

Revised Scheme. (L)
25/1/23

Jabalpur Engineering College, Jabalpur

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)

(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2022

w.e.f. July 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	MA331	BSC	Mathematics - III	70	20	10	-	-	100	3	1	-	4
2	CH302	HSMS	Energy & Enviroment Engineering	70	20	10	-	-	100	3	1	-	4
3	AI303	PCC	Data Structure& Algorithm	70	20	10	30	20	150	3	-	2	4
4	AI304	PCC	Object Oriented Programming Using Java	70	20	10	30	20	150	3	-	2	4
5	AI305	PCC	Digital Logic Design & Computer Organization	70	20	10	30	20	150	3	-	2	4
6	AI306	ESC	Software Lab - I (Python)	-	-	-	30	20	50	-	-	2	1
7	BT307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	AI308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4

Additional Course for Honours or Minor Specialization Permitted to opt for maximum two additional MOOC courses for the award of Honours (Minor)

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

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 Managerial Science, MC: Mandatory Course, PI: Project and Internship, DLC: Distance Learning Course

[Signatures]

Jabalpur Engineering College, Jabalpur

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(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) III Semester (Civil Engg.)

For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)

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	MA311	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2	CH302	HSMC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
3	CE303	PCC	Strength of Materials	70	20	10	30	20	150	3	-	2	4
4	CE304	PCC	Engineering Geology	70	20	10	30	20	150	3	-	2	4
5	CE305	PCC	Building Design and Drawing	70	20	10	30	20	150	3	-	2	4
6	CE306	ESC	Software Lab-I	-	-	-	30	20	50	-	-	2	1
7	BT307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	CE308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code CE308 for the award of Honours (Minor Specialization).									

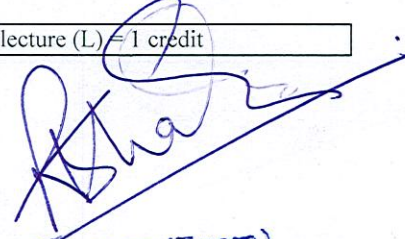
Note: Departmental BOS will decide list of three optional subjects those are available in MOOC. *Students should contact department for opting DLC optional subject/subjects

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.) III Semester (Mechanical Engg.)

For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)

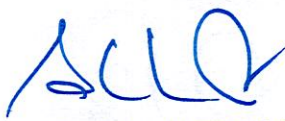
S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical						
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work		L	T	P	
1	MA311	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2	ME302	PCC	Material Science	70	20	10	-	-	100	3	1	-	4
3	ME303	PCC	Strength of Materials	70	20	10	30	20	150	3	-	2	4
4	ME304	PCC	Manufacturing Process	70	20	10	30	20	150	3	-	2	4
5	ME305	PCC	Thermodynamics	70	20	10	30	20	150	3	-	2	4
6	ME306	ESC	Software Lab-I	-	-	-	30	20	50	-	-	2	1
7	BT307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	ME308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code ME308 for the award of Honours (Minor Specialization).									

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC. *Students should contact department for opting DLC optional subject/subjects

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Bachelor of Technology (B.Tech.) III Semester (Electrical Engg.)

For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)

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	MA321	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2	CH302	HSMC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
3	EE303	PCC	Circuit Theory and Network Analysis	70	20	10	30	20	150	3	-	2	4
4	EE304	PCC	Analog and Digital Electronics	70	20	10	30	20	150	3	-	2	4
5	EE305	PCC	Electrical Measurement & Measuring Instruments	70	20	10	30	20	150	3	-	2	4
6	EE306	ESC	Software Lab-I	-	-	-	30	20	50	-	-	2	1
7	BT307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	EE308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code EE308 for the award of Honours (Minor Specialization).									

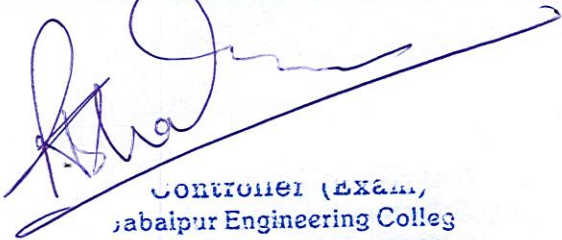
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Bachelor of Technology (B.Tech.) III Semester (Electronics & Tele Communication Engg.)

For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)

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	MA321	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2	CH302	HSMC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
3	EC303	PCC	Signals & Systems	70	20	10	30	20	150	3	-	2	4
4	EC304	PCC	Electronic Devices	70	20	10	30	20	150	3	-	2	4
5	EC305	PCC	Network Analysis	70	20	10	30	20	150	3	-	2	4
6	EC306	ESC	Software Lab-I	-	-	-	30	20	50	-	-	2	1
7	BT307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	EC308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code EC308 for the award of Honours (Minor Specialization).									

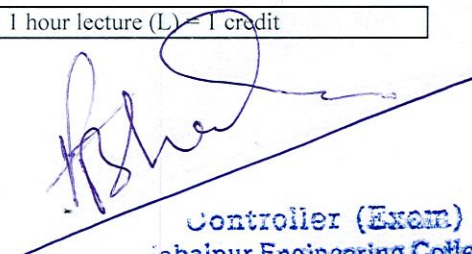
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Bachelor of Technology (B.Tech.) III Semester (Computer Science & Engg.)

