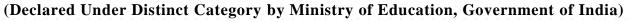
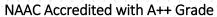
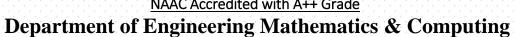


(Deemed University)









Semester-Wise General Scheme Structure & Important Guidelines for Flexible Curriculum

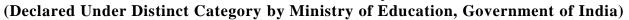
(Batch admitted in Academic Session 2024-25 onwards)

Abbreviations Used

L	Lecture
	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
SPC	Specialization Courses
OC	Open Category
DLC	Departmental Laboratory Courses
MOOC	Massive Open Online Course
MWS	Mandatory Workshop
SP	Semester Proficiency
SIP	Skill Internship Program
SLP	Self-learning Presentation
PDC	Professional Development Component
PBL	Project Based Learning
PC	Professional Certification
MAC	Mandatory Audit Course
NEC	Novel Engaging Course



(Deemed University)





NAAC Accredited with A++ Grade

Department of Engineering Mathematics & Computing Scheme of Evaluation

B. Tech. I Semester (MAC)

(for batch admitted in academic session 2024-25

					Ma	ximum Ma	rks Allotte	d			Con	tact H	ours				
		- : - : - : - : -			Theory	Block		Practica	l Block		p	er wee	k		Mode		Duration
S. No.	Course Code	Category Code	Course Name	Cont	inuous Evalu	ation	Majan	Continuous Evaluation	Major	Total Marks				Total Credits	of Learning	of Major Evaluat	of Major Evaluatio
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	- Major Evaluation	Lab Work & Sessional	Evaluation		L	T	P		Zear ming	ion	n
1.	25241101	DC	Introduction to Computing	20	20	30	30	-	-	100	3			3	Face to Face	MCQ	2 Hrs
2.	25241102	ESC	Computer Programming	20	20	30	30	-	-	100	2			2	Face to Face	MCQ	2 Hrs
3.	25241103	DC	Advanced Calculus	20	20	30	30	-	-	100	2	1		3	Face to Face	PP	2 Hrs
4.	25241104	DC	Digital Logic Design	20	20	30	30	-	-	100	2	1		3	Face to Face	MCQ	2 Hrs
5.	25241105	BSC	Differential Equations	20	20	30	30	-	-	100	3			3	Face to Face	PP	2 Hrs
6.	25241106	DLC	Computer Programming Lab	-	-	-	-	70	30	100	· . - . ·		2	1	Experimental	AO	· . · . <u>-</u> . · . ·
7.	25241107	DLC	Computing Lab for Data Analysis	-	-	-	-	70	30	100			2	1	Experimental	AO	· · · · · · · · ·
8.	25241108	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	50	: - : - :		2	1	Face to Face	SO	: .
9.	25241109	PBL	Micro Project-I#	-	-	-	-	70	30	100	-		2	1	Experiential	SO	· . · . · . · . · ·
10.	25241110	HSMC	Language Lab	-	-	-	-	70	30	100	. : - : .		2	1	Blended	AO	- : : ; : : :
11.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	-	50	50	: - - - :	1	- : - : -	1	Interactive	SO	
			Total	100	100	150	150	330	170	1000	12	03	10	20	-	-	-
12.	25241111	MAC	Universal Human Values & Professional Ethics (UHVPE)	20	20	30	30	-	-	100	2			GRADE	Blended	MCQ	1.5 Hrs
13.	25241112	MWS	Mandatory Workshop on Indian Constitution and T	raditional Kn	owledge at Dep	oartment Level	(Duration: 7	Two Days)			- [-] -			GRADE	Interactive	MCQ	

Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.

Skill Internship Program (Soft Skill): Minimum 45 hours duration: To be credited in II Semester.

Semester Proficiency- includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

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

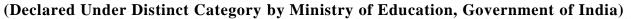
Micro Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
1	- 1	1 1	3	0	0	0	2	1	1.	0	0	0	1	- 1 - 1 - 1 - 1	1.

