

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

w.e.f. July 2017-18 batch

W.E.T. July 2017-18 Batch

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	CE701	PCC	Environmental Engg. -II	70	20	10	30	20	150	3	-	2	4
2	CE702	PCC	Structural Design & Drawing-III (RCC)	70	20	10	30	20	150	3	-	2	4
3	CE703	PCC	Non Destructive Testsing	70	20	10	30	20	150	3	-	2	4
4	CE704	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
5	CE705	OEC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
6	CE706	PI	Project-II (Problem Formulation & Design)	-	-	-	-	50	50	-	-	4	2
7	CE707	MC	Viva Industrial Training	-	-	-	30	20	50	-	-	2	1
8	CE708	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	-
Total				350	100	50	120	130	750	15	2	12	23
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum three additional courses in subject code CE708 for the award of Honours (Minor Specialization) maximum 8 credit can be earned.									

Note: Departmental BOS will decide list of three elective subjects for each PEC /OEC. Industrial training viva shall take place in VII Sem. which students have already done in VI Sem.

Professional Elective Course-II		
S.No.	Subject Code	Subject Name
1	CE704A	Advanced Water Resource Engineering
2	CE704B	Advanced Foundation Design
3	CE704C	Bridge Engineering

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	CE705A	Project Management
2	CE705B	Computational Methods in Structural Engineering
3	CE705C	Environmental Impact Assessment

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning Courses/Project and Internship, MC: Mandatory Courses

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses	MOOC subjects shall be taken with permission of HOD/Coordinator
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Permitted maximum 3 MOOC courses for the award of minor specialization degree.

Jabalpur Engineering College, Jabalpur
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) VII Semester (Computer Science & Engg.)

w.e.f. July 2017-18 batch

w.e.f. July 2017-18 batch

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	CS701	PCC	Computer Vision	70	20	10	30	20	150	3	-	2	4
2	CS702	PCC	Compiler Design	70	20	10	30	20	150	3	-	2	4
3	CS703	PCC	Cryptography & Network Security	70	20	10	30	20	150	3	-	2	4
4	CS704	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
5	CS705	OEC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
6	CS706	PI	Project-II (Problem Formulation & Design)	-	-	-	-	50	50	-	-	4	2
7	CS707	MC	Viva Industrial Training	-	-	-	30	20	50	-	-	2	1
8	CS708	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	-
Total				350	100	50	120	130	750	15	2	12	23
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum three additional courses in subject code CS708 for the award of Honours (Minor Specialization) maximum 8 credit can be earned.									

Note: Departmental BOS will decide list of three elective subjects for each PEC /OEC. Industrial training viva shall take place in VII Sem. which students have already done in VI Sem.

Professional Elective Course-II		
S.No.	Subject Code	Subject Name
1	CS704A	Information Retrieval
2	CS704B	Natural Language Processing
3	CS704C	Data Centre Management

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	CS705A	Computational Intelligence
2	CS705B	Optimization Techniques
3	CS705C	Internet of Things

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning Courses/Project and Internship, MC: Mandatory Courses

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses MOOC subjects shall be taken with permission of HOD/Coordinator

Permitted maximum 3 MOOC courses for the award of minor specialization degree.





Jabalpur Engineering College, Jabalpur
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) VII Semester (Electronics & Telecommunication Engg.)

w.e.f. July 2017-18 batch

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	EC701	PCC	T.V. and Digital Display	70	20	10	30	20	150	3	-	2	4
2	EC702	PCC	CMOS VLSI Design	70	20	10	30	20	150	3	-	2	4
3	EC703	PCC	Antenna Wave Propagation	70	20	10	30	20	150	3	-	2	4
4	EC704	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
5	EC705	OEC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
6	EC706	PI	Project-II (Problem Formulation & Design)	-	-	-	-	50	50	-	-	4	2
7	EC707	MC	Viva Industrial Training	-	-	-	30	20	50	-	-	2	1
8	EC708	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	-
Total				350	100	50	120	130	750	15	2	12	23
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum three additional courses in subject code EC708 for the award of Honours (Minor Specialization) maximum 8 credit can be earned.									

