

	Programme Intended Learning Outcomes	AF2617*	AMA201*	AMA202*	AMA305*	CBS2080*	EIE211*	EIE304*	EIE305*	EIE306*	EIE311*	EIE312*	EIE320*	EIE322*	EIE329*	EIE331*	EIE333*	EIE338*	EIE401#	EIE402#	EIE403#	EIE408#	EIE413*	EIE414#	EIE415#	EIE424#	EIE433*	
1	Ability to apply knowledge of mathematics, science, and engineering appropriate to electronic and information engineering.	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	Ability to design and conduct experiments, as well as to analyse and interpret data.				✓		✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	Ability to design a system, component or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.						✓				✓	✓		✓	✓	✓	✓	✓			✓	✓	✓			✓	✓	
4	Ability to function on multi-disciplinary teams.																										✓	
5	Ability to identify, formulate and solve engineering problems.		✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	Ability to understand professional and ethical responsibility.																										✓	
7	Ability to communicate effectively.	✓	✓	✓	✓	✓			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	Ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public.																					✓					✓	
9	Ability to stay abreast of contemporary issues.	✓																✓									✓	
10	Ability to recognize the need for, and to engage in life-long learning.	✓			✓							✓			✓								✓			✓	✓	
11	Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to electronic and information engineering.						✓			✓		✓		✓	✓	✓						✓	✓				✓	
12	Ability to use the computer/IT tools relevant to electronic and information engineering along with an understanding of their processes and limitations.						✓		✓				✓			✓						✓		✓		✓	✓	
13	Ability to understand the creative process.		✓	✓	✓				✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	Ability to exercise leadership when working in a team.	✓				✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Note:**

- \* Compulsory subject
- # Elective subject
- ✓ Supports this programme intended learning outcome

**EIE Subject Title**

- EIE211 Logic Design
- EIE304 Electronic Circuits
- EIE305 Integrated Analogue and Digital Circuits
- EIE306 IC Technology and Processes
- EIE311 Computer System Fundamentals
- EIE312 Linear Systems
- EIE320 Object-Oriented Design and Programming
- EIE322 Interface and Embedded Systems
- EIE329 Integrated Project
- EIE331 Communication Fundamentals
- EIE333 Data and Computer Communications
- EIE338 Applied Electromagnetics
- EIE401 VLSI and Computer-Aided Circuit Design
- EIE402 Power Electronics
- EIE403 High Frequency Circuit Design
- EIE408 Principles of Virtual Reality
- EIE413 Digital Signal Processing
- EIE414 Computer Architecture and Systems
- EIE415 Multimedia Technology
- EIE424 Distributed Systems and Network Programming
- EIE433 Honours Project
- EIE435 Image and Audio Processing
- EIE443 Telecommunication Networks
- EIE447 Mobile Communications
- EIE448 Bioengineering Signals and Systems
- EIE449 Optical Communication Systems and Networks
- EIE450 Nanoscience and Technology for Electronic Engineering
- EIE451 Circuits for Telecommunications

**Servicing Subject Title**

- AF2617 Economics for Engineers
- AMA201 Mathematics I
- AMA202 Mathematics II
- AMA305 Probability and Engineering Statistics
- CBS2080 Fundamentals of Chinese Communication
- ELC2501 University English I
- ELC2502 University English II
- ELC3508 English for Effective Workplace Communication
- ENG224 Information Technology
- ENG232 Engineering Science
- ENG236 Computer Programming
- ENG237 Basic Electricity and Electronics I
- ENG238 Basic Electricity and Electronics II
- ENG306 Engineering Management
- ENG307 Society and The Engineer
- GEC2801 China Studies
- IC2111 Industrial Centre Training I for EIE
- IC2131 Freshman Seminar for Engineering
- IC2132 Engineering Drawing and Industrial Safety
- IC367 Industrial Centre Training II
- MM2021 Management and Organisation

	Programme Intended Learning Outcomes	EIE435#	EIE443#	EIE447#	EIE448#	EIE449#	EIE450#	EIE451#	ELC2501*	ELC2502*	ELC3508*	ENG224*	ENG232*	ENG236*	ENG237*	ENG238*	ENG306*	ENG307*	GEC2801*	IC2131*	IC2132*	IC2111*	IC367*	MM2021*	
1	Ability to apply knowledge of mathematics, science, and engineering appropriate to electronic and information engineering.	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓						✓	✓	✓	✓
2	Ability to design and conduct experiments, as well as to analyse and interpret data.	✓	✓	✓	✓	✓	✓							✓	✓								✓	✓	✓
3	Ability to design a system, component or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.		✓			✓		✓					✓	✓			✓	✓					✓	✓	✓
4	Ability to function on multi-disciplinary teams.																			✓	✓	✓	✓	✓	✓
5	Ability to identify, formulate and solve engineering problems.	✓	✓	✓		✓		✓						✓	✓	✓	✓	✓					✓	✓	✓
6	Ability to understand professional and ethical responsibility.												✓					✓	✓				✓	✓	✓
7	Ability to communicate effectively.			✓		✓		✓	✓	✓	✓						✓	✓	✓				✓	✓	✓
8	Ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public.																	✓			✓	✓	✓	✓	✓
9	Ability to stay abreast of contemporary issues.		✓				✓					✓							✓	✓		✓	✓	✓	✓
10	Ability to recognize the need for, and to engage in life-long learning.		✓																✓	✓		✓	✓	✓	✓
11	Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to electronic and information engineering.		✓		✓									✓								✓	✓	✓	✓
12	Ability to use the computer/IT tools relevant to electronic and information engineering along with an understanding of their processes and limitations.				✓							✓		✓								✓	✓	✓	✓
13	Ability to understand the creative process.	✓	✓			✓	✓	✓														✓	✓	✓	✓
14	Ability to exercise leadership when working in a team.	✓	✓	✓		✓		✓	✓	✓				✓	✓			✓				✓	✓	✓	✓

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