Ī			Mode of Learn	ning				M	ode of Examinati	on		Total
٠.	Theo	ry	NEC		Lab			The	eory		Lab	Total
٠	Face to Face	Online	Interactive	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	Credits
1	15			1	1	2	6	3	8	0	3	20
ij	75%	0	5%	5%	5%	10%	30%	15%	40%	0	15%	Credits %



(Deemed University)





NAAC Accredited with A++ Grade

Department of Engineering Mathematics & Computing Scheme of Evaluation

B. Tech. II Semester (MAC)

(for batch admitted in academic session 2024-25)

					M	aximum M	Iarks Allott	ed				ntact H					
		Catego			Theory	y Block		Practica	l Block		· [· []	er we	ek		Mode	Mode of	Duration of
S. No.	Course Code	ry Code	Course Name	Con	tinuous Evalua	ation	36.	Continuous Evaluation		Total Marks				Total Credits	of	Major	Major Evaluatio
		Code		Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Major Evaluation	Lab Work & Sessional	Major Evaluation		L	. T	P		Learning	ion	n
1.	25241201	DC	Object Oriented Programming & Methodology	20	20	30	30	-	-	100	3			3	Face to Face	MCQ	2 Hrs
2.	25241202	DC	Data Structures	20	20	30	30	-	-	100	2	. 1		3	Face to Face	MCQ	2 Hrs
3.	25241203	DC	Numerical Techniques	20	20	30	30	-	-	100	2	-1 -		3	Face to Face	PP	2 Hrs
4.	25241204	DC	Computer Organization& Architecture	20	20	30	30	-	-	100	2	1		3	Face to Face	MCQ	2 Hrs
5.	25241205	DC	Linear Algebra	20	20	30	30	-	-	100	2	· :		2	Face to Face	PP	2 Hrs
6.	25241206	DLC	Data Structures Lab	-	-	-	-	70	30	100			2	1	Experimental	AO	
7.	25241207	DLC	Object Oriented Programming & Methodology Lab	-	-	-	-	70	30	100	-		2	1	Experimental	AO	: . : . . . : . :
8.	25241208	DLC	Numerical Computation using MATLAB	-	-	-	-	70	30	100	- [-] -		2	1	Experimental	AO	-
9.	25241209	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	50	. · . · .		2	1	Face to Face	SO	.
10.	25241210	PBL	Micro Project-II#	-	-	-	-	70	30	100	· . <u>-</u> . ·		2	1	Experiential	SO	· . · . <u>-</u> . · . ·
11.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	-	50	50		1		1	Interactive	SO	- : - <u>-</u> - : - : -
12.	SIP1XXXX	SIP	Skill Internship Program (Soft Skill)	-	-	-	-	42	18	60	.	- 1-1-	1	2**	Experiential	SO	.
		•	Total	100	100	150	150	372	188	1060	11	04	10	22	-	-	-
13.	25241211	MAC	Sustainability & Environmental Science	20	20	30	30	-	-	100	2			GRADE	Blended	MCQ	1.5 Hrs
14.	25241212	MWS	Mandatory Workshop on Indian Knowledge System	n at Departm	ent Level (Du	ation: Two I	Days)							GRADE	Interactive	MCQ	: - : - : - : - :
			Summer Semester of s	ix-eight wee	k duration w	ill be condu	icted for mal	ceup of I & I	l semester e	xaminati	on.					ı	

Semester Proficiency – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

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

*Micro Project-II will be presented and evaluated through an interdisciplinary project evaluation committee.

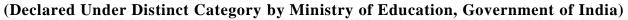
- 1	HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
	0	0	0	5	0	0	0	3	1	1.	0	0	0	- 1	1	1

٠			Mode of Lear	ning				M	ode of Examinati	on		Total
	Theor	ry	NEC		Lab			The	eory		Lab	Total Credits
	Face to Face	Online	Interactive	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	Credits
	15		1	0 0	3,	3	5	3	9	0		22
	68.18%	0	4.54%	0	13.64%	13.64%	22.72%	13.64%	40.91 %	0	22.72 %	Credits %

^{**} These credits will be transferred from Skill Internship Program (Soft Skill).



