(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal) (AICTE Model Curriculum Based Scheme) with Provision for Internship Bachelor of Technology (B.Tech.) VIII Semester (Civil Engineering)

w.e.f. July 2024

G 1				- 384a	Maxim	ım Marks Al	lotted			Contac	t Hours		
	Subject	Category			Theory		Prac	tical	Total		B HERE	BELLEVIE	T.4.1
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignmen t	End Sem.	Lab Work	Marks	L	Т	P	Total Credits
1	CE801M	PEC-III	Professional Elective Course-III	70	20	10		1505-150	. 100	3	1		4
2	CE802M	OEC-IV	Open Elective Course-IV	70	20	10	-	146	100	3	1		4
3	CE803M	PI	Major Project / Internship				150	100	250			16	8
			Total	140	40	20	150	100	450	6	2	16	16

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

	Professional Elective Course-III							
S.No.	Subject Code	Subject Name						
1	CE801M A	Structural Design & Drawing-IV (Steel)						
2	CE801M B	Pavement Design						
3	CE801M C	Traffic Engineering						

	Open Elective Course-IV							
S.No.	Subject Code	Subject Name						
1	CE802M A	Finite Element Method						
2	CE802M B	Air Quality Monitoring & Control						
3	CE802M C	FRP Composites						

Note: 2. Students going for internship would have to opt MOOC/NPTEL subjects decided / listed by the HOD / Coordinator.

	Professional Elective Course-III						
S.No.	Subject Code	Subject Name					
1	CE801M D	NPTEL-1					
2	CE801M E	NPTEL-2					
3	CE801M F	NPTEL-3					

Open Elective Course-IV							
S.No.	Subject Code	Subject Name					
1	CE802M D	NPTEL-4					
2	CE802M E	NPTEL-5					
3	CE802M F	NPTEL-6					

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

DEAN Academic

JEC, Jabalpur (M.P.)

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

(AICTE Model Curriculum Based Scheme) with Provision for Internship

Bachelor of Technology (B.Tech.) VIII Semester (Mechanical Engineering)

w.e.f. July 2024

Thursday.					Maxim	ım Marks Al	lotted			Contac	Contact Hours Per Week		
		Category			Theory		Prac	tical	Total		Т	P	Total
S.No.	Subject Code	Category	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignmen t	End Sem.	Lab Work	Marks	L			Credits
1	ME801M	PEC-III	Professional Elective Course-III	70	20	10	- 13	84. <b>-</b> 88	100	3	1		4
2	ME802M	OEC-IV	Open Elective Course-IV	70	20	10		Mary- Error	100	3	1		4
3	ME803M	PI	Major Project / Internship	-		100-53	150	100	250	<u> </u>	E 4 E	16	8
			Total	140	40	20	150	100	450	6	2	16	16

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

	Professional Elective Course-III							
S.No.	Subject Code	Subject Name						
1	ME801M A	Computer Integrated Manufacturing						
2	ME801M B	Tribology .						
3	ME801M C	Advance Machining Processes						

S.No.	Subject Code	Subject Name
1	ME802M A	Energy Conservation & Audit
2	ME802M B	Quality Management
3	ME802M C	Management Information System

Note: 2. Students going for internship would have to opt MOOC/NPTEL subjects decided / listed by the HOD / Coordinator.

	Professional Elective Course-III							
S.No.	Subject Code	Subject Name						
1	ME801M D	NPTEL-1						
2	ME801M E	NPTEL-2						
3	ME801M F	NPTEL-3						

Open Elective Course-IV								
S.No.	Subject Code	Subject Name						
1	ME802M D	NPTEL-4						
2	ME802M E	NPTEL-5						
3	ME802M F	NPTEL-6						

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

DEAN Academic JEC, Jabalpur (M.P.)

