

1. Students need to complete at least 20 cu of level 3 and above courses in the major.
2. Students are strongly advised to follow the proper progression of course level (e.g. level 1 before level 2, and level 2 before level 3 courses).

COMPULSORY - 120 cu													
Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
ENG101 Analogue Electronics Design	5		HESZ231		Labs will be conducted on weekends.	Y	N	Y	Y	Y	Y		CRN01; Thu, Sat; Week 1, 3, 5, 7, 9, 11 CRN03; Thu, Sat; Week 1, 3, 5, 7, 9, 11 CRN04; Thu, Sat; Week 1, 3, 5, 7, 9, 11
ENG103 Digital Electronics Design	5		HESZ231		Labs will be conducted on weekends.	Y	N	Y	Y	Y	Y		CRN01; Thu, Sat; Week 2, 4, 6, 8, 10, 12 CRN03; Thu, Sat; Week 2, 4, 6, 8, 10, 12 CRN04; Thu, Sat; Week 2, 4, 6, 8, 10, 12
ENG105 Design of Logic Systems	5	ENG103	HESZ231		Labs will be conducted on weekends. Strongly suggested prerequisite: ENG103	Y	N	Y	Y	Y	Y		CRN01; Tue, Sat; Week 1, 3, 5, 7, 9, 11 CRN02; Tue, Sat; Week 1, 3, 5, 7, 9, 11
ENG107 Intellectual Property and Patents	5		TZS173			Y	N	Y	Y	Y	Y		CRN01; Tue; Week 2, 4, 6, 8, 10, 12

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan	May	Jul	Jan	Jul	Jan	Last Presentation	Time Table
						26	26	26	27	27	28		
ENG201 Linear Systems Analysis and Design	5		TZS3051 or HESZ230		Strongly suggested prerequisite s: MTH107 and MTH108. Labs will be conducted on weekends	Y	N	Y	Y	Y	Y		CRN01; Tue, Sat; Week 2, 4, 6, 8, 10, 12 CRN02; Tue, Sat; Week 2, 4, 6, 8, 10, 12
ENG203 Filter Theory and Design	5		HESZ230 or TZS3051		Labs will be conducted on weekends. Strongly suggested prerequisite s: MTH107 and MTH108	Y	N	N	Y	N	Y		
ENG205 Fundamentals of Applied Electromagnetics	5	(MTH107, MTH108, MTH316 and MTH319) or (MTH109, MTH240 & MTH316)	ENG315, ENG307			Y	N	N	Y	N	Y		
ENG209 IoT System Design	5	ENG101, ENG103 and (ICT133 or ICT162)	ENG233			Y	N	N	Y	N	Y		

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
ENG231 Engineering Ethics	5		ENG317		This course is compulsory only for students joining the programme on or after Jan 2011.	Y	N	Y	Y	Y	Y		CRN01; Fri; Week 2, 4, 6, 8, 10, 12
ENG301 Microprocessor Programming	5		TZS323		Labs will be conducted on weekends. Strongly suggested prerequisite s: ICT271 and ICT272	N	N	Y	N	Y	N		CRN01; Tue, Sat; Week 1, 3, 5, 7, 9, 11 CRN02; Tue, Sat; Week 1, 3, 5, 7, 9, 11
ENG305 Computer Communications	5		TZS305 or TZS3051		Strongly suggested prerequisite s: ENG201 and ENG203	N	N	Y	N	Y	N		CRN01; Mon, Sat; Week 1, 3, 5, 7, 9, 11
ENG308 HCIA - 5G	5	ENG201 and ENG203 or ENG201 and ENG311 or ENG203 and ENG311	ENG307, ENG315			N	N	Y	N	Y	N		CRN01; Mon; Week 2, 4, 6, 8, 10, 12