(Deemed University)





NAAC Accredited with A++ Grade

Department of Engineering Mathematics & Computing Scheme of Evaluation

B. Tech. III Semester (MAC)

(for batch admitted in academic session 2024-25

				N	Iaximum M	larks Allot	ted			Con	tact H	ours				
				Theory	Block		Practica	al Block		p.	er wee	k		Mode		Duration of
Course Code	Category Code	Course Name	Con	tinuous Eval	uation	Major	Continuous Evaluation	Major	Total Marks				Total Credits	of Learning	Major	Major Evaluatio
			Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	Evaluation Evaluation		. L	T	P			ion	n
25241301	BSC	Simulation Modeling and Analysis	20	20	30	30	-	-	100	3		- 2	3		,	2 Hrs
25241302	DC	Operating Systems	20	20	30	30	-	-	100	2.	1	: - ·	3			
25241303	DC	Discrete Mathematical Structures	20	20	30	30	-	-	100	2	1	: - : -:	3	Face to Face	PP	2 Hrs
25241304	DC	Design & Analysis of Algorithms	20	20	30	30	-	-	100	2	1	- [-]	3	Face to Face	MCQ	2 Hrs
25241305	DC	Stochastic Process & Financing Mathematics	20	20	30	30	-	-	100	2	1		3	Face to Face	PP	2 Hrs
25241306	DLC	Simulation Lab	-	-	-	-	70	30	100	. 3. 1	1-3-1	2	1	Experimental	AO	
25241307	DLC	Design & Analysis of Algorithms Lab	-	-	-	-	70	30	100	1-1-1		2	1	Experimental	AO	- : - : - : - :
25241308	DLC	Problem Solving through Python Programming	-	-	-	-	70	30	100	- 2- 1-		2	1	Experimental	AO	
25241309	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	50	. · . · ·		2	1	Face to Face	SO	
25241310	PBL	Macro Project-I#	-	-	-	-	70	30	100	: : : : :		2	1	Experiential	SO	- : - - - : -]
25241311	SLP	Self-learning/Presentation ^{SSS} (SWAYAM/NPTEL/MOOC)	-	-	ı	-	40	-	40	: : :		2	1	Mentoring	SO	
NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	-	50	50	:	1		1	Interactive	SO	
		Total	100	100	150	150	370	170	1040	11	05	12	22	•	•	-
25241312	MAC	Cyber Security	20	20	30	30	-	-	100	2		- [-]	GRADE	Blended	MCQ	1.5 Hrs
25241313	MWS	Mandatory Workshop on Internet of Things(IoT) at	Department	Level (Durati	on: Two Days)								GRADE	Interactive	MCQ	
	25241301 25241302 25241303 25241304 25241305 25241306 25241307 25241309 25241310 25241311 NECXXXXX	Code Code 25241301 BSC 25241302 DC 25241303 DC 25241304 DC 25241306 DLC 25241307 DLC 25241308 DLC 25241309 SP 25241310 PBL 25241311 SLP NECXXXXX NEC	Code Code Code Code Course Name 25241301 BSC Simulation Modeling and Analysis 25241302 DC Operating Systems 25241303 DC Discrete Mathematical Structures 25241304 DC Design & Analysis of Algorithms 25241305 DC Stochastic Process & Financing Mathematics 25241306 DLC Simulation Lab 25241307 DLC Design & Analysis of Algorithms Lab 25241308 DLC Problem Solving through Python Programming 25241309 SP Semester Proficiency 25241310 PBL Macro Project-I# 25241311 SLP Self-learning/Presentation Self-learning/Presentation Self-learning/Presentation Total 25241312 MAC Cyber Security	Code	Course Code	Course Code	Course Code	Course Code Category Code Course Name Course Name Course Name Minor Evaluation Pollucation Pollucation Pollucation Pollucation Pollucation Pollucation In In Name Adjoint Pollucation Pollucation Pollucation Pollucation In In Name Minor Evaluation Pollucation Pollucation Pollucation Pollucation In In Name Adjoint Pollucation Pollucation Pollucation Pollucation In In Name Minor Evaluation Pollucation Pollucation Pollucation In In In Name Minor Evaluation Pollucation In In In Name Adjoint Pollucation In	Course Code Category Code Course Name Assignment Page Valuation Paulusion Major Valuation Major Valuation Paulusion Major Valuation Paulusion Major Valuation Major Valuation Paulusion Major Valuation	Course Code	Course Code	Course Code	Course Code	Course Code Category Code Course Name Course Name	Course Code Category Code Category Code Course Name Image: Code Code Code Code Code Code Code Code	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

Skill Internship Program (Institute Level) (Qualifier): Minimum 30 hours duration: To be credited in IV Semester

Semester Proficiency—includes the weightage towards ability/skill/competency/knowledge level/expertise attained etc. in the semester courses MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral OB: Open Book

#Macro Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

⁵⁵⁵ Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance and presentation.

