SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM) (RECOGNISED BY ALL INDIA COUNCIL FOR TECH. EDN., NEW DELHI)
Accredited by NAAC with 'A' Grade, Recognised as Scientific and Industrial Research Organisation
CHINNA AMIRAM (P.O):: BHIMAVARAM :: W.G.Dt., A.P., INDIA :: PIN: 534 204

Dr. G. P. Saradhi Varma
B.Tech.(CSE), M.Tech.(CSE), Ph.D.(CSE).
PRINCIPAL

Estd. 1980

Phones: Off : EPABX :08816-223332 Ext.201
Direct :08816-222748
Mobile No.98483 81818
Email : gpsvarma@gmail.com
principal@srkrec.ac.in
principalsrkrec@gmail.com
Web Site : www.srkrec.ac.in

PROCEEDINGS OF THE PRINCIPAL

Ref: No: SRKREC/Committee/BoS/ME/2 Date: 05-07-2017

Sub: Appointment of BoS members for Mechanical Engineering (ME) department-Reg.

The following members are nominated as Board of Studies members for the Department of Mechanical Engineering.This order will come into force with immediate effect until further orders.

S. No	Name	Category	Associated with
1	Dr. K.Brahma Raju	Chairman	Professor & Head SRKREC
2	Dr. V.V.Subba Rao	JNTUK Nominee	Registrar, JNTUK
3	Prof. K.VenkataSubbaiah	AU Nominee	Professor, Dept. of MechEngg , AU
4	Prof. B.S.V.Prasad Patnaik	Experts from other Universities	Prof. Department of Applied Mechanics , IIT Madras
5	Dr. B. Durga Prasad		Prof. Dept. of Mechanical Engineering, JNTU, Ananthapuram
6	Sri K.S.Raju	Industry Experts	Managing Director, AskarMicrons(P) Ltd. Mysore.
7	Sri Radha Krishna T		Managing Director, Everglades Technologies, Tanuku
9	Dr. P.V.S.Ganesh Kumar	Expert- Professional Body	Associate Director, NSTL
10	Prof. N.V.Subba Raju	Faculty of each specialization	Professor, SRKREC
11	Prof.D.S.N. Raju		Professor, SRKREC
12	Prof.P.Vijaya Kumar Raju		Professor, SRKREC
13	Prof.K.Satya Narayana		Professor, SRKREC
14	Dr. A.Bala Krishna		Professor, SRKREC
15	Dr.V.DurgaPrasada Rao		Professor, SRKREC
16	Dr. P.Rama Murthy Raju		Professor, SRKREC
17	Dr. K.SureshBabu		Professor, SRKREC
18	Dr. K.V.M. Krishnam Raju		Professor, SRKREC
19	Sri P.V.Gopala Raju		Associate Professor, SRKREC
20	Sri Ch.Srinivas		Associate Professor, SRKREC
21	Sri V.K.Viswanadha Raju		Associate Professor, SRKREC
22	Sri C.V.S.R.K.Raju		Associate Professor, SRKREC
23	Sri Ch. Gopala Raju		Associate Professor, SRKREC
24	Sri P.V.R.S. Padma Raju		Associate Professor, SRKREC
25	Sri G. Chatrapathi Raju		Associate Professor, SRKREC
26	Dr. S.Rajesh		Associate Professor, SRKREC
27	Dr. K.Sita Rama Raju		Associate Professor, SRKREC
28	Student Representatives		

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204

S.R.K.R. ENGINEERING COLLEGE
China Amiram
BHIMAVARAM
Pin: 534 204.

PRINCIPAL
PRINCIPAL
S.R.K.R. Engineering College
(Autonomous)

c.c.to:
1. Principal's table
2. HOD-Mech. Engg.

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

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gpsvarma@gmail.com
WebSite : www.srkrec.ac.in

SRKREC/BOS-1/ME/2017-18

Date: 08.07.2017

To
Prof. K. Venkata Subbaiah
Department of Mechanical Engineering
Andhra University
Visakhapatnam - 530 003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

***

We wish to inform you that the meeting of the Joint Board of Studies will be held on 16.07.2017 at 11-00 A.M in A.C. Auditorium.

The Boards of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

S.No.	BOARD	DATE	TIME
1	Civil Engineering	16-07-2017	2.00 P.M
2	Computer Science & Engineering	16-07-2017	2.00 P.M
3	Electronics & Communication Engineering	16-07-2017	2.00 P.M
4	Electrical & Electronics Engineering	16-07-2017	2.00 P.M
5	Information Technology	16-07-2017	2.00 P.M
6	Mechanical Engineering	16-07-2017	2.00 P.M
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	16-07-2017	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines.

