



SVKM's Usha Pravin Gandhi College of Arts, Science and Commerce (Autonomous), Mumbai
Master of Science in Information Technology (M.Sc.I.T.) Program Structure for First Year 2026-2027



SEMESTER I		SEMESTER II	
MAJOR		MAJOR	
Data Science (4)		Big Data Analytics TH (4)	
Data Science Practical (2)		Big Data Analytics Practical PR (2)	
Soft Computing Techniques (4)		Modern Networking TH (4)	
Soft Computing Techniques Practical (2)		Modern Networking Practical PR (2)	
Cloud Computing (2)		Microservices Architecture TH (2)	
Security Breaches and Countermeasures Practical (4)		Malware Analysis Practical (4)	
Data Center Technologies (4)		Cloud Management Practical (4)	
Image Processing (4)		Computer Vision Practical (4)	
MINOR		MINOR	
Research Methodology (4)		NIL	
OJT/FP/CC/CEP		OJT/FP/CC/CEP	
NIL		On Job Training 4	
Total Credits	22	Total Credits	22

Total Number of Credits in M.Sc. IT: 44
 Figure in the brackets represent number of credits.



M.Sc. (Information Technology) USP	<p>The M.Sc. Information Technology program at SVKM's UPG College offers an advanced, industry-oriented curriculum that builds expertise in software development, data management, and emerging IT technologies. With hands-on learning through real-world projects and internships, along with strong career support including technical training, mock interviews, and placement assistance, the program prepares students for successful careers in the dynamic IT industry.</p>
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SVKM's Usha Pravin Gandhi College of Arts, Commerce & Science

Master of Science (Information Technology) - Course Structure

Master of Science (Information Technology) - Course Structure					
Semester	Major		Minor	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives			
I	Data Science (4) Data Science Practical (2) Soft Computing Techniques (4) Soft Computing Techniques Practical (2) Cloud Computing (2)	Security Breaches and Countermeasures Practical (4) (OR) Data Center Technologies (4) (OR) Image Processing (4)	Research Methodology (4)		22
II	Big Data Analytics TH (4) Big Data Analytics Practical PR (2) Modern Networking TH (4) Modern Networking Practical PR (2) Microservices Architecture TH (2)	Malware Analysis Practical (4) (OR) Cloud Management Practical (4) (OR) Computer Vision Practical (4)		On Job Training (4)	22



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Semester	Major		Minor	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives			
III	Advanced AI (4) Advanced AI Practical (2) Machine Learning (4) Machine Learning Practical (2) Storage as a Service (2)	Natural Language Processing (4) (OR) Security Operations Center Practical (4) (OR) Server Virtualization on VMWare Platform Practical (4)		Research Project (4)	22
IV	Blockchain TH (4) BlockchainI Practical PR (2) Deep Learning TH (4) Deep Learning Practical PR (2)	Robotic Process Automation Practical (4) (OR) Cyber Forensics Practical (4) (OR) Advanced IOT Practical (4)		Research Project (6)	22



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