

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

w.e.f. July 2023

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	CE81	PEC/DLC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
2	CE82	OEC/DLC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
3	CE83	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/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	CE81A	Structural Design & Drawing-IV (Steel)
2	CE81B	Pavement Design
3	CE81C	Traffic Engineering

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	CE82A	Finite Element Method
2	CE82B	Air Quality Monitoring & Control
3	CE82C	FRP Composites

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

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	CE81D	NPTEL-1
2	CE81E	NPTEL-2
3	CE81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	CE82D	NPTEL-4
2	CE82E	NPTEL-5
3	CE82F	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, DLC: Distance Learning Course

DEAN
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JEC, Jabalpur (M.P.)

Jabalpur Engineering College, Jabalpur
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) VIII Semester (Mechanical Engineering)

w.e.f. July 2023

S.No.

Subject Code

Category Code

Subject Name

End. Sem.

Mid Sem. Exam.

Quiz/ Assignment

End Sem.

Lab Work

Total Marks

L

T

P

Total Credits

1	ME81	PEC/DLC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
2	ME82	OEC/DLC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
3	ME83	PI	Major Project / Internship	-	-	-	150	100	250	-	-	16	8
Total				140	40	20	150	100	450	6	2	16	16

Maximum Marks Allotted

Theory

Practical

Contact Hours Per Week

End. Sem.

Mid Sem. Exam.

Quiz/ Assignment

End Sem.

Lab Work

Total Marks

L

T

P

Total Credits

1

ME81

PEC/DLC

Professional Elective Course-IV

70

20

10

-

-

100

3

1

-

4

2

ME82

OEC/DLC

Open Elective Course-III

70

20

10

-

-

100

3

1

-

4

3

ME83

PI

Major Project / Internship

-

-

-

150

100

250

-

-

16

8

Total

140

40

20

150

100

450

6

2

16

16

Maximum Marks Allotted

Theory

Practical

Contact Hours Per Week

End. Sem.

Mid Sem. Exam.

Quiz/ Assignment

End Sem.

Lab Work

Total Marks

L

T

P

Total Credits

1

ME81

PEC/DLC

Professional Elective Course-IV

70

20

10

-

-

100

3

1

-

4

2

ME82

OEC/DLC

Open Elective Course-III

70

20

10

-

-

100

3

1

-

4

3

ME83

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/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	ME81A	Computer Integrated Manufacturing
2	ME81B	Tribology
3	ME81C	Advance Machining Processes

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	ME82A	Energy Conservation & Audit
2	ME82B	Quality Management
3	ME82C	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-IV		
S.No.	Subject Code	Subject Name
1	ME81D	NPTEL-1
2	ME81E	NPTEL-2
3	ME81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	ME82D	NPTEL-4
2	ME82E	NPTEL-5
3	ME82F	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

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2 hour Practical (P) = 1 credit

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

w.e.f. July 2023

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Note: 1. Departmental BOS will decide list of three/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	EE81A	Process Control
2	EE81B	SCADA System & Application
3	EE81C	Renewable & Non Conventional Energy Source

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	EE82A	Embedded System
2	EE82B	IPR
3	EE82C	Computer Network

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

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	EE81D	NPTEL-1
2	EE81E	NPTEL-2
3	EE81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	EE82D	NPTEL-4
2	EE82E	NPTEL-5
3	EE82F	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

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Jabalpur Engineering College, Jabalpur
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(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2023

W.E.T. July 2023

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	EC81	PEC/DLC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
2	EC82	OEC/DLC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
3	EC83	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/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	EC81A	Advanced Mobile Communication
2	EC81B	Adaptive Signal Processing
3	EC81C	Sensor Technology

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	EC82A	Economics & Social Issues
2	EC82B	Sustainable Engineering
3	EC82C	AI & Machine Learning

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

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	EC81D	NPTEL-1
2	EC81E	NPTEL-2
3	EC81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	EC82D	NPTEL-4
2	EC82E	NPTEL-5
3	EC82F	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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2 hour Practical (P) = 1 credit

