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

(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2017-18 batch

					Maxim	um Marks	Allotted			Contact Hours Per Week			
	Subject Code		Subject Name	Theory Practical			tical	Total				Total	
S.No.		Category		End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	L T	P	Credits
1	CE601	PEC	Professional Elective-I	70	20	10	-	-	100	3	1	-	4
2	CE602	OEC	Open Elective-II	70	20	10	-	1	100	3		-	3
3	CE603	PCC	Structural Analysis-II	70	20	10	30	20	150	3	1 -	2	4
4	CE604	PCC	Structural Design and Drawing-II (Steel)	70	20	10	30	20	150	3	-	2	4
5	CE605	PCC	Environmental EnggI	70	20	10	30	20	150	3	-	2	4
6	CE606	PI	Minor Project			=	60	40	100	-		2	1
7	CE607	MC	Summer Industrial Training	Minimun	n Four Week	s Duration	(With Proje	ct Report).	Evaluation	will be dor	ne in 7th ser	nester	
			Tota	350	100	50	150	100	750	15	1	8	20
8	EC608	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	=	-	-	1	-	-	4
NSS/N	VCC/Swa	chhata Abh	iiyan/Rural Outreach	Qualifier									
Additi	ional Cou	rse for Hon	ours or Minor Specialization	Permitted Specializ			vo additiona		n subject co	de EC608 f	for the awar	d of Honor	ırs (Minor

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

2 Summer 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 7th semester and students have to give a presentation in the departement. Evaluation will be done in 7th semester.

	Professional Elective-I							
S.No.	Subject Code	Subject Name						
1	CE601A	Geographical Information System						
2	CE601B	Natural Disaster Mitigation and Management						
3	CE601C	Concrete Technology						

S.No.	Subject Code	Subject Name
1	CE602A	Basic Earthquake Engineering
2	CE602B	Waste Management
3	CE602C	Elements of FEM

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

Academic (M.P Jabalpur Engineering Colley
Jabalpur - Associates

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

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) VI Semester (Mechanical Engg.)

w.e.f. July 2017-18 batch

1000				Maximum Marks Allotted						Contact Hours Per Week			
			Subject Name	Theory			Prac	tical	Total				Total
S.No.	Subject Code	Category Code		End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Credit
1	ME601	PEC	Professional Elective - I	70	20	10	-	-	100	3	1	1 - 1	4
2	ME602	OEC	Open Elective-II	70	20	10	-	- 1	100	3	-	4 H	3
3	ME603	PCC	Heat & Mass Transfer	70	20	10	30	20	150	3	-	2	4
4	ME604	PCC	Metal Cutting & Machine Tools	70	20	10	30	20	150	3	-	2	4
5	ME605	PCC	Industrial Engineering & Management	70	20	10	30	20	150	3		2	4
6	ME606	PI	Minor Project	- 1	-	=	60	40	100	30.5	-	2	1
7	ME607	MC	Summer Industrial Training	Minimum	Four Week	s Duration	(With Proje	ct Report).	Evaluation	will be do	ne in 7th se	mester	
			Total	350	100	50	150	100	750	15	1	8	20
8	ME608	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-		-	-	-	-	-	-	-	4
NSS/N	NCC/Swa	chhata Abh	niyan/Rural Outreach	Qualifier									
Additi	ional Cou	rse for Hon	ours or Minor Specialization	A STATE OF THE PARTY OF	to opt for nocialization		vo additiona	l courses in	n subject co	de ME608	for the awa	rd of Hon	ours

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

2 Summer 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 7th semester and students have to give a presentation in the departement. Evaluation will be done in 7th semester.

	Professional Elective-I						
S.No.	Subject Code	Subject Name					
1	ME601A	Solid Mechanics					
2	ME601B	Alternate Automotive Fuels & Emission					
3	ME601C	Finite Element Method					

List of Open Elective Course - II							
S.No.	Subject Code	Subject Name					
1	ME602A	Power Plant Engineering					
2	ME602B	Intellectual Property Right					
3	ME602C	Advanced Materials					

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

Academic JEC, Jabalpur (M.P.)

