Mechanical Engineering With Effective From 2014-2015 Academic Year First Year B.Tech., (SEMESTER – I)

Code No.	Code No. Subject			hem Istru ds p	ctio		Scheme of Examination (Maximum marks)			No. of Credits
		L	Т	Р	S	Total	CIE	SEE	Total Marks	Creans
14MA101	Engineering Mathematics – I	4	1	0	0	5	40	60	100	4
14PH102	Engineering Physics – I	4	0	0	0	4	40	60	100	3
14CH103	Engineering Chemistry – I	4	0	0	0	4	40	60	100	3
14EL104	English Language and Communication	4	0	0	0	4	40	60	100	3
14ES105	Environmental Studies	4	0	0	0	4	40	60	100	3
14EG106	Engineering Graphics	4	0	2		6	40	60	100	4
14CHL101	Chemistry Lab	0	0	3	0	3	40	60	100	2
14ELL102	English Language Laboratory	0	0	3	0	3	40	60	100	2
14WSL103	Workshop	0	0	3	0	3	40	60	100	2
	TOTAL	24	1	11	0	36	360	540	900	26

CIE: Continuous Internal Evaluation L: Lecture S: Self Study SEE: Semester End Examination T: Tutorial P: Practical

Mechanical Engineering With Effective From 2014-2015 Academic Year First Year B.Tech., (SEMESTER – II)

Code No.	Code No. Subject			stru	ne o ctio oer v		Scheme of Examination (Maximum marks)			No. of Credits
		L	Т	Р	S	Total	CIE	SEE	Total Marks	Creuits
14MA201	Engineering Mathematics – II	4	1	0	0	5	40	60	100	4
14PH202	Engineering Physics – II	4	0	0	0	4	40	60	100	3
14CH203	Engineering Chemistry – II	4	0	0	0	4	40	60	100	3
14EE204	Basic Electrical and Electronics Engineering	4	0	0	0	4	40	60	100	3
14EM205	Engineering Mechanics	4	1	0	0	5	40	60	100	4
14CP206	Computer Programming with C	4	0	0	1	5	40	60	100	3
14PHL201	Physics lab	0	0	3	0	3	40	60	100	2
14HWL202	Hardware Lab	0	0	3	0	3	40	60	100	2
14CPL203	Computer Programming Lab.	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

CIE: Continuous Internal Evaluation L: Lecture S: Self Study SEE: Semester End Examination T: Tutorial P: Practical

Mechanical Engineering With Effective From 2014-2015 Academic Year Second Year B.Tech., (SEMESTER – III)

Code No.	Code No. Subject			Scher Istru ods p	ictic			Schen Examir ximum	No. of Credits	
		L	Т	Р	S	Total	CIE	SEE	Total Marks	Creuits
14MA301	Engineering Mathematics-III	4				4	40	60	100	3
14ME302	Mechanics of Materials-I	4	1			5	40	60	100	4
14ME303	Basic Thermodynamics	4	1			5	40	60	100	4
14ME304	Fluid Mechanics	4				4	40	60	100	3
14ME305	Kinematics of Machines	4	1			5	40	60	100	4
14ME306	Machine Drawing	1		3		4	40	60	100	2
14MEL301	Fuels & Oils Lab			3		3	40	60	100	2
14MEL302	Basic CAD Lab			3		3	40	60	100	2
14CEL303	Strength of Materials Lab			3		3	40	60	100	2
	TOTAL	21	3	12		36	360	540	900	26

CIE: Continuous Internal Evaluation L: Lecture S: Self Study SEE: Semester End Examination P: Practical

T: Tutorial

Mechanical Engineering With Effective From 2014-2015 Academic Year Second Year B.Tech., (SEMESTER – IV)

Second Year B. Fech., (SEMESTER – IV)										
Code No.	Subject	(P	Ins	stru	ctio		Scheme of Examination (Maximum marks)			No. of Credits
		L	Т	Р	S	Total	CIE	SEE	Total Marks	Creuits
14MA401	Engineering Mathematics-IV	4				4	40	60	100	3
14ME402	Mechanics of Materials-II	4	1			5	40	60	100	4
14ME403	Applied Thermodynamics	4	1			5	40	60	100	4
14ME404	Hydraulic Machines	4			1	5	40	60	100	3
14ME405	Casting, Forming and Welding Technology	4				4	40	60	100	3
14ME406	Material Science &Metallurgy	4				4	40	60	100	3
14CEL401	Fluid Mechanics & Hydraulic Machines Lab			3		3	40	60	100	2
14MEL402	Computer Applications In Mechanical Engineering Lab			3		3	40	60	100	2
14MEL403	Basic Manufacturing Processes Lab			3		3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

CIE: Continuous Internal Evaluation L: Lecture S: Self Study SEE: Semester End Examination T: Tutorial P: Practical

For

Code No.	Subject					uction veek)	Scheme of Examination (Maximum marks)			No. of
	-	L	Т	Р	S	Tota l	CIE	SEE	Total Marks	Credits
14ME501	Machine Dynamics	4	1			5	40	60	100	4
14ME502	Design of Machine Elements-I	4	1			5	40	60	100	4
14ME503	I.C.engines & Gas Turbines	4				4	40	60	100	3
14ME504	Metal Cutting and Machine Tools	4				4	40	60	100	3
14ME505	Operations Research	4			1	5	40	60	100	3
14ME506	Elective-I	4				4	40	60	100	3
14MEL501	I.C.Engines lab			3		3	40	60	100	2
14MEL502	Machine shop practice			3		3	40	60	100	2
14ELL503	Soft skills lab			3		3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

