Courses offered to the Undergraduate Students

First Semester Course Structure

S. No.	Course Title & No.	Nature of Subject	Depart. Offering the subject	Weekly load (hours)	Compulsory (C) / Elective (E)	L*	T*	P*
1								

Mathematics – I (M101)

C

Mathematics

3

2

0

2

Chemistry (C1201)

C

Chemistry

3

1

0

3

English (HU1201)

C

Humanities

2

1

0

4

Basic Electrical Engineering (EE1201)

C

Electrical

3

1

0

5

Engineering Drawing – I (DR101)

C

Applied Mechanics

1

0

0

6

Ecology (CE201)

C

Civil

2

0

0

Second Semester Course Structure

S. No.

Course Title & No.

Nature of Subject

Depart. Offering the subject

Weekly load (hours)

Compulsory (C)/
Elective (E)

L*

T*

P*

1

Mathematics – II (M201)

C

Mathematics

3

1

0

2

Physics (P1201)

C

Physics

3

1

0

3

Introduction to Computing (CS1201)

C

Computer Science

2

1

0

4

Basic Electronics Engineering (ET1201)

C

Electronics & Telcommunication

3

1

0

5

Engineering Drawing Practice – II (DR201)

C

Applied Mechanics

1

0

0

6

Engineering Mechanics – I (AM201)

C

Applied Mechanics

3

1

0

Third Semester Course Structure

S. No.

Course Title & No.

Nature of Subject

Depart. Offering the subject

Weekly load (hours)

Compulsory (C) / Elective (E)

L*

T*

P*

1

Mathematics – III (M301)

C

Mathematic$

3

1

0

2

Electrical Machines (EE30)

C

Electrical

3

1

0

3

Basic Thermodynamics (ME 301)

C

Mechanical

3

1

0

4

Mechanics of Solids-I (AM30)

C

Applied Mechanics

3

1

0

5

Mechanics of Fluids-I(AM30)

C

AppMechanics

3

1

0

6

Material Science (P302)

C

Metallurgy

3

0

0

Fourth Semester Course Structure

S. No.

Course Title & No.

Nature of Subject

Depart. Offering the subject

Weekly load (hours)

Compulsory (C) / Elective (E)

L*

T*

P*

1

Mechanics of Solids-II (AM40)

C

Applied Mechanics

3

0

0

2

Mechanics of Fluids-II (AM40)

C

Applied Mechanics

3

1

0

3

Applied Thermodynamics (ME 401)

C

Mechanical

3

1

0

4

Engineering Materials and Processes (ME 402

C

Mechanical

3

1

0

5

Measurement Techniques (ME 403)

C

Mechanical

3

1

0

6

Introduction to Mechanical Design (ME 404)

C

Mechanical

3

0

0

Fifth Semester Course Structure

S. No.

Course Title & No.

Nature of Subject

Depart. Offering the subject

Weekly load (hours)

Compulsory (C)/

Elective (E)

L*

T*

P*

1

Design of Machine Elements-I (ME 501)

C

Mechanical

3

1

0

2

Internal Combustion Engines (ME 502)

C

Mechanical

3

1

0

3

Heat Transfer (ME 503)

C

Mechanical

3

1

0

4

Machine Tools and Metal Cutting (ME 504)

C

Mechanical

3

0

0

5

Mechanisms and Dynamics of Machines (ME 505)

C

Mechanical

3

1

0

6

Engineering Economics & Accountancy (HU 5)

C

Humanities

3

0

0

Sixth Semester Course Structure

S. No.

Course Title & No.

Nature of Subject

Depart. Offering the subject

Weekly load (hours)

Compulsory (C) / Elective (E)

L*

T*

P*

1

Design of Machine Elements-II (ME 601)

C

Mechanical

3

0

0

2

Boiler and Steam Turbine (ME 602)

C

Mechanical

3

1

0

3

Industrial Engineering & Management (ME 603)

C

Mechanical

3

1

0

4

Manufacturing Technology (ME 604)

C

Mechanical

3

0

0

5

Numerical Methods in Engineering (ME 605)

C

Mechanical

3

1

0

6

Dynamics of Machines and Vibration (ME 606)

C

Mechanical

3

0

0

Seventh Semester Course Structure

S. No.

Course Title & No.

