माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
Deemed University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ Grade
Gola Ka Mandir, Gwalior (M.P.)– 474005, INDIA
Ph.:+91–751–2409300, E–mail: vicechancellor@mitsgwalior.in, Website: www.mitsgwalior.in

Department of Engineering Mathematics & Computing
Scheme of Examination
VIII Semester

For Admitted Batch 2022

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted									Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Online, Offline, Blended)	Mode of Exam.
				Theory Slot				Practical Slot			MOOCs			L	T	P			
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assignment	Exam							
				End Sem. Exam.	$Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab work & Sessional	Skill Based Mini Project									
1.	22508xx	DE	Departmental Elective* (DE-4)	-	-	-	-	-	-	-	25	75	100	-	-	-	3	online	MCQ
2.		OC	Open Category* (OC-3)	-	-	-	-	-	-	-	25	75	100	-	-	-	3	online	MCQ
3.	2250801	DLC	Internship/Project/Innovation & start-up***	-	-	-	-	250	150	-	-	-	400	-	-	18	9	offline	SO
4.	2250802	-	Professional # Development	-	-	-	-	50	-	-	-	-	50	-	-	4	2	Interactive	SO
	Total			-	-	-	-	300	150	-	50	150	650	-	-	22	17	-	-
Additional Course for Honors or minor Specialization				Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization															

$ proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.

MCQ: Multiple Choice Question   **AO:** Assignment + Oral   **PP:** Pen Paper   **SO:** Submission + Oral

*All of these courses will run through SWAYAM/NPTEL/ MOOC with credit transfer

#Evaluation will be based on participation/laurels brought by the students to the institution in national/state level technical and other events during the complete tenure of the UG programme (participation in professional chapter activities, club activities, cultural events, sports, personality development activities, collaborative events, MOOCs, technical events, institute/department committees, etc.)

***Innovation/ start-up: only for those students who have opted relevant NEC

Mode of Teaching					Mode of Examination					Total Credits
Theory			Lab	PD	Theory			Internship/ Project	PDC	
Offline	Online	Blended	Offline	Interactive	PP	AO	MCQ	SO	SO	
-	-	06	09	02	-	-	06	09	02	17
-	-	35.29%	52.95%	11.76%	-	-	35.29%	52.95%	11.76%	Credits%

		DE –IV (Through NPTEL) Tentative List					
S. No.	Subject Code	Subject name	Time Duration (Weeks)	Start date	End date	Faculty Coordinator	Mentor Name and Affiliation
1	2250861	Reinforcement Learning	12	19 Jan 2026	10 April 2026	Dr. Minakshi Dahiya	By Prof. Balaraman Ravindran IIT Madras
2	2250862	Edge Computing	8	19 Jan 2026	13 Mar 2026		By Prof. Rajiv Misra IIT Patna
3	2250863	Computer Aided Applied Single Objective Optimization	12	19 Jan 2026	10 April 2026		By Prof. Prakash Kotecha IIT Guwahati

		OC-3 (Through NPTEL) Tentative List					
S. No.	Subject Code	Subject name	Time Duration (Weeks)	Start Date	End date	Faculty Coordinator	Mentor Name and Affiliation
1	910xxx	Numerical Linear Algebra	12	19 Jan 2026	13 Feb 2026	Dr. Minakshi Dahiya	By Prof. P. N. Agrawal, and Prof. D. N. Pandey IIT Roorkee
2	910xxx	Algorithmic Graph Theory and Data Structures	12	19 Jan 2026	10 April 2026		By Prof. Sourav Mukhopadhyay IIT Kharagpur
3	910xxx	Algebraic Number Theory	12	19 Jan 2026	10 April 2026		By Prof. Mahesh Kakde IISc Bangalore

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Department of Engineering Mathematics & Computing
Scheme of Examination B. Tech. VI Semester   (Admitted Batch 2023)

S. No.	Subject Code	Category Code	Subject Name	End Term Evaluation	$Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project	Assignment	Exam	Total Marks	L	T	P	Total Credits	Mode of Teaching (Offline/ Online)	Mode of Exam.	Duration of Exam.
1.	3250601	DC	Computer Graphics	50	10	20	20	-	-	-			100	3	1	-	4	Offline	PP	2 Hrs
2.	3250602	DC	Compiler Design	50	10	20	20	-	-	-			100	3	1	-	4	Offline	PP	2 Hrs
3.	32506xx	DE	Departmental Elective (DE-I)								25	75	100	3	-	-	3	Online	MCQ	3 Hrs
4	3250604	MC	Artificial Intelligence & Machine Learning (AI & ML)	50	10	20	20	40	30	30			200	2	1	2	4	Offline	MCQ	1.5 Hrs
5.	910xxx	OC	Open Category (OC-1)	50	10	20	20	-	-	-			100	3	-	-	3	Blended	PP	2 Hrs
6.	3250605	DLC	Minor Project-II					40	60				100	-	-	4	2	Offline	SO	
7.	200xxx	CLC	Novel Engaging Course	-	-	-	-	50	-	-			50	-	-	2	1	Interactive	SO	
8.		NSS	*Natural Science & Skill	200	40	80	80	120	40	40			600	1	-	2	2**	-	-	
	Total			400	80	160	160	250	130	70	25	75	1350	15	3	10	23			
	Skill Enhancement Program/Research Internship/On Job Training for Four weeks duration: Evaluation in VII Semester																			
9.	1000007		Intellectual Property Right (IPR)	50	10	20	20	-					100		2		Grade	Online	MCQ	1.5 Hrs

* Natural Science & Skill: Engineering Physics/Engineering Chemistry/Environmental Science/Language

**(Natural Science & Skill treated as Mandatory Audit Course from I to IV semester and cumulative marks converted as a cluster of credits and awarded in the VI semester)

$proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.

$$MCQ: Multiple Choice Question $$AO: Assignment + Oral $$PP: Pen Paper $$SO: Submission + Oral

#Compulsory registration for one online course using SWAYAM/NPTEL/MOOC, evaluation through attendance, assignments and presentation

	Mode of Teaching					Mode of Examination					Total Credits
	Theory			Lab	NEC	Theory			Lab	NEC	
	Offline	Online	Blended	Offline	Interactive	PP	AO	MCQ	SO	SO	
	11	3	3	3	1	11	-	7	2	1	21
	52.38	14.29	14.29	14.29	4.75	52.4	-	33.33	9.5	4.75	Credits%

		DE –I (Through NPTEL) Tentative List					
S. No.	Subject Code	Subject name	Time Duration (Weeks)	Start date	End date	Faculty Coordinator	Mentor Name and Affiliation
1	3250661	Block Chain and its Application	12	19 Jan 2026	10 April 2026	Dr. Minakshi Dahiya	By Prof. Sandip Chakraborty, and Prof. Shamik Sural IIT Kharagpur
2	3250662	Cloud Computing	12	19 Jan 2026	13 Mar 2026		By Prof. Soumya Kanti Ghosh IIT Kharagpur
3	3250663	GPU Architectures and Programming	12	19 Jan 2026	10 April 2026		By Prof. Soumyajit Dey IIT Kharagpur

OC-1 (Offered in Traditional Mode) Tentative List			
S. No.	Subject Code	Subject name	Mentor Name
1	910xxx	Advanced Numerical Techniques	Dr. J K Muthele
2	910xxx	Transform Calculus	Dr. D K Jain