

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 study plan.
3. The timetable will be issued separately. Where possible, students should attend the daytime classes.
4. The excluded combinations in the curriculum plan are not applicable to full-time students.

COMPULSORY - 90 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
DSM101 Mathematical Foundations for Data Science	5				Not offered to BSMA & BSHMA students	Y	N	N	Y	N	Y		
ENG335 Machine Learning	5		ENG313		Labs will be conducted on weekends. Python programming	N	N	Y	N	Y	N		
ICT101 Computational Thinking	5					N	N	Y	N	Y	N		
ICT114 Computer Architecture	5		ICT121			N	N	Y	N	Y	N		
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.	N	N	Y	N	Y	N		

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	N	Y	N	Y		
ICT233 Data Programming	5	ICT133	ICT203			Y	N	N	Y	N	Y		
ICT235 Data Structures and Algorithms	5	ICT133	MTH251 or MTH252 or ICT231 or ICT232			Y	N	N	Y	N	Y		
ICT239 Web Application Development	5	ICT133, ICT162	ICT205			N	N	Y	N	Y	N		
ICT246 Operating Systems	5		ICT209		Can be taken with ICT259 in the same semester	N	N	Y	N	Y	N		
ICT259 Computer Networking	5		ICT210		Can be taken with ICT246 in the same semester	Y	N	N	Y	N	Y		
ICT318 Network Security	5	ICT246 & ICT259	ICT211			N	N	Y	N	Y	N		
ICT330 Database Management Systems	5		ICT321		Can be taken with ICT340 in the same semester	Y	N	Y	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
ICT335 Cloud Computing: Business Case and Technical Models	5				Can take with ICT337 in the same semester	Y	N	N	Y	N	Y		
ICT340 Application Analysis and Design	5	ICT162	ICT322		Can be taken with ICT330 in the same semester	Y	N	N	Y	N	Y		
ICT348 Information Security Offence Defence and Incident Management	5	ICT246 & ICT259	ICT212			Y	N	N	Y	N	Y		
NIE499 Interdisciplinary Capstone Project	10	90CU excluding SUSS Core AND min. 30CU of level 200/300 Major courses				N	N	N	N	Y	N		
ELECTIVE - 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
ANL201 Data Visualisation for Business	5	ANL101 or BUS105	ANL315			Y	N	Y	Y	Y	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
ANL303 Fundamentals of Data Mining	5				Non-Analytics students are strongly advised to complete BUS105 or a course that covers data analysis with the use of a statistical software before taking ANL303.	Y	N	Y	Y	Y	Y		
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		
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
ICT223 Business Analysis	10		MKT201 & ECO201			Y	N	N	Y	N	Y		
ICT225 Management Information Systems	5		ICT219			N	N	N	N	Y	N		

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
ICT226 Enterprise Systems and Integrated Business Process	5		ICT220			Y	N	Y	Y	Y	Y		CRN02; Wed, Sat; Week 1, 2, 4, 6, 8, 10, 12
ICT255 Oracle Certified Associate	10					Y	N	Y	Y	Y	Y		CRN02; Wed, Sat; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT257 Red Hat System Administration	10		ICT251; ICT252			Y	N	Y	Y	Y	Y		CRN01; Thu, Sat; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT263 AWS Certified Cloud Practitioner	5					Y	N	Y	Y	Y	Y		CRN01; Wed; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 CRN02; Wed; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT264 HCIA - Datacom	10		ICT262			Y	N	Y	Y	Y	Y		CRN01; Thu; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT265 IT Service Management Fundamentals	5					Y	N	N	Y	N	Y		
ICT302 Generative AI: Theory and Practice	5	ICT133				Y	N	N	Y	N	Y		
ICT304 NLP Foundation for Generative AI	5	ICT133				N	N	Y	N	Y	N		CRN01; Thu; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT306 Deep Learning for Computer Vision	5	ICT233				N	N	N	N	Y	N		
ICT317 IT Project Management	10					Y	N	Y	Y	Y	Y		CRN01; Tue, Sat; Week 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

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
ICT323 Introduction to Parallel Computing	5	ICT114 & ICT246				N	N	N	Y	N	Y		
ICT325 Algorithm Design and Analysis	5					N	N	Y	N	Y	N		CRN01; Wed; Week 2, 4, 6, 8, 10, 12
ICT337 Big Data Computing in the Cloud	5	Exposure to Distributed Computing and Python	ICT336		Need background knowledge of ICT335	N	N	Y	N	Y	N		CRN02; Tue; Week 2, 4, 6, 8, 10, 12
ICT338 Information Security Challenges in Smart Computing	5	Foundation knowledge of computer security	ICT309			Y	N	N	Y	N	Y		
ICT341 Web Informatics Programming	5	ICT233 & ICT239	ICT333			Y	N	N	Y	N	Y		
ICT365 AWS Certified Developer - Associate	5	ICT263				N	N	Y	Y	Y	Y		CRN01; Wed, Sat; Week 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT366 AWS Certified Solutions Architect - Associate	5	ICT263				Y	N	Y	Y	Y	Y		CRN01; Fri; Week 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT367 AWS Certified SysOps Administrator - Associate	5	ICT263				Y	N	Y	Y	Y	Y		CRN01; Fri; Week 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
ICT369 AWS Certified Machine Learning	5	ICT133 & ICT263 OR ANL252 & ICT263	ICT368			Y	N	Y	Y	Y	Y		
ICT381 Software Engineering and DevOps	5					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
MTD319 Android Application Development	5		MTH102		As MTD319 is a level 3 course with coding, students are highly recommended to have basic programming experience to take the course.	N	N	Y	N	Y	N		CRN01; Mon, Sat; Week 0, 1, 2, 4, 5, 6
MTD367 iOS Application Development	5		MTD358		As MTD367 is a level 3 course with coding, students are highly recommended to have basic programming experience to take the course. Students will need to use an Apple notebook (MacBook) to work on assignments.	N	N	Y	N	Y	N		CRN01; Mon, Sat; Week 0, 1, 2, 4, 5, 6

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
MTH352 Cryptography	5		MTH313			N	N	Y	N	Y	N		CRN01; Wed; Week 2, 4, 6, 8, 10, 12

FREE ELECTIVE - 40 cu
Students can use 30 cu to take a minor.

