

1. Applicants must satisfy any one of the following:
 - a. Completed ICT133 Structured Programming or
 - b. Introduction to Python course in Datacamp* or
 - c. Python course in Kaggle*

*Applicants must submit evidence of course completion

2. As part of the graduation requirement, students must complete at least 10 cu of level 3 courses & above from the minor.

3. This minor is only applicable to students enrolled in 2023/01 and before.

MMDSC^MINOR CORE - 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
ANL201 Data Visualisation for Business	5	BUS105 or MTH220 or MTH212	ANL315			Y	N	Y	Y	Y	Y		CRN01; Wed; Week 1, 3, 5, 7, 9, 11 CRN02; Wed; 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
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		CRN01; Tue; Week 1, 3, 5, 7, 9, 11 CRN02; Tue; Week 1, 3, 5, 7, 9, 11
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		CRN01; Wed; Week 1, 2, 3, 4, 5, 6, 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
ICT162 Object Oriented Programming	5		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
ICT330 Database Management Systems	5		ICT321			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
MMDSC*MINOR 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
ANL305 Association and Clustering	5	ANL303			ANL305 can be taken in the same semester as ANL303.	N	N	Y	N	Y	N		CRN01; Tue; Week 2, 4, 6, 8, 10, 12 CRN02; Tue; Week 2, 4, 6, 8, 10, 12
ANL307 Predictive Modelling	5	ANL303			Must have taken and passed ANL303 first.	Y	N	N	Y	N	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

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
BUS376 The Intelligent Enterprise: Harnessing Emerging Technologies	5		BUS362, BUS361			N	N	N	Y	Y	Y		
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
FTH385 Blockchain Technology and Smart Contract for Finance	5		FIN385			Y	N	N	Y	N	Y		
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
ICT233 Data Programming	5		ICT203		Students should have taken ICT162 or a similar course prior to this course.	Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 3, 5, 7, 9, 11 CRN02; Tue; Week 1, 3, 5, 7, 9, 11

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ICT239 Web Application Development	5	ICT162	ICT205		Students should have taken ICT162 or a similar course prior to this course.	Y	N	Y	Y	Y	Y		CRN01; Tue; Week 2, 4, 6, 8, 10, 12 CRN02; Tue; Week 2, 4, 6, 8, 10, 12
ICT302 Generative AI: Theory and Practice	5	ICT133				Y	N	N	Y	N	Y		
ICT337 Big Data Computing in the Cloud	5	Exposure to Distributed Computing and Python				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		
ICT348 Information Security Offence Defence and Incident Management	5	ICT246 & ICT259	ICT212			Y	N	Y	Y	Y	Y		CRN01; Wed; Week 2, 4, 6, 8, 10, 12 CRN02; Wed; Week 2, 4, 6, 8, 10, 12
MKT368 Digital Marketing	5		MKT360			N	N	Y	N	Y	N		CRN01; Wed; Week 1, 3, 5, 7, 9, 11 CRN02; Wed; Week 1, 3, 5, 7, 9, 11
MKT371 Customer Insights and Analytics	5		MKT355			Y	N	N	Y	N	Y		
MTD366 Online Channel Creation & Management	5					Y	N	Y	Y	Y	Y		CRN01; Tue; Week 1, 3, 5, 7, 9, 10

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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		
MTH207 Linear Algebra	5		MZS2032			N	N	Y	N	Y	N	2029/07	CRN01; Wed; Week 1, 3, 4, 5, 7, 9, 11 CRN02; Wed; Week 1, 3, 4, 5, 7, 9, 11
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
MTH353 Basic Statistical Methods in Experimental Design	5	BUS105 or HBC203 or MTH220 or MTH212	MTH315	MTH354		N	N	Y	N	Y	N		CRN01; Thu; Week 2, 4, 6, 8, 10, 12
MTH354 Advanced Statistical Methods in Experimental Design	5	MTH353	MTH317	MTH353		Y	N	N	Y	N	Y		
MTH355 Basic Mathematical Optimisation	5	MTH207 or MTH211 or MTH319	MTH310			Y	N	N	Y	N	Y		

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MTH356 Advanced Mathematical Optimisation	5	DSM101 or MTH211 or MTH316	MTH309			N	N	Y	N	Y	N		CRN01; Tue; Week 2, 4, 6, 8, 10, 12
MTH357 Applied Regression Analysis I	5	BUS105 or HBC203 or MTH220 or MTH212	MTH307	MTH358		Y	N	N	Y	N	Y		
MTH358 Applied Regression Analysis II	5	MTH357	MTH308	MTH357		N	N	Y	N	Y	N		CRN01; Thu; Week 2, 4, 6, 8, 10, 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.

Retired/Replaced List

Course	Credit Units	Status	Effective From Semester	Remarks
BUS362 IT-Enabled Business Transformation	5	Replaced	2026/07	Replaced by BUS376
EAS401 Robotics Mechanics and Control	5	Retired	2024/01	
ENG233 Internet of Things (IoT)	5	Replaced	2026/01	Replaced by ENG235
FIN383 Financial Technologies and Innovations	5	Retired	2023/07	
FIN385 Blockchain Technology and Smart Contract for Finance	5	Replaced	2025/07	Replaced by FTH385
MKT355 Multivariate Analysis	5	Replaced	2023/01	Replaced by MKT371
MKT360 Internet & Social Media Marketing	5	Retired	2023/07	
MTH220 Statistical Methods and Inference	5	Replaced	2025/01	Replaced by MTH212