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
ENG311 Digital Signal Processing	5	ENG201 or ENG203	HESZ330		Labs will be conducted on weekends. Strongly suggested prerequisite s: ENG201 and ENG203	N	N	Y	N	Y	N		CRN01; Wed, Sat; Week 1, 3, 5, 7, 9, 11 CRN02; Wed, Sat; Week 1, 3, 5, 7, 9, 11
ENG331 Advanced Electronic Circuit Design 1	5	ENG101 & ENG103	ENG327, MTH107 and MTH108			N	N	Y	N	Y	N		CRN01; Tue, Sat; Week 2, 4, 6, 8, 10, 12
ENG335 Machine Learning	5	ICT133	ENG313		Labs will be conducted on weekends. Python programming	N	N	Y	N	Y	N		CRN01; Wed; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ENG499 Capstone Electronics Project	10	Must complete 120 cu (excluding SUSS Core courses)	TZS402		Compulsory for Honours. Runs over 2 semesters.	Y	N	Y	Y	Y	Y		CRN01; Sat; Week 0
ICT133 Structured Programming	5		ICT131 or ICT271		The course includes two runs on Thurs and Fri respectively. Excluded combination may be removed on a case by case basis.	Y	N	Y	Y	Y	Y		CRN01; Fri; Week 1, 3, 5, 7, 9, 11 CRN02; Thu; Week 1, 3, 5, 7, 9, 11 CRN03; Fri; Week 1, 3, 5, 7, 9, 11

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
ICT162 Object Oriented Programming	5	ICT133	ICT201 or ICT272		The course includes two runs on Thurs and Fri respectively. Excluded combination may be removed on a case by case basis.	Y	N	Y	Y	Y	Y		CRN01; Fri; Week 2, 4, 6, 8, 10, 12 CRN03; Fri; Week 2, 4, 6, 8, 10, 12
MTH109 Calculus	5		MTH108			Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 CRN02; Tue; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
MTH210 Fundamentals of Probability	5	MTH108 or MTH109	MZS248 or MTH219			Y	N	Y	Y	Y	Y		CRN01; Thu; Week 1, 3, 5, 7, 9, 11
MTH240 Engineering Mathematics I	5	MTH107 or MTH109	MTH207, MTH219, MTH319			N	N	Y	N	Y	N		CRN01; Fri; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
MTH316 Multivariable Calculus	5	MTH103 or MTH107 or MTH109	MTH211			Y	N	N	Y	N	Y		
MTH321 Engineering Mathematics II	5	MTH211 or MTH316	MTH215 and MTH217, MTH320			Y	N	N	Y	N	Y		

ELECTIVE - 30 cu

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
BME363 Applications of Artificial Intelligence in Healthcare	5				All seminar sessions are conducted online (3 hrs per session).	N	N	Y	N	Y	N		CRN01; Tue; Week 1, 3, 5, 7, 9, 11
DSM301 Fundamentals of Data Science	5	ICT133 or ANL252				Y	N	N	Y	N	Y		
EAS306 Design of Aircraft Electrical Systems and Servomechanisms	5	ENG101 & ENG103	EAS305			Y	Y	N	Y	N	Y		
EAS401 Robotics Mechanics and Control	5	ICT162				N	N	Y	N	Y	N		CRN01; Thu; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
EAS425 Flight Line and Hangar Management	5					N	Y	N	N	N	N		
EAS437 Reliability-Centered Maintenance	5					N	Y	N	N	N	N		
ENG207 Engineering Economics and Analysis	5					N	N	Y	N	Y	N		CRN01; Thu; Week 2, 4, 6, 8, 10, 12
ENG235 Applications of AIoT	5		ENG233			Y	N	Y	Y	Y	Y		CRN01; Wed, Sat; Week 2, 4, 6, 8, 10, 12 CRN02; Wed, Sat; Week 2, 4, 6, 8, 10, 12
ENG319 Analogue Control System Design	5		ENG377		Labs will be conducted on weekends. Strongly suggested prerequisite s: ENG201 and ENG203.	Y	N	N	Y	N	Y		

