Bachelor of Engineering (Electrical and Electronic) (Honours) – Degree Apprenticeship (BENGEEAH) 2026 Study Plan

Flinders University
Science & Engineering

The following Study Planners are available within this document:

Please note:

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official Course Rule.
- Topic information for all topics, including pre-requisites can be found on the Topic Page
- General enrolment assistance is available via Ask Flinders
- ** indicates that Pre-requisites apply

Bachelor of Engineering (Electrical and Electronic) (Honours) – Degree Apprenticeship (BENGEEAH)
(Electrical Engineering Major)
Semester 1 Commencing

Flinders University
Science & Engineering

First Level	**Semester**	**ENGR1721** Engineering Programming	**ENGR1031** Digital Design	**ENGR1030** Digital Electronics	**MATH1121** Mathematics 1A
	Semester	**ENGR1401** Professional Skills	**PHYS1101** Physics 1A	**ENGR1722** Engineering Materials and Statics	**MATH1122** Mathematics 1B**
Second Level	**Semester 1**	**ENGR2020** Machine Learning and Artificial Intelligence**	**ENGR2711** Engineering Mathematics**	**ENGR2731** Electronic Circuits**	**Year 2 Major Topic** **ENGR2861** Electromagnetics and Electromagnetic Waves**
	NS1	**ENGR2705** Working in Secure and Sensitive Professions (0 units) - OPTIONAL			
	Semester 2	**ENGR2702** Electrical Circuits and Machines**	**ENGR2712** Automation and Industrial Control**	**ENGR2722** Signals and Systems**	**ENGR2772** Sensors and Actuators**
Third Level	**Semester 1**	**Year 3 Major Topic** **ENGR2791** Electrical Engineering Principles**	**Year 3 Major Topic** **ENGR3711** Control Systems**	**Year 3 Major Topic** **ENGR3861** Electrical Machines**	**Year 3 Major Topic** **ENGR7812** Power Electronics**
	Semester 2	**ENGR3705** Project Management	**Year 4 Major Option Topic** S1 or S2 *(Refer to Course Rule)*		
Fourth Level	**Semester 1**	**Year 4 Major Topic** **ENGR7821** Electrical Power Systems**	**Year 4 Major Topic** **ENGR7762** Renewable Energy Systems (S1 or S2)		
	NS	**ENGR3750** Workplace Preparation (0 units)**			
	Semester 2	**ENGR9742** Systems Engineering	**ENGR3700** Engineering Practicum (13.5 units)** **OR** **ENGR3710** International Engineering Practicum (13.5 units)**		
Fifth Level	**Semester 1**	**ENGR7002A** Honours Research Thesis (4.5/18 units)**	**ENGR7002B** Honours Research Thesis (4.5/18 units)**		
	Semester 2	**ENGR7002C** Honours Research Thesis (4.5/18 units)**	**ENGR7002D** Honours Research Thesis (4.5/18 units)**		

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Bachelor of Engineering (Electrical and Electronic) (Honours) – Degree Apprenticeship (BENGEEAH) (Electronic Systems Major) Semester 1 Commencing