Jabalpur Engineering Colleg. Jahalmur _ 100 011 /M D

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

(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2017-18 batch

	3-				Maxim	um Marks	Allotted			Contact Hours Per Week			
	Subject Code		Subject Name	Theory		Practical		Total				Total	
S.No.		Category		End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	EE601	PEC	Professional Elective - I	70	20	10	-		100	3	1	10-15	4
2	EE602	OEC	Open Elective-II	70	20	10	-	-	100	3	18 2 20		3
3	EE603	PCC	Microprocessor & Microcontroller	70	20	10	30	20	150	3	- 1	2	4
4	EE604	PCC	Switchgear & Protection	70	20	10	30	20	150	3		2	4
5	EE605	PCC	Power System Analysis	70	20	10	30	20	150	3	-	2	4
6	EE606	PI	Minor Project	-			60	40	100	- 1-	-	2	111
7	EE607	MC	Summer Industrial Training	Minimum	Four Week	s Duration	(With Project	ct Report).	Evaluation	will be dor	ne in 7th ser	nester	
			Total	350	100	50	150	100	750	15	1	8	20
8	EE608	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	<u>-</u> -	4
NSS/N	NCC/Swa	chhata Abh	iyan/Rural Outreach	Qualifier									
Additi	onal Cou	rse for Hon	ours or Minor Specialization	Permitted Specializa		aximum tw	o additional	courses ir	subject coc	le EE608 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 as well for PEC.

2 Summer 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 7th semester and students have to give a presentation in the departement. Evaluation will be done in 7th semester.

Professional Elective-I							
S.No.	Subject Code	Subject Name					
1	EE601A	Computer Aided Design of Electrical Machines					
2	EE601B	Wind & Solar Energy Systems					
3	EE601C	Control System Design					

List of Open Elective Course - II							
S.No.	Subject Code	Subject Name					
1	EE602A	Signal & System					
2	EE602B	Power Plant Engineering					
3	EE602C	Electrical & Hybrid Vehicles					

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

Academic Principal JEC, Jabalpur (M.P. Jabalpur Engineering College

Jabalpur - 482 011 (M.P.)

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

(AICTE Model Curriculum Based Scheme)

Bachelor of Technology (B.Tech.) VI Semester (E&TC Engg.)

w.e.f. July 2017-18 batch

				of Misself	Maxim	um Marks	Allotted		1635-1656	Contact Hours Per Week			
	C. Line		Subject Name	Theory		Practical		Total				Total	
S.No.	Subject Code	Category		End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	T	T P	Credits
1	EC601	PEC	Professional Elective - I	70	20	10		- 1	100	3	1	- 1	4
2	EC602	OEC	Open Elective-II	70	20	10		- 3	100	3			3
3	EC603	PCC	Linear Control Theory	70	20	10	30	20	150	3	3 12	2	4
4	EC604	PCC	Digital Signal Processing	70	20	10	30	20	150	3	-	2	4
5	EC605	PCC	Microwave & RADAR Engg.	70	20	10	30	20	150	3	-	2	4
6	EC606	PI	Minor Project	-		-	60	40	100	-	-	2	1
7	EC607	MC	Summer Industrial Training	Minimum	Four Week	s Duration	(With Proje	ct Report).	Evaluation	will be dor	ne in 7th ser	nester	
			Total	350	100	50	150	100	750	15	1	8	20
8	EC608	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	# <u>-</u>	-	-	- -	-	-	-	Ī	-	4
NSS/N	ICC/Swa	chhata Abh	iyan/Rural Outreach	Qualifier									
			ours or Minor Specialization	Specializa	ation).				subject cod	le EC608 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 as well for PEC.

2 Summer 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 7th semester and students have to give a presentation in the departement. Evaluation will be done in 7th semester.

Professional Elective Course-I						
S.No.	Subject Code	Subject Name				
1	EC601A	Data Communication				
2	EC601B	Wireless Communication				
3	EC601C	Mobile Standards				

	List of Open Elective Course - II							
S.No.	Subject Code	Subject Name						
1	EC602A	Satellite Communication						
2	EC602B	Simulation & Modeling						
3	EC602C	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

Jabalpur Engineering College

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

(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2017-18 batch

	7.3-5.4			Service Process	Maxim	ım Marks	Allotted			Contac	t Hours Pe	er Week	
					Theory		Prac	tical	Total				Total
S.No.	Code	Category Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	CS601	PEC	Professional Elective - I	70	20	10			100	3	1	-	4
2	CS602	OEC	Open Elective-II	70	20	10			100	3			3
3	CS603	PCC	Software Engineering	70	20	10	30	20	150	3		2	4
4	CS604	PCC	Machine Learning	70	20	10	30	20	150	3		2	4
5	CS605	PCC	Computer Networks	70	20	10	30	20	150	3		2	4
6	CS606	PI	Minor Project		-	-	60	40	100	-	-	2	1
7	CS607	MC	Summer Industrial Training	Minimum	Four Week	s Duration	(With Proje	ct Report).	Evaluation '	will be dor	ne in 7th sen	nester	
			Total	350	100	50	150	100	750	15	1	8	20
8	CS608	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-		-	-	4
NSS/N	ICC/Swa	chhata Abh	iyan/Rural Outreach	Qualifier									
Additi	onal Cou	rse for Hon	ours or Minor Specialization	Permitted Specializa		aximum tw	o additional	l courses ir	n subject cod	le CS608 f	or the award	d of Honou	rs (Minor

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

2 Summer 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 7th semester and students have to give a presentation in the departement. Evaluation will be done in 7th semester.