- 1	HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
	0	1	0	4	0	0	0	3	1	1.	1.	1	0	1	1	1

		Mode of Lear	ning				M	ode of Examinati	on		Tetal
Theor	y	NEC		Lab			The	eory		Lab	Total
Face to Face	Online	Interactive	Mentoring	Experiential	Experimental	PP	AO	MCQ	OB	SO	Credits
16	0	1	1	1	3	6	3	9	0	4	22
72.73%	0	4.54%	4.54 %	4.54 %	13.64%	27.27 %	13.64%	40.91 %	0	18.18 %	Credits %



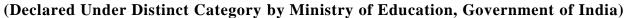
16

66.66 %

0

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(Deemed University)





NAAC Accredited with A++ Grade

Department of Engineering Mathematics & Computing Scheme of Evaluation

B. Tech. IV Semester (MAC)

(for batch admitted in academic session 2024-25

6

25 %

24

Credits %

			· . · . · . · . · . · . · . · . · . · .	laximum M	arks Allot	ted			Con	tact H	ours				
			Theory	Block		Practical	Block		· . · . p	er wee	k		Mode	Mode	Duration of
Category Code		Cont	inuous Evalu	ıation	Major	Continuous Evaluation	Majan	Total Marks				Total Credits	of	Major	0.
		Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	- Major Evaluation		L	T	P			ion	n
DC	DC Data Science	20	20	30	30	-	-	100	2	1		3	Face to Face	MCQ	2 Hrs
DC	DC Database Management System	20	20	30	30	-	-	100	2	1		3	Face to Face	MCQ	2 Hrs
DC	DC Software Engineering	20	20	30	30	-	-	100	2	1		3	Face to Face	MCQ	2 Hrs
DC .	DC Transforms and Vector Calculus	20	20	30	30	-	-	100	2	1.		3	Face to Face	PP	2 Hrs
DC	DC Number theory and Cryptography	20	20	30	30	-	-	100	. 3.		. ' '	3	Face to Face	PP	2 Hrs
DLC	DLC Data Science Lab	-	-	-	-	70	30	100	. - . * .	2.7	2	1	Experimental	AO	
DLC	DLC Database Management System Lab	-	-	-	-	70	30	100		. ' ' .	2	1	Experimental	AO	· . · . · . · . ·
DLC	DLC Competitive Programming	-	-	-	-	70	30	100	. - . * .	12.0	2	1	Experimental	AO	.
SP	SP Semester Proficiency ^{\$}	_	-	-	-	50	-	50	· . - . ·		2	1	Face to Face	SO	· . · . <u>-</u> . · . ·
PBL	PBL Macro Project-II#	-	-	-	-	70	30	100	. · . · .	- 1-1-	2	1	Experiential	SO	.
PC	PC Professional Certification	_	-	-	-	50	-	50	- <u>-</u> -		2	1	Blended	SO	· . · . · <u>-</u> . · · . ·
NEC	NEC Novel Engaging Course (Activity Based Learning)	-	-	-	-	-	50	50	. · . · .	1	4	1	Interactive	SO	
SIP	SIP Skill Internship Program (Evaluation)	-	-	-	-	42	18	60				2**	Experiential	SO	· . · . <u>+</u> . · . ·
	Total	100	100	150	150	422	188	1110	11	05	12	24	-	-	-
MAC	MAC Project Management, Economics & Financing	20	20	30	30	-	-	100	2			GRADE	Blended	MCQ	1.5 Hrs
MWS	MWS Mandatory Workshop on Computer Vision at Depar	rtment Level	(Duration: Tv	vo Days)					- : - : -		- : - : :	GRADE	Interactive	MCQ	- : : - : : :
MWS	MWS Mandatory Workshop on Life Skills at Department	Level (Durat	ion: Two Days	s)						- : - : -		GRADE	Interactive	MCQ	.
ľ	ľ	MAC Project Management, Economics & Financing MWS Mandatory Workshop on Computer Vision at Department MWS Mandatory Workshop on Life Skills at Department	MAC Project Management, Economics & Financing 20 MWS Mandatory Workshop on Computer Vision at Department Level MWS Mandatory Workshop on Life Skills at Department Level (Durat	MAC Project Management, Economics & Financing 20 20 MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) MWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days)	MAC Project Management, Economics & Financing 20 20 30 MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) MWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days)	MAC Project Management, Economics & Financing 20 20 30 30 MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) MWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days)	MAC Project Management, Economics & Financing 20 20 30 30 - MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) MWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days)	MAC Project Management, Economics & Financing 20 20 30 30	MAC Project Management, Economics & Financing 20 20 30 30 - 100 MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) MWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days)	MAC Project Management, Economics & Financing 20 20 30 30 - 100 2 MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days)	MAC Project Management, Economics & Financing 20 20 30 30 - 100 2 - MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) MWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days)	MAC Project Management, Economics & Financing 20 20 30 30 - 100 2	MAC Project Management, Economics & Financing 20 20 30 30 100 2 GRADE MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) GRADE MWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days) GRADE	MAC Project Management, Economics & Financing 20 20 30 30 - 100 2 - GRADE Blended MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) WWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days) GRADE Interactive GRADE Interactive	MAC Project Management, Economics & Financing 20 20 30 30 - 100 2 - GRADE Blended MCQ MWS Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) WWS Mandatory Workshop on Life Skills at Department Level (Duration: Two Days) GRADE Interactive MCQ GRADE Interactive MCQ

