

### Contribution of Courses to Programme Outcomes

COURSE CODE AND TITLE	STUDENT LEARNING OUTCOME											
	a	b	c	d	e	f	g	h	i	j	k	l
MH1810 Mathematics I	●	◐	◐	○								◐
MH1811 Mathematics II	●	◐	◐	○								◐
PH1011 Physics	●	◐	◐	○								◐
PH1012 Physics A (for direct-entry students)	●	◐	◐	○								◐
MH2810 Mathematics A (for direct-entry students)	●	◐	◐	○								◐
EE1002 Physics Foundation for Electrical & Electronic Engineering	●	◐	◐	○								
EE1003 Introduction to Materials for Electronics	●						◐					
EE1005 From Computational Thinking to Programming	●	◐	◐		◐							◐
EE1071 Introduction to EEE Laboratories	●	○	◐	●	◐	◐	○	◐	○	○	○	◐
FE1073 An Intro. to Engineering & Practices	●	○	◐	●	◐	◐	○	◐	○	○	○	◐
EE2001 Circuit Analysis	●	○	◐	●								
EE2002 Analog Electronics	●	○	◐	●								
EE2003 Semiconductor Fundamentals	●	◐	◐	◐	○							
EE2004 Digital Electronics	●	◐	◐	◐	○							○
EE2006 Engineering Mathematics I	●	◐	◐	○								◐
EE2007 Engineering Mathematics II	●	◐	◐	○								◐
EE2008 Data Structures and Algorithms	●	◐	◐	◐	◐							○
EE2010 Signals and Systems	●	◐	●	◐	○							○
EE2073 Introduction to EEE Design & Project	●	◐	●	◐	◐	○	○	○	◐	◐	○	◐
EE3001 Engineering Electromagnetics	●	◐	●		◐	○						
EE3002 Microprocessors	●	◐	●	◐	◐							○
EE3080 Design & Innovation Project	●	●	●	●	●	◐	◐	◐	●	●	●	◐
EE3279 Professional Internship	●	●	◐	◐	●	●	●	●	●	●	◐	●
EE3010 Electrical Devices and Machines	●	◐	●	◐								

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EE3011 Modelling and Control	●	◐	●	●	◐	○						○
EE3012 Communication Principles	●	◐	●	◐	○							○
EE3013 Semiconductor Devices and Processing	●	●	○		○	○	○	○		◐		◐
EE3014 Digital Signal Processing	●	◐	●	◐	○							○
EE3015 Power Systems & Protection	●	◐	●									
EE3017 Computer Communications	●	◐	●	◐	○							○
EE3018 Introduction to Photonics	●	○	●	●	○	○						
EE3019 Integrated Electronics	●	◐	◐	◐	○							
EE4080 Final Year Project	●	●	●	●	●	◐	◐	◐	●	●	●	◐
EE4105 Cellular Communication System Design	●	●	●	●	●	○	○	○	◐	◐	○	○
EE4109 Wireless System Design	●	●	●	●	◐	◐	◐	○	○	○	○	○
EE4110 Optical Communication System Design	●	●	●	●	○	○	◐	○	○	○	○	○
EE4207 Control Engineering Design	●	●	●	●	◐	◐	○	○	○	○	○	○
EE4208 Intelligent Systems Design	●	●	●	●	○	○	○	○	○	○	○	○
EE4303 Mixed-Signal IC Design	●	●	●	●	●	○	◐	○	○	○	○	◐
EE4304 Radio Frequency Integrated System Design	●	●	●	●	○	○	○	○	○	○	○	○
EE4305 Digital Design with HDL	●	●	●	●	○	○	○	○	○	○	○	○
EE4413 DSP System Design	●	●	●	●	●	○	○	○	◐	◐	○	○
EE4717 Web Application Design	●	●	●	●	●	○	○	○	◐	◐	○	○
EE4718 Enterprise Network Design	●	●	●	●	●	○	○	○	◐	◐	○	○
EE4503 Power Engineering Design	●	●	●	●	◐	◐	○	○	○	○	○	○
EE4504 Design of Clean Energy Systems	●	●	●	●	◐	◐	◐	○	◐	○	◐	○
EE4613 CMOS Process and Device Simulation	●	●	●	●	○	○	○	○	◐	○	◐	○
EE4614 Device Parameter Extraction & Layout Implement.	●	●	●	●	◐	◐	◐	○	○	◐	○	○

