Established under the Sarala Birla University Act 2017 Govt. of Jharkhand as per Section 2(f) of UGC Act. 1956

CURRICULUM
FOR

B.Tech

in
Mechanical Engineering

(Based on UGC & AICTE- CBCS)

Effective from 2021-22

Definition of Credit

1 Hr. Lecture (L) Per Week	1 Credit
1 Hr. Tutorial (T) Per Week	1 Credit
1 Hr. Practical (P) Per Week	0.5 Credit
2 Hr. Practical (P) Per Week	1 Credit

Course Code Definitions

Course code	Definitions
BSC	Basic Science Course
ESC	Engineering Science Course
HSMC	Humanities and Social Sciences including Management Course
MC	Mandatory Course
PCC-ME	Professional Core Course
PEC-ME	Professional Electives Course
OEC-ME	Open Electives Course
MOOC'S	Massive Open Online Courses
ME-P1	Project Stage-I
ME-P2	Project Stage-II
ME-P3	Project Stage-III

(Breakup of Credits)		
Sl. No.	**Category**	**Breakup of Credits**
1	Humanities and Social Sciences including Management courses	12
2	Basic Science courses	23
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	33
4	Professional core courses	57
5	Professional Elective courses relevant to chosen specialization/branch	35
6	Open subjects – Electives from other technical and /or emerging subjects	13
7	Project work, seminar and internship in industry or elsewhere	16
9	Mandatory Courses [Environmental Sciences, Induction Program, Indian Constitution, Essence of Indian Traditional Knowledge]	2
Total Credits:		**191**

CREDITS DISTRIBUTION (SEMESTER-WISE AND COURSE-WISE)

Semester	HSMC	BSC	ESC	PCC	PEC	OEC	PROJECT	MC	Total Credit Semester-wise
1st	3	9.5	13	0	0	0	0	0	25.5
2nd	3	9.5	13	0	0	0	0	2	27.5
3rd	2	4	5	10	0	4	0	0	25
4th	4	0	0	19	0	0	0	0	23
5th	0	0	0	15	0	9	0	0	24
6th	0	0	2	9	13	0	2	0	26
7th	0	0	0	4	10	0	5	0	19
8th	0	0	0	0	12	0	9	0	21
Total Credit Course-wise	12	23	33	57	35	13	16	2	191
Total Credit									191

HUMANITIES & SOCIAL SCIENCES INCLUDING MANAGEMENT COURSES

Sl. No.	Course Code	Course Title	Hours per week			Credits	Preferred Semester
			L	T	P		
1	HSMC-101	English	3	0	0	3	I
2	HSMC-102	Technical Communication	2	0	0	2	II
3	HSMC-103	Technical Communication Lab	0	0	2	1	II
4	HSMC-104	French Through Communicative Approach-I	2	0	0	2	III
5	HSMC-105	French Through Communicative Approach-II	2	0	0	2	IV
6	HSMC-106	Organisational Behaviour	2	0	0	2	IV
				Total Credit:		**12**	

BASIC SCIENCE COURSES

Sl. No.	Course Code	Course Title	Hours Per Week			Credits	Preferred Semester
			L	T	P		
1	BSC-101	Chemistry	3	1	0	4	I
2	BSC-102	Chemistry Lab	0	0	3	1.5	I
3	BSC-103	Physics	3	1	0	4	II
4	BSC-104	Physics Lab	0	0	3	1.5	II
5	BSC-105	Mathematics-I	3	1	0	4	I
6	BSC-106	Mathematics-II	3	1	0	4	II
7	BSC-107	Mathematics-III	3	1	0	4	III
			Total Credit:			**23**	