Note: Departmental BOS will decide list of three elective subjects for each PEC /OEC. Industrial training viva shall take place in VII Sem. which students have already done in VI Sem.

Professional Elective Course-II		
S.No.	Subject Code	Subject Name
1	EC704A	Wireless Communication
2	EC704B	Information Theory & Coding
3	EC704C	RFID

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	EC705A	Digital Image Processing
2	EC705B	Artificial Intelligence
3	EC705C	Robotics

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning Courses/Project and Internship, MC: Mandatory Courses

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses	MOOC subjects shall be taken with permission of HOD/Coordinator
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Permitted maximum 3 MOOC courses for the award of minor specialization degree.

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

w.e.f. July 2017-18 batch

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	EE701	PCC	High Voltage Engineering	70	20	10	30	20	150	3	-	2	4
2	EE702	PCC	Electrical Drives	70	20	10	30	20	150	3	-	2	4
3	EE703	PCC	Power System Control	70	20	10	30	20	150	3	-	2	4
4	EE704	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
5	EE705	OEC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
6	EE706	PI	Project-II (Problem Formulation & Design)	-	-	-	-	50	50	-	-	4	2
7	EE707	MC	Viva Industrial Training	-	-	-	30	20	50	-	-	2	1
8	EE708	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	-
Total				350	100	50	120	130	750	15	2	12	23
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum three additional courses in subject code EE708 for the award of Honours (Minor Specialization) maximum 8 credit can be earned.									

Note: Departmental BOS will decide list of three elective subjects for each PEC /OEC. Industrial training viva shall take place in VII Sem. which students have already done in VI Sem.

Professional Elective Course-II		
S.No.	Subject Code	Subject Name
1	EE704A	Power System Planning & Reliability
2	EE704B	Soft Computing Techniques
3	EE704C	Advanced Digital Communication

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	EE705A	Generalized Theory of Electrical Machine
2	EE705B	Digital Control System
3	EE705C	Advanced Industrial Electronics

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning Courses/Project and Internship, MC: Mandatory Courses

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses	MOOC subjects shall be taken with permission of HOD/Coordinator
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Permitted maximum 3 MOOC courses for the award of minor specialization degree.

Jabalpur Engineering College, Jabalpur
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) VII Semester (Industrial & Production Engg.)

w.e.f. July 2017-18 batch

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	IP701	PCC	Industrial Robotics & Mechatronics	70	20	10	30	20	150	3	-	2	4
2	IP702	PCC	Industrial Engineering	70	20	10	30	20	150	3	-	2	4
3	IP703	PCC	Vibration & Maintenance Engineering	70	20	10	30	20	150	3	-	2	4
4	IP704	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
5	IP705	OEC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
6	IP706	PI	Project-II (Problem Formulation & Design)	-	-	-	-	50	50	-	-	4	2
7	IP707	MC	Viva Industrial Training	-	-	-	30	20	50	-	-	2	1
8	IP708	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	-
Total				350	100	50	120	130	750	15	2	12	23
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum three additional courses in subject code IP708 for the award of Honours (Minor Specialization) maximum 8 credit can be earned.									

Note: Departmental BOS will decide list of three elective subjects for each PEC /OEC. Industrial training viva shall take place in VII Sem. which students have already done in VI Sem.

Professional Elective Course-II		
S.No.	Subject Code	Subject Name
1	IP704A	Material Management & Product Design
2	IP704B	Manufacturing System Design
3	IP704C	Product Life Cycle Management

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	IP705A	Advance Manufacturing Process
2	IP705B	Rapid Prototyping
3	IP705C	Research Methodology and Optimization Techniques

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning Courses/Project and Internship, MC: Mandatory Courses

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses	MOOC subjects shall be taken with permission of HOD/Coordinator
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Permitted maximum 3 MOOC courses for the award of minor specialization degree.