Summer Semester of six-eight week duration will be conducted for makeup of previous semester examination.

Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree

12.5 %

	1		DSC	ESC	DC	DE	SFC U	DLC	NEC)I	311	SLI	rbc	FDL	MAC	IVI VV S	4
			0		5	0	0 0		1	1	1	0		1	1	2	1
١					Mode of Le	arning					Me	ode of Examin	ation			Tedal	
ŀ		Theor	ry		NEC		Lab				The	ory			Lab	Total Credit	
	Face to F	ice	Online	e 1	Interactive	Blended	Experiential	Experimental	PP		AO	MCO	0	В	SO	Credit	5

12.5 %

6

25 %

3

12.5 %

37.5 %

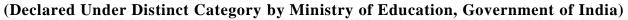
Semester Proficiency—includes the weightage towards ability/skill/competency/knowledge level/expertise attained etc. in the semester courses

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

^{*} Macro Project-II will be presented and evaluated through an interdisciplinary project evaluation committee. ** These credits will be transferred from Skill Internship Programme. DC DC DC DC DE CDC OC DIC NEC CD CID CID DDC DDI



(Deemed University)





NAAC Accredited with A++ Grade

Department of Engineering Mathematics & Computing Scheme of Evaluation

B. Tech. V Semester (MAC)

(for batch admitted in academic session 2024-25

					M	laximum N	Aarks Allot	ted				Con	tact H	ours				
				Theory	Block		Practical	Block	MOC	OCs		p	er wee	k		Mode		Duration of
Course Code	Category Code	Course Name	Conti	nuous Eval	uation	Martin					Total Marks				Total Credits	of	Major	
			Minor Evaluation I	Minor Evaluation II	Q ******	Evaluation	T al. XX/aula		Assignment	Exam		L .	T .	P			ion	n
25241501	DC	Computer Networks and Protocols	20	20	30	30	-	-	-	-	100	2	1	: - :	3	Face to Face	MCQ	2 Hrs
25241502	DC	Theory of Computation	20	20	30	30	-	-	-	-	100	2	1	: - <u>-</u> -:	3	Face to Face	PP	2 Hrs
25241503	DC	Artificial Intelligence & Machine Learning	20	20	30	30	-	-	-	-	100	2	1	: = :	3	Face to Face	MCQ	2 Hrs
25241504	DE	Departmental Elective* (DE-1)	_	-	-	-	-	-	25	75	100	3	- 1-1	: - : -:	3	Online	MCQ	3 Hrs
25241505	SPC	Specialization Course (SPC-1)	20	20	30	30	-	-	-	-	100	2	. 1	- : - : :	3	Face to Face	PP	2 Hrs
25241506	DLC	Lab SPC-I	-	-	-	-	70	30	-	-	100	' . ' . . '	1.2	2	1	Experimental	AO	<u>-</u>
25241507	DLC	Artificial Intelligence & Machine Learning Lab	-	-	-	-	70	30	-	-	100			2	1	Experimental	AO	: : : : <u>:</u> : : : :
25241508	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	-	-	50	1	1 1	2	1	Face to Face	SO	
25241509	PBL	Cornerstone Project	-	-	-	-	70	30	-	-	100	- 1 - 1 -		4	2	Experiential	SO	- : - : - : - : -
	Т	`otal	80	80	120	120	260	90	25	75	850	11	04	10	20	-	-	-
25241510	MAC	Supply Chain Management	20	20	30	30	-	-			100	2			GRADE	Blended	MCQ	1.5 Hrs
25241511	MWS	Mandatory Workshop on Blocke	hainat Depar	rtment Level	(Duration:	Two Days)									GRADE	Interactive	MCQ	