Mechanical Engineering With Effective From 2014-2015 Academic Year Third Year B.Tech., (SEMESTER – V)

CIE: Continuous Internal Evaluation L: Lecture S: Self Study SEE: Semester End Examination T: Tutorial P: Practical

Elective-I

- A. Engineering Economics and Accountancy
- **B.** Computer Graphics
- **C.** Mechanics of Composite materials

Scheme of Scheme of Instruction Examination No. of Code No. Subject (Periods per week) (Maximum marks) Credits Total ΤP L **S** Total SEE CIE Marks 14ME601 Automation Technology 4 4 40 60 100 3 Design of Machine 14ME602 1 4 5 40 60 100 4 **Elements-II** 14ME603 Heat transfer 4 1 5 40 60 100 4 14ME604 4 1 5 40 60 100 3 Finite Element Analysis Electronics& Micro 14ME605 4 4 40 60 100 3 processors 14ME606 4 4 **40** 60 3 **Elective** –**II** 100 14MEL601 3 H.T. lab 3 40 60 100 2 14MEL602 3 3 2 Automation lab 40 60 100 14ECL603 3 Electronics lab 3 40 60 100 2 2 9 1 TOTAL 24 36 360 540 900 26

Mechanical Engineering With Effective From 2014-2015 Academic Year Third Year B.Tech., (SEMESTER – VI)

CIE: Continuous Internal Evaluation L: Lecture S: Self Study SEE: Semester End Examination

T: Tutorial P: Practical

Elective-II

- A. Manufacturing Engineering
- B. R&AC
- C. Solar energy and Utilization

For

Mechanical Engineering With Effective From 2014-2015 Academic Year Final Year B.Tech., (SEMESTER – VII)

Code No.	lo. Subject			chen 1stru	ne o ctio		Scheme of Examination (Maximum marks)			No. of Credits
		L	Т	Р	S	Total	CIE	SEE	Total Marks	Creans
14ME701	Industrial Engineering and Enterpreneurship Development	4				4	40	60	100	3
14ME702	Design of Machine Elements-III	4	1			5	40	60	100	4
14ME703	Engineering metrology and Mechanical Measurements	4	1			5	40	60	100	4
14ME704	CAD/CAM	4				4	40	60	100	3
14ME705	Elective-III	4				4	40	60	100	3
14ME706	Open Elective	4				4	40	60	100	3
14ELL701	Business Communication & Presentation Skills Lab			2		2	20	30	50	1
14MEL702	CAD&CAE Lab			3		3	40	60	100	2
14MEL703	Design and Metrology Lab			3		3	40	60	100	2
14MEL704	Term Paper			2		2	20	30	50	1
	TOTAL	24	2	10		36	360	540	900	26

CIE: Continuous Internal Evaluation L: Lecture S: Self Study

Elective-III

- A. Operations Management
- **B.** Computational Fluid dynamics
- C. Mechatronics

SEE: Semester End Examination T: Tutorial

P: Practical

Open Elective

Mechanical Engineering With Effective From 2014-2015 Academic Year Final Year B.Tech., (SEMESTER – VIII)

Code No.	Code No. Subject			Scher 1stru ds pe	ictio			Schen Examir ximum	No. of Credits	
		L	Т	Р	S	Total	CIE	SEE	Total Marks	Creans
14ME801	Professional Ethics & Human values	4				4	40	60	100	3
14ME802	Automobile Engineering	4	1			5	40	60	100	4
14ME803	Elective-IV	4				4	40	60	100	3
14ME804	Elective-V	4				4	40	60	100	3
14MEPR801	Project Work			12		12	50	100	150	10
14MEL802	CAM Lab			3		3	40	60	100	2
	TOTAL	16	1	15		32	250	400	650	25

CIE: Continuous Internal Evaluation L: Lecture S: Self Study

Elective-IV

- A. Power plant Engineering
- B. Optimization Techniques
- C. Computer Integrated Manufacturing

SEE: Semester End Examination T: Tutorial P: Practical

Elective-V

- A. Robotics
- B. Computer aided Process Planning
- C. Enterprise Resource Planning

Annexure-1

LIST OF OPEN ELECTIVES

DEPARTMENT	SUBJECT NAME	SUBJECT CODE
Chamical Engineering	Industrial Pollution & Control	CH 01
Chemical Engineering.	Energy Engineering	CH 02
Civil Engineering	Air Pollution & Control	CE 01
Civil Engineering.	Remote Sensing & GIS	CE 02
Computer Science &	Database Management Systems	CS 01
Engineering.	Java Programming	CS 02
Electrical & Electronics Engineering.	Optimization Techniques	EE 01
	Non-Conventional Energy Sources	EE 02
Electronics & Communication	Consumer Electronics	EC 01
Engineering.	Embedded Systems	EC 02
Electronics & Instrumentation	Virtual Instrumentation Using LABVIEW	EI 01
Engineering.	Sensors & Transducers	EI 02
Information Tashnalagu	Mobile Application Development	IT 01
Information Technology.	Web Technologies	IT 02
Machanical Engineering	Automobile Engineering	ME 01
Mechanical Engineering.	Refrigeration & Air Conditioning	ME 02
BOSCH REXROTH Centre	Automation Technology	BR 01