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

						um Marks	Allotted		nitted in Ju		et Hours P		T
S.No.	1	Category	Subject Name		Theory		Prac	tical	1		T T T T T T T T T T T T T T T T T T T	- Week	1
	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	Р	Total Credits
-	CE401	BSC	Material Science	70	20	10	-	***************************************	100	3	1		4
2	CE402	PCC	Transportation Engineering	70	20	10	30	20	150	3	*	2	4
3	CE403	PCC	Geotechnical Engineering-I	70	20	10	30	20	150	3	_	2	4
4	CE404	PCC	Fluid Mechanics	70	20	10	30	20	150	3			-
5	CE405	PEC	Advance Surveying	70	20	10			100			2	4
6	CE406	ESC	Software Lab-I	-	-	-	60	40	100	3		-	4
7	CE407	МС	Industrial Training	Minimum	Four Weeks	Duration. I			e in 5th seme	ester	-	2	
*************************			Total	350	100	50	150	100	750	15	0		
8	CE408	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)		-	-	-	-	***	- 13	2	8	21
SS/NO	CC/Swach			Qualifier/									-1
dditio	nal Cours	e for Honor	urs or Minor Specialization	Permitted to Specializat	o opt for ma	ximum two	additional c	courses in s	subject code	CE408 fo	r the award	of Honour	s (Minor

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

2 Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

1 hor	ur lecture (L) = 1 credit	1 hour Tutorial (T) = 1 credit	2 hour Practical (P) = 1 credit
MOOC/DLC Courses	CE408A Problem Solving and Critical Thinking Skills	CE408B Science and Engineering Ethics	CE408C Building with Nature	Pr. Scipal
	Jan San San San San San San San San San S			Jabalpur Engineering College Jacalpur - 482 011 (M.P.)

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

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

					Maxim	um Marks	Allotted		100000000000000000000000000000000000000		c July 2018 let Hours Pe		7 2018)
S.No.	Subject	Category			Theory		Prac	tical	1 _ }	Conta	Ct Hours Pe	- week	-
5.190.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credit
I	MA401	BSC	Discrete Structure	70	20	10	-	-	100	3	1	_	4
2	CS402	PCC	Computer Organization and Architecture	70	20	10	30	20	150	3	-	2	4
3	CS403	PCC	Operating Systems	70	20	10	30	20	150	3	-	2	4
-4	CS404	PCC	Design and Analysis of Algorithms	70	20	10	30	20	150	3		2	4
5	CS405	PEC	Management-I (Organizational Behaviour/Finance & Accounting)	70	20	10	-		100	3	1		4
6	CS406	ESC	Software Lab-II (PYTHON)	-	-	-	60	40	100			2	1
7	CS407	MC	Industrial Training	Minimum	Four Weeks	Duration, 1	Evaluation v	vill be don	e in 5th seme	ester		-	
			Total	350	100	50	150	100	750	15	2	8	21
8	CS408	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		4
ISS/N	CC/Swacl	hhata Abhi	yan/Rural Outreach	Qualifier/	'_		<u>l</u>	··········					
			ours or Minor Specialization	specializat	non).		additional o	courses in	subject code	CS408 fc	or the award	of Honour:	s (Minor

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

2 Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

1 hou	r lecture (L) = 1 credit	1 hour Tutorial	(T) = 1 credit	2 hour Practical (P) = 1 credit
MOOC Courses	CS408A Privacy and Security in Online Social Media	CS408B Randomized Algorithms	CS408C Paratlel Algorithms	
,5	GOVT. ENGINEERING COLLEGE JABALPUR (M.P.)	- 15	na se	