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal) (AICTE Model Curriculum Based Scheme) with Provision for Internship Bachelor of Technology (B.Tech.) VIII Semester (Electrical Engineering)

w.e.f. July 2024

- 1					Maximu	m Marks Allo	otted			Contac	ntact Hours Per Week		
		Category			Theory		Prac	tical	Total				Total
S.No.	Subject Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignmen	End Sem.	Lab Work	Marks	L	Т	T P	Credits
1	EE801M	PEC-III	Professional Elective Course-III	70	20	10	- 10	- 19	100	3	1	165-073	4
2	EE802M	OEC-IV	Open Elective Course-IV	70	20	10			100	3	1	1994-199	4
3	EE803M	PI	Major Project / Internship	<b>ES</b> - 35	-	186 - 10	150	100	250		106-	16	8
		计 经货通	Total	140	40	20	150	100	450	6	2	16	16

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

	Professional Elective Course-III							
S.No.	Subject Code	Subject Name						
1	EE801M A	Process Control						
2	EE801M B	SCADA System & Application						
3	EE801M C	Renewable & Non Conventional Energy Source						

Note: 2. Students going for intern	ship would have to opt MOOC/NPTEL subjects dec	ided / listed by the HOD / Coordinator.

	Profe	ssional Elective Course-III
S.No.	Subject Code	Subject Name
1	EE801M D	NPTEL-1
2	EE801M E	NPTEL-2
3	EE801M F	NPTEL-3

Open Elective Course-IV				
S.No.	Subject Code	Subject Name		
1	EE802M A	Digital Image Processing		
2	EE802M B	Power Quality		
3	EE802M C	Computer Network		

Open Elective Course-IV			
S.No.	Subject Code	Subject Name	
1	EE802M D	NPTEL-4	
2	EE802M E	NPTEL-5	
3	EE802M F	NPTEL-6	

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

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

#### (AICTE Model Curriculum Based Scheme) with Provision for Internship

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

w.e.f. July 2024

		2 3 00 00		La Carriera	Maximu	ım Marks Al	lotted	A DESCRIPTION		Contac	t Hours	Per Week	
	Subject	Category			Theory		Prac	ctical	Total				
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignmen t	End Sem.	Lab Work	Marks	L	T	P	Total Credits
1	EC801M	PEC-III	Professional Elective Course-III	70	20	10	N. N 114	-	100	3	1		4
2	EC802M	OEC-IV	Open Elective Course-IV	70	20	10	- 4	-	100	3	1		4
3	EC803M	PI	Major Project / Internship	- 94	- 12 m	A44-51-6	150	100	250	-	22-13	16	8
			Total	140	40	20	150	100	450	6	2	16	16

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

	Profes	sional Elective Course-III	
S.No. Subject Code		Subject Name	
1	EC801M A	Nano Electronics	
2	EC801M B	Sensor Technology	
3	EC801M C	T.V. and Digital Display	

S.No.	Subject Code	Subject Name
1	EC802M A	Economics & Social Issues
2	EC802M B	IoT
3	EC802M C	Advanced Mobile Communication

Note: 2. Students going for internship would have to opt MOOC/NPTEL subjects decided / listed by the HOD / Coordinator

Professional Elective Course-III		
S.No.	Subject Code	Subject Name
1	EC801M D	NPTEL-1
2	EC801M E	NPTEL-2
3	EC801M F	NPTEL-3

	Ope	en Elective Course-IV
S.No.	Subject Code	Subject Name
1	EC802M D	NPTEL-4
2	EC802M E	NPTEL-5
3	EC802M F	NPTEL-6

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

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

### (AICTE Model Curriculum Based Scheme) with Provision for Internship

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

w.e.f. July 2024

					Maxim	um Marks Al	lotted			Contac	t Hours	Per Week	
		Category			Theory		Prac	tical	Total				Total
S.No.	Subject Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignmen t	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	CS801M	PEC-III	Professional Elective Course-III	70	20	10	885-19		100	3	1	950-75	4
2	CS802M	OEC-IV	Open Elective Course-IV	70	20	10	- 4	36-25	100	3	1		4
3	CS803M	PI	Major Project / Internship	-			150	100	250	-	189-18	16	8
		120/2000	Total	140	40	20	150	100	450	6	2	16	16

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

Professional Elective Course-III			
S.No.	Subject Code	Subject Name	
1	CS801M A	Distributed Systems and Cloud Computing	
2	CS801M B	Network Management	
3	CS801M C	Data Warehousing & Mining	

S.No. Subject Code		Subject Name		
1	CS802M A	Advanced Mobile Communication		
2	CS802M B	Data Analytics		
3	CS802M C	Ethical Hacking		

Note: 2. Students going for internship would have to opt MOOC/NPTEL subjects decided / listed by the HOD / Coordinator.