	25241501 25241502 25241503 25241504 25241505 25241506 25241507 25241508 25241509	Code Code 25241501 DC 25241502 DC 25241503 DC 25241504 DE 25241505 SPC 25241506 DLC 25241507 DLC 25241508 SP 25241509 PBL T 25241510 MAC	Code Code Code Code Code Code Code Computer Networks and Protocols Computation Artificial Intelligence & Machine Learning Computation Learning Computation Computation Computation Computation Computation Artificial Intelligence & Machine Learning Lab Computation Computation Computation Computation Computation Computation Artificial Intelligence & Machine Learning Lab Computation Course (SPC-1) Course (SPC-1) Computation Course (SPC-1) Course (SPC-1) Computation Course (SPC-1) Course (SPC-1) Course (SPC-1) Computation Course (SPC-1) Course	Code	Course Code	Course Code	Course Code	Course Name Category Code Course Name Continuous Evaluation Minor Evaluation Minor Evaluation Minor Evaluation Minor Evaluation Major Evaluation Lab Work Sessional	Course Code Code Code Code Code Code Code Cod	Course Code	Course Name Course Name	Course C	Course Code Category Code Course Name Continuous Evaluation Major Evaluation	Course Code Category Code Course Name Course Name Course Name Continuous Evaluation Minor Minor Evaluation Minor Evaluation Minor Minor Evaluation Minor Minor Evaluation Minor Minor Minor Evaluation Minor Minor Evaluation Minor Evaluation Minor Minor Minor Evaluation Minor Minor Evaluation Minor Minor Minor Minor Minor Evaluation Minor Minor	Course Code Code Course Name Course	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Course Course Course Rame Image: Course Course Rame Course Course Course Rame Image: Course Course Rame Course Course Course Rame Practical Book Course Rame Practical Book Course Rame Practical Book Course Rame Major Evaluation Labyman Continuous Evaluation Labyman Assignment Very Rame Assignment Rame Assignment Rame Labyman Laby	Course Code Category Code Category Code Course Name Image: Code Code Code Code Code Code Code Code

Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree

Semester Proficiency—includes the weightage towards ability/skill/competency/knowledge level/expertise attained etc. in the semester courses

MCQ: Multiple Choice Question AO: Assignment + Oral

PP: Pen Paper **SO:** Submission + Oral * Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

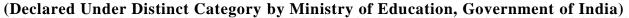
OB: Open Book

	HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
- 1		0		3	1	1	0 - 1	2	0	1	0	0	0 - 0	1	1	1

		Mode of Learning				M	ode of Examinati	on		
The	ory		Lab			The	ory		Lab	Total Credits
Face to Face	Online	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	
13	3		2	2	6	2,		0		20
65 %	15 %	0	10 %	10 %	30 %	10 %	45 %	0	15 %	Credits %



(Deemed University)