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

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

					Maxim	um Marks	Allotted		Titted in Ju	-	t Hours Pe		2010)
S.No.	Subject	Category	Subject N		Theory		Prac	tical	1	Contac	Industry	- WEEK	1
	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	EE401	BSC	Engineering Materials	70	20	10	-	-	100	3	1	-	4
2	EE402	PCC	Electrical Machines-I	70	20	10	30	20	150	3		2	4
3	EE403	PCC	Power System-I	70	20	10	30	20	150	3		2	4
4	EE404	PCC	Electrical and Electronic Instrumentation	70	20	10	30	20	150	3	-	2	4
5	EE405	PEC	Electromagnetic Theory field Teor	70	20	10	-	-	100	3	1	-	4
6	EE406	ESC	Software Lab-II	-	-	-	60	40	100	-	*	2	1
7	EE407	MC	Industrial Training	Minimum	Four Weeks	Duration. I	Evaluation v	vill be don	e in 5th sem	ester			•
			Total	350	100	50	150	100	750	15	2	8	21
8	EE408	DI.C	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-		199	-		4
ISS/NO	CC/Swact			Qualifier/	_								
-			urs or Minor Specialization	pecianza	TOIL).	ximum two	additional	courses in	subject code	EE408 fo	r the award	of Honour	s (Minor

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

² Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

1 hou	r lecture (L) = 1 credit	1 hour Tutoria	al (T) = 1 credit	2 hour Practical (P) = 1 credit
MOOC Courses GOVT.	EE408A Bio Medical Signal Processing OFRINGIPAL ENGINEERING COLUMNS	EE408B Electronic Systems for Cancer Diagnosis	Advance Power Electronics and	EE408D Electromagnetic Waves in Guided and Wireless Medium
GOVT.	ENGINEERING COLLEGE JABALPUR (M.P.)	,	Stara	AR

(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)
(AICTE Model Curriculum Based Scheme)
Bachelor of Technology (B.Tech.) IV Semester (E&TC Engg.)

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

					Maxim	um Marks	Allotted			Contac	t Hours Pe	er Week	T
	Subject	Category			Theory		Prac	tical	Total				Total
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/- Assignme nt	End Sem.	Lab Work	Marks	L	Т	Р	Total Credits
1	EC401	PCC	Electromagnetic Theory	70	20	- 10	-	-	100	3	1	-	4
2	EC402	PCC	Analog Integrated Circuits	70	20	10	- 30	20	150	3		2	4
3	EC403	PCC	Digital Circuits & Systems	70	20	10	30	20	150	3	-	2	4
4	EC404	PCC ·	Analog Communication	70	20	10	30	20	150	3	-	2	4
5	EC405	PEC	Mobile Communication	70	20	10	-	-	100	3	1	-	4
6 1	EC406	ESC	Software Lab-II	-	-	-	60	40	100	-	-	2	1
7	EC407	МС	Industrial Training	M:nimum	Four Week:	s Duration.	Evaluation	will be aor	e in 5th sem	ester			, 1
			Tota	350	100	50	150	100	750	15	2	8	21
8	EC408	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	 		-	-	-	-	-	-	-	4
NSS/N	ICC/Swa	chhata Abh	iyan/Rural Outreach	Qualifier	/_					86		Accessor to the second second second	A
Additi	onal Cour	se for Hon	ours or Minor Specialization	Permitted Specialize	to opt for mation).	aximum tw	o additional	courses in	subject cod	e EC408 fo	or the awar	d of Honou	rs (Minor

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

² Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

l hour	lecture (L) = 1 credit	l hour Tutoria	al (T) = 1 credit	2 hour Practical (P) = 1 cred
MOOC Courses	EC408A Introduction to Acoustics	EC408B Principles of Electronics . Biosensors	EC408C Interfacing with Arduino	EC408D Smartphone Emerging Technology
PRINCIPAL	_ (1)	22	0	And the second s

