



Graphic Era (Deemed to be University)
M.Tech. in Computer Science and Engineering
Scheme of Teaching and Evaluation 2025

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) as per NEP 2020
(Effective from the academic year 2025-26)

Semester I

COURSE MODULE					TEACHING PERIODS				WEIGHTAGE : EVALUATION			
COURSE				Credits	L	T	P	Contact Hr.	CIE	MSE	ESE	Total
Code	Title	NEP Component	AICTE Component									
MCS102	Mobile Computing	DSC	PCC	3	3	-	-	3	25	25	50	100
MCS103	Advanced Operating Systems	DSC	PCC	3	3	-	-	3	25	25	50	100
MCS104	Networking Protocols	DSC	PCC	3	3	-	-	3	25	25	50	100
	Discipline Elective I	DSE	PEC	3	3	-	-	3	25	25	50	100
MCS153	Networking Protocols and Mobile Computing Lab	DSC	LC	2	-	-	4	4	25	25	50	100
MCS164	Computing Lab I	DSC	LC	2	-	-	4	4	25	25	50	100
MCS114	Research Methodology and IPR	VAC	VAC	2	2	-	-	2	25	25	50	100
GP101	General Proficiency	SEC	SEC	1	-	-	-	-	100	-	-	100
Total				19								800

**DISCIPLINE ELECTIVE COURSES:**

ELECTIVE NO.	ELECTIVES (COURSE CODE WITH NAME)	
Discipline Elective-I	MCS124	Data Ware Housing and Mining
	MCS125	Cloud Computing
	MCS134	Internet of Things
	MCS129	Algorithms Design and Techniques
	MCS141	Wireless Sensor Networks
	MCS131	Applied Data Science
	MCS132	Applied Cyber Security
	MCS133	Applied AI using Python
	MCS128	Machine Learning

NOTE:

1. Generic Elective can also be opted from Swayam Portal and students should produce Grade certificate on successful completion of the course but the content should not match with the courses offered under the curriculum.
2. General Proficiency shall be assessed based on the participation in NCC, NSS, Conferences (Research paper Publication (Journal/ Conference)), Organizing events, competitions (Inter University, State, National, International level) including Music, Debate, Sports, Hackathon and so on.



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Semester II

COURSE MODULE					TEACHING PERIODS				WEIGHTAGE : EVALUATION			
COURSE				Credits	L	T	P	Contact Hr.	CIE	MSE	ESE	Total
Code	Title	NEP Component	AICTE Component									
MCS241	Computer Vision and its Applications	DSC	PCC	3	3	-	-	3	25	25	50	100
MCS202	Distributed Computing	DSC	PCC	3	3	-	-	3	25	25	50	100
MCS203	Artificial Intelligence & Expert Systems	DSC	PCC	3	3	-	-	3	25	25	50	100
	Discipline Elective-II	DSE	PEC	3	3	-	-	3	25	25	50	100
	Generic Elective-I	UOE	OEC	3	3	-	-	3	25	25	50	100
MCS254	Computing Lab II	DSC	LC	2	-	-	4	4	25	25	50	100
MCS252	Distributed Computing & AI Lab	DSC	LC	2	-	-	4	4	25	25	50	100
MCS211	Seminar	PROJ	PROJ	1	-	-	-	1	-	-	100	100
GP201	General Proficiency	SEC	SEC	1	-	-	-	1	100	-	-	100
Total				21								900

**DISCIPLINE ELECTIVE COURSES:**

ELECTIVE NO.	ELECTIVES (COURSE CODE WITH NAME)	
Discipline Elective-II	MCS201	Advance Software Engineering
	MCS225	Developing Applications in the Cloud
	MCS226	Virtual and Augmented Reality
	MCS230	Blockchain Technology
	MCS228	Microservice Architecture
	MCS229	Information Retrieval and Natural Language Processing
	MCS241	Cyber Security and Laws
	MCS227	Information and communication theory

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Semester III												
COURSE MODULE					TEACHING PERIODS				WEIGHTAGE : EVALUATION			
COURSE				Credits	L	T	P	Contact Hr.	CIE	MSE	ESE	Total
Code	Title	NEP Component	AICTE Component									
MCS301	Soft Computing	DSC	PCC	3	3	-	-	3	25	25	50	100
	Discipline Elective-IV	DEC	PEC	3	3	-	-	3	25	25	50	100
MCS300	Dissertation-Phase I	PROJ	PROJ	10	-	-	20	20	25	25	50	100
	Generic Elective-II	UOE	OEC	3	3	-	-	3	25	25	50	100
MCS311	Seminar	PROJ	PROJ	1	-	-	-	-	-	-	100	100
GP301	General Proficiency	SEC	SEC	1	-	-	-	-	100	-	-	100
Total				21								600

**DISCIPLINE ELECTIVE COURSES:**

ELECTIVE NO.	ELECTIVES (COURSE CODE WITH NAME)	
Discipline Elective-IV	MCS321	Service oriented cloud architecture
	MCS324	Intrusion detection system
	MCS325	Robotic Process Automation
	MCS326	Secure Coding Practices
	MCS327	Full Stack Web and Multiplatform Mobile App Development

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Semester IV												
COURSE MODULE					TEACHING PERIODS				WEIGHTAGE : EVALUATION			
COURSE				Credits	L	T	P	Contact Hr.	CIE	MSE	ESE	Total
Code	Title	NEP Component	AICTE Component									
MCS400	Dissertation Phase-II	PROJ	PROJ	15	-	-	15	30	25	-	75	100
MCS411	Seminar	PROJ	PROJ	1	-	-	-	-	-	-	100	100
MCS462	Comprehensive Viva-Voce	PROJ	PROJ	2	-	-	-	-	-	-	100	100
GP401	General Proficiency	SEC	SEC	1	-	-	-	-	-	-	100	100
Total				19								400