We request you to make it convenient to attend the meetings.

Yours faithfully,

G.P.S.

PRINCIPAL

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S.R.K.R. Engg. College
BHIMAVARAM-534 204

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WebSite : www.srkrec.ac.in

SRKREC/BOS-1/ME/2017-18

Date: 08.07.2017

To
Prof. B.S.V. Prasad Patnaik
Department of Applied Mechanics
IIT-Madras.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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Yours faithfully,

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SRKREC/BOS-1/ME/2017-18

Date: 08.07.2017

To
Dr. B.Durga Prasad
Department of Mechanical Engineering
JNTU-Ananthapuram.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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Yours faithfully,

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Date: 08.07.2017

SRKREC/BOS-1/ME/2017-18

To
Sri K.S. Raju
Managing Director
Askar Microns (P) Ltd.
Mysore, Karnataka.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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Yours faithfully,

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gpsvarma@gmail.com
WebSite : www.srkrec.ac.in

Date: 08.07.2017

SRKREC/BOS-1/ME/2017-18

To
Sri Radha Krishna T
Managing Director
Everglades Technologies
Tanuku, West Godavari Dist.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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Date: 08.07.2017

SRKREC/BOS-1/ME/2017-18

To
Dr. P.V.S. Ganesh Kumar
General Secretary
Condition Monitoring Society of India
Visakhapatnam.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Regarding

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We request you to make it convenient to attend the meetings.

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S.R.K.R. Engg. College
BHIMAVARAM-534 204.

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A)
CHINNA AMIRAM :: BHIMAVARAM-534204
DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 10-07-2017

CIRCULAR

This is to inform you that the Department of Mechanical Engineering will hold a meeting on 16-07-2017 at 02.00 PM in Room No. M-101 (E-class room) of Mechanical Department. In this connection, all the members of the Board of Studies are requested to attend the same.

Agenda:

1. To discuss and finalize academic regulations and curriculum for B.Tech Mechanical Engineering and M.Tech CAD/CAM programs.
2. Any other items for discussion.

Head of the Department
Professor & Head
Dept. of Mechanical Engg.
S.R.K.R. Engineering College
CHINA AMIRAM (P.O.)
BHIMAVARAM-534 204.

Dept. of Mechanical * BHIMAVARAM 534 204 * S.R.K.R. Engg. College

C.C to:

1. The Members of Board of studies
2. Office file

MINUTES OF THE MEETING
(JNTUK AUTONOMOUS)

Third Board of studies meeting was held on 16-07-2017 in M101 (E-class Room) of Mechanical Engineering Department at 2:00 PM for Finalization of Academic Regulation & Academic Curriculum for B.Tech (Mechanical Engineering) & M.Tech. (CAD/CAM) programms.

Professor & Head
Dept. of Mechanical Engg.
S.R.K.R. Engineering College
CHINA AMIRAM (P.O.)
BHIMAVARAM-534 204.

10

MINUTES OF THE MEETING RESOLUTIONS
(JNTUK, KAKINADA AUTONOMOUS)

(1) Resolved to Fix 180 Credits for B.Tech Course and 80 credits for M.Tech (CAD/CAM) programs.
(2) Resolved to incorporate Engineering Drawing for Group-A (CIVIL, E.E.E & MECH) branches in the First Semester & for Group-B (CSE, ECE & IT) branches in the Second Semester.
(3) Resolved to introduce Engineering Mechanics Course to Group-A (CIVIL, EEE & MECH) branches in First semester.
(4) Resolved to introduce Engineering workshop for Group-A (CIVIL, E.EE & MECH) branches in the First semester & for E.C.E branch in the Second semester.
(5) Finalized the syllabus for the courses Engineering Drawing, Engineering Mechanics & Engineering work Shop.
(6) Proposed the Course Structure & Academic Curriculum for the Four years B.Tech (Mechanical Engineering) Program.
(7) Finalized the Course Structure & Syllabus for the M.Tech (CAD/CAM) program.
(8). Resolved to allocate 30 Marks for Internals & 70 Marks for End Semester Examinations (External) for Theory subjects for both B.Tech (Mechanical Engg.) & M.Tech (CAD/CAM) programs.
(9) Feedbacks taken from students, parents, Employers and Alumni on curriculum were discussed while designing the syllabus.