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

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

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

						um Marks	Allotted			Conta	ct Hours P	er Week	T
S.No.	Subject	Category	5 11 1		Theory	•	Prac	tical	1		T	T	1
3.140,	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Total Marks	L	Т	P .	Total Credit:
1	IP401	PCC	Material Science & Metellurgy	70	20	10	-		100	3	1		4
2	IP402	PCC	Production Process	70	20	10	30	20	150	3	-	2	4
3	1P403	PCC	Theory of Machines & Mechanism	70	20	10	30	20	150	3	_	2	4
4	IP404	PCC	Fluid Mechanics	70	20	10	30	20	150	3		2	4
5	IP405	PEC	Machine Design	70	20	10			100	3	1	2.0	4
6	IP406	ESC	Software Lab-II			-	60	40	100			2	-
7	IP407	MC	Industrial Training	Minimum	Four Weeks	Duration.	Evaluation v	vill be don	e in 5th sem	ester		L	<u> </u>
			Total		100	50	150	100	750	15	2	98	21
8	IP408		Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-			-		-	<u> </u>	-	4
ISS/NC	'C/Swach	hata Abhiy	an/Rural Outreach	Qualifier									
ddition	nal Course	e for Honou	urs or Minor Specialization	Permitted Specializa	to opt for ma	iximum two	additional	courses in	subject code	IP408 for	the award	of Honours	(Minor

Departmental BOS will decide list of three optional subjects those are available in MOOC as well for PEC. Online courses under MOOC will be taken with

2 Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

1 hour lecture (L) = 1 credit

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

GOVT. ENGINEERING COLLEGE JABALPUR (M.P.)

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

S.No.	Subject	Category			Theory	um Marks	Tillotteu		mitted in Ju	Conta	et Hours P	er Week	7 2010)
	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme	Prac End Sem.		Total Marks	L	Т	P	Total Credit
1	MA401	BSC	Discrete Structure	70	20	10		Work			***************************************		
2	1T402	PCC	Analysis & Design of Algorithm	70	20		•	-	100	3	1	-	4
3	ГТ403	PCC	Computer Architecture			10	30	20	150	3	-	2	4
1	FF404		The state of the s	70	20	10	30	20	150	3	-	2	4
5	11405		Principles of Communication Structured System Analysis &	70	20	10	30	20	150	3	-	2	4
		PEC	Design	70	20	10	-	-	100	3	λ		***************************************
6	IT406	ESC	Software Lab-II				60	10	***************************************		1		4
7	IT407	MC I	ndustrial Training	Minimum	Four Weeks	Duration E		40	100	***	**************************************	2	1
L-St			Tota					ill be done	in 5th seme	ester			
8	FF408	DLC S	Self-Learning Presentation	330	100	50	150	100	750	15	2	08	21
SS/NC	CC/Swach	hata Abbiy	SWAYAM/NPTEL/MOOC) an/Rural Outreach		- 1	-	-	-	-	-	-	- 1	4
				Qualifier /	-								
dition	ial Course	for Honou	irs or Minor Specialization ill decide list of three optional subjeudd be apart from laboratory work up	Permitted to Specialization	opt for max on).	imum two	additional c	ourses in s	ubject code	1T408 for	the award	of Honours	(Minor

2 Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

		7	(T) = 1 credit	2 hour Practical (P) = 1 o
MOOC Courses	IT408A Configuring LINUX Web Servers	IT408B Two Speed IT: BCG Perspective	IT408C Portfolio Management.	
PRINCIPAL		A	Governance & the PMO	

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

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

					Maxim	um Marks	Allotted			Contac	t Hours Per	Week	
	Subject	Category			Theory		Prac	tical	Total				Total
S.No.	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	ME401	PCC	Machine Design-I	70	20	10	-	•	100	3	1	-	4
2	ME402	PCC	Fluid Mechanics	70	20	10	30	20	150	3	-	2	4
3	ME403	PCC	Machine Drawing & CAD	70	20	10	30	20	150	3	-	2	4
4	ME404	PCC	Theory of Machines& Mechanisms	70	20	10	30	20	150	3	-	2	4
5	ME405	PEC	Energy Conversion System	70	20	10	-	-	100	3	ŀ	_	4
6	ME406	ESC	Software Lab-II	-	-	-	60	40	100	-	-	2	1
7	ME407	МС	Industrial Training	Minimum	Four Week	s Duration.	Evaluation	will be dor	ne in 5th sem	nester	<u></u>		
-			Total	350	100	50	150	100	750	15	02	08	21
8	ME408	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-		-	•	-	***************************************	4
NSS/N	ICC/Swa	hhata Abh	iyan/Rural Outreach	Qualifier	_								
Additi	onal Cou	se for Hon	ours or Minor Specialization	Permitted Specializa	200 mm or 4 mm or 10 mm	aximum tw	o additional	courses in	subject cod	e ME408 f	or the award	l of Hono	urs (Minor

