

14/11/2022

Jabalpur Engineering College, Jabalpur													
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)													
(AICTE Model Curriculum Based Scheme)													
Bachelor of Technology (B.Tech.) PTDC VII Semester (Civil Engg.)													
w.e.f. July 2019-20 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	1	2	5
2	CE702	PCC	Structural Design and Drawing-III (RCC)	70	20	10	30	20	150	3	1	2	5
3	CE703	PCC	Non Destructive Testing	70	20	10	30	20	150	3	1	2	5
4	CE705	OEC	Open Elective Course-III	70	20	10			100	3	1		4
5	CE706	PI	Project-II (Problem Formulation & Design)	-	-	-	30	20	50	-	-	2	1
Total				280	80	40	120	80	600	12	4	8	20
6	CE709	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	8
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code CE706 for the award of Honours (Minor Specialization).									
Note:1 Departmental BOS will decide list of three optional subjects those are available in MOOC as well for PEC.													
List of Open Elective Course - III													
S.No.	Subject Code	Subject Name											
1	CE705A	Project Management											
2	CE705B	Computation 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											



**Jabalpur Engineering College, Jabalpur**  
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**Bachelor of Technology (B.Tech.) VII Semester [PTDC] (Mechanical Engineering)**

w.e.f. July 2019

w.e.f. July 2019													
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	Refreigeration & Air Conditioning	70	20	10	30	20	150	3	1	2	5
2	ME703	PCC	Operation Research & Supply Chain	70	20	10	30	20	150	3	1	2	5
3	ME803	PCC	CAD/CAM/CIM	70	20	10	30	20	150	3	1	2	5
4	ME705	OEC	Open Elective Course - III	70	20	10			100	3	1		4
5	ME706	PI	Project II (Problem Formulation)				30	20	50			2	1
Total				280	80	40	120	80	600	12	4	8	20
7	ME709	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	8
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional MOOC courses for the award of Honours (Minor Specialization).									

**Note:1** Departmental BOS will decide list of three optional subjects those are available in MOOC as well for PEC.

Open Elective Course-II		
1	ME705A	Renewable Energy Systems
2	ME705B	Artificial Intelligence
3	ME705C	Internet of things

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

BSC: Basic Science Course, PCC: Professional Core Course, PEC: Professional Elective Course, HSMS: Humanities Science, Management Course, MC: Mandatory Course, PI: Project and Internship, DLC: Distance Learning Course



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**Bachelor of Technology (B.Tech.) VII Semester [PTDC] (Electrical Engineering)**

w.e.f. July 2019 Revised 21/11/2022

Electrical Engineering													
w.e.f. July 2019 Revised 21/11/2022													
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	1	2	5
2	EE702	PCC	Electrical Drive	70	20	10	30	20	150	3	1	2	5
3	EE703	PCC	Power System Control	70	20	10			100	3	1	-	4
4	EE803	PEC	Professional Elective Course-IV	70	20	10	-	-	100	3	1	-	4
5	EE706	PI	Project II (Problem Formulation & Design)				60	40	100			4	2
Total				280	80	40	120	80	600	12	4	8	20
7	EE709	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	8
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional MOOC courses for the award of Honours (Minor Specialization).									
Note:1 Departmental BOS will decide list of three optional subjects those are available in MOOC as well as PCC													

**Note:1** Departmental BOS will decide list of three optional subjects those are available in MOOC as well for PEC.

S.No.	Code	Professional Elective Courses-IV
1	EE803A	Process Control
2	EE803B	SCADA System & Application
3	EE803C	Renewable & Non Conventional Energy Sources

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

BSC: Basic Science Course, PCC: Professional Core Course, PEC: Professional Elective Course, HSMS: Humanities Science, Management Course, MC: Mandatory Course, PI: Project and Internship, DLC: Distance Learning Course

*[Signature]*  
22/11/2022

**Jabalpur Engineering College, Jabalpur**  
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**Bachelor of Technology (B.Tech.) VII Semester [PTDC] (Electronics & Telecommunication Engineering)**

w.e.f. July 2019 2022

w.e.f. July 2019 2022

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	EC605	PCC	Microwave & Radar Engineering	70	20	10	30	20	150	3	1	2	5
2	EC702	PCC	CMOS VLSI Design	70	20	10	30	20	150	3	1	2	5
3	EC705	OEC	Open Elective Course-III	70	20	10			100	3	1		4
4	EC803	PEC	Professional Elective Courses-III	70	20	10	-	-	100	3	1	-	4
5	EC706	PI	Project II (Problem Formulation and Design)				60	40	100			4	2
Total				280	80	40	120	80	600	12	4	8	20
6	EC708	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	8
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional MOOC courses for the award of Honours (Minor Specialization).									

**Note:** Departmental BOS will decide list of three optional subjects those are available in MOOC as well for PEC.

S.No.	Code	Open Elective Courses - III
1	EC705A	Digital Image Processing
2	EC705B	Artificial Intelligence

S.No.	Code	Professional Elective Courses - III
1	EC803A	Nanoelectronics
2	EC803C	Sensor Technology

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

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