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 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	CE801	PCC	Structural Design & Drawing-IV (Steel)	70	20	10	30	20	150	3	-	2	4
2	CE802	PCC	Estimating Costing and Tendering	70	20	10	30	20	150	3	-	2	4
3	CE803	PEC	Professinal Elective Course-III	70	20	10	-	-	100	3	-	-	3
4	CE804	OEC	Open Elective Course-IV	70	20	10	-	-	100	3	-	-	3
5	CE805	PI	Project-II (Testing & Implementation)	-	-	-	150	100	250	-	-	12	6
			Total	280	80	40	210	140	750	12	-	16	20
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									

Note: Departmental BOS will decide list of four elective subjects for each PEC (Program Elective Course) / OEC (Open Elective Course).

Professional Elective Course-III		
S.No	Subject Code	Subject Name
1	CE803A	Pre-Stressed Concrete
2	CE803B	Pavement Design
3	CE803C	Traffic Engineering

Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	CE804A	Finite Element Method
2	CE804B	Air Quality Monitoring & Control
3	CE804C	FRP Composites

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning

1 hour lecture (L) = 1 credit	1 hour Tutorial (T) = 1 credit	2 hour Practical (P) = 1 credit

Jabalpur Engineering College, Jabalpur

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) VIII Semester (Computer Science & 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	CS801	PCC	Network Management	70	20	10	30	20	150	3	-	2	4
2	CS802	PCC	Data Warehousing & Mining	70	20	10	30	20	150	3	-	2	4
3	CS803	PEC	Professinal Elective Course-III	70	20	10	-	-	100	3	-	-	3
4	CS804	OEC	Open Elective Course-IV	70	20	10	-	-	100	3	-	-	3
5	CS805	PI	Project-II (Testing & Implementation)	-	-	-	150	100	250	-	-	12	6
			Total	280	80	40	210	140	750	12	-	16	20
NSS/NCC/Swachhata Abhiyan/Rural Outreach			Qualifier										

Note: Departmental BOS will decide list of four elective subjects for each PEC (Program Elective Course) / OEC (Open Elective Course).

Professional Elective Course-III		
S.No	Subject Code	Subject Name
1	CS803A	Distributed Systems & Cloud Computing
2	CS803B	Ethical Hacking
3	CS803C	Embedded Systems

Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	CS804A	Data Analytics
2	CS804B	E-Commerce & ERP
3	CS804C	Simulation and Modeling

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning

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Jabalpur Engineering College, Jabalpur

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Bachelor of Technology (B.Tech.) VIII 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	EC801	PCC	Optical Communication	70	20	10	30	20	150	3	-	2	4
2	EC802	PCC	Advance Communication	70	20	10	30	20	150	3	-	2	4
3	EC803	PEC	Professinal Elective Course-III	70	20	10	-	-	100	3	-	-	3
4	EC804	OEC	Open Elective Course-IV	70	20	10	-	-	100	3	-	-	3
5	EC805	PI	Project-II (Testing & Implementation)	-	-	-	150	100	250	-	-	12	6
			Total	280	80	40	210	140	750	12	-	16	20
NSS/NCC/Swachhata Abhiyan/Rural Outreach			Qualifier										

Note: Departmental BOS will decide list of four elective subjects for each PEC (Program Elective Course) / OEC (Open Elective Course).

Professional Elective Course-III		
S.No	Subject Code	Subject Name
1	EC803A	Nano Electronics
2	EC803B	System on Chip Design
3	EC803C	Sensor Technology

Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	EC804A	Economics & Social Issues
2	EC804B	I.O.T.
3	EC804C	Fuzzy Logic & NN

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning

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Jabalpur Engineering College, Jabalpur

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) VIII 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	EE801	PCC	EHV AC & HVDC Transmission	70	20	10	30	20	150	3	-	2	4
2	EE802	PCC	Advanced Electrical Drives	70	20	10	30	20	150	3	-	2	4
3	EE803	PEC	Professinal Elective Course-III	70	20	10	-	-	100	3	-	-	3
4	EE804	OEC	Open Elective Course-IV	70	20	10	-	-	100	3	-	-	3
5	EE805	PI	Project-II (Testing & Implementation)	-	-	-	150	100	250	-	-	12	6
			Total	280	80	40	210	140	750	12	-	16	20
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									

Note: Departmental BOS will decide list of four elective subjects for each PEC (Program Elective Course) / OEC (Open Elective Course).