ENGINEERING SCIENCE COURSES

Sl. No.	Course Code	Course Title	Hours Per Week			Credits	Preferred Semester
			L	T	P		
1	ESC-101	Basic Electrical	3	1	0	4	I
2	ESC-102	Basic Electrical Lab	0	0	2	1	I
3	ESC-103	Introduction to Unix & C Programming	3	1	0	4	I
4	ESC-104	Introduction to Unix & C Programming Lab	0	0	2	1	I
5	ESC-105	Engineering Graphics & Design	1	0	4	3	I
6	ESC-106	Basic Electronic	3	1	0	4	II
7	ESC-107	Basic Electronic Lab	0	0	2	1	II
8	ESC-108	Data Structure	3	1	0	4	II
9	ESC-109	Data Structure Lab	0	0	2	1	II
10	ESC-110	Engineering Workshop Practices	1	0	4	3	II
11	ESC-111	Engineering Mechanics	3	1	0	4	III
12	ESC-112	Programming using MATLAB	0	0	2	1	III
13	ESC-113	Python Programming	1	0	2	2	VI
Total Credit						**33**	

Professional Core Courses(Sem-III & IV)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	PCC-ME-201	Thermodynamics	3:01:00	4	III/IV
2	PCC-ME-202	Thermal Engineering Lab	0:00:02	1	III/IV
3	PCC-ME-203	Engineering Metrology	3:01:00	4	III/IV
4	PCC-ME-204	Production Technology	3:01:00	4	III/IV
5	PCC-ME-205	Basic Mechanical Engineering Lab	0:00:02	1	III/IV
6	PCC-ME-206	Material Engineering	3:01:00	4	III/IV
7	PCC-ME-207	Material Testing Lab	0:00:02	1	III/IV
8	PCC-ME-208	Strength of Material	3:01:00	4	III/IV
9	PCC-ME-209	Strength of Material Lab	0:00:02	1	III/IV
10	PCC-ME-210	Fluid Mechanics & Fluid Machine	3:01:00	4	III/IV
11	PCC-ME-211	Fluid Mechanics Lab	0:00:02	1	III/IV
12	PCC-ME-212	Applied Thermodynamics	3:01:00	4	III/IV
			Total Credit:	**33**	

Professional Core Courses(Sem-V & VI)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	PCC-ME-301	Heat Transfer	3:01:00	4	V/VI
2	PCC-ME-302	Heat Transfer Lab	0:00:02	1	V/VI
3	PCC-ME-303	Manufacturing Process	3:01:00	4	V/VI
4	PCC-ME-304	Production Practice Lab	0:00:02	1	V/VI
5	PCC-ME-305	Theory of Machines	3:01:00	4	V/VI
6	PCC-ME-306	Theory of Machines Lab	0:00:02	1	V/VI
7	PCC-ME-307	Design of Machine Elements	3:01:00	4	V/VI
8	PCC-ME-308	Design of Machine Elements Lab	0:00:02	1	V/VI
9	PCC-ME-309	Dynamics of Machines	3:01:00	4	V/VI
			Total Credit:	**24**	

Professional Core Courses(Sem-VII& VIII)

Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	PCC-ME-401	Automation in Manufacturing	3:01:00	4	VII/VIII

Professional Elective Courses (Sem V & VI)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits	Preferred Semester
1	PEC-ME-301	Internal Combustion Engines	3:01:00	4	V/VI
2	PEC-ME-302	Automobile Engineering	3:01:00	4	V/VI
3	PEC-ME-303	Automobile Engineering Lab	0:00:02	1	V/VI
4	PEC-ME-304	Operation Research	3:01:00	4	V/VI
5	PEC-ME-305	Mechatronic Systems	3:01:00	4	V/VI
6	PEC-ME-306	Microprocessors in Automation	3:01:00	4	V/VI
7	PEC-ME-307	Composite Materials	3:01:00	4	V/VI