Flinders University
Science & Engineering

First Level	**Semester**	**ENGR1721** Engineering Programming	**ENGR1031** Digital Design	**ENGR1030** Digital Electronics	**MATH1121** Mathematics 1A
	Semester	**ENGR1401** Professional Skills	**PHYS1101** Physics 1A	**ENGR1722** Engineering Materials and Statics	**MATH1122** Mathematics 1B**
Second Level	**Semester 1**	**ENGR2020** Machine Learning and Artificial Intelligence**	**ENGR2711** Engineering Mathematics**	**ENGR2731** Electronic Circuits**	**Year 2 Major Topic** **ENGR2721** Microprocessors**
	NS1	**ENGR2705** Working in Secure and Sensitive Professions (0 units) - OPTIONAL			
	Semester 2	**ENGR2702** Electrical Circuits and Machines**	**ENGR2712** Automation and Industrial Control**	**ENGR2722** Signals and Systems**	**ENGR2772** Sensors and Actuators**
Third Level	**Semester 1**	**Year 3 Major Topic** **ENGR3701** Computer Organisation and Design**	**Year 3 Major Topic** **ENGR3711** Control Systems**	**Year 3 Major Topic** **ENGR3721** Signal Processing**	**Year 3 Major Topic** **ENGR3731** Communication Systems**
	Semester 2	**ENGR3705** Project Management	**Year 4 Major Option Topic** *(Refer to Course Rule)*		
Fourth Level	**Semester 1**	**Year 4 Major Topic** **ENGR7851** Advanced Electronic Design**	**Year 4 Major Option Topic** *(Refer to Course Rule)*		
	NS	**ENGR3750** Workplace Preparation (0 units)**			
	Semester 2	**ENGR9742** Systems Engineering	**ENGR3700** Engineering Practicum (13.5 units)** **OR** **ENGR3710** International Engineering Practicum (13.5 units)**		
Fifth Level	**Semester 1**	**ENGR7002A** Honours Research Thesis (4.5/18 units)**	**ENGR7002B** Honours Research Thesis (4.5/18 units)**		
	Semester 2	**ENGR7002C** Honours Research Thesis (4.5/18 units)**	**ENGR7002D** Honours Research Thesis (4.5/18 units)**		

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Bachelor of Engineering (Electrical and Electronic) (Honours) – Degree Apprenticeship (BENGEEAH)
(Electrical Power and Renewable Energy Engineering Major)
Semester 1 Commencing

Flinders University
Science & Engineering

First Level	**Semester**	**ENGR1721** Engineering Programming	**ENGR1031** Digital Design	**ENGR1030** Digital Electronics	**MATH1121** Mathematics 1A
	Semester	**ENGR1401** Professional Skills	**PHYS1101** Physics 1A	**ENGR1722** Engineering Materials and Statics	**MATH1122** Mathematics 1B**
Second Level	**Semester 1**	**ENGR2020** Machine Learning and Artificial Intelligence**	**ENGR2711** Engineering Mathematics**	**ENGR2731** Electronic Circuits**	**Year 2 Major Topic** **ENGR2861** Electromagnetics and Electromagnetic Waves**
	NS1	**ENGR2705** Working in Secure and Sensitive Professions (0 units) - OPTIONAL			
	Semester 2	**ENGR2702** Electrical Circuits and Machines**	**ENGR2712** Automation and Industrial Control**	**ENGR2722** Signals and Systems**	**ENGR2772** Sensors and Actuators**
Third Level	**Semester 1**	**Year 3 Major Topic** **ENGR2791** Electrical Engineering Principles**	**Year 3 Major Topic** **ENGR3711** Control Systems**	**Year 3 Major Topic** **ENGR3861** Electrical Machines**	**Year 3 Major Topic** **ENGR7812** Power Electronics**
	Semester 2	**ENGR3705** Project Management	**Year 4 Major Topic** **ENGR7762** Renewable Energy Systems (S1 or S2)		
Fourth Level	**Semester 1**	**Year 4 Major Topic** **ENGR7821** Electrical Power Systems**	**Year 4 Major Option Topic** *(Refer to Course Rule)*		
	NS	**ENGR3750** Workplace Preparation (0 units)**			
	Semester 2	**ENGR9742** Systems Engineering	**ENGR3700** Engineering Practicum (13.5 units)** **OR** **ENGR3710** International Engineering Practicum (13.5 units)**		
Fifth Level	**Semester 1**	**ENGR7002A** Honours Research Thesis (4.5/18 units)**	**ENGR7002B** Honours Research Thesis (4.5/18 units)**		
	Semester 2	**ENGR7002C** Honours Research Thesis (4.5/18 units)**	**ENGR7002D** Honours Research Thesis (4.5/18 units)**		

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