Jabalpur Engineering College, Jabalpur

(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

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical			L	T	P	
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work					
1	CE801M	PEC-III	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	CE802M	OEC-IV	Open Elective Course-IV	70	20	10	-	-	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

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(AICTE Model Curriculum Based Scheme) with Provision for Internship

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

w.e.f. July 2024

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical						
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work		L	T	P	
1	ME801M	PEC-III	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	ME802M	OEC-IV	Open Elective Course-IV	70	20	10	-	-	100	3	1	-	4
3	ME803M	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	ME801M A	Computer Integrated Manufacturing
2	ME801M B	Tribology
3	ME801M C	Advance Machining Processes

Open Elective Course-IV		
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

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(AICTE Model Curriculum Based Scheme) with Provision for Internship

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

w.e.f. July 2024

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical						
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work		L	T	P	
1	EE801M	PEC-III	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	EE802M	OEC-IV	Open Elective Course-IV	70	20	10	-	-	100	3	1	-	4
3	EE803M	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	EE801M A	Process Control
2	EE801M B	SCADA System & Application
3	EE801M C	Renewable & Non Conventional Energy Source

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

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	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 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 |

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

w.e.f. July 2024

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical			L	T	P	
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work					
1	EC801M	PEC-III	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	EC802M	OEC-IV	Open Elective Course-IV	70	20	10	-	-	100	3	1	-	4
3	EC803M	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	EC801M A	Nano Electronics
2	EC801M B	Sensor Technology
3	EC801M C	T.V. and Digital Display

Open Elective Course-IV		
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

Open 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.
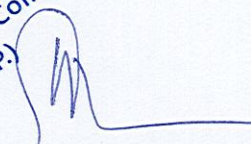
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(AICTE Model Curriculum Based Scheme) with Provision for Internship
Bachelor of Technology (B.Tech.) VIII Semester (Computer Science & Engineering)

w.e.f. July 2024

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical						
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work		L	T	P	
1	CS801M	PEC-III	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	CS802M	OEC-IV	Open Elective Course-IV	70	20	10	-	-	100	3	1	-	4
3	CS803M	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	CS801M A	Distributed Systems and Cloud Computing
2	CS801M B	Network Management
3	CS801M C	Data Warehousing & Mining

Open Elective Course-IV		
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

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

w.e.f. July 2024

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical						
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work		L	T	P	
1	IT801M	PEC-III	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	IT802M	OEC-IV	Open Elective Course-IV	70	20	10	-	-	100	3	1	-	4
3	IT803M	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	IT801M A	Network Management
2	IT801M B	Natural Language Processing
3	IT801M C	Sensor Networks

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	IT801M D	NPTEL-1
2	IT801M E	NPTEL-2
3	IT801M F	NPTEL-3

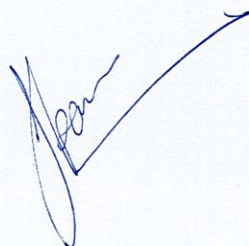| Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	IT802M D	NPTEL-4
2	IT802M E	NPTEL-5
3	IT802M F	NPTEL-6

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

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(AICTE Model Curriculum Based Scheme) with Provision for Internship
Bachelor of Technology (B.Tech.) VIII Semester (Industrial & Production Engineering)
w.e.f. July 2024

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical			L	T	P	
				End. Sem. Exam.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work					
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	-	-	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.	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

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(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

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical			L	T	P	
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work					
1	AI801M	PEC-III	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.

Professional 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

Open 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.

Professional 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

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

w.e.f. July 2024

S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical						
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work		L	T	P	
1	MT801M	PEC-III	Professional Elective Course-III	70	20	10	-	-	100	3	1	-	4
2	MT802M	OEC-IV	Open Elective Course-IV	70	20	10	-	-	100	3	1	-	4
3	MT803M	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	MT801M A	Total Quality Management
2	MT801M B	Renewable EnergyTechnology
3	MT801M C	Refrigeration and Air Conditioning

Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	MT802M A	Image Processing & Machine Vision
2	MT802M B	MEMS and NEMS Technology
3	MT802M C	Operation Research & Supply Chain

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	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

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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