Professional Elective Courses (Sem VII & VIII)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits	Preferred Semester
1	PEC-ME-401	Refrigeration & Air Conditioning	3:01:00	4	VII/VIII
2	PEC-ME-402	Refrigeration & Air Conditioning Lab	0:00:02	1	VII/VIII
3	PEC-ME-403	Computer Aided Design	3:01:00	4	VII/VIII
4	PEC-ME-404	Computer Aided Design Lab	0:00:02	1	VII/VIII
5	PEC-ME-405	Power Plant Engineering	3:01:00	4	VII/VIII
6	PEC-ME-406	Gas Dynamics & Jet Propulsion	3:01:00	4	VII/VIII
7	PEC-ME-407	Total Quality Management	3:01:00	4	VII/VIII
8	PEC-ME-408	Design of Transmission Systems	3:01:00	4	VII/VIII
9	PEC-ME-409	Energy Conservation & Management	3:01:00	4	VII/VIII
10	PEC-ME-410	Finite Element Analysis	3:01:00	4	VII/VIII
11	PEC-ME-411	Process Planning & Cost Estimation	3:01:00	4	VII/VIII

Open Elective Courses

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits
1	OEC-CSE-301	Machie Learing for Real-World Applications	3:01:00	4
2	OEC-EEE-305	Renewable Energy	3:01:00	4
3	OEC-EEE-306	Renewable Energy Lab	0:00:02	1
4	OEC-101	Economics	3:01:00	4
5	OEC-102	Sanskrit	4:01:00	4

Project Work

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs. /Week L: T: P	Credits	Preferred Semester
1	ME-P1	Project Stage-I (Mini Project/ Industrial Training)	0:00:04	2	VI
2	ME-P2	Project Stage-II (Minor Project) **(To be continued in next semester)**	0:00:10	5	VII
3	ME-P3	Project Stage-III (Major Project Work & Dissertation)	0:00:18	9	VIII
			Total Credit:	**16**	

Mandatory Courses

Sl. No.	Course Code	Course Title	Hours per week			Credits	Preferred Semester
			L	T	P		
1	MC-101	Induction Programme	0	0	0	0	I
2	MC-102	Environmental Science	2	0	0	2	IV
3	MC-103	Values & Ethics	2	0	0	0	IV
4	MC-104	PDP-I	2	0	0	0	I
5	MC-105	PDP-II	2	0	0	0	II
6	MC-106	PDP-III	2	0	0	0	III
7	MC-107	PDP-IV	2	0	0	0	IV
8	MC-108	PDP-V	2	0	0	0	V
9	MC-109	PDP-VI	2	0	0	0	VI
10	MC-110	PDP-VII	2	0	0	0	VII
11	MC-111	PDP-VIII	2	0	0	0	VIII
12	MC-112	PT & Games/NSS/NCC-I	0	0	0	0	I
13	MC-113	PT & Games/NSS/NCC-II	0	0	0	0	II
14	MC-114	Vedic Mathematics-I	2	0	0	0	VI
15	MC-115	Vedic Mathematics-II	2	0	0	0	VII
					Total Credit:	**2**	

Note. **PDP: Personality Devlopment Program**
PT: Physical Traning
NSS: National Service Scheme
NCC: National Cadet Corps

Massive Open Online Courses

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Course Code	Course Title	Hrs./ Week L: T: P	Credits
1	MOOCs -101	Artificial Intelligence for Real-World Application	3:01:00	4
2	MOOCs -102	Applications of Deep Learning & Neural Networks	3:01:00	4
3	MOOCs -103	Usability Design of Software Applications	3:01:00	4
4	MOOCs -104	Applied Cloud Computing	3:01:00	4
5	MOOCs -105	Information Security - Practitioner's Perspective	3:01:00	4
6	MOOCs -106	Innovation & Entrepreneurship	3:01:00	4
7	MOOCs -107	Practical Approach to Data Mining & Analytics	3:01:00	4
8	MOOCs -108	IoT & its Applications	3:01:00	4
9	MOOCs -109	Intelligent Game Design & its Applications	3:01:00	4
10	MOOCs -110	Industrial Mechatronic Systems	3:01:00	4
11	MOOCs -111	Solar Energy Technology & its Applications	3:01:00	4

Note: A student will be eligible to get Under Graduate degree with Honours or additional Minor Engineering, if he/she completes an additional 20 credits. These could be acquired through MOOCs.