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan	May	Jul	Jan	Jul	Jan	Last Presentation	Time Table
						26	26	26	27	27	28		
ENG321 Digital Control System Design	5		ENG377		Labs will be conducted on weekends. Strongly suggested pre-requisites: ENG201 and ENG203.	Y	N	N	Y	N	Y		
ENG323 Electronic Materials	5		HESZ341 or TZS354	ENG325 (same semester)	Strongly suggested prerequisite s: ENG101, ENG103, MTH211, MTH219	Y	N	N	Y	N	Y		
ENG325 Semiconductor Devices	5		HESZ341 or TZS354	ENG323 (same semester)	Strongly suggested prerequisite s: ENG101, ENG103, MTH211 and MTH219	Y	N	N	Y	N	Y		
ENG328 VLSI Design 2	5	ENG331	HESZ342		Labs will be conducted on weekends. Strongly suggested prerequisite s: ENG101, ENG103, ENG105 and ENG107	N	N	Y	N	Y	N		CRN01; Thu, Sat; Week 7, 8, 9, 10, 11, 12

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
ENG330 Radar System Applications	5				Labs will be conducted on weekends. Strongly suggested prerequisite s: ENG201 and ENG205.	N	N	Y	N	Y	N		CRN01; Fri; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ENG333 RF and Microwave Design of Wireless Systems	5				Strongly suggested prerequisite s: ENG201 and ENG205.	Y	N	N	Y	N	Y		
HFS351 Safety Management and Audit	5					Y	N	Y	Y	Y	Y		CRN01; Wed; Week 1, 2, 3, 4, 5, 6
HFSY357 Environmental Management and Sustainable Development	5					Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 4, 6, 8, 10, 12
ICT302 Generative AI: Theory and Practice	5	ICT133				Y	N	N	Y	N	Y		
ICT330 Database Management Systems	5		ICT321		Can be taken with ICT340 in the same semester	Y	N	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 3, 5, 7, 9, 11 CRN02; Mon, Sat; Week 1, 3, 5, 7, 9, 11
MTD321 Computer Graphics and Interaction	5		MTD315			Y	N	N	Y	N	Y		

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
MTD369 Virtual Reality and Augmented Reality	5				As MTD369 is a level 3 course with coding, students are highly recommended to have basic programming experience to take the course.	Y	N	N	Y	N	Y		
MTH212 Statistical Analysis	5		MZS248 or MTH220			Y	N	Y	Y	Y	Y		CRN01; Thu; Week 2, 4, 6, 8, 10, 12 CRN02; Thu; Week 2, 4, 6, 8, 10, 12
SST102 Human Factors and Systems Design	5		HFS101			Y	N	Y	Y	Y	Y		CRN01; Thu; Week 1, 2, 3, 4, 5, 6, 12 CRN02; Thu; Week 1, 2, 3, 4, 5, 6, 12

- If the presentation status is 'Y' = the course is presenting in the semester, 'N' = the course is not presenting in the semester, 'RT' = the course has been retired and will not be presented again, 'RP' = the course has been replaced and will not be presented again.
- The information listed is subject to review and change.

University Core - SUSS Core Table (2023/07 Intakes onwards)

SUSS CORE COMPULSORY - 10 cu

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
NCO101 Living with Community	5					Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 4, 5, 8, 9, 11 CRN02; Tue, Wed; Week 1, 2, 4, 5, 8, 9, 11 CRN03; Tue, Thu; Week 1, 2, 4, 5, 8, 9, 11 CRN04; Tue; Week 1, 3, 4, 6, 8, 10, 12 CRN05; Tue, Wed; Week 1, 3, 4, 6, 8, 10, 12 CRN06; Tue, Thu; Week 1, 3, 4, 6, 8, 10, 12 CRN07; Thu; Week 1, 3, 4, 6, 8, 10, 12
NCO201 Learn to Learn, Learn for Life	5					Y	N	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 3, 5, 7, 9, 11 CRN02; Tue; Week 1, 3, 5, 7, 9, 11 CRN03; Wed; Week 1, 3, 5, 7, 9, 11 CRN04; Thu; Week 1, 3, 5, 7, 9, 11 CRN05; Fri; Week 1, 3, 5, 7, 9, 11 CRN06; Fri; Week 1, 3, 5, 7, 9, 11