NAAC Accredited with A++ Grade

Department of Engineering Mathematics & Computing Scheme of Evaluation

B. Tech. VI Semester (MAC)

(for batch admitted in academic session 2024-25

						Ma	aximum M	arks Allott	ed				Con	ıtact I	Iours				
					Theory	Block		Practical	Block	MO	OCs		· . · .]1	oer we	ek			Mode	Duration
S. No.	Course Code	Category Code	Course Name	Cont	inuous Evalu	ation	- Major	Continuous Evaluation				Total Marks				Total Credits	Mode of Learning	of Major	of Major Evaluatio
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	Major Evaluation	Assignment	Exam		L	T .	P		Learning	ion	n
1.	25241601	DC	Compiler Design	20	20	30	30	-	-	-	-	100	2	. 1		3	Face to Face	MCQ	2 Hrs
2.	25241602	DC	Cloud Computing and Virtualization	20	20	30	30	-	-	-	-	100	2	1	: : :	3	Face to Face	MCQ	2 Hrs
3.	25241603	DE	Departmental Elective* (DE-2)	-	-	-	-	-	-	25	75	100	3		· ·	3	Online	MCQ	3 Hrs
4.	25241604	OC	Open Category Course (OC-1)	20	20	30	30	-	-	-	-	100	2	1		3	Face to Face	PP	2 Hrs
5.	25241605	SPC	Specialization Course (SPC-2)	20	20	30	30	-	-	-	-	100	3			3	Face to Face	PP	2 Hrs
6.	25241606	DLC	Cloud Computing and Virtualization Lab	-	-	-	-	70	30	-	-	100	-		2	1	Experimental	AO	· · · · · · · · ·
7.	25241607	DLC	Lab SPC-2	-	-	-	-	70	30	-	-	100			2	1	Experimental	AO	
8.	25241608	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	-	-	50	:		2	1	Face to Face	SO	· . · . <u>-</u> . · · ·
9.	25241609	PBL	Capstone Project	-	-	-	-	70	30	-	-	100			4	2	Experiential	SO	.
		1	`otal	80	80	120	120	260	90	25	75	850	12	03	10	20	-	-	-
10.	25241610	MAC	Disaster Management	20	20	30	30	-	-	-	-	100	2	7		GRADE	Blended	MCQ	1.5 Hrs
11.	25241611	MWS	Mandatory Workshop on Intelle	ctual Propert	y Rights at De	partment Le	vel (Duration	n: Two Days)								GRADE	Interactive	MCQ	

Skill Enhancement Program/Research Internship/On Job Training for Four weeks duration (Optional)

Summer Semester of six-eight week duration will be conducted for makeup of Previous semester examination.

Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree

Semester Proficiency—includes the weightage towards ability/skill/competency/knowledge level/expertise attained etc. in the semester courses

MCO: Multiple Choice Question AO: Assignment + Oral

PP: Pen Paper **SO:** Submission + Oral

OB: Open Book

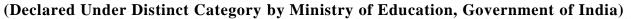
* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

- [HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
	0	0		2	1	1	1	2		1	0	0	0,	1	1	1

		Mode of Learning				M	ode of Examinati	ion		
The	eory		Lab			The	eory		Lab	Total Credits
Face to Face	Online	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	
13	3	0	2	2	6	2	9	0	3	20
65 %	15 %	0	10 %	10 %	30 %	10 %	45 %	0	15 %	Credits %



(Deemed University)





NAAC Accredited with A++ Grade

Department of Engineering Mathematics & Computing Scheme of Evaluation

B. Tech. VII Semester (MAC)

(for batch admitted in academic session 2024-25

						Ma	ximum Ma	rks Allotted					Con	tact H	ours				
					Theory	Block		Practical	Block	MOC	OCs		p	er wee	k			Mode	Duration
S. No.	Course Code	Category Code	Course Name	Cont	inuous Evalu	ation	Major	Continuous Evaluation	Major			Total Marks				Total Credits	Mode of Learning	of Major Evaluat	of Major Evaluatio
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	Evaluation	Assignment	Exam		.L	T .	P			ion	n
1.	25241701	DE	Departmental Elective (DE-3)	20	20	30	30	-	-	-	-	100	3			3	Face to Face	PP	2 Hrs
2.	25241702	DE	Departmental Elective* (DE-4)	-	-	-	-	-	-	25	75	100	3	-] -] -		3	Online	MCQ	3 Hrs
3.	25241703	OC	Open Category Course (OC-2)	20	20	30	30	-	-	-	-	100	2	1		3	Face to Face	PP	2 Hrs
4.	25241704	SPC	Specialization Course (SPC-3)	20	20	30	30	-	-	-	-	100	2	1		3	Face to Face	MCQ	2Hrs
5.	25241705	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	-	-	50] - [-]		2	1	Face to Face	SO	.
6.	25241706	DLC	Creative Problem Solving	-	-	-	-	70	30	-	-	100	: i - i :	. ; - ; .	2	1	Experiential	SO	: : : : : : : :
		,	Total	60	60	90	90	120	30	25	75	550	10	02	04	14	-	-	-
7.	25241707	MWS	Mandatory Workshop on Advance	ed Intellectua	l Property Rig	ghts at Depar	tment Level (I	Ouration: Two	Days)					- : - : -		GRADE	Interactive	MCQ	<u>.</u>

Semester Proficiency—includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

MCQ: Multiple Choice Question AO: Assignment + Oral

PP: Pen Paper **SO:** Submission + Oral

OB: Open Book

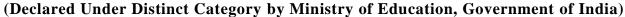
*Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