Professor & Head
Dept. of Mechanical Engg.
S.R.K.R. Engineering College
CHINA AMIRAM (P.O.)
BHIMAVARAM-534 2

MEMBERS PRESENT
(JNTUK AUTONOMOUS)

11

S.NO.	Name of Faculty	Designation	Signature
1	Prof V V Subba Rao	Prof & HEAD Reg'd Dean, JNTUK	
2	PRASAD PATNAIK B.S.V.	Professor	
3	Prof. K. Venkata Subbaiah	Professor & Dean (R&D)	
4	Prof. B. Durga prasad	Professor, JNTUK	
5	Dr K. BRAHMA RAJU	Prof & Head	
6	Prof K. Satyanarayana	Professor	
7.	G. C. Ram	Associate Prof.	
8	P.V. Kumar Raju	Professor	
9.	D. S. N. RAJU.	Professor	
10.	Dr. K. V. M. K. Raju	Professor	
11.	V. K. VISWANADHA RAJU	Associate Professor	
12	P. V. R. S. PADMA RAJ	Associate Professor	
13.	CH. Gopala Raju	Associate professor	
14	Dr. K. SITA RAMA RAJU	Associate Professor	
15.	Prof. N. V. SUBBA RAJU	Professor	
16.	Dr. V. DURGA PRASAD	Professor	
17.	Dr. A. Balakrishna	Prof.	
18.	Dr P. Ramamurthy Raju	Professor	
19.	G. Tanuj	student 3/4.	
20.	K.S. Bala Sai Venkatesh	Student 4/4	K.S.B.S. Venkatesh
21	T. Sudheer	student 3/4	T. Sudheer
22.	S. ANKI REDDY	Student 4/4	S. Anki Reddy

Professor & Head
Dept. of Mechanical Engg.
S.R.K.R. Engineering College
CHINA AMIRAM (P.O.)
BHIMAVARAM-534 204.

RESOLUTIONS FOR THE MEETING DATED 16-07-2017

(1) Resolved to Fix 180 Credits for B.Tech Course and 80 credits for M.Tech (CAD/CAM) programs.

YEAR	1ST SEMESTER	2ND SEMESTER	TOTAL CREDITS
I/IV	23	24	47
II/IV	23	23	46
III/IV	24	24	48
IV/IV	19	20	39
		TOTAL CREDITS	180

YEAR	1ST SEMESTER	2ND SEMESTER	TOTAL CREDITS
I/II	28	28	56
II/II	10	14	24
		TOTAL CREDITS	80

(2) Resolved to incorporate Engineering Drawing for Group-A (CIVIL, EEE & MECH) branches in the First Semester & for Group-B (CSE, ECE & IT) branches in the Second Semester.

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ChinnaAmiram, Bhimavaram-534204. (AP)
Estd:1980

SYLLABUS: ENGINEERING DRAWING (B17 ME 1102)
(Common to CIV, EEE &ME)

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ChinnaAmiram, Bhimavaram-534204. (AP)
ESTD: 1980

SYLLABUS: ENGINEERING DRAWING (B17 ME 1201)
(Common to CSE, ECE & IT)

(3) Resolved to introduce Engineering Mechanics Course to Group-A (CIVIL, EEE & MECH) branches in First Semester.

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SYLLABUS: ENGINEERING MECHANICS (B17 ME 1101)
(Common to CIV, EEE &ME)

Professor & Head
Dept. of Mechanical Engg.
S.R.K.R. Engineering College
CHINA AMIRAM (P.O.)
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(4) Resolved to introduce Engineering workshop for Group-A (CIVIL, E.EE & MECH) branches in the First Semester & for E.C.E branch in the Second Semester.

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Estd:1980 ChinnaAmiram, Bhimavaram-534204. (AP)

SYLLABUS: ENGINEERING WORKSHOP &IT WORKSHOP (B17 BS 1109)
(Common to CIV, EEE&ME)

PART-A ENGINEERING WORKSHOP

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)
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Estd:1980 ChinnaAmiram, Bhimavaram-534204. (AP)

SYLLABUS: ENGINEERING WORKSHOP & IT WORKSHOP (B17 BS 1209)
(For ECE)
PART-A ENGINEERING WORKSHOP

(5) Finalized the syllabus for the courses Engineering Drawing, Engineering Mechanics & Engineering work Shop.