COURSE STRUCTURE

SEMESTER I (1st YEAR)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-101	Chemistry	3	1	0	4	30	70	100
2	Basic Science Course	BSC-105	Mathematics-I	3	1	0	4	30	70	100
3	Engineering Science Course	ESC-101	Basic Electrical	3	1	0	4	30	70	100
4	Engineering Science Course	ESC-103	Introduction to Unix & C Programming	3	1	0	4	30	70	100
5	Humanities and Social Sciences including Management Course	HSMC-101	English	3	0	0	3	30	70	100
						Total(A)	**19**	**150**	**350**	**500**
Practical/Drawing/Design										
1	Engineering Science Course	ESC-105	Engineering Graphics & Design	1	0	4	3	30	20	50
2	Basic Science Course	BSC-102	Chemistry Lab	0	0	3	1.5	30	20	50
3	Engineering Science Course	ESC-102	Basic Electrical Lab	0	0	2	1	30	20	50
4	Engineering Science Course	ESC-104	Introduction to Unix & C Programming Lab	0	0	2	1	30	20	50
						Total(B)	**6.5**	**120**	**80**	**200**
Mandatory Courses										
1	Mandatory Course	MC-101	Induction Program	0	0	0	0	0	0	0
2	Mandatory Course	MC-112	PT & Games/NSS/NCC-I	0	0	2	0	0	0	0
3	Mandatory Course	MC-104	PDP-I	2	0	0	0	0	0	0
						Total(C)	**0**	**0**	**0**	**0**
Grand Total (A+B+C)							**25.5**	**270**	**430**	**700**

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER II (1st YEAR)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-106	Mathematics-II	3	1	0	4	30	70	100
2	Humanities and Social Sciences including Management Course	HSMC-102	Technical Communication	2	0	0	2	30	70	100
3	Engineering Science Course	ESC-106	Basic Electronic	3	1	0	4	30	70	100
4	Basic Science Course	BSC-103	Physics	3	1	0	4	30	70	100
5	Engineering Science Course	ESC-108	Data Structure	3	1	0	4	30	70	100
						Total(A)	**18**	**150**	**350**	**500**
Practical/Drawing/Design										
1	Engineering Science Course	ESC-110	Engineering Workshop Practices	1	0	4	3	30	20	50
2	Engineering Science Course	ESC-107	Basic Electronic Lab	0	0	2	1	30	20	50
3	Basic Science Course	BSC-104	Physics Lab	0	0	3	1.5	30	20	50
4	Humanities and Social Sciences including Management Course	HSMC-103	Technical Communication Lab	0	0	2	1	30	20	50
5	Engineering Science Course	ESC-109	Data Structure Lab	0	0	2	1	30	20	50
						Total(B)	**7.5**	**150**	**100**	**250**
Mandatory Courses										
1	Mandatory Course	MC-102	Environmental Science	2	0	0	2	30	70	100
2	Mandatory Course	MC-113	PT & Games/NSS/NCC-II	0	0	2	0	0	0	0
3	Mandatory Course	MC-105	PDP-II	2	0	0	0	0	0	0
						Total(C)	**2**	**30**	**70**	**100**
Grand Total (A+B+C)							**27.5**	**330**	**520**	**850**