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

2 Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

1 ho	ur lecture (L) = 1 credit	1 hour Tutoria	2 hour Practical (P) = 1 credit		
MOOC Courses	ME408A Basics of Finite Element Analysis-I	ME408B Introduction to Machining and Machining Fluids	ME408C Stream and Gas Power Systems	ME408D Introduction to Research	
GOV	PAINCIPAL T. ENGINEERING COLLEGE JABALPUR (M.P.)		ha me	1	

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

(AICTE Model Curriculum Based Scheme)

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

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

			Subject Name	Maximum Marks Allotted						Contact Hours Per Week			
S NO. 1		Category Code		Theory			Practical		Total				Total
	Subject Code			End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	MT-401	PCC	Electronics Drives and Devices	70	20	10	-	-	100	3	1	-	4
2	MT-402	PCC	Manufacturing Processes	70	20	10	30	20	150	3	-	2	4
3	MT-403	PCC	Theory of Machines	70	20	10	30	20	150	3		2	4
4	MT-404	PCC	Microcontroller Theory and Design	70	20	10	30	20	150	3	-	2	4
5	MT-405	PEC	Linear Control Theory	70	20	10	-	-	100	3	1	-	4
6	MT-406	ESC	CAD and Kinematics SimulationLab	1-1-1-	-	-	60	40	100	-	-	2	1
7	MT-407	МС	Industrial Training	Minimum Four Weeks Duration. Evaluation will be done in 5th semester									
			Total	350	100	50	150	100	750	15	1	8	21
8	MT408	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:1 Departmental BOS will decide list of three optional subjects those are available in MOOC as well for PEC.

2 Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

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

MT408C MT408D MT408B MT408A MOOC/DLC **Enclosure Designof Electronics BioMEMS** and Microfluidics Introduction to Internet of Things Concept of Thermodynamics Courses Equipments

Dean (Academics Jabalpur Engineering Colle

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

Bachelor of Technology (B.Tech.) IV Semester (Artificial Intellligence & Data Science)

wef July 2022

				Maximum Markatti W.e.f. July 2022									
S.No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted Theory Practical					Contact Hours Per Week			T	
				End. Sem.	Mid Sem.	Quiz/ Assignme	End Sem.	Lab Work	Total Marks	L	т	P	Total Credits
1	MA401	BSC	Discrete Structure	70	20	nt 10	-	WORK	100	2			
2	A1402	PCC	Database Management System	70	20	10	30	20	150	3	1	-	4
3	AI403	PCC	Operating System	70	20	10	30	20	150	3		2	4
4	AI404	PCC	Introduction in Artificial Intelligence and Machine Learning	70	20	10	30	20	150	3	-	2	4
5	AI405	PCC	Microprocessor and Microcontroller	70	20	10	-	-	100	3	1	-	
6	AI406	ESC	Software Lab-II R-Programming	-	-	-	60	40	100	-	-	2	4
7	A1407	MC	Industrial Training	Minimum Four Weeks Duration. Evaluation will be done in 5th semester							1		
			Total	350	100	50	150	100	750	15	2		
8	AI408	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	8	8
NSS/NCC/Swachhata Abhiyan/Rural Outreach			Qualifier										
Additional Course for Honours or Minor Specialization Note:1 Departmental BOS will decide list of three optional subjections.						ee additiona	l courses in	n subject coo	le AI408 f	or the awar	d of Honou	ırs (Minor	

Note: 1 Departmental BOS will decide list of three optional subjects those are available in MOOC.

2 Industrial training should be apart from laboratory work undertaken in the college rather it should have industrial orientation and practical aspects/field work. Report to be submitted at the beginning of 5th semester and students have to give a presentation in the departement. Evaluation will be done in 5th semester.

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