SUSS CORE ELECTIVES (ENGAGEMENT) - 5 cu

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
SST101 Principles of Project Management	5					Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 3, 4, 5, 6, 12
SST388 STEM Interdisciplinary Project	5		EMT388, FMT388			Y	N	N	Y	N	Y		

SUSS CORE ELECTIVES (PEOPLE) - 5 cu

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan 26	May 26	Jul 26	Jan 27	Jul 27	Jan 28	Last Presentation	Time Table
NCO111 Work and Learning in a Changing World	2.5					Y	Y	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 2, 3 CRN02; Tue; Week 1, 2, 3 CRN03; Thu; Week 1, 2, 3 CRN04; Fri; Week 1, 2, 3 CRN05; Tue; Week 7, 8, 9 CRN06; Thu; Week 7, 8, 9 CRN07; Fri; Week 7, 8, 9 CRN08; Sat; Week 7, 8, 9
NCO112 Peak Performance	2.5					Y	Y	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 2, 4, 5 CRN02; Tue; Week 1, 2, 4, 5 CRN03; Thu; Week 1, 2, 4, 5 CRN04; Fri; Week 1, 2, 4, 5 CRN06; Tue; Week 7, 8, 10, 11 CRN07; Thu; Week 7, 8, 10, 11 CRN08; Fri; Week 7, 8, 10, 11

Course	Credit Units	Pre-requisite	Excluded Combination	Grouping	Remarks	Jan	May	Jul	Jan	Jul	Jan	Last Presentation	Time Table
						26	26	26	27	27	28		
NCO113 Teamwork in the Modern Workplace	2.5					Y	Y	Y	Y	Y	Y		CRN01; Tue; Week 1, 2, 4, 6 CRN02; Thu; Week 1, 2, 4, 6 CRN03; Fri; Week 1, 2, 4, 6 CRN04; Mon; Week 7, 8, 10, 12 CRN05; Tue; Week 7, 8, 10, 12 CRN06; Thu; Week 7, 8, 10, 12 CRN07; Fri; Week 7, 8, 10, 12 CRN08; Sat; Week 7, 8, 10, 12 CRN13; Mon, Sat; Week 1, 2, 4, 6 CRN14; Sat; Week 1, 2, 4, 6
NCO205 User-Centred Design: Human Factors and Design Thinking	5					Y	N	Y	Y	Y	Y		CRN01; Mon, Sat; Week 1, 3, 5, 6, 7, 11 CRN02; Tue; Week 1, 3, 5, 6, 7, 11 CRN03; Thu; Week 1, 3, 5, 6, 7, 11 CRN04; Fri; Week 1, 3, 5, 6, 7, 11 CRN05; Sat; Week 1, 3, 5, 6, 7, 11 CRN06; Fri; Week 1, 3, 5, 6, 7, 11

Retired/Replaced List

Course	Credit Units	Status	Effective From Semester	Remarks
ANL201 Data Visualisation for Business	5	Retired	2025/01	
ANL303 Fundamentals of Data Mining	5	Retired	2025/01	
EAS305 Aircraft Electrical, Instrument Systems/Servomechanisms and Electronics	5	Retired	2024/07	Replaced by EAS306
ENG233 Internet of Things (IoT)	5	Replaced	2026/01	Replaced by ENG209
ENG327 VLSI Design 1	5	Replaced	2025/07	Replaced by ENG331
MTD315 Computer Interactive Graphics	5	Replaced	2026/01	Replaced by MTD321
MTH107 Calculus I	5	Retired	2025/01	
MTH108 Calculus II	5	Replaced	2025/07	Replaced by MTH109
MTH219 Fundamentals of Statistics and Probability	5	Replaced	2025/01	Replaced by MTH210
MTH319 Mathematical Methods I	5	Replaced	2025/07	Replaced by MTH240
MTH320 Mathematical Methods II	5	Replaced	2025/01	Replaced by MTH321