CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Electrical Engineering (2350): Completion of pre-2021 program

Full name:_____   Student Number:_____   Date:_____

Points to note

- You need to ensure that you meet minimum program and major requirements (listed below)
- You cannot count the same course twice
- You need to ensure that you don't take courses that are incompatible with courses that you have already counted towards your program, and that any prerequisites have been met

You must complete for the BE(Hons)/ME (Electrical Engineering Plan code: ELENGX2350), 80 units comprising -

1. 52 units from part A - compulsory (listed below), and
2. 22 units from the combination of parts B, C, N1 and N2 - electives, with

   (i) a minimum of 6 units from part B - advanced electives, and
   (ii) a minimum of 6 units from part N1 - electrical engineering, and
   (iii) a maximum of 8 units from part C - coverage electives, and
3. 6 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean, with:

   (i) a maximum of 4 units from courses in part D, and

   (ii) a maximum of 4 units from level one courses not on the BE(Hons)/ME list.

PART A

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/X compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	52 units from: Part A - Compulsory							
	ENGG1100 Engineering Design (2) **and** **ENGG1200** Engineering Modelling & Problem Solving **(2) (discontinued)** **OR** **ENGG1211** Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	 2/20 2/20	ENGG1100 Professional Engineering and * Please contact EAIT Student Admin for ENGG1200 replacement	1,2	2		
	MATH1051 Calculus & Linear Algebra I **OR** **MATH1071** Advanced Calculus & Linear Algebra I	2		MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	1,2	2		
	MATH1052 Multivariate Calculus & Ordinary Differential Equations **OR** **MATH1072** Advanced Multivariate Calculus & Ordinary Differential Equations	2		MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering OR ENGG1001 Programming for Engineers (NEW)	1,2 1,2	2	1/21	
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	2		
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 Electromagnetism and Modern Physics (semester 2 only from 2022)	1,2	2		
	CSSE2010 Introduction to Computer Systems	2		CSSE2010 Introduction to Computer Systems	1,2	2		
	ELEC2003 Electromechanics & Electronics (discontinued)	2	1/21	*ELEC2300* Electromagnetism & Electromechanics NEW	1	2	1/22	
	MATH2001 Advanced Calculus & Linear Algebra II	2		MATH2001 Calculus & Linear Algebra II	1,2,S	2		

✓ - course already completed   **X** – course to be undertaken   Checked by (Faculty: Name and Date): _____

	Course	#	Last offered	Substitute Course	Sem offering	#	First offered
	CSSE2310 Computer Systems Principles and Programming	2		**CSSE2310** Computer Systems Principles and Programming	1,2	2	
	ELEC2004 Circuits, Signals & Systems	2		**ELEC2004** Circuits, Signals & Systems	2	2	
	ENGG2800 Team Project I	2		**ENGG2800** Team Project I	1,2	2	
	MATH2010 Analysis of Ordinary Differential Equations AND	1	2/20	**MATH2010** Analysis of Ordinary Differential Equations AND	1,2	1	
	STAT2202 Probability Models for Engineering & Science (discontinued)	1		*STAT2201 Analysis of Eng. & Scientific Data (1) or STAT2203 Probability Models and Data Analysis for Engineering (2)*	1,2 / 2	1 / 2	
	CSSE3010 Embedded Systems Design & Interfacing	2		**CSSE3010** Embedded Systems Design & Interfacing	1	2	
	ELEC3004 Signals, Systems & Control	2		**ELEC3004** Circuits, Signals and Systems	1	2	
	ELEC3400 Electronic Circuits (discontinued)	2	1/21	*ELEC2400 Electronic Circuits and Amplifiers (NEW)*	1	2	1/22
	ELEC3100 Fundamentals of Electromagnetic Fields & Waves	2		**ELEC3100** Fundamentals of Electromagnetic Fields & Waves	2	2	
	ELEC3300 Electrical Energy Conversion & Utilisation (discontinued)	2	2/20	*ELEC3310 Electrical Energy Conversion & Utilisation*	2	2	2/21
	ENGG3800 Team Project II	2		**ENGG3800** Team Project II	2	2	
	ENGG4900 Professional Practice and the Business Environment	2		**ENGG4900** Professional Practice and the Business Environment	1,2	2	
	ENGG7290 Engineering Placement Semester	8		**ENGG7290** Engineering Placement Semester	1,2	8	
	ENGG7701 Engineering Grand Challenges	2		**ENGG7701** Engineering Grand Challenges	2	2	
	Part A units completed pre-2021:			**Part A units to be substituted/completed:**			
				Total Part A (must add up to 52 units):			

PART B

✓/x compl.	Part B – Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/x compl.
	COMS4103 Photonics (discontinued)	2	1/20	*COMS4113 Photonics*	1	2	1/21	
	COMS4104 Microwave Engineering	2		**COMS4104** Microwave Engineering	1	2		
	COMS4105 Communication Systems	2		**COMS4105** Communication Systems	2	2		
	CSSE4010 Digital System Design	2		**CSSE4010** Digital System Design	2	2		
	ELEC4300 Power Systems Analysis (discontinued)	2	1/20	*ELEC4310 Power Systems Analysis*	1	2	1/21	
	ELEC4400 Advanced Electronic & Power Electronics Design (discontinued)	2	2/20	*ELEC4410 Advanced Electronic & Power Electronics Design*	2	2	2/21	
	ELEC4620 Digital Signal Processing	2		**ELEC4620** Digital Signal Processing	2	2		

