Vishwakarma University (VU), Pune

Master of Computer Applications (MCA)
2 Years – 4 Semesters Full Time Programme
Effective from AY 2024 – 2025

Programme Structure (NEP)
Choice Based Credit System (CBCS) and Grading System
Outcome-Based Education

Semester I

Java Programming	
Data Structures and Algorithms	
Advanced Software Engineering Principles	
Network Technologies	
Research Methodology	
Elective – 1	Data Privacy and Protection
	Applied Statistical Methods
Elective - 2	WordPress
	Linux system administration

Semester II

Python Programming	
Advanced DBMS	
Software Project Management	
Optimization Techniques	
Data Warehousing & Data Mining	
Elective - 1	Block Chain Technology
	Design Thinking & Problem Solving
Elective - 2	Green Computing
	Data Analytics

Semester III

Mobile Application Development	
Cloud Infrastructure and Services	
AI & ML	
Internet of Things (IoT)	
Project -1	
Elective - 1	AR - VR
	Robotic Process Automation (RPA)
Elective - 2	Tableau + Power BI
	Statistics Using R Programming

Semester IV

DevOps	
Big Data Analytics and Applications	
Internship/ Apprenticeship	
Project -2	
Elective - 1	Game Programming
	Android Application Development