SYLLABUS: ENGINEERING DRAWING (B17 ME 1102)
(Common to CIV, EEE &ME)

UNIT I

Polygons: Constructing regular polygons by general methods, inscribing and describing polygons on circles.
Curves: Parabola, Ellipse and Hyperbola by general methods, cycloids, involutes, tangents &normal for the curves.

UNIT II

Orthographic Projections: Horizontal plane, vertical plane, profile plane, importance of reference lines, projections of points in various quadrants, projections of lines, lines parallel either to one of the reference planes(HP,VP or PP)
Projections of straight lines inclined to both the planes, determination of true lengths, angle of inclination and traces-HT, VT

UNIT III

Projections of planes: regular planes perpendicular/parallel to one plane and inclined to the other reference plane; inclined to both the reference planes.

UNIT IV

Projections of Solids – Prisms, Pyramids, Cones and Cylinders with the axis inclined to one of the planes.

UNIT V

Conversion of isometric views to orthographic views; Conversion of orthographic views to isometric views.

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SYLLABUS: ENGINEERING MECHANICS (B17 ME 1101)
(Common to CIV, EEE &ME)

UNIT-I

Basic Concepts:

Scalar and vector quantities- Representation of vectors- Free vector force, Specification of force-Effect of force on rigid body- Free body diagram. Concurrent Forces in a plane: Principles of statics-Resolution and Composition of forces in a plane-Equilibrium of concurrent forces in a plane- Method of projections-Equilibrium of three forces in a plane Method of moments. Parallel Force system in a plane.

UNIT-II

Centroid & Moment of Inertia: Centroid & M.I – Arial & Mass M.I – Radius of Gyration, Parallel axis–Perpendicular axis theorem–Simple Problems.

UNIT-III

General Case of Forces in a Plane: Resultant and equilibrium of general case of forces in a plane, statically determinate plane trusses-Method of joints and Method of sections.

Friction – Coulombs laws of dry friction – Limiting friction, Problems on Wedge friction, Belt Friction-problems.

UNIT-IV

DynamicsofParticles-RectilinearMotion–Kinematics,D"Alembert"sprinciple,Kinetics–Work&Energy–ImpulseMoment, Direct Central Impact –coefficient of restitution.

Curvilinear Motion – Kinematics, Projectile Motion, Moment of momentum, Work & Energy in Curvilinear motion.

UNIT-V

Dynamics of Rigid Bodies - Rigid body rotation – Kinematics - Kinetics – Work & Energy in Rigid body rotation, Plane Motion – Kinematics – Instantaneous center of rotation, Kinetics -Work-Energy principle in plane motion.

(b) Proposed the Course Structure & Academic Curriculum for the Four years B.Tech (Mechanical Engineering) Program.

Regulation: R17									I / IV - B.Tech. I - Semester
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Name of the Subject	C	Cr	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 BS1101	English–I	BS	3	3	1	--	30	70	100
B17 BS1102	Mathematics–I	BS	3	3	1	--	30	70	100
B17BS1105	Engineering Chemistry	BS	3	3	1	--	30	70	100
B17ME1101	Engineering Mechanics	ES	3	3	1	--	30	70	100
B17ME1102	Engineering Drawing	ES	3	1	--	3	30	70	100
B17CE1101	Environmental Studies	ES	2	2	1	--	30	70	100
B17 BS1107	Engineering Chemistry Lab	BS	2	--	--	3	50	50	100
B17 BS1108	English Communication Skills Lab–I	BS	2	--	--	3	50	50	100
B17 BS1109	Engineering Workshop &IT Workshop	BS	2	--	--	3	50	50	100
B17 BS1111	Inner Engineering	BS	--	--	--	2	--	--	--
Total			23	15	5	14	330	570	900

Regulation: R17									I / IV - B.Tech. II- Semester
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 BS1201	English– II	BS	3	3	1	--	30	70	100
B17 BS1202	Mathematics–II	BS	3	3	1	--	30	70	100
B17 BS1203	Mathematics–III	BS	3	3	1	--	30	70	100
B17 BS1204	Engineering Physics	BS	3	3	1	--	30	70	100
B17 CS1201	Computer Programming Using C	ES	3	3	1	--	30	70	100
#DS 1	Department Subject	ES	3	3	1	--	30	70	100
B17 BS1206	Engineering Physics Lab	BS	2	--	--	3	50	50	100
B17 BS1208	English Communication Skills Lab – II	BS	2	--	--	3	50	50	100
B17 CS1204	C Programming Lab	ES	2	--	--	3	50	50	100
B17 BS1210	Engineering Physics Virtual Labs-Assignments	BS	--	--	--	2	--	--	--
B17 BS1211	NCC	BS	--	--	--	2	--	--	--
Total			24	18	6	13	330	570	900