For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)

For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)													
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	MA331	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2	CH302	HSMC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
3	CS303	PCC	Data Structures & Algorithms	70	20	10	30	20	150	3	-	2	4
4	CS304	PCC	Object Oriented Programming with C++	70	20	10	30	20	150	3	-	2	4
5	CS305	PCC	Digital Electronics	70	20	10	30	20	150	3	-	2	4
6	CS306	ESC	Software Lab-I	-	-	-	30	20	50	-	-	2	1
7	BT307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	CS308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code CS308 for the award of Honours (Minor Specialization).									

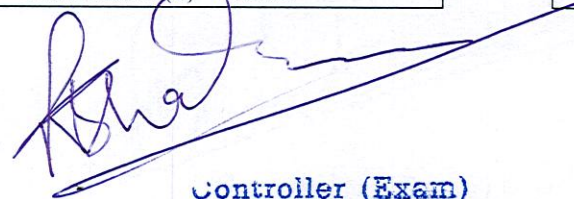
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(AICTE Model Curriculum Based Scheme)

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

For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)

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	MA331	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2	CH302	HSMC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
3	IT303	PCC	Data Structure & Algorithm	70	20	10	30	20	150	3	-	2	4
4	IT304	PCC	Object Oriented Concept on C++	70	20	10	30	20	150	3	-	2	4
5	IT305	PCC	Electronics & Digital Communication	70	20	10	30	20	150	3	-	2	4
6	IT306	ESC	Software Lab-I	-	-	-	30	20	50	-	-	2	1
7	BT307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	IT308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code IT308 for the award of Honours (Minor Specialization).									

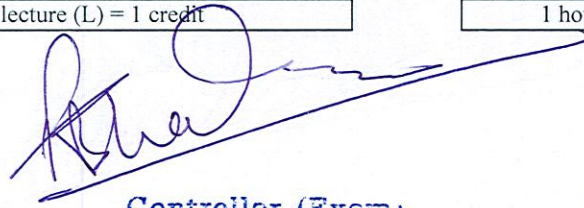
Note: Departmental BOS will decide list of three optional subjects those are available in MOOC. *Students should contact department for opting DLC optional subject/subjects

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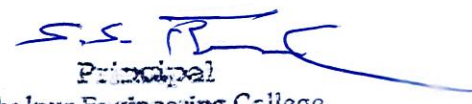
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Bachelor of Technology (B.Tech.) III Semester (Industrial & Production Engg.)

For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)

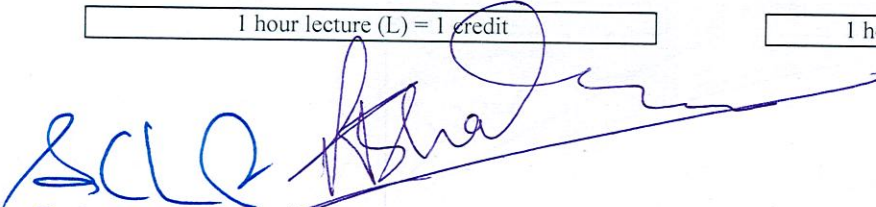
For batches admitted in July 2017 & July 2018 (w.e.f. July 2018)													
S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical			L	T	P	
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work					
1	MA311	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2	CH302	HSMC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
3	IP303	PCC	Mechanics of Materials	70	20	10	30	20	150	3	-	2	4
4	IP304	PCC	Machine Drawing & CAD	70	20	10	30	20	150	3	-	2	4
5	IP305	PCC	Thermodynamics	70	20	10	30	20	150	3	-	2	4
6	IP306	ESC	Software Lab-I	-	-	-	30	20	50	-	-	2	1
7	BT307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	IP308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code IP308 for the award of Honours (Minor Specialization).									

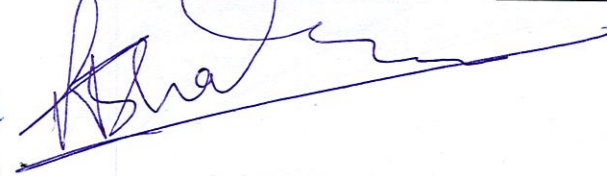
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Bachelor of Technology (B.Tech.) III Semester (Mechatronics Engineering)

For batches admitted (w.e.f. July 2021)

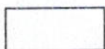
S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours Per Week			Total Credits
				Theory			Practical			L	T	P	
				End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work					
1	MA-341	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2	CH-302	HSMC	Energy & Environment Engineering	70	20	10	-	-	100	3	1	-	4
3	MT-303	PCC	Digital Circuit Design	70	20	10	30	20	150	3	-	2	4
4	MT-304	PCC	Strength of Materials	70	20	10	30	20	150	3	-	2	4
5	MT-305	PCC	Sensors and Instrumentation	70	20	10	30	20	150	3	-	2	4
6	MT-306	ESC	Mechanics and Material Lab	-	-	-	30	20	50	-	-	2	1
7	BT-307	DLC/PI	Industrial Training Evaluation	-	-	-	30	20	50	-	-	2	1
Total				350	100	50	150	100	750	15	2	10	22
8	MT308	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/NCC/Swachhata Abhiyan/Rural Outreach				Qualifier / -									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses in subject code for the award of Honours (Minor Specialization).									

Note: Departmental BOS will decide list of three optional subjects those are available in MOOC. *Students should contact department for opting DLC optional subject/subjects

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2 hour Practical (P) = 1 credit



[Handwritten signatures]

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