May	 Materials Remember, the specific materials can be found in your course textbook. Metals – ferrous and non-ferrous metals. Polymers – thermoplastics, thermosetting plastics and elastomers. Wood – hardwoods, softwoods and manufactured boards. Ceramics – glass, cement, brick, pottery and diamond. Composites – GRP, CFRP, and concrete.
	Tools, Equipment & Machines
W/C 27 May	Remember, the specific tools can be found in your course textbook. • Marking Out • Modification – saws and CNC machines • Joining – joining tools and joining components • Finishing
	Tools, Equipment & Machines
W/C 3 June	 Safe & Correct Use of Engineering Tools Workplace Training Control Measures and Machine Safety Risk Assessments

Exam: 7th June, 9am

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