Professional Elective Course-III							
S.No.	Subject Code	Subject Name					
1	CS801M D	NPTEL-1					
2	CS801M E	NPTEL-2					
3	CS801M F	NPTEL-3					

Open Elective Course-IV						
S.No.	Subject Code	Subject Name				
1	CS802M D	NPTEL-4				
2	CS802M E	NPTEL-5				
3	CS802M F	NPTEL-6				

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

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

(AICTE Model Curriculum Based Scheme) with Provision for Internship Bachelor of Technology (B.Tech.) VIII Semester (Information Technology)

w.e.f. July 2024

				Maximum Marks Allotted						Contact Hours Per Week			
	Subject	Category			Theory		Prac	tical	Total				Total
S.No.		Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignmen t	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	IT801M	PEC-III	Professional Elective Course-III	70	20	10	- 62	10.5% <b>-</b> 0.5%	100	3	1		4
2	IT802M	OEC-IV	Open Elective Course-IV	70	20	10	841 <b>-</b> 53	MW-08	100	3	1		4
3	IT803M	PI	Major Project / Internship	- 1	146 - 18		150	100	250	- H		16	8
	101.76		Total	140	40	20	150	100	450	6	2	16	16

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

	Professional Elective Course-III					
S.No.	Subject Code	Subject Name				
1	IT801M A	Network Management				
2	IT801M B	Natural Language Processing				
3	IT801M C	Sensor Networks	N.			

Open Elective Course-IV							
S.No. Subject Code Subject Name							
1	IT802M A	Internet of Things					
2	IT802M B	Image Processing and GIS					
3	IT802M C	Computer Vision					

Note: 2. Students going for internship would have to opt MOOC/NPTEL subjects decided / listed by the HOD / Coordinator.

	Professional Elective Course-III						
S.No.	Subject Code	Subject Name	1 - 3 V				
1	IT801M D	NPTEL-1					
2	IT801M E	NPTEL-2					
3	IT801M F	NPTEL-3					

Open Elective Course-IV						
S.No.	Subject Code	Subject Name				
1	IT802M D	NPTEL-4				
2	IT802M E	NPTEL-5				
3	IT802M F	NPTEL-6				

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

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

### (AICTE Model Curriculum Based Scheme) with Provision for Internship

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

w.e.f. July 2024

		ľ -		Maximum Marks Allotted					Contact Hours Per Week				
					Theory		Prac	tical	Total				Total
S.No.	Subject Code	Category Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignmen t	End Sem.	Lab Work	Marks	L 	T	P	Credits
1	IP801M	PEC-III	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	IP802M	OEC-IV	Open Elective Course-IV	70	20	10	_ <u>-</u>	-	100	3	1	-	4
3	IP803M	PI	Major Project / Internship	-	-	-	150	100	250	-		16	8
		·	Total	140	40	20	150	100	450	6	2	16	16

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

	Professional Elective Course-III						
S.No. Subject Code Subject Name							
1	IP801M A	Computer Integrated Manufacturing					
2	IP801M B	Management Information System					
3	IP801M C	Industrial Psychology & Human Behaviour					
4	IP801M D	Finite Element Methods					

	Open Elective Course-IV							
S.No.	S.No. Subject Code Subject Name							
1	IP802M A	Entrepreneurship & Management						
2	IP802M B	Work Design and Ergonomics						
3	IP802M C	Computer Aided Design						
4	IP802M D	Concurrent Product Design						

Note: 2. Students going for internship would have to opt MOOC/NPTEL subjects decided / listed by the HOD / Coordinator.