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Jabalpur Engineering College, Jabalpur
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(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2023

w.e.f. July 2023

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	CS81	PEC/DLC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
2	CS82	OEC/DLC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
3	CS83	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/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	CS81A	Computational Intelligence
2	CS81B	Natural Language Processing
3	CS81C	Network Management

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	CS82A	Ethical Hacking
2	CS82B	Data Analytics
3	CS82C	Data Warehouse & Mining

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

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	CS81D	NPTEL-1
2	CS81E	NPTEL-2
3	CS81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	CS82D	NPTEL-4
2	CS82E	NPTEL-5
3	CS82F	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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Jabalpur Engineering College, Jabalpur
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) VIII Semester (Information Technology)

w.e.f. July 2023

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	IT81	PEC/DLC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
2	IT82	OEC/DLC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
3	IT83	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/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	IT81A	Fuzzy Logic & Neural Networks
2	IT81B	Natural Language Processing
3	IT81C	Sensor Networks

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	IT82A	Introduction to Robotics
2	IT82B	Image Processing and GIS
3	IT82C	Computer Vision

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

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	IT81D	NPTEL-1
2	IT81E	NPTEL-2
3	IT81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	IT82D	NPTEL-4
2	IT82E	NPTEL-5
3	IT82F	NPTEL-6

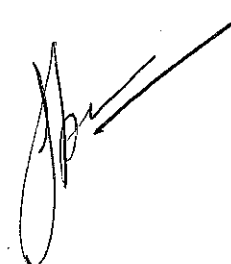
Note: 3. For Major Project/ Internship, evaluation is based on work done, quality of report, presentation and performance in viva-voce through department project supervisor / Industry Project Coordinator.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

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Jabalpur Engineering College, Jabalpur
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2023

w.e.f. July 2023

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	IP81	PEC/DLC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
2	IP82	OEC/DLC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
3	IP83	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/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	IP81A	Computer Integrated Manufacturing
2	IP81B	Management Information System
3	IP81C	Industrial Psychology & Human Behaviour
4	IP81D	Finite Element Methods

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	IP82A	Entrepreneurship & Management
2	IP82B	Work Design and Ergonomics
3	IP82C	Computer Aided Design
4	IP82D	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-IV		
S.No.	Subject Code	Subject Name
1	IP81D	NPTEL-1
2	IP81E	NPTEL-2
3	IP81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	IP82D	NPTEL-4
2	IP82E	NPTEL-5
3	IP82F	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, DLC: Distance Learning Course

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Jabalpur Engineering College, Jabalpur
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2023

W.e.i. July 2023

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	AI81	PEC/DLC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
2	AI82	OEC/DLC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
3	AI83	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/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	AI81A	Financial Engineering
2	AI81B	DevOps & MLOPs
3	AI81C	Advanced AI Algorithms-Gen AI

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	AI82A	Computer Vision
2	AI82B	Bio Informatics
3	AI82C	Design Thinking

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

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	AI81D	NPTEL-1
2	AI81E	NPTEL-2
3	AI81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	AI82D	NPTEL-4
2	AI82E	NPTEL-5
3	AI82F	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

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

Signature

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Jabalpur Engineering College, Jabalpur
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) VIII Semester (Mechatronics Engineering)

w.e.f. July 2023

w.e.r. July 2025

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	MT81	PEC/DLC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
2	MT82	OEC/DLC	Open Elective Course-III.	70	20	10	-	-	100	3	1	-	4
3	MT83	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/four optional subjects those are available in MOOC/NPTEL, PEC as well for OEC.

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	MT81A	Total Quality Management
2	MT81B	Renewable Energy Technology
3	MT81C	Refrigeration and Air Conditioning

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	MT82A	Image Processing & Machine Vision
2	MT82B	MEMS and NEMS Technology
3	MT82C	Operation Research and Supply Chain

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

Professional Elective Course-IV		
S.No.	Subject Code	Subject Name
1	MT81D	NPTEL-1
2	MT81E	NPTEL-2
3	MT81F	NPTEL-3

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	MT82D	NPTEL-4
2	MT82E	NPTEL-5
3	MT82F	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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