Professional Elective-I								
S.No.	Subject Code	Subject Name						
1	CS601A	Image Processing						
2	CS601B	Parallel Computing						
3	CS601C	Robotics						

THE REAL PROPERTY.	List of Open Elective Course - II							
S.No.	Subject Code	Subject Name						
1	CS602A	Wireless Sensor Networks						
2	CS602B	Mobile Computing						
3	CS602C	Microprocessor						

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

Academic M.P.)

Principal
Jabalpur Engineering Colleg
Jabalpur - 482 011 (M.P.)

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

(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2017-18 batch

	- 10				Maxim	um Marks	Allotted			Contac	t Hours Pe	r Week	
					Theory		Prac	tical	Total				Total
S.No.	Code	Category Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	IT601	PEC	Professional Elective - I	70	20	10	-	3 - S	100	3	1	E - #	4
2	IT602	OEC	Open Elective-II	70	20	10	-	3 A-	100	3	-	- JA	3
3	IT603	PCC	Object Oriented Analysis and Design	70	20	10	30	20	150	3		2	4
4	IT604	PCC	Software Engineering	70	20	10	30	20	150	3	-	2	4
5	IT605	PCC	Internet and Web Technology	70	20	10	30	20	150	3		2	4
6	IT606	PI	Minor Project	-	-		60	40	100	-	-	2	1
7	IT607	MC	Summer Industrial Training	Minimum	Four Week	s Duration	(With Proje	ct Report).	Evaluation	will be don	e in 7th sen	nester	
			Total	350	100	50	150	100	750	15	1	8	20
8	IT608	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-	-	4
NSS/N	ICC/Swa	chhata Abh	iyan/Rural Outreach	Qualifier									
Marke W			ours or Minor Specialization	Specializa	ation).				subject cod	e IT608 fo	r the award	of Honou	rs (Minor

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

2 Summer 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 7th semester and students have to give a presentation in the department. Evaluation will be done in 7th semester.

Professional Elective-I							
S.No.	Subject Code	Subject Name					
1	IT601A	Information Theory and Coding					
2	IT601B	E-Commerce and E-Governance					
3	IT601C	Artificial Intelligance					

	List of Open Elective Course - II							
S.No.	Subject Code	Subject Name						
1	IT602A	Microprocessor and Interfacing						
2	IT602B	Intellectual Property Rights						
3	IT602C	Digital Signal and Image Processing						

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

Academic Academic JEC, Jabalpur (M.P

Fincipal balpur Engineering Colley

Jahaham A29 M11 (M D)

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

(AICTE Model Curriculum Based Scheme)

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

w.e.f. July 2017-18 batch

	3.4			Alek S		Maxim	um Marks	Allotted			Contac	t Hours Pe	er Week	
					Y BEE	Theory		Prac	tical	Total				Total
S.No.	Code	Category Code	Subject Name		End. Sem.	Mid Sem. Exam.	Quiz/ Assignme nt	End Sem.	Lab Work	Marks	L	Т	P	Credits
1	IP601	PEC	Professional Elective - I		70	20	10	- 1		100	3	1	-13	4
2	IP602	OEC	Open Elective-II		70	20	10	- 101		100	3		= - -	3
3	IP603	PCC	Operations Research		70	20	10	30	20	150	3	1	2	4
4	IP604	PCC	Manufacturing Technology		70	20	10	30	20	150	3		2	4
5	IP605	PCC	Turbo Machines		70	20	10	30	20	150	3		2	4
6	IP606	PI	Minor Project			-	-	60	40	100	-	-	2	1
7	IP607	MC	Summer Industrial Training	N	/linimum	Four Week	s Duration	(With Project	ct Report).	Evaluation	will be dor	ne in 7th se	mester	
			To	otal	350	100	50	150	100	750	15	1	8	20
8	IP608	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)			-	-	-	-	-	<u>-</u>	-	-	4
NSS/N	ICC/Swa	chhata Abh	iyan/Rural Outreach	C	Qualifier									
			ours or Minor Specialization	(1	Minor Sp	ecialization).	o additional		subject coo	le ME608	for the awa	ard of Hono	ours

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

2 Summer 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 7th semester and students have to give a presentation in the department. Evaluation will be done in 7th semester.

