



PROGRAM STRUCTURE

Master of Computer Applications

Duration: 2 Years

Batch: 2026–2028

**School of Computer Science Engineering and Technology,
Bennett University**

Year 1 – Semester 1

[illegible]

Year 1 – Semester 2

[illegible]

Year 2 – Semester 3

[illegible]

Year 2 – Semester 4

S.No.	Title	Course Code	L	T	P	E	Credit
1	Research Apprenticeship		0	0	40		20
20							

GE/MDC Electives (Additional courses offered by other Schools of BU will also be included)

[illegible]

LIST OF ELECTIVE & SPECIALISATION COURSES

Specialization Core

S.No.	Course Code	Title	L	T	P	Cr
1		Statistical Machine Learning	3	0	2	4
2		Introduction to Blockchain	3	0	2	4
3		Linux and Shell Programming	2	0	4	4
4		Data Analysis using Python	2	0	4	4
5		UI/UX Design	2	0	4	4

Specialization Elective Main

S.No.	Course Code	Title	L	T	P	Cr
1		Cloud Computing	3	0	2	4
2		Intelligent Model Design using AI	3	0	2	4
3		Blockchain Engineering	3	0	2	4
4		System and Network Security	3	0	2	4
5		Data Mining and Predictive Modelling	3	0	2	4

Specialization Electives: Artificial Intelligence

S.No.	Course Code	Title	L	T	P	Cr
1		Advanced Computer Vision and Video Analytics	2	0	2	3
2		Cognitive Modelling	2	0	2	3
3		Probability and Random Processes	2	0	2	3
4		AI in Healthcare	2	0	2	3
5		Image and Video Processing	2	0	2	3
6		Information Retrieval	2	0	2	3
7		Natural Language Processing	2	0	2	3
8		Social Network Analysis	2	0	2	3
9		Reinforcement Learning	2	0	2	3
10		Special Topics in Artificial Intelligence	2	0	2	3
11		Product Design Technology	2	0	2	3

Specialization Electives: Blockchain

S.No.	Course Code	Title	L	T	P	Cr
1		Blockchain Technologies: Platforms & Applications	2	0	2	3
2		Smart Contracts and Solidity Programming	2	0	2	3
3		Digital Currencies and Blockchain	2	0	2	3
4		Blockchain Policy: Legal, Social and Economic Impact	2	0	2	3
5		Cyber Security with Blockchain	2	0	2	3
6		Web Development for Blockchain Applications	2	0	2	3
7		Security and Privacy for Big Data Analytics	2	0	2	3
8		Modern Cryptography	2	0	2	3
9		Cloud Infrastructure and Services	2	0	2	3
10		Special Topics in Blockchain	2	0	2	3
11		Emerging Topics in Blockchain	2	0	2	3

Specialization Electives: Cyber Security

S.No.	Course Code	Title	L	T	P	Cr
1		Cyber Security with Blockchain	2	0	2	3
2		Malware Analysis for Mobile Devices	2	0	2	3
3		Modern Cryptography	2	0	2	3
4		Security and Privacy for Big Data Analytics	2	0	2	3
5		Device Level IoT Security	2	0	2	3
6		Vulnerability Analysis in Network Protocols	2	0	2	3
7		Penetration Testing, Auditing and Ethical Hacking	2	0	2	3
8		Forensics and Cyber Law	2	0	2	3
9		Web Security	2	0	2	3
10		Special Topics in Information Security	2	0	2	3
11		Cloud Security and Compliances	2	0	2	3
12		Emerging Topics in Cyber Security	2	0	2	3

Specialization Electives: Data Science

S.No.	Course Code	Title	L	T	P	Cr
1		Digital Marketing and Trend Analysis	2	0	2	3
2		Structural Equation Modelling	2	0	2	3
3		Time Series Analysis	2	0	2	3
4		Data Visualization and Dashboards	2	0	2	3
5		Security and Privacy for Big Data Analytics	2	0	2	3
6		Social Network Analysis	2	0	2	3
7		Big Data Analytics and Business Intelligence	2	0	2	3
8		Advanced Database Management System	2	0	2	3
9		Satellite Data Analysis	2	0	2	3
10		Special Topics in Data Science	2	0	2	3
11		Emerging Topics in Data Science	2	0	2	3

Specialization Electives: Core CSE (Non-Specialization)

S.No.	Course Code	Title	L	T	P	Cr
1		Image and Video Processing	2	0	2	3
2		Secure Coding	2	0	2	3
3		Compiler Construction	2	0	2	3
4		Software Project Management	2	0	2	3
5		Soft Computing	2	0	2	3
6		Distributed Computing	2	0	2	3
7		Agile Software Development	2	0	2	3
8		Virtual Reality: Interface, Application and Design	2	0	2	3
9		Cloud Infrastructure and Services	2	0	2	3
10		Combinatorics	2	0	2	3
11		Mobile and Networked Embedded Systems	2	0	2	3
12		Problem Solving using C	2	0	2	3
13		Drone Applications, Components and Assembly	2	0	2	3
14		Programming using C++	2	0	2	3
15		Deep Learning	2	0	2	3
16		Bioinformatics and Computational Genomics	2	0	2	3
17		Special Topics in Computer Science	2	0	2	3
18		Satellite Data Analysis	2	0	2	3
19		Reinforcement Learning	2	0	2	3
20		Game Programming with HTML5	2	0	2	3
21		Natural Language Processing	2	0	2	3
22		Cloud System Administration and Operations	2	0	2	3
23		Software Craftsmanship in DevOps	2	0	2	3
24		Advanced Computer Vision and Video Analytics	2	0	2	3
25		Cognitive Modelling	2	0	2	3
26		Probability and Random Processes	2	0	2	3
27		AI in Healthcare	2	0	2	3
28		Information Retrieval	2	0	2	3
29		Special Topics in Artificial Intelligence	2	0	2	3
30		Blockchain Technologies: Platforms & Applications	2	0	2	3
31		Smart Contracts and Solidity Programming	2	0	2	3
32		Digital Currencies and Blockchain	2	0	2	3
33		Blockchain Policy: Legal, Social and Economic Impact	2	0	2	3
34		Web Development for Blockchain Applications	2	0	2	3
35		Special Topics in Blockchain	2	0	2	3
36		Malware Analysis for Mobile Devices	2	0	2	3
37		Device Level IoT Security	2	0	2	3
38		Vulnerability Analysis in Network Protocols	2	0	2	3
39		Penetration Testing, Auditing and Ethical Hacking	2	0	2	3
40		Forensics and Cyber Law	2	0	2	3
41		Web Security	2	0	2	3
42		Special Topics in Information Security	2	0	2	3
43		Cloud Security and Compliances	2	0	2	3

S.No.	Course Code	Title	L	T	P	Cr
44		Digital Marketing and Trend Analysis	2	0	2	3
45		Structural Equation Modelling	2	0	2	3
46		Time Series Analysis	2	0	2	3
47		Data Visualization and Dashboards	2	0	2	3
48		Big Data Analytics and Business Intelligence	2	0	2	3
49		Advanced Database Management System	2	0	2	3
50		Special Topics in Data Science	2	0	2	3
51		Android Application using Kotlin	2	0	2	3
52		Modern and Contemporary Application in CS	2	0	2	3
53		Latest Advances in Engineering and Technology	2	0	2	3
54		Emerging Topics in Artificial Intelligence	2	0	2	3
55		Emerging Topics in Blockchain	2	0	2	3
56		Emerging Topics in Cyber Security	2	0	2	3
57		Emerging Topics in Data Science	2	0	2	3