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER III (2nd YEAR)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Basic Science Course	BSC-107	Mathematics-III	3	1	0	4	30	70	100
2	Engineering Science Course	ESC-111	Engineering Mechanics	3	1	0	4	30	70	100
3	Professional Core Course	PCC-ME-204	Production Technology	3	1	0	4	30	70	100
4	Professional Core Course	PCC-ME-203	Engineering Metrology	3	1	0	4	30	70	100
5	Humanities and Social Sciences including Management Course	HSMC-105	French Through Communicative Approach-I	2	0	0	2	30	70	100
6	Professional Core Course	PCC-ME-201	Thermodynamics	3	1	0	4	30	70	100
						Total(A)	**22**	**180**	**420**	**600**
Practical/Drawing/Design										
1	Professional Core Course	PCC-ME-205	Basic Mechanical Engineering Lab	0	0	2	1	30	20	50
2	Engineering Science Course	ESC-112	Programming using MATLAB	0	0	2	1	30	20	50
3	Professional Core Course	PCC-ME-202	Thermal Engineering Lab	0	0	2	1	30	20	50
						Total(B)	**3**	**90**	**60**	**150**
Mandatory Courses/MOOC'S										
1	Mandatory Course	MC-103	Values & Ethics	2	0	0	0	0	0	0
2	Mandatory Course	MC-106	PDP-III	2	0	0	0	0	0	0
						Total(C)	**0**	**0**	**0**	**0**
Grand Total (A+B+C)							**25**	**270**	**480**	**750**

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER IV (2nd YEAR)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core Course	PCC-ME-208	Strength of Material	3	1	0	4	30	70	100
2	Professional Core Course	PCC-ME-206	Material Engineering	3	1	0	4	30	70	100
3	Professional Core Course	PCC-ME-210	Fluid Mechanics & Fluid Machine	3	1	0	4	30	70	100
4	Professional Core Course	PCC-ME-212	Applied Thermodynamics	3	1	0	4	30	70	100
5	Humanities and Social Sciences including Management Course	HSMC-105	French Through Communicative Approach-II	2	0	0	2	30	70	100
6	Humanities and Social Sciences including Management Course	HSMC-104	Organisational Behaviour	2	0	0	2	30	70	100
						Total(A)	**20**	**180**	**420**	**600**
Practical/Drawing/Design										
1	Professional Core Course	PCC-ME-211	Fluid Mechanics Lab	0	0	2	1	30	20	50
2	Professional Core Course	PCC-ME-209	Strength of Material Lab	0	0	2	1	30	20	50
3	Professional Core Course	PCC-ME-207	Material Testing Lab	0	0	2	1	30	20	50
						Total(B)	**3**	**90**	**60**	**150**
Mandatory Courses										
1	Mandatory Course	MC-107	PDP-IV	2	0	0	0	0	0	0
						Total(C)	**0**	**0**	**0**	**0**
Grand Total (A+B+C)							**23**	**270**	**480**	**750**

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER V (3rd YEAR)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core Course	PCC-ME-301	Heat Transfer	3	1	0	4	30	70	100
2	Open Elective Course	OEC-EEE-305	Renewable Energy	3	1	0	4	30	70	100
3	Professional Core Course	PCC-ME-303	Manufacturing Process	3	1	0	4	30	70	100
4	Professional Core Course	PCC-ME-305	Theory of Machines	3	1	0	4	30	70	100
5	Open Elective Course	OEC-CSE-301	Machie Learing for Real-World Applications	3	1	0	4	30	70	100
						Total(A)	**20**	**150**	**350**	**500**
Practical/Drawing/Design										
1	Professional Core Course	PCC-ME-302	Heat Transfer Lab	0	0	2	1	30	20	50
2	Professional Core Course	PCC-ME-304	Production Practice Lab	0	0	2	1	30	20	50
3	Professional Core Course	PCC-ME-306	Theory of Machines Lab	0	0	2	1	30	20	50
4	Open Elective Course	OEC-EEE-306	Renewable Energy Lab	0	0	2	1	30	20	50
						Total(B)	**4**	**120**	**80**	**200**
Mandatory Courses/MOOC'S										
1	Mandatory Course	MC-108	PDP-V	2	0	0	0	0	0	0
						Total(C)	**0**	**0**	**0**	**0**
Grand Total (A+B+C)							**24**	**270**	**430**	**700**

