

**Jabalpur Engineering College, Jabalpur**  
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)  
(AICTE Model Curriculum Based Scheme)  
Bachelor of Technology (B.Tech.) VI Semester (Civil Engineering)

w.e.f. July 2023

w.e.f. July 2023													
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	CE61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	CE62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	CE63	PCC	Structural Analysis-II	70	20	10	30	20	150	3	-	2	4
4	CE64	PCC	Structural Design & Drawing-II (Steel)	70	20	10	30	20	150	3	-	2	4
5	CE65	PCC	Environmental Engineering-I	70	20	10	30	20	150	3	-	2	4
6	CE66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	CE67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	CE68	MC	NSS/NCC/Swachhata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code CE67 for the award of Honours (Minor Specialization).									

**Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC, OEC as well for PEC.

02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	CE61A	Geographical Information System
2	CE61B	Natural Disaster Mitigation and Management
3	CE61C	Pre-Stressed Concrete Structure Design

1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	CE62A	Advanced Water Resource Engineering
2	CE62B	Waste Management
3	CE62C	Elements of FEM

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PCC: Professional Core Course, PI: Project and Internship, DLC: Distance Learning Course, MC: Mandatory Course

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**Jabalpur Engineering College, Jabalpur**  
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)  
(AICTE Model Curriculum Based Scheme)  
**Bachelor of Technology (B.Tech.) VI Semester (Mechanical Engineering)**

w.e.f. July 2023

w.e.f. July 2023

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	ME61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	ME62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	ME63	PCC	Heat and Mass Transfer	70	20	10	30	20	150	3	-	2	4
4	ME64	PCC	Metal Cutting & Machine Tools	70	20	10	30	20	150	3	-	2	4
5	ME65	PCC	Industrial Engineering	70	20	10	30	20	150	3	-	2	4
6	ME66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	ME67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	ME68	MC	NSS/NCC/Swathchata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code ME67 for the award of Honours (Minor Specialization).									

**Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC, OEC as well for PEC.

02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	ME61A	Mechanics of Materials-II
2	ME61B	Robotic Engineering
3	ME61C	Finite Element Method

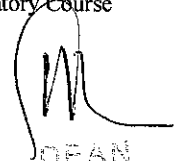
1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	ME62A	Power Plant Engineering
2	ME62B	Intellectual Property Right
3	ME62C	Automotive Fuels & Emission

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PCC: Professional Core Course, PI: Project and Internship, DLC: Distance Learning Course, MC: Mandatory Course

  
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**Jabalpur Engineering College, Jabalpur**  
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(AICTE Model Curriculum Based Scheme)  
Bachelor of Technology (B.Tech.) VI Semester (Electrical Engineering)

w.e.f. July 2023

W.E.T. July 2023

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	EE61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	EE62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	EE63	PCC	Microprocessor & Microcontroller	70	20	10	30	20	150	3	-	2	4
4	EE64	PCC	Power Electronics-II	70	20	10	30	20	150	3	-	2	4
5	EE65	PCC	Modern Power System	70	20	10	30	20	150	3	-	2	4
6	EE66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	EE67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	EE68	MC	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code EE67 for the award of Honours (Minor Specialization).									

- Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC, OEC as well for PEC.  
02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.  
03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	EE61A	Electrical & Hybrid Vehicles
2	EE61B	Fundamental of Robotics
3	EE61C	Advanced Digital Signal Processing

1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	EE62A	Engineering Economics and Management
2	EE62B	Digital Image Processing
3	EE62C	Data Structure

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

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**Bachelor of Technology (B.Tech.) VI Semester (Electronics & Tele Communication Engineering)**

w.e.f. July 2023

w.e.t. July 2023

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	EC61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	EC62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	EC63	PCC	Digital Signal Processing	70	20	10	30	20	150	3	-	2	4
4	EC64	PCC	Analog & Digital VLSI Design	70	20	10	30	20	150	3	-	2	4
5	EC65	PCC	Microwave & Radar Engg.	70	20	10	30	20	150	3	-	2	4
6	EC66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	EC67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	EC68	MC	NSS/NCC/Swathhata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code EC67 for the award of Honours (Minor Specialization).									

**Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC, OEC as well for PEC.

02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	EC61A	Data Comm. & Computer N/W
2	EC61B	Satellite Communication
3	EC61C	Mobile Standards

1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	EC62A	Wireless Communication
2	EC62B	Information Theory & Coding
3	EC62C	Robotics

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

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

w.e.f. July 2023

w.e.f. July 2023

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	CS61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	CS62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	CS63	PCC	Computer Networks	70	20	10	30	20	150	3	-	2	4
4	CS64	PCC	Software Engineering	70	20	10	30	20	150	3	-	2	4
5	CS65	PCC	Cryptography and Network Security	70	20	10	30	20	150	3	-	2	4
6	CS66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	CS67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	CS68	MC	NSS/NCC/Swathchata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code CS67 for the award of Honours (Minor Specialization).									

**Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC, OEC as well for PEC.

02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	CS61A	Data Center Management
2	CS61B	Parallel Computing
3	CS61C	Blockchain Technologies

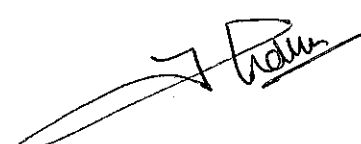
1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	CS62A	Image Processing
2	CS62B	Mobile Computing
3	CS62C	Robotics

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

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

w.e.f. July 2023

w.e.r. July 2023

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	IT61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	IT62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	IT63	PCC	Network Management	70	20	10	30	20	150	3	-	2	4
4	IT64	PCC	Data Mining	70	20	10	30	20	150	3	-	2	4
5	IT65	PCC	Cloud Computing	70	20	10	30	20	150	3	-	2	4
6	IT66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	IT67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	IT68	MC	NSS/NCC/Swachhata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code IT67 for the award of Honours (Minor Specialization).									

**Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC,OEC as well for PEC.

02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	IT61A	Information Theory and Coding
2	IT61B	E-Commerce and E-Governance
3	IT61C	Artificial Intelligence

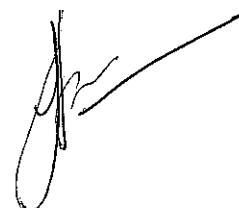
1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	IT62A	Microprocessor and Interfacing Coding
2	IT62B	Intellectual Property Rights-Governance
3	IT62C	Digital Signal and Image Processing

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PCC: Professional Core Course, PI: Project and Internship, DLC: Distance Learning Course, MC: Mandatory Course



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

w.e.f. July 2023

w.e.f. July 2023

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	IP61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	IP62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	IP63	PCC	Operations Research	70	20	10	30	20	150	3	-	2	4
4	IP64	PCC	Manufacturing Technology	70	20	10	30	20	150	3	-	2	4
5	IP65	PCC	Turbo Machines	70	20	10	30	20	150	3	-	2	4
6	IP66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	IP67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	IP68	MC	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code IP67 for the award of Honours (Minor Specialization).									

**Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC, OEC as well for PEC.

02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	IP61A	Operation Management
2	IP61B	Industrial Psychology & Human Behaviour
3	IP61C	Finite Element Methods

1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	IP62A	Applied Thermodynamics
2	IP62B	IPR (Intellectual Property Right)
3	IP62C	Product Design and Development

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

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**Jabalpur Engineering College, Jabalpur**  
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**Bachelor of Technology (B.Tech.) VI Semester (Artificial Intelligence & Data Science)**

w.e.f. July 2023

w.e.f. July 2023

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	AI61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	AI62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	AI63	PCC	Compiler Design	70	20	10	30	20	150	3	-	2	4
4	AI64	PCC	Internet of Things (I.O.T.)	70	20	10	30	20	150	3	-	2	4
5	AI65	PCC	Robotics Technology	70	20	10	30	20	150	3	-	2	4
6	AI66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	AI67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	AI68	MC	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code AI67 for the award of Honours (Minor Specialization).									

**Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC, OEC as well for PEC.

02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	AI61A	Application of AI
2	AI61B	Optimization Methods in AI
3	AI61C	Information Retrieval

1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	AI62A	Economics & Social Issues
2	AI62B	Software Engineering
3	AI62C	Quantum Computing

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PCC: Professional Core Course, PI: Project and Internship, DLC: Distance Learning Course, MC: Mandatory Course

*AL-12*

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**Jabalpur Engineering College, Jabalpur**  
(Declared Autonomous by MP Govt., Affiliated to RGPV, Bhopal)  
(AICTE Model Curriculum Based Scheme)  
**Bachelor of Technology (B.Tech.) VI Semester (Mechatronics Engineering)**

w.e.f. July 2023

w.e.f. July 2023

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	MT61	PEC	Professional Elective Course-II	70	20	10	-	-	100	3	1	-	4
2	MT62	OEC	Open Elective Course-I	70	20	10	-	-	100	3	1	-	4
3	MT63	PCC	Industry 4.0	70	20	10	30	20	150	3	-	2	4
4	MT64	PCC	Data Communication & Computer Networks	70	20	10	30	20	150	3	-	2	4
5	MT65	PCC	Robotics and Automation	70	20	10	30	20	150	3	-	2	4
6	MT66	PI	Minor Project	-	-	-	60	40	100	-	-	4	2
7		MC	Industrial Training	Minimum Four weeks Duration. Evaluation will be done in 7th semester.									
Total				350	100	50	150	100	750	15	2	10	22
8	MT67	DLC	Self-Learning Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	-	-	-		8
9	MT68	MC	NSS/NCC/Swatchhata Abhiyan/Rural Outreach	Qualifier									
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum 8 credits against additional MOOC courses in subject code MT67 for the award of Honours (Minor Specialization).									

**Note:** 01. Departmental BOS will decide list of three/four optional subjects those are available in MOOC, OEC as well for PEC.

02. MOOC/NPTEL subjects shall be taken with permission of HOD/Coordinator.

03. 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 Course-II		
S.No.	Subject Code	Subject Name
1	MT61A	Automobile Engineering
2	MT61B	Dynamics of Machines
3	MT61C	Heat and Mass Transfer

1 hour lecture (L) = 1 credit

Open Elective Course-I		
S.No.	Subject Code	Subject Name
1	MT62A	Data Analytics
2	MT62B	Industrial Management
3	MT62C	Industrial Electronics

1 hour Tutorial (T) = 1 credit

2 hour Practical (P) = 1 credit

PEC: Professional Elective Course, OEC: Open Elective Course, PCC: Professional Core Course, PI: Project and Internship, DLC: Distance Learning Course, MC: Mandatory Course

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DEAN  
Academic  
JEC, Jabalpur (M.P.)