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

w.e.f. July 2017-18 batch

w.e.f. July 2017-18 batch													
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	IT701	PCC	Cloud Computing	70	20	10	30	20	150	3	-	2	4
2	IT702	PCC	Information Retrieval	70	20	10	30	20	150	3	-	2	4
3	IT703	PCC	Machine Learning	70	20	10	30	20	150	3	-	2	4
4	IT704	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
5	IT705	OEC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
6	IT706	PI	Project-II (Problem Formulation & Design)	-	-	-	-	50	50	-	-	4	2
7	IT707	MC	Viva Industrial Training	-	-	-	30	20	50	-	-	2	1
8	IT708	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	-
Total				350	100	50	120	130	750	15	2	12	23
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum three additional courses in subject code IT708 for the award of Honours (Minor Specialization) maximum 8 credit can be earned.									

Note: Departmental BOS will decide list of three elective subjects for each PEC /OEC. Industrial training viva shall take place in VII Sem. which students have already done in VI Sem.

Professional Elective Course-II		
S.No.	Subject Code	Subject Name
1	IT704A	Simulation and Modeling
2	IT704B	Advanced Computer Architecture
3	IT704C	Real Time Systems

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	IT705A	Wireless and Mobile Communication
2	IT705B	Embedded Systems
3	IT705C	Distributed Systems

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning Courses/Project and Internship, MC: Mandatory Courses

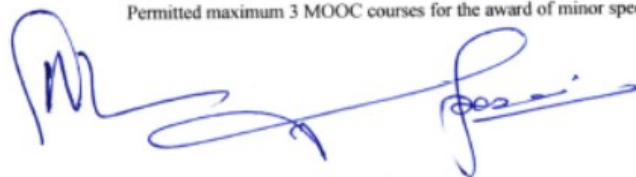
1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses	MOOC subjects shall be taken with permission of HOD/Coordinator
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Permitted maximum 3 MOOC courses for the award of minor specialization degree.




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

w.e.f. July 2017-18 batch

w.e.f. July 2017-18 batch													
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	ME701	PCC	Refrigeration & Air Conditioning	70	20	10	30	20	150	3	-	2	4
2	ME702	PCC	Vibration & Noise Control	70	20	10	30	20	150	3	-	2	4
3	ME703	PCC	Operation Research & Supply Chain	70	20	10	30	20	150	3	-	2	4
4	ME704	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
5	ME705	OEC	Open Elective Course-III	70	20	10	-	-	100	3	1	-	4
6	ME706	PI	Project-II (Problem Formulation & Design)	-	-	-	-	50	50	-	-	4	2
7	ME707	MC	Viva Industrial Training	-	-	-	30	20	50	-	-	2	1
8	ME708	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	-
Total				350	100	50	120	130	750	15	2	12	23
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum three additional courses in subject code ME708 for the award of Honours (Minor Specialization) maximum 8 credit can be earned.									

Note: Departmental BOS will decide list of three elective subjects for each PEC /OEC. Industrial training viva shall take place in VII Sem. which students have already done in VI Sem.

Professional Elective Course-II		
S.No.	Subject Code	Subject Name
1	ME704A	Industrial Robotics
2	ME704B	Product Design
3	ME704C	Gas Dynamics and Jet Propulsion

Open Elective Course-III		
S.No.	Subject Code	Subject Name
1	ME705A	Renewable Energy Systems
2	ME705B	Artificial Intelligence
3	ME705C	Internet of Things

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning Courses/Project and Internship, MC: Mandatory Courses

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

MOOC/DLC Courses	MOOC subjects shall be taken with permission of HOD/Coordinator
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Permitted maximum 3 MOOC courses for the award of minor specialization degree.