### Programme Intended Learning Outcomes

| 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
- CBS2065 Chinese for Electronic and Information Engineering
- ELC2501 University English I
- ELC2502 University English II
- ELC3508 English for Effective Workplace Communication
- ENG224 Information Technology
- ENG322 Engineering Science
- ENG336 Computer Programming
- ENG337 Basic Electricity and Electronics I
- ENG338 Basic Electricity and Electronics II
- ENG306 Engineering Management
- ENG307 Society and The Engineer
- GEC2801 China Studies
- IC2105 Introduction to Engineering Communication and Fundamentals
- IC2111 Industrial Centre Training I for EIE
- IC367 Industrial Centre Training II
- MM2021 Management and Organisation
## Programme Intended Learning Outcomes

<table>
<thead>
<tr>
<th>Programme Intended Learning Outcomes</th>
<th>EE2407</th>
<th>EE2408</th>
<th>EE2414</th>
<th>EE2415</th>
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<th>EE2418</th>
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<th>EE2420</th>
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