Nature of Subject

Depart. Offering the subject

Weekly load (hours)

Compulsory (C) / Elective (E)

L*

T*

P*

1

Design of Mechanical Systems (ME 701)

C

Mechanical

3

1

0

2

Operations Management (ME 702)

C

Mechanical

3

0

0

3

Refrigeration & Air-Conditioning (ME 703)

C

Mechanical

3

0

0

4

Automation and Computerized Manufacturing (ME 704)

C

Mechanical

3

0

0

5

Elective-I (ME 705/)

C

Mechanical

3

1

0

6

Elective-II (Can be Non Departmental) (ME 706/)

C

Mechanical

3

1

0

Eight Semester Course Structure

S. No.

Course Title & No.

Nature of Subject

Depart. Offering the subject

Weekly load (hours)

Compulsory (C)/

Elective (E)

L*

T*

P*

1

Automatic Control Engineering (ME 801)

C

Mechanical

3

0

0

2

Non Traditional Manufacturing and Nano-Technology (ME 802)

C

Mechanical

3

0

0

3

Power Plant Engineering (ME 803)

C

Mechanical

3

0

0

4

Elective-III (ME 804)

C

Mechanical

3

1

0

5

Elective-IV (ME 805)

C

Mechanical

3

1

0

*L------- Lecture
*T------- Tutorial
*P------- Practical

Courses offered to the Postgraduate Students

A. FIRST SEMESTER

SL.NO.

SUBJECT

COURSE NO.

HOURS/WEEK

MARKS

L

T

S

Theory

Sess.

1

Paper I

3

0

0

100

--

2

Paper II

3

0

0

100

--

3

Paper III

3

0

0

100

--

4

Paper IV (Elective) outside Field of specialisation. Any one from Group-I

3

0

0

100

--

5

Paper V (Elective) outside Field of specialisation. Any one from Group-II

3

0

0

100

--

6

Sessionals on Field subjects
(Paper I, II & III

0

0

6

--

90

7

Sessionals on Paper IV

0

0

2

--

30

8

Sessionals on Paper V

0

0

2

--

30

TOTAL

15

0

10

500

150

Total Contact Hours: 25 Total Marks: 650

B. SECOND SEMESTER

SL.NO.

SUBJECT

COURSE NO.

HOURS/WEEK

MARKS

L

T

S

Theory

Sess.

1

Paper VI

3

0

0

100

--

2

Paper VII

3

0

0

100

--

3

Paper VIII

3

0

0

100

--

4

Paper IX

3

0

0

100

--

5

Paper X (Elective) Any one from the list of Elective subjects other than papers VI, VII, VIII, IX

3

0

0

100

--

6

a. Sessionals: Term paper and or project related to thesis laboratory sessional

0

0

6

--

100

b. Seminar on Term paper and or project related to thesis/laboratory sessionals

0

0

-

50

TOTAL

15

0

6

500

150

Total Contact Hours: 21 Total Marks: 650

C. THIRD SEMESTER

SL.NO.

SUBJECT

COURSE NO.

HOURS/WEEK

MARKS

L

T

S

Theory

Sess.

1

Thesis

0

0

22

--

100

2

Viva-voce on thesis

0

0

0

--

50

TOTAL

0

0

22

0

150

Total Contact Hours: 22 Total Marks: 150

D. FOURTH SEMESTER

SL.NO.	SUBJECT	COURSE NO.	HOURS/WEEK			MARKS
			L	T	S	Theory

Sess.

1

Thesis

0

0

22

--

250

2

Viva-voce on thesis

0

0
0
--
100
TOTAL
0
0
22
0
350

Total Contact Hours: 22 Total Marks: 350

Specialisation:

1. Heat Power
2. Machine Design
3. Production Engineering