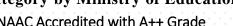
 HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
 0	0	0	0	2	1	1	1	0	. 1	0	0	0	0	0	1

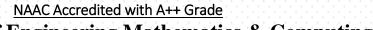
- 1		N	Iode of Learning				M	ode of Examination	on		
	The	eory		Lab			The	ory		Lab	Total Credits
	Face to Face	Online	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	
- "	10	3			0	6	0,	6		2	14
	71.43 %	21.43 %		7.14 %		42.86 %	42.86 %			14.28 %	Credits %

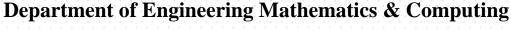


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Scheme of Evaluation

B. Tech. VIII Semester (MAC)

(for batch admitted in academic session 2024-25

							Max	imum Ma	rks Allotte	ed				Con	tact H	lours				D
	-] -]					Theory	Block		Practica	l Block	MOO	Cs		p	er we	ek		Mode	of	Duration of
S. I	No.	Course Code	Category Code	Course Name	Conti	nuous Eval	uation						Total Marks				Total Credits	of	Major	Major
					Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Major Evaluation	Continuous Evaluation		Assignment	Exam		L	Т	P	0-0	Learning	Evaluat ion	Evaluatio n
1	•	25241801	DE	Departmental Elective* (DE-5)	-	-	-	-	-	-	25	75	100	3	1.		3	Online	MCQ	3 Hrs
2	2.	25241802	ОС	Open Category Course* (OC-3)	-	-	-	-	-	-	25	75	100	3			3	Online	MCQ	3 Hrs
3		25241803	PBL	Industry Internship/Research Internship/ Innovation & Start-up	-	1	-	-	280	120	-	-	400	:		20	10	Experiential	SO	
4		25241804	PDC	Professional Development##	-	-	-	-	-	50	-	-	50	: - : - :		4	2	Interactive	SO	-
				Total	-	-	-	-	280	170	50	150	650	06	-	24	18	-	-	-

Summer Semester of six-eight week duration will be conducted to complete any backlog courses.

Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree

MCQ: Multiple Choice Question AO: Assignment + Oral

PP: Pen Paper **SO:** Submission + Oral **OB:** Open Book

^{##} 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.)

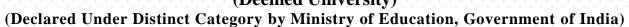
	HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
- [0	0	0	0	1	0	1	0	0	0	0	0	1	1	0	0

1		Mod	de of Learning				M	ode of Examinati	on		
	7	Theory		Lab			The	eory		Lab	Total Credits
	Face to Face	Online	Interactive	Experiential	Experimental	PP	AO	MCQ	OB	SO	
- "		6	2	10	0	0	0	6	0	12	18
	0	33.33 %	11.11	55.55 %	0	0	0	33.33 %	0	66.67 %	Credits %

^{*}Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform



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NAAC Accredited with A++ Grade

Department of Engineering Mathematics & Computing

Specialization in Data Science										
Description Specialization within Data science allows professionals to focus on applying tech complex problems within particular industries or technical areas.Core Specializ Science lies in AI & ML, Bigdata and Distributed System and healthcare data science										
Courses and Credits required		3 courses and 9 credits								
Course Category		Course ID	Course Title	Contact Hours per week						
				[L	T	P				
SPC-1 (Core)			Descriptive Statistics with R programming	2	-	2				
SPC-2 (Core)			Data Mining & Warehouse	2	1::::::::::::::::::::::::::::::::::::::	: - : : : : : : : :				
SPC-3	Elective-1		Data Analytics	2	1.1	: - - : - : - : - : - : - : - : - : - : -				
	Elective-2		Distributed System and Machine Learning	2	1	<u> </u>				

		Special	lization in <mark>Optimization</mark>						
Description		Optimization is a branch of mathematics and computer science. It is powerful toolkit							
		to tackle complex decision-making problems in various industries, from finance and							
		healthcare to engineering and machine learning.							
Courses and Credits required		3 courses and 9 credits							
Course Category		Course ID	Course Title	Contact	Contact Hours per week				
				L	T	P			
SPC-1 (Core)			Optimization Techniques	2	1				
SPC-2 (Core)			Soft Computing	2	1.	· · · · · · · · · · · · · · · · · · ·			
SPC-3	Elective-1		Nonlinear optimization Techniques	2	1				
	Elective-2		System Reliability	2	1				