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Regulation: R17									II / IV - B.Tech. I- Semester
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Course	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	Exam Marks	Total Marks
B17 BS2101	Mathematics-IV		3	3	1	--	30	70	100
B17ME2101	Strength of Materials		3	3	1	--	30	70	100
B17ME2102	Thermodynamics		3	3	1	--	30	70	100
B17ME2103	Manufacturing Process		3	3	1	--	30	70	100
B17ME2104	Metallurgy &Materials Science		3	3	1	--	30	70	100
B17ME2105	Advanced Engineering Drawing		3	2	--	4	30	70	100
B17ME2106	Mechanical Engineering Lab		2	--	--	3	50	50	100
B17EE2107	Basic Electrical &Electronics Engineering Lab		2	--	--	3	50	50	100
B17ME2107	AutoCAD		1	--	--	2	50	--	50
B17 BS2107	English Proficiency-I		--	1	1	--	--	--	--
B17 BS2108	Professional Ethics &Human Values		--	2	--	--	--	--	--
Total			23	20	6	12	330	520	850

Regulation: R17									II / IV - B.Tech. II- Semester
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Course	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B17 ME2201	Advanced Strength of Materials	ES	3	3	1	--	30	70	100
B17 ME2202	Thermal Engineering	ES	3	3	1	--	30	70	100
B17 ME2203	Metal Cutting& Machine Tools	ES	3	3	1	--	30	70	100
B17ME2204	Fluid Mechanics	ES	3	3	1	--	30	70	100
B17ME2205	Mechanical Engineering Drawing	ES	3	--	--	4	30	70	100
B17 BS2203	Engineering Economics	BS	3	3	1	--	30	70	100
B17ME2208	Manufacturing Process Lab	ES	2	--	--	3	50	50	100
B17CE2210	Strength of Materials Lab	ES	2	--	--	3	50	50	100
B17ME2209	Industry Oriented Technology Lab	ES	1	--	--	2	50	--	50
B17BS2206	English Proficiency-II	BS	--	1	1	--	--	--	--
Total			23	16	6	12	330	520	850

Regulation: R17									III / IV - B.Tech. I- Semester
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17ME3101	Operations Research	ES	3	3	1	--	30	70	100
B17ME3102	IC Engines &Gas Turbines	ES	3	3	1	--	30	70	100
B17ME3103	Kinematics of Machines	ES	3	3	1	--	30	70	100
B17ME3104	Design of Machine Elements	ES	3	3	1	--	30	70	100
B17ME3105	Fluid Machines &Systems	ES	3	3	1	--	30	70	100
B17ME3106	Industrial Measurements &Metrology	ES	3	3	1	--	30	70	100
B17ME3107	IC Engines &Kinematics of Machines Lab	ES	2	--	--	3	50	50	100
B17ME3108	Metrology Lab	ES	2	--	--	3	50	50	100
B17 BS3101	Problem Solving &Linguistic Competence	BS	1	--	3	--	30	70	100
B17ME3109	Modeling Lab	ES	1	--	--	3	50	50	100
B17BS 3105	IPR & Patents	BS	--	--	2	--	--	---	--
Total			24	18	11	9	360	640	1000

Regulation: R17									III / IV - B.Tech. II- Semester
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Name of the Subject	Category	Credits	Lecture Hrs	Tutoral Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17ME3201	Industrial Engineering &Management	ES	3	3	1	--	30	70	100
B17ME3202	Control Systems	ES	3	3	1	--	30	70	100
B17ME3203	Dynamics of Machines	ES	3	3	1	--	30	70	100
B17ME3204	Machine Design	ES	3	3	1	--	30	70	100
#OE	Open Elective	ES	3	3	1	--	30	70	100
B17ME3207	Computer Aided Design	ES	3	3	1	--	30	70	100
B17ME3208	Industrial Engineering Lab	ES	2	--	--	3	50	50	100
B17ME3209	Fluid Mechanics and Machinery Lab	ES	2	--	--	3	50	50	100
B17 BS3201	Employability Skills	BS	1	--	3	--	30	70	100
B17 BS3202	Basic Coding	BS	1	--	--	3	50	50	100
Total			24	18	9	9	360	640	1000