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

Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	EE804A	Digital Image Processing
2	EE804B	Power Quality
3	EE804C	Computer Networks

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) VIII 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	IP801	PCC	Computer Integrated Manufacturing	70	20	10	30	20	150	3	-	2	4
2	IP802	PCC	Computer Aided Design	70	20	10	30	20	150	3	-	2	4
3	IP803	PEC	Professinal Elective Course-III	70	20	10	-	-	100	3	-	-	3
4	IP804	OEC	Open Elective Course-IV	70	20	10	-	-	100	3	-	-	3
5	IP805	PI	Project-II (Testing & Implementation)	-	-	-	150	100	250	-	-	12	6
			Total	280	80	40	210	140	750	12	-	16	20
NSS/NCC/Swachhata Abhiyan/Rural Outreach			Qualifier										

Note: Departmental BOS will decide list of four elective subjects for each PEC (Program Elective Course) / OEC (Open Elective Course).

Professional Elective Course-III		
S.No	Subject Code	Subject Name
1	IP803A	Entrepreneurship & Management Concept
2	IP803B	Industrial Psychology & Human Behaviour
3	IP803C	Finite Element Methods

Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	IP804A	Management Information System
2	IP804B	Work Design and Ergonomics
3	IP804C	Concurrent Product Design

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning

1 hour lecture (L) = 1 credit	1 hour Tutorial (T) = 1 credit	2 hour Practical (P) = 1 credit

Jabalpur Engineering College, Jabalpur

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

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	IT801	PCC	Information and Cyber Security	70	20	10	30	20	150	3	-	2	4
2	IT802	PCC	Data Mining	70	20	10	30	20	150	3	-	2	4
3	IT803	PEC	Professinal Elective Course-III	70	20	10	-	-	100	3	-	-	3
4	IT804	OEC	Open Elective Course-IV	70	20	10	-	-	100	3	-	-	3
5	IT805	PI	Project-II (Testing & Implementation)	-	-	-	150	100	250	-	-	12	6
			Total	280	80	40	210	140	750	12	-	16	20
NSS/NCC/Swachhata Abhiyan/Rural Outreach			Qualifier										

Note: Departmental BOS will decide list of four elective subjects for each PEC (Program Elective Course) / OEC (Open Elective Course).

Professional Elective Course-III		
S.No	Subject Code	Subject Name
1	IT803A	Network Management
2	IT803B	Netural Language Processing
3	IT803C	Sensor Netwokrs

Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	IT804A	Internet of Things
2	IT804B	Image Processing and GIS
3	IT804C	Computer Vision

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning

1 hour lecture (L) = 1 credit	1 hour Tutorial (T) = 1 credit	2 hour Practical (P) = 1 credit

Jabalpur Engineering College, Jabalpur

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) VIII Semester (Mechanical 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	ME801	PCC	Advance Machine Design	70	20	10	30	20	150	3	-	2	4
2	ME802	PCC	Automobile Engineering	70	20	10	30	20	150	3	-	2	4
3	ME803	PEC	Professinal Elective Course-III	70	20	10	-	-	100	3	-	-	3
4	ME804	OEC	Open Elective Course-IV	70	20	10	-	-	100	3	-	-	3
5	ME805	PI	Project-II (Testing & Implementation)	-	-	-	150	100	250	-	-	12	6
			Total	280	80	40	210	140	750	12	-	16	20
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									

Note: Departmental BOS will decide list of four elective subjects for each PEC (Program Elective Course) / OEC (Open Elective Course).

Professional Elective Course-III		
S.No	Subject Code	Subject Name
1	ME803A	CAD/CAM/CIM
2	ME803B	Tribology
3	ME803C	Advance Machining Processes

Open Elective Course-IV		
S.No.	Subject Code	Subject Name
1	ME804A	Energy Conservation & Audit
2	ME804B	Data Analysis
3	ME804C	Management Information System

PEC: Professional Elective (Branch Specific), OEC: Open Elective Course (Interdisciplinary), PCC: Professional Core Course, DLC/PI: Digital Learning

1 hour lecture (L) = 1 credit	1 hour Tutorial (T) = 1 credit	2 hour Practical (P) = 1 credit