(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)
NAAC Accredited with A++ Grade

Flexible Scheme 2023-2024

B.Tech.

in

Mathematics and Computing



Department of Engineering Mathematics and Computing
Madhav Institute of Technology & Science
Gwalior-474005

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Mathematics and Computing Abbreviations used

L	Lecture
T	Tutorial
P	Practical
HSMC	Humanities and Social Sciences including Management Courses
BSC	Basic Science Courses
ESC	Engineering Science Courses
DC	Departmental Core
DE	Departmental Elective
ОС	Open Category
DLC	Departmental Laboratory Courses
MC	Mandatory Course
MOOC	Massive Open Online Courses

Definition of Credit:

1 Hr. Lecture (L) per week	1 credit
1 Hr. Tutorial (T) per week	1 credit
2 Hours Practical(Lab)/week	1 credit

^{**}Minor variation is allowed as per need of the respective disciplines. Please consult the AICTE model curriculum as a standard reference, if needed.

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Department of Engineering Mathematics & Computing Scheme of Examination

B. Tech. I Semester

(Admitted batch 2023)

	Maximum Marks Allotted Town													<u>, 7 1 (1)</u>	mitted b	inticu batch 2023)		
	<u> </u>	ſ '	1 '	1		Total	Con		¿ŧ	Total	Mode	Mode of						
	1	1	1		Theory Slot Practical Slot								lours p	er	Credits	of	Teaching	
	Subject	Categor	.1	1		ory Slot	'	1	Practical Slot		Marks	L	week	·'	Credits	Exam		
S.No	Code	y Code	Subject Name	End Sem.	SProficiency in subject /course	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional	Skill Based Mini Project		L	Т	P				
1.	3250121	DC	Introduction to Computing	50	10	20	20	-	-	-	100	3	-	-	3	MCQ	Blended (2/1)	
2.	3250122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	A+O	Blended (2/1)	
3.	3250123	DC	Statistical Methods	50	10	20	20				100	3	1	-	4	PP	Off line	
4.	3250124	DC	Element of Calculus	50	10	20	20	-	-	-	100	3	1	-	4	PP	Off line	
5.	3250125	DC	Digital Logic Deign	50	10	20	20	-	-	-	100	3	-	-	3	MCQ	On line	
6.	3250126	DLC	Computing Lab					60	20	20	100			2	1	SO	Off line	
		Tota	al	250	50	100	100	120	40	40	700	14	03	02	19	-		
7	3000004	Natural & Skills	1 Sciences Language ls	50	10	20	20	30	10	10	150	1	<u> </u>	2	Grade	Online	MCQ	

MCQ: Multiple Choice Question, AO: Assignment + Oral, OB: Open Book, PP: Pen Paper, SO: Submission and Oral

		Mode	of Teaching	Ţ,								
	T	heory		Lab	NEC		Theory Lab SIP/ SLP/ NEC					
Offline	Online	Bler	nded	Offline	Interactive	PP	A+O	MCO	60	so	Total Credits	
Offinie	Omne	Offline	offline Online		Interactive	rr	A+O	MCQ	so	80		
8	3	4	2	2	-	2	1	2	1	-	19	
42%	16%	21%	10.5%	10.5%	-	33.33%	16.66%	33.33%	16.66%	-	Credits %	

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Department of Engineering Mathematics & Computing Scheme of Examination

B. Tech. II Semester

(Admitted batch 2023)

	Subject	Category				Ma	aximum Mark	s Allott	ed			C	ontac	t				
S.			Subject Name	End	Theory Slot				Practical S	l Slot Total			Hours per week		Total	Mode	Mode of	Duration
No.	Code	Code		Sem.	*Proficiency in subject /course	Mid Sem Exam.	Quiz / Assignment	End Sem	Lab work & Sessional	Skill Based Mini Project	Marks	L	Т	P	Credi ts	of Exam	Teaching	of Exam.
1	3250221	DC	Computer Architecture & Organization	50	10	20	20	-	-	-	100	2	1	-	3	PP	Offline	2
2	3250222	DC	Differential Equations	50	10	20	20	_	-	-	100	3	1	_	4	PP	Offline	2
3	3250223	DC	Object Oriented Methodology and Programming with C++	50	10	20	20	40	30	30	200	2	1	2	4	A+O	Offline	2
4	3250204	BSC	Linear Algebra	50	10	20	20	-	-	-	100	3	1	-	4	PP	Offline	2
5	3250225	DC	Simulation Modeling and Analysis	50	10	20	20				100	2	1	_	3	PP	Offline	2
6	3250226	DC	Computing Lab (R programming)					40	30	30	100			2	1	so	Offline	
Total				250	50	100	100	80	60	60	700	12	5	2	19	-		
7	3000003	Natural Science & Skill	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	Grade	Blended	MCQ	1.5

MCQ: Multiple Choice Question, AO: Assignment + Oral, OB: Open Book, P: Pen Paper, SO: Sessional and Oral

		Mode	of Teaching									
	T	heory		Lab	NEC		Theory Lab SIP/ SLP/ NEC					
Offline	Online	Bler	nded	Offline	Interactive	PP	A+O	MCO	so	so	Total Credits	
Offine	Omne	Offline Onli	Online	Offilile		rr	A+O	MCQ	30	80		
17	-	-	-	2	-	4	1	-	1	-	19	
89.5%	-	-	-	10.5%	-	66.67%	16.66%	-	16.66%	-	Credits %	

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