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✓/X compl.		#	Last offered		Sem offering	#	First offered	✓/X compl.
	ELEC4630 Image Processing and Computer Vision	2		**ELEC4630** Image Processing and Computer Vision	1	2		
	METR4201 Control Engineering 1	2		**METR4201** Control Engineering 1	1	2		
	METR4202 Robotics & Automation	2		**METR4202** Robotics & Automation	2	2		

PART C

✓/X compl.	Part C - Coverage Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	COMP3702 Artificial Intelligence	2		**COMP3702** Artificial Intelligence	2	2		
	COMP3710 Pattern Recognition and Analysis	2		**COMP3710** Pattern Recognition and Analysis	2	2		
	COMP4702 Machine Learning	2		**COMP4702** Machine Learning	2	2		
	COMS3200 Computer Networks I	2		**COMS3200** Computer Networks I	1	2		
	COMS4200 Computer Networks II (discontinued)	2	2/20	*COMS6200* Computer Networks II	2	2	**2/21**	
	CSSE2002 Programming in the Large	2		**CSSE2002** Programming in the Large	1,2	2		
	CSSE4011 Advanced Embedded Systems	2		**CSSE4011** Advanced Embedded Systems	1	2		
	ELEC4000 Special Topics in Electrical Engineering 4A	2		**ELEC4000** Special Topics in Electrical Engineering 4A	1,2	2		
	ELEC4001 Special Topics in Electrical Engineering 4B	2		**ELEC4001** Special Topics in Electrical Engineering 4B	1,2	2		
	ELEC4302 Power System Protection	2		**ELEC4302** Power System Protection	2	2		
	ELEC4320 Modern Asset Management and Condition Monitoring in Power System	2		**ELEC4320** Modern Asset Management and Condition Monitoring in Power System	2	2		
	ELEC6403 Biomedical Instrumentation (discontinued)	2	2/20	*BIOE6403* Biomedical Instrumentation	2	2	**2/21**	
	ELEC6601 Medical Imaging (discontinued)	2	2/20	*BIOE6601* Medical Imaging	2	2	**2/21**	
	ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	*ENGG1700* Statics and Materials	1,2	2	**1/21**	
	ENGG2000 Humanitarian Engineering	2		**ENGG2000** Humanitarian Engineering	2	2		
	ENGG4800 Project Management	2		**ENGG4800** Project Management	1	2		

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PART D

✓/X compl.	Part D	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	CHEM1090 Introductory Chemistry	2		**CHEM1090** Introductory Chemistry	1	2		
	MATH1050 Mathematical Foundations	2		**MATH1050** Mathematical Foundations	1,2	2		
	PHYS1171 Physical Basis of Biological Systems	2		**PHYS1171** Physical Basis of Biological Systems	1,2	2		

✓/X compl.	Part N - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	COMS7305 Advanced Microwave Engineering	2		**COMS7305** Advanced Microwave Engineering	2	2		
	COMS7307 Advanced Photonics	2		**COMS7307** Advanced Photonics	2	2		
	COMS7309 Computational Techniques in Electromagnetics	2		**COMS7309** Computational Techniques in Electromagnetics	2	2		
	ELEC7051 Transformer Technology Design and Operation	2		**ELEC7051** Transformer Technology Design and Operation	2	2		
	ELEC7309 Power System Planning and Reliability	2		**ELEC7309** Power System Planning and Reliability	2	2		
	ELEC7310 Electricity Market Operation and Security	2		**ELEC7310** Electricity Market Operation and Security	1	2		
	ELEC7313 Renewable Energy Integration: Technologies to Technical Challenges	2		**ELEC7313** Renewable Energy Integration: Technologies to Technical Challenges	1	2		
	ELEC7901 Advanced Medical Device Engineering (discontinued)	2	1/20	*BIOE6901 Medical Device Engineering*	1	2	**1/21**	
	ELEC7902 Biomedical Signal Processing (discontinued)	2	2/20	*BIOE7902 Biomedical Signal Processing*	2	2	**2/21**	
	METR7203 Control Engineering 2 (discontinued)	2	1/20	*METR6203 Control Engineering 2*	1	2	**1/21**	
	COMS7000 Advanced Topics in Communications I	2		**COMS7000** Advanced Topics in Communications I	1,2	2		
	CSSE7080 Advanced Topics in Computer Systems A	2		**CSSE7080** Advanced Topics in Computer Systems A	1,2	2		
	CSSE7081 Advanced Topics in Computer Systems B	2		**CSSE7081** Advanced Topics in Computer Systems B	1,2	2		
	ELEC7300 Advanced Topics in Power	2		**ELEC7300** Advanced Topics in Power	1,2	2		
	ENGG7300 Advanced Topics in Engineering I	2		**ENGG7300** Advanced Topics in Engineering I	1,2	2		
	ENGG7301 Advanced Topics in Engineering II	2		**ENGG7301** Advanced Topics in Engineering II	1,2	2		

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CSSE7610 Concurrency: Theory and Practice	2		**CSSE7610** Concurrency: Theory and Practice	2	2		
ENGG7302 Advanced Computational Techniques in Engineering	2		**ENGG7302** Advanced Computational Techniques in Engineering	1,2	2		
ENGG7811 Research Methods	2		**ENGG7811** Research Methods	1,2	2		

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