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EE4901 Biomedical Control System Design	●	●	●	●	◐	◐	○	○	○	○	○	○
EE4902 Design of Medical Information Processing Systems	●	●	●	●	◐	◐	◐	◐	◐	○	◐	○
EE4001 Software Engineering	●	◐	●	◐	○							○
EE4152 Digital Communications	●	◐	●	◐	○							○
EE4153 Telecommunication System	●	◐	●	◐	○							○
EE4188 Wireless Communications	●	◐	●	◐	○							○
EE4190 Introduction to Modern Radar	●	◐	●	◐	○							○
EE4265 Process Control Systems	●		●									
EE4266 Computer Vision	●		●									
EE4268 Robotics and Automation	●	◐	●	◐								
EE4273 Digital Control Systems	●		●									
EE4285 Computational Intelligence	●		●									
EE4340 VLSI Systems	●		●									
EE4341 Advanced Analog Circuits	●	◐	●									
EE4343 Radio Frequency Circuits	●		●									
EE4344 Analysis and Design of Integrated Circuits	●	●	●									
EE4455 Embedded Systems	●	◐	●	◐	◐							○
EE4475 Audio Signal Processing	●	◐	●	◐	○							○
EE4476 Image Processing	●	◐	●	◐	○							○
EE4478 Digital Video Processing	●	◐	●	◐	○							○
EE4483 Artificial Intelligence and Data Mining	●	◐	●	◐	◐	○		○		○		○
EE4490 Multimedia Systems	●	◐	●	◐	○							○
EE4530 Power System Analysis and Control	●		●									
EE4532 Power Electronics and Drives	●	◐	●									

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	a	b	c	d	e	f	g	h	i	j	k	l
EE4534 Modern Distribution Systems with Renewable Res.	●		●									
EE4645 Microfabrication Engineering	●		●									
EE4646 VLSI Technology	●		●									
EE4647 Microelectronic Devices	●	●	●	◐								◐
EE4694 IC Reliability and Failure Analysis	●		●									
EE4756 Computer Architecture	●	◐	●	◐	○							○
EE4758 Information Security	●	◐	●	◐	○							○
EE4761 Computer Networking	●	◐	●	◐	○							○
EE4791 Database Systems	●	◐	●	◐	○							○
EE4838 Laser Engineering and Applications	●		●									
EE4840 Biophotonics	●		●									
EE4903 Physiological Systems Analysis	●	◐	●	◐	○							
EE4904 Biomedical Instrumentation	●		●									
EE0002 Engineers and Society						●	●	●	◐	◐		◐
EE0005 Introduction to Data Science and AI	●	●	◐	●	◐	○		○	◐	●		◐
EE0040 Engineers and Society						●	●	●	◐	◐		◐
HW0188 Engineering Communication I						◐		◐	○	●	○	◐
HW0288 Engineering Communication II						◐		◐	○	●	○	◐
GC0001 Sustainability: Seeing Thru the Haze						◐	●	◐				◐
ET0001 Enterprise & Innovation						◐	◐	◐				◐
HY0001 Ethics & Moral Reasoning						◐		●				◐
ML0001 Absolute Basics for Career								○		○		◐
ML0002 Career Power Up								○		○		◐
GER Prescribed Elective (Business & Management)												◐

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	a	b	c	d	e	f	g	h	i	j	k	l
GER Prescribed Elective (Liberal Arts)												●
GER Prescribed Elective (Science, Technology & Society)	●											●
GER Unrestricted Elective 1												●
GER Unrestricted Elective 2												●
GER Unrestricted Elective 3												●
GER Unrestricted Elective 4												●
GER Unrestricted Elective 5												●
Undergraduate Research Experience on Campus (URECA)	●	●	●	●	●	○	○	○	○	●	○	●
Undergraduate Research Opportunities Programme (UROP)	●	●	●	●	●	○	○	○	○	●	○	●

### Legend

- Fully consistent (contributes to more than 75% of the SLO)
- ◐ Partially consistent (contributes to about 50% of the SLO)
- Weakly consistent (contributes to about 25% of the SLO)
- Blank Not related to the SLO

### Abbreviations

- GER General Education Requirements
- PE Prescribed Electives
- UE Unrestricted Electives