(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Civil Engineering)

w.e.f. July 2023

			, 	· · _ ·					w.	<u>e.i. July</u>	2023		
					Maxim	ım Marks A	Allotted	_		Contac	t Hours Po	er Week	
	Subject	Category			Theory	7	Pra	ctical][1
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	CE41	PCC	Concrete Technology	70	20	10	-	-	100	3	1		4
2	CE42	PCC	Transportation Engineering	70	20	10	30	20	150	3	-	2	4
3	CE43	PCC	Geotechnical Engineering-I	70	20	10	30	20	150	3	-	2	4
4	CE44	PCC-	Fluid Mechanics	70	20	10	30	20	150	3		2	4
5	CE45	PCC	Advance Surveying	70	20	10	-	-	100	3	1	-	4
6	CE46	ESC	Software Lab - II	-	_	-	30	20	50	-		4	2
<u>.</u>			To	otal 350	100	50	120	80	700	15	2	10	22
7	CE47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	_	-	-	<u>-</u>	-		8
8	CE48	МС	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifie	r		<u>. </u>	·	<u>. </u>			<u>L.</u>	<u> </u>
Additic	onal Course t	for Honours	or Minor Specialization	Permitte the awar	d to opt fo d of Hono	or maximum urs (Minor S	8 credit Specializ	s against a	dditional N	MOOC con	ırses in sul	bject code	CE47 for

Note: MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

1 hour lecture (L) = 1 credit 1 hour Tutorial (T) = 1 credit 2 hour Practical (P) = 1 credit

PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance Learning Course, MC: Mandatory Course

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Mechancial Engineering)

w.e.f. July 2023

		T								77.	.e.i. July	4023		
		}				Maximu	ım Marks A	llotted			Contac	t Hours Pe	r Week	
	Subject	Category				Theory		Pra	etical	_ , [1
S.No.	Code	Code	Subject Name		End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	ME41	PCC	Energy Conversion Systems		70	20	10	_	-	100	3	1	-	4
2	ME42	PCC	Fluid Mechanics		70	20	10	30	20	150	3	-	2	4
3	ME43	PCC	Machine Drawing & CAD		70	20	10	30	20	150	3	_	2	4
4	ME44	PCC	Kinematics of Machines		70	20	10	30	20	150	3		2	4
5	ME45	PCC	Machine Design-I		70	20	10	_		100	3	1		4
6	ME46	ESC	Software Lab (Python)		-		-	30	20	50	-	-	4	2
				Total	350	100	50	120	80	700	15	2	10	22
7	ME47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)		<u>-</u>	_	-	-	-	-	-	-	-	8
8	ME48	МС	NSS/NCC/Swatchhata Abhiyan/Rural Outreach		Qualifier				·			<u> </u>		I
Additio	nal Course f	or Honours	or Minor Specialization		Permitted to opt for maximum 8 credits against additional MOOC courses in subject code ME47 for the award of Honours (Minor Specialization).									

Note: MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

1 hour lecture (L) = 1 credit 1 hour Tutorial (T) = 1 credit 2 hour Practical (P) = 1 credit

PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance Learning Course, MC: Mandatory Course

DEAN Academic : Jabaipur (M.I

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Electrical Engineering)

w.e.f. July 2023

					Maximi	m Marks A	Hottad		1,7,0	Contact		XX7 F.	
		 			Theory			ctical		Соптас	t Hours Po	er week	1
S.No.	Subject Code	Category Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	EE41	PCC	Electrical Engineering Materials	70	20	10	-	_	100	3	1		4
2	EE42	PCC	Electrical Machine-I	70	20	10	30	20	150	3	-	2	4
3	EE43	PCC	Power System-I	70	20	10	30	20	150	3		2	4
4	EE44	PCC	Electrical & Electronics Instruments	70	20	10	30	20	150	3	-	2	4
5	EE45	PCC	Electromagnetic Field Theory	70	20	10	-	-	100	3	1		4
6	EE46	ESC	Drawing & Design of Electrical Machine Lab	-	-	-	30	20	50	<u>-</u>	-	4	2
			Total	350	100	50	120	80	700	15	2	10	22
7	EE47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	_		-	_	-	-	_	8
8	EE48	МС	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier		<u> </u>		. -					
Additic	onal Course	for Honours	s or Minor Specialization	Permitted to opt for maximum 8 credits against additional MOOC courses in subject code EE47 for the award of Honours (Minor Specialization).									