Regulation: R17									IV/ IV - B.Tech. I- Semester
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 ME4101	Heat Transfer	ES	3	3	1	--	30	70	100
B17ME4102	Computer Aided Manufacturing	ES	3	3	1	--	30	70	100
B17ME4103	Mechatronics	ES	3	3	1	--	30	70	100
#ELE-I	Elective-I	ES	3	3	1	--	30	70	100
#ELE-II	Elective-II	ES	3	3	1	--	30	70	100
B17ME4110	Heat Transfer Lab	ES	2	--	--	3	50	50	100
B17ME4111	CAD Lab	ES	2	--	--	3	50	50	100
Total			19	15	5	6	250	450	700

Regulation: R17									IV/ IV - B.Tech. II- Semester
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17ME4201	Production Planning &Control	ES	3	3	1	--	30	70	100
# ELE-III	Elective-III	ES	3	3	1	--	30	70	100
B17ME4205	CAM Lab	ES	2	--	--	3	50	50	100
B17ME4206	Seminar	ES	2	--	--	--	50	--	50
B17ME4207	Project Work	ES	10	--	--	3	60	140	200
Total			20	6	2	6	220	330	550

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(7) Finalized the Course Structure & Syllabus for the M.Tech (CAD/CAM) program.

Regulation: R17 | M.Tech. I - Semester

MECHANICAL ENGINEERING(CAD/CAM)
(under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION &EXAMINATION
(With effect from 2017-18 admitted Batch onwards)

Code No.	Name of the Subject	C	C	L	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
M17 CAD1101	Industrial Robotics	ES	3	3	1	--	30	70	100
M17 CAD1102	Computer Aided Manufacturing	ES	3	3	1	--	30	70	100
M17 CAD1103	Special Manufacturing Processes	ES	3	3	1	--	30	70	100
M17 CAD1104	Geometric Modelling	ES	3	3	1	--	30	70	100
#ELE-1	Elective-I	ES	3	3	1	--	30	70	100
#ELE-2	Elective-II	ES	3	3	1	--	30	70	100
M17 CAD1111	Computer Aided Design Lab	ES	2	--	--	3	50	50	100
Total			20	18	6	3	230	470	700

Regulation: R17 | M.Tech. II - Semester

MECHANICAL ENGINEERING(CAD/CAM)
(under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION &EXAMINATION
(With effect from 2017-18 admitted Batchonwards)

Code No.	Name of the Subject	C	Cr	L	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
M17 CAD1201	Modeling &Simulation of Manufacturing Systems	ES	3	3	1	--	30	70	100
M17 CAD1202	Optimization &Reliability	ES	3	3	1	--	30	70	100
M17 CAD1203	Computer Graphics	ES	3	3	1	--	30	70	100
M17 CAD1204	Finite Element Methods	ES	3	3	1	--	30	70	100
#ELE-3	Elective-III	ES	3	3	1	--	30	70	100
#ELE-4	Elective-IV	ES	3	3	1	--	30	70	100
M17 CAD1211	Computer Aided Manufacturing Lab	ES	2	--	--	3	50	50	100
Total			20	18	6	3	230	470	700

Regulation: R17 | M.Tech. III - Semester

MECHANICAL ENGINEERING(CAD/CAM)
(under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION &EXAMINATION
(With effect from 2017-18 admitted Batch onwards)

Course Code	Course	Scheme of Examination	C	Int	Ext	Total
M17CAD2101	Comprehensive Viva-Voce	Viva-Voce	2	50	-	50
M17CAD2102	Seminar-I	Oral Presentation	2	50	-	50
M17CAD2103	Project Work Part-I	Review	16	50	-	50
		Total	20	150	-	150

Regulation: R17 | M.Tech. III - Semester

MECHANICAL ENGINEERING(CAD/CAM)
(under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION &EXAMINATION
(With effect from 2017-18 admitted Batch onwards)

Course Code	Course	Scheme of Examination	C	Int	Ext	Total
M17 CAD 2201	Seminar-II	Oral presentation	2	50	-	50
M17 CAD 2202	Project Work Part-II	Viva-voce	18		100	100
Total			20	50	100	150

(8). Resolved to allocate 30 Marks for Internals & 70 Marks for End Semester Examination (External) for Theory subjects for both B.Tech (Mechanical Engg.) & M.Tech (CAD/CAM) programs.

Regulation: R17 | I / IV - B.Tech