	Professional Elective-I								
S.No.	Subject Code	Subject Name							
1	IP601A	Operations Management							
2	IP601B	Strategic Management							
3	IP601C	Quality Engineering							

S.No.	Subject Code	Subject Name
1	IP602A	Applied Thermodynamics
2	IP602B	IPR
3	IP602C	Product Design & Development

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 Colles Jabalpur - 482 011 (M.P.)

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

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

					Maxi	num Marks Allo	ntted		W.0.			Per Week	
S.No	Subject	Category	Subject		Theor			ctical	Total	Comaci	Hours	rer week	Total
5.140	Code	Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work	Marks	L	Т	P	Credits
5	AI601	PEC	Elective I	70	20	10	-	-	100	3	1		4
5	A1602	OEC	Elective II	70	20	10	-	-	100	3	-		3
1	AI603	PCC	Complier Design	70	20	10	30	20	150	3	-	2	
3	A1604	PCC	Internet of Things(I.O.T)	70	20	10	30	20	150	3	-	2	4
2	AI605	PCC	Robotics Technology	70	20	10	30	20	150	3	-		4
6	A1606	Pl	Minor Project-I	_	-	-	60	40	100	3	-	2	4
7	AI 607	MC	Industrial Training	Minim	um Four We	ek Duration Ind	ustrial Tr	aining (w	ith project	Report)	will be	done at	the end of
			Total	350	100	h semester. Eva				100	semeste		
8	A1608	DLC	SWAYAM/NPTEL/MOOC	- 350	- 100	50	150	100	750	15	1	- 8	8
NSS/	NCC/Swa	chhata Abl	niyan/Rural Outreach	Qualifie	er/-		l	L		L			
			nours or Minor Specialization	Honour	s (Minor Sp	maximum three ecialization).			in subject	t code AI	608 for	the awar	d of

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

	Professional Elective Courses I									
S.N0	Subject Code Subject Name									
1	A1601A	Applications of AI								
2	AI601B	Optimization Methods in AI								
3	AI601C	Information Retrieval								

	Open E	lective Courses II
S.No.	Subject Code	Subject Name
1	AI602A	Economics & Social issues
2	AI602B	Software Engineering
3	AI602C	Quantum Computing

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

1 hc	our 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	f HOD/Coordinator

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

Dean (Academics)
Jabalpur Engineering College
Jabalpur (M.P.)

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

(AICTE Model Curriculum Based Scheme)

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

				Maximum Marks Allotted				Contact Hours Per Week					
Subject Category		Catamin		Theory			Practical		1	Contact Hours		Per Week	1
S.No.	Code	Category Code	Subject Name	End. Sem.	Mid Sem. Exam.	Quiz/ Assign ment	End Sem.	Lab Work	Total Marks	L	Т	P	Total Credits
1	MT601	PEC	Professional Elective I	70	20	10	-	-	100	3	1	-	4
2	MT602	OEC	Open Elective II	70	20	10	-	-	100	3	-	-	3
3	MT603	PCC	Fluid Mechanics and Heat Transfer	70	20	10	30	20	150	3	-	2	4
4	MT604	PCC	Data Communication & Computer Network	70	20	10	30	20	150	3	-	2	4
5	MT605	PCC	Robotics & Automation	70	20	10	30	20	150	3	-	2	4
6	MT606	PI	Minor Project	-	-	-	60	40	100		-	2	1
7	MT607	MC	Industrial Training	Minimum Four Weeks Duration (With Project Report). Evaluation will be done in 7t semester						ne in 7th			
			Total	350	100	50	150	100	750	15	1	8	20
8	MT608		SWAYAM/MOOC/NPTEL	-		-	-	-		-	_	-	8
NSS/N	CC/Swac	hhata Abhi	yan/Rural Outreach	Qualifie	er / -								
	-		ours or Minor Specialization	award c	ed to op	t for max	rimum tl	hree add	itional co	ourses in	subject co	de MT60	3 for the

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

2 Summer 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 7th semester and students have to give a presentation in the departement. Evaluation will be done in 7th semester.

		Professional Elective-1
S.No.	Subject Code	Subject Name
1	MT601 A	EV & HV Technology
2	MT601 B	Dyanamics of Machinery
3	MT601 C	Power Plant Engineering

Open Elective-II					
S.No.	Subject Code	Subject Name			
1	MT602 A	Mechatronics Systems Design			
2	MT602 B	Industrial Engg			
3	MT602 C	Power Electronics			

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

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

Dean (Academics) Jabalpur Engineering College Jabalpur (M.P.)