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
GSP100 General/Free Electives	-					Y	N	Y	Y	Y	Y		

- 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.

SUSS CORE

A separate timetable will be issued

SUSS CORE COMPULSORY - 47.5 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
NCO101 Living with Community	5					Y	N	Y	Y	Y	Y		
NCO102 Effective Writing	5					Y	N	Y	Y	Y	Y		
NCO103 Listen and Be Heard: Effective Communication through Storytelling	5					Y	N	Y	Y	Y	Y		
NCO111 Work and Learning in a Changing World	2.5				NCO111 is presented during the special semester in the evening only.	Y	Y	Y	Y	Y	Y		
NCO201 Learn to Learn, Learn for Life	5					Y	N	Y	Y	Y	Y		
NCO203 Critical Thinking and Problem Solving	5					Y	N	Y	Y	Y	Y		
NCO205 User-Centred Design: Human Factors and Design Thinking	5					Y	N	Y	Y	Y	Y		
NIE201 Interdisciplinary Processes for a Better World	5					Y	N	Y	Y	Y	Y		
NIE301 Learning with Communities	5				The course spans 2 regular semesters.	Y	N	Y	Y	Y	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
NIE351 Interdisciplinary Global Learning	5	NIE201			The course spans 2 regular semesters. There is a compulsory travel component during the semester break. The pre-requisite of NIE201 only applies to students from Part-Time Honours & Full-Time Programmes.	Y	N	Y	Y	Y	Y		

SUSS CORE ELECTIVES (CAPACITIES) - 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
NCO211 Data Interpretation and Social Analytics	5					Y	N	N	Y	N	Y		
NCO212 The 'Smart City' and Society	5					Y	N	Y	Y	Y	Y		

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		
SST388 STEM Interdisciplinary Project	5					Y	N	N	Y	N	Y		

SUSS CORE ELECTIVES (PEOPLE) - 2.5 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
NCO112 Peak Performance	2.5	NCO111			NCO112 is presented during the special semester in the evening only.	Y	Y	Y	Y	Y	Y		
NCO113 Teamwork in the Modern Workplace	2.5	NCO111			NCO113 is presented during the special semester in the evening only.	Y	Y	Y	Y	Y	Y		

LIST OF SECONDARY FIELDS TO TAKE WITH Bachelor of Science in Information and Communication Technology - FTBICTMJ1

Minor

[Accountancy](#)

[Analytics](#)

[Application Development](#)

[Applied Ageing Studies](#)

[Applied Behavioural Sciences](#)

[Applied Economics](#)

[Aviation Management](#)

[Business](#)

[Chinese Language and Culture](#)

[Chinese Literature](#)

[Cloud Computing](#)

[Communication](#)

[Criminal Investigation](#)

[Criminology](#)

[Crisis Management](#)

[Cyber Safety and Information Security](#)

[Data Science](#)

[Digital Content Marketing](#)

[Digital Media](#)

[Employment Development](#)

[English Language](#)

[English Literature](#)

[Entrepreneurship](#)

[Events Management](#)

[Facilities Management](#)

[Film Studies](#)

[Finance](#)
[Financial Technology](#)
[Food Security and Sustainability](#)
[Generative Artificial Intelligence](#)
[Human Factors](#)
[Human Resource Management](#)
[Insurance Fundamentals](#)
[International Trade Management](#)
[Introduction to ASEAN-China-India](#)
[Leadership](#)
[Malay Language](#)
[Management](#)
[Maritime Management](#)
[Marketing](#)
[Mathematics](#)
[Military Studies](#)
[Outdoor Education](#)
[Paramedicine and Emergency Response](#)
[Physical Education](#)
[Political Science](#)
[Procurement Management](#)
[Psychology \(Business\)](#)
[Psychology \(Culture\)](#)
[Psychology \(Education\)](#)
[Psychology \(Forensics\)](#)
[Psychology \(Health\)](#)
[Psychosocial Intervention](#)
[Screen Production](#)
[Social Entrepreneurship and Innovation](#)

[Sociology](#)

[Special Education](#)

[Supply Chain Management](#)

[Sustainable Business Practices](#)

[Tamil Language](#)

[Translation](#)

[Work-based Learning](#)

[Workplace Safety and Health](#)

Retired/Replaced List

Course	Credit Units	Status	Effective From Semester	Remarks
ENG233 Internet of Things (IoT)	5	Replaced	2026/01	Replaced by ENG235
ICT231 Data Structures and Algorithms I	5	Replaced	2025/01	ICT235
ICT232 Data Structures and Algorithms II	5	Replaced	2025/01	ICT235
ICT368 AWS Academy Data Analytics and Machine Learning Foundation	5	Replaced	2024/01	Replaced by ICT369
MTH251 Data Structures and Algorithms I	5	Replaced	2024/01	Replaced by ICT231
MTH252 Data Structures and Algorithms II	5	Replaced	2024/01	Replaced by ICT232