Note: MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

1 hour lecture (L) = 1 credit 1 hour Tutorial (T) = 1 credit 2 hour Practical (P) = 1 credit

PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance Learning Course, MC: Mandatory Course

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Electronics & Tele Communication Engineering)

w.e.f. July 2023

									**	e.i. July	2023		
						ım Marks A	llotted] [Contac	ct Hours P	er Week	
	Subject	Category			Theory		Pra	ctical	Total [1	"] ",
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	EC41	PCC	Electromagnetic Theory	70	20	10	-	-	100	3	1	-	4
2	EC42	PCC	Analog Integrated Circuits	70	20	10	30	20	150	3		2	4
3	EC43	PCC	Digital Circuits & Systems	70	20	10	30	20	150	3	-	2	4
4	EC44	PCC	Analog Communication	70	20	10	30	20	150	3	† <u>-</u>	2	4
5	EC45	PCC	Communication N/W & Transmission Lines	70	20	10	. -	-	100	3	1	-	4
6	EC46	ESC	Software Lab	-	-	_	30	20	50	-	-	4	2
			Total	350	100	50	120	80	700	15	2	10	22
7	EC47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	_	-	-	-	-	-	-	_	8
8	EC48	MC	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier		l			1 <u> </u>	·		I	
Additio	nal Course fo	r Honours o	r Minor Specialization	Permitted to opt for maximum 8 credits against additional MOOC courses in subject code EC47 for the award of Honours (Minor Specialization).									

Note: MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

1 hour lecture (L) = 1 credit 1 hour Tutorial (T) = 1 credit 2 hour Practical (P) = 1 credit

PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance Learning Course, MC: Mandatory Course

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Computer Science & Engineering)

w.e.f. July 2023

									***	e.i. Juiy	4023		
ļ					Maximu	ım Marks A	Allotted			Contac	Hours Pe	er Week	
	Subject	Category			Theory		Pra	ctical	Tatal				l an i
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	MA41	BSC	Discrete Structure	70	20	10	-	-	100	3	1	-	4
2	CS42	PCC	Database Management Systems	70	20	10	30	20	150	3	-	2	4
3	CS43	PCC	AI & Machine Learning	70	20	10	30	20 .	150	3	-	2	4
4	CS44	PCC	Design and Analysis of Algorithms	70	20	10	30	20	150	3	-	2	4
5	CS45	PCC	Computer Organization and Architecture	70	20	10	-	_	100	3	1	-	4
6	CS46	ESC	Software Lab-II (Java)	-	-	-	30	20	50	-	-	4	2
	<u></u>		Total	350	100	50	120	80	700	15	2	10	22
7	CS47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	_		-	-	_	-	8
8	CS48	МС	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier								<u> </u>	<u>:</u>
Additio	onal Course	for Honour		Permitted to opt for maximum 8 credits against additional MOOC courses in subject code CS47 for the award of Honours (Minor Specialization).									

Note:	MOOC/NPTEL	subjects	shall	be taken	with	permission	of HOD/	Coordinator.
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1 hour lecture	(L) = 1 credit	1 hour Tutorial (T) = 1 credit	2 hour Practical (P) = 1 credit

BSC: Basice Science Course, PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance Learning Course, MC: Mandatory Course

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Information Technology)

w.e.f. July 2023

		T							***	e.i. July	LULJ		
					Maximu	ım Marks A	Allotted			Contact	t Hours Po	er Week	
	Subject	Category			Theory		Prac	ctical	700 - 4 - 1				
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L _.	Т	P	Total Credits
1	MA41	BSC	Discrete Structure	70	20	10	-	-	100	3	1		4
2	IT42	PCC	Analysis and Design of Algorithm	70	20	10	30	20	150	3	-	2	4
3	IT43	PCC	Computer Architecture	70	20	10	30	20	150	3	-	2	4
4	IT44	PCC	Principles of Communication	70	20	10	30	20	150	3		2	4
5	IT45	PCC	System Analysis and Software Engineering	70	20	10		-	100	3	1	-	4
6	IT46	ESC	Software Lab-II	-	-		30	20	50	_	_	4	2
			Total	350	100	50	120	80	700	15	2	10	22
7	IT47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	_	_	-	-	-	_	8
8	IT48	МС	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier									
Additio	onal Course i	for Honours		Permitted to opt for maximum 8 credits against additional MOOC courses in subject code IT47 for the award of Honours (Minor Specialization).									

Note: MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

1 hour lecture (L) = 1 credit 1 hour Tutorial (T) = 1 credit 2 hour Practical (P) = 1 credit

BSC: Basice Science Course, PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance Learning Course, MC: Mandatory Course

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Industrial & Production Engineering)

w.e.f. July 2023

		r								.e.i. July	2025		
		1			Maxim	ım Marks A	Allotted			Contac	t Hours Pe	er Week	
_	Subject	Category			Theory		Pra	ctical]				1
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	BT52	HSMC	Engineering Economics and Management	70	20	10	-	-	100	3	1	-	4
2	IP42	PCC	Production Process	70	20	10	30	20	150	3	-	2	4
3	IP43	PCC	Theory of Machines & Mechanisms	70	20	10	30	20	150	3	-	2	4
4	IP44	PCC	Material Science & Metallurgy	70	20	10	30	20	150	3	_	2	4
5	IP45	PCC	Machine Design	70	20	10		-	100	3	1	-	4
6	IP46	ESC	Software Lab-II	-	-	-	30	20	50	· _		4	2
			Total	350	100	50	120	80	700	15	2	10	22
7	IP47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	_	-	· <u>-</u>	-	-	-	-	8
8	IP48	MC	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier	<u>. </u>				l		I		<u>.</u> .
Additio	onal Course f	for Honours	or Minor Specialization	Permitted to opt for maximum 8 credits against additional MOOC courses in subject code IP47 for the award of Honours (Minor Specialization).									

Note: MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

1 hour lecture (L) = 1 credit 1 hour Tutorial (T) = 1 credit 2 hour Practical (P) = 1 credit

HSMC: Humanities and Social Sciences including Management Course, PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance

Learning Course, MC: Mandatory Course

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Artificial Intelligence & Data Science)

w.e.f. July 2023

									••••	c.i. oury	2020		
		}				ım Marks A	Motted			Contac	t Hours P	er Week	
l l	Subject	Category			Theory		Prac	ctical	Total				T-4-1
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Total Credits
1	<u>MA41</u>	BSC	Discrete Structure	70	20	10	-	-	100	3	1	-	4
2	AI42	PCC	Introduction to AI & ML	70	20	10	30	20	150	3	-	2	4
3	AI43	PCC	Data Base Management System	70	20	10	30	20	150	3	-	2	4
4	AI44	PCC	Operating System	70	20	10	30	20	150	3	-	2	4
5	AI45	PCC	Microprocessor & Microcontroller	70	20	10	-		100	3	1	_	4
6	AI46	ESC	Software Lab-II (R Programming)		_	-	30	20	50	-	-	4	2
			Total	350	100	50	120	80	700	15	2	10	22
7	AI47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	_	-	-	_	-	-	-	8
8	AI48	МС	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier					<u> </u>				L
Additio	nal Course f	or Honours	or Minor Specialization	Permitted to opt for maximum 8 credits against additional MOOC courses in subject code AI47 for the award of Honours (Minor Specialization).									

Note: MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

BSC: Basice Science Course, PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance Learning Course, MC: Mandatory Course

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Andrew

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) IV Semester (Mechatronics Engineering)

w.e.f. July 2023

									***	e.i. July	2023		-	
.]					Maximu	ım Marks A	Allotted			Contac	t Hours Pe	er Week		
	Subject	Category			Theory		Pra	ctical	Т-4-1] ,	
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits	
1	MT41	PCC	Manufacturing Process	70	20	10	-		100	3	1		4	
2	MT42	PCC	Electronic Devices & Circuits	70	20	10	30	20	150	3	-	2	4	
3	MT43	PCC	Theory of Machines	70	20	10	30	20	150	3	-	2	4	
4	MT44	PCC	Microprocessor & Embedded Systems	70	20	10	30	20	150	3	-	2	4	
5	MT45	PCC	Linear Control Theory	70	20	10	-	-	100	3	1	-	4	
6	MT46	ESC	CAD & Kinematics Simulation Lab	-	-		30	20	50	-	-	4	2	
			Total	350	100	50	120	80	700	15	2	10	22	
7	MT47	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	~ .	-	-	-	-	-	-	-	8	
8	MT48	МС	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier			<u> </u>	<u> </u>			<u> </u>	<u> </u>	I	
Additio	onal Course t	for Honours	or Minor Specialization	Permitted to opt for maximum 8 credits against additional MOOC courses in subject code MT47 for the award of Honours (Minor Specialization).										

Note: MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

1 hour lecture (L) = 1 credit 1 hour Tutorial (T) = 1 credit 2 hour Practical (P) = 1 credit

PCC: Professional Core Course, ESC: Engineering Science Course, DLC: Distance Learning Course, MC: Mandatory Course