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER VI (3rd YEAR)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Core Course	PCC-ME-309	Dynamics of Machines	3	1	0	4	30	70	100
2	Professional Core Course	PCC-ME-307	Design of Machine Elements	3	1	0	4	30	70	100
3	Professional Elective Course	PEC-ME-302	Automobile Engineering.	3	1	0	4	30	70	100
4	Professional Elective Course	PEC-ME-301	Internal Combustion Engines	3	.1	0	4	30	70	100
5	Professional Elective Course	PEC-ME-304	Operation Research	3	1	0	4	30	70	100
						Total(A)	**20**	**150**	**350**	**500**
Practical/Drawing/Design										
1	Professional Core Course	PCC-ME-308	Design of Machine Elements Lab	0	0	2	1	30	20	50
2	Professional Elective Course	PEC-ME-303	Automobile Engineering Lab	0	0	2	1	30	20	50
3	Engineering Science Course	ESC-113	Python Programming	1	0	2	2	30	20	50
4	Project Work	ME-P1	Project Stage-I (Mini Project/ Industrial Training)	0	0	4	2	75	25	100
						Total(B)	**6**	**165**	**85**	**250**
Mandatory Courses										
1	Mandatory Course	MC-109	PDP-VI	2	0	0	0	0	0	0
2	Mandatory Course	MC-114	Vedic Mathematics-I	2	0	0	0	0	0	0
						Total(C)	**0**	**0**	**0**	**0**
Grand Total (A+B+C)							**26**	**315**	**435**	**750**

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER VII (4th YEAR)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Elective Course	PEC-ME-401	Refrigeration & Air Conditioning	3	1	0	4	30	70	100
2	Professional Core Course	PCC-ME-401	Automation in Manufacturing	3	1	0	4	30	70	100
3	Professional Elective Course	PEC-ME-403	Computer Aided Design	3	1	0	4	30	70	100
						Total(A)	**12**	**90**	**210**	**300**
Practical/Drawing/Design										
1	Professional Elective Course	PEC-ME-402	Refrigeration & Air Conditioning Lab	0	0	2	1	30	20	50
	Professional Elective Course	PEC-ME-404	Computer Aided Design Lab	0	0	2	1	30	20	50
3	Project Work	ME-P2	Project Stage-II (Minor Project)	0	0	10	5	75	25	100
						Total(B)	**7**	**135**	**65**	**200**
Mandatory Courses										
1	Mandatory Course	MC-110	PDP-VII	2	0	0	0	0	0	0
2	Mandatory Course	MC-115	Vedic Mathematics-II	2	0	0	0	0	0	0
						Total(C)	**0**	**0**	**0**	**0**
Grand Total (A+B+C)							**19**	**225**	**275**	**500**

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination

COURSE STRUCTURE

SEMESTER VIII (4th YEAR)

Branch: Mechanical Engineering (B.Tech)

Sl. No.	Category	Course Code	Course Title	Hours			Credit	Marks		
				L	T	P		IA	ESE	Total
Theory										
1	Professional Elective Course	PEC-ME-405	Power Plant Engineering	3	1	0	4	30	70	100
2	Professional Elective Course	PEC-ME-406	Gas Dynamics & Jet Propulsion	3	1	0	4	30	70	100
3	Professional Elective Course	PEC-ME-407	Total Quality Management	3	1	0	4	30	70	100
						Total(A)	**12**	**90**	**210**	**300**
Practical/Drawing/Design										
1	Project Work	ME-P3	Project Stage-III (Major Project Work & Dissertation)	0	0	18	9	75	25	100
						Total(B)	**9**	**75**	**25**	**100**
Mandatory Courses/MOOC'S										
1	Mandatory Course	MC-111	PDP-VIII	2	0	0	0	0	0	0
						Total(C)				
Grand Total (A+B+C)							**21**	**165**	**235**	**400**

L-Lecture, T-Tutorial, P-Practical

IA- Internal Assessment, ESE-End Semester Examination