	Professional Elective Course-III						
S.No.	Subject Code	Subject Name					
1	IP801M D	NPTEL-1					
2	IP801M E	NPTEL-2					
3	IP801M F	NPTEL-3					

	Open Elective Course-IV						
S.No.	Subject Code	Subject Name					
1	IP802M D	NPTEL-4					
2	IP802M E	NPTEL-5					
3	IP802M F	NPTEL-6					

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project

supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

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

#### (AICTE Model Curriculum Based Scheme) with Provision for Internship

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

w.e.f. July 2024

				Maximum Marks Allotted						Contac	t Hours	Per Week	
	Subject	Catagami	}		Theory		Prac	tical	Total				Total
S.No.	Code	Category Code	Subject Name	End.	Mid	Quiz/	End	Lab	Marks	1.	т	P	Credits
					Sem. Sem.	Assignmen	Sem. Work	17Itti RS	2	•		0.00.00	
				Scii.	Exam.	t	SCIII.	WUIK					
1	AI801M	РЕС-Ш	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	AI802M	OEC-IV	Open Elective Course-IV	70	20	10		-	100	3	1	-	4
3	AI803M	PI	Major Project / Internship	-	-	-	150	100	250	-	-	16	8
			Total	140	40	20	150	100	450	6	2	16	16

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

	Profes	sional Elective Course-III
S.No.	Subject Code	Subject Name
. 1	AI801M A	Financial Engineering
2	AI801M B	DevOps & MLOPs
3	AI801M C	Advanced AI Algorithms-GenAI

	Ореп	Elective Course-IV
S.No.	Subject Code	Subject Name
1	AI802M A	Computer Vision
2	AI802M B	Bio Informatics
3	AI802M C	Design Thinking

Note: 2. Students going for internship would have to opt MOOC/NPTEL subjects decided / listed by the HOD / Coordinator.

	Profes	sional Elective Course-III
S.No.	Subject Code	Subject Name
1	AI801M D	NPTEL-1
2	AI801M E	NPTEL-2
3	AI801M F	NPTEL-3

	Open	Elective Course-IV
S.No.	Subject Code	Subject Name
1	AI802M D	NPTEL-4
2	AI802M E	NPTEL-5
3	AI802M F	NPTEL-6

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project

supervisor / Industry Project Coordinator. 1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

Principal

Jabalpur Engineering College Jebalpur (M.P.)

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

(AICTE Model Curriculum Based Scheme) with Provision for Internship

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

R-Ta				Maximum Marks Allotted				Contact Hours Per Week					
		Category			Theory	Theory Practical		Total					
S.No.	Subject Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignmen t	End Sem.	Lab Work	Marks	L	Т	P	Total Credits
1	MT801M	PEC-III	Professional Elective Course-III	70	20	10	an - 165	- 10	100	3	1	200-10	4
2	MT802M	OEC-IV	Open Elective Course-IV	70	20	10		SEC588	100	3	1	1800 <b>-</b> 1800	4
3	MT803M	PI	Major Project / Internship		-	INVESTIGATION OF	150	100	250		-	16	8

Total

140

Note: 1. Departmental BOS will decide list of three optional subjects for PEC III as well as for OEC IV.

Professional Elective Course-III					
S.No.	Subject Code	Subject Name			
1	MT801M A	Total Quality Management			
2	MT801M B	Renewable EnergyTechnology			
3	MT801M C	Refrigeration and Air Conditioning			

3	M1801M C	Refrigeration and Air Conditioning		3	MT802M C
Note:	2. Students going for internal	nship would have to opt MOOC/NPTEL subjects	decided / listed by the F	IOD / Co	ordinator.

20

150

S.No.

100

450

Subject Code

MT802M A

MT802M B

Professional Elective Course-III					
S.No.	Subject Code	Subject Name			
1	MT801M D	NPTEL-1			
2	MT801M E	NPTEL-2			
3	MT801M F	NPTEL-3			

Open Elective Course-IV					
S.No.	Subject Code	Subject Name			
1	MT802M D	NPTEL-4			
2	MT802M E	NPTEL-5			
3	MT802M F	NPTEL-6			

**Open Elective Course-IV** 

w.e.f. July 2024

Note: 3. For Major Project / Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

Subject Name

Image Processing & Machine Vision

MEMS and NEMS Technology Operation Research & Supply Chain

PEC: Professional Elective Course, OEC: Open Elective Course, PI: Project and Internship

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