### AU Requirement Table

<table>
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<tr>
<th>STUDY YEAR</th>
<th>EEE MAJOR REQUIREMENTS</th>
<th>GER</th>
<th>UNRESTRICTED ELECTIVE</th>
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<td>CORE (C)</td>
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### Curriculum Structure

#### YEAR 2 SEMESTER 1
- **PH1012** PHYSICS A [C 4]
- **MH2810** MATHEMATICS A [C 4]
- **IM1XXX** FOUNDATION ELECTIVE 1 [C 3] [with LAB]
- **IM1XXX** FOUNDATION ELECTIVE 2 [C 4] [with LAB]
- **DA1000** THINKING AND COMMUNICATING VISUALLY I [C 3]
- **GC0001** SUSTAINABILITY: SEEING THROUGH THE HAZE [GC 1]
- **GER-PE** BUSINESS & MANAGEMENT [GP 3]

**TOTAL** [22]

#### YEAR 2 SEMESTER 2
- **IM1XXX** FOUNDATION ELECTIVE 3 [C 3] [with LAB]
- **IM0002** ENGINEERS & SOCIETY [GC 3]
- **IM2001** SOFTWARE ENGINEERING [C 3]
- **IM2004** SIGNALS AND SYSTEMS [C 4] [MH2810 [with LAB]]
- **IM2006** ENGINEERING MATHEMATICS I [C 4] [MH2810 [with LAB]]
- **IM2073** INTRODUCTION TO DESIGN & PROJECT [C 2]
- **CS0204** BASIC MEDIA WRITING [GC 3]
- **ML0001** ABSOLUTE BASICS FOR CAREER [GC 1]

**TOTAL** [23]

#### YEAR 3 SEMESTER 1
- **IM0202** MICROPROCESSORS [C 4] [with LAB]
- **IM0203** COMPUTER COMMUNICATION [C 3] [with LAB]
- **IM0207** ENGINEERING MATHEMATICS II [C 4] [MH2810]
- **IM0303** INFORMATION SECURITY [C 3]
- **IM0308** DESIGN & INNOVATION PROJECT [C 2]
- **CS2006** THEORIES OF VISUAL COMMUNICATION AND THEIR APPLICATIONS [GC 3]
- **HW0288** ENGINEERING COMMUNICATION II # [GC 2] [HW0188#]
- **HY0001** ETHICS AND MORAL REASONING [GC 1]

**TOTAL** [22]

#### YEAR 3 SEMESTER 2
- **IM3279** PROFESSIONAL INTERNSHIP * [C 10]
- **ML0002** CAREER POWER UP [GC 1] [ML0001]

**TOTAL** [11]

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*Choose 3 from the following 4 courses:
(A) IM1001 DATA STRUCTURES & ALGORITHMS – 4AU;
(B) IM1002 ANALOG ELECTRONICS – 3AU;
(C) IM1003 OBJECT-ORIENTED PROGRAMMING – 3AU;
(D) IM1004 DIGITAL ELECTRONICS – 4AU

Students will be pre-registered with IM1001 & IM1004 in their 1st Semester. Students taking the 4-AU IM1001 will have their AU requirement increased by 1-AU.

# IEM students are waived of its pre-requisite (HW0188), on condition that they pass CS0204.

* Professional Internship (PI) is available in Year 3 Semester 1 or 2.
## Final Year Design/Technical Electives (IEM Major-PE)

Students are required to choose 1 Design Elective and 4 Technical Electives, or 2 Design Electives and 3 Technical Electives.

### Design Electives
- IM4717 Web Application Design
- IM4718 Enterprise Network Design
- IM4105 Cellular Communication System Design
- IM4413 DSP System Design

### Technical Electives
- IM4756 Computer Architecture
- IM4761 Computer Networking
- IM4791 Database Systems
- IM4152 Digital Communications
- IM4153 Telecommunication Systems
- IM4188 Wireless Communications
- IM4455 Embedded Systems
- IM4475 Audio Signal Processing
- IM4476 Image Processing
- IM4478 Digital Video Processing
- IM4483 Artificial Intelligence and Data Mining
- IM4490 Multimedia Systems
- CE4001 Virtual and Augmented Reality (SCE)
- CE4002 Visual Information Processing and Management (SCE)
- CE4003 Computer Vision (SCE)
- CE4004 3D Modelling and Animation (SCE)
- CE4015 Simulation and Modelling (SCE)

Students should not take more than 2 courses from the following group of Technical Electives:
- CS2024 Web Design and Technologies (SCI)
- CS2025 Image and Sound Production (SCI)
- CS2030 Audio in Media (SCI)
- DV2008 Interface Design (ADM)
- DM2000 Interactive I (ADM)
- DM2007 Interactive II (ADM)

^ Vacancy is subject to availability

Note: Certain Major-PEs may be offered as GER-PE / GER-UE. Re-classification of course type from GER-UE / GER-PE to Major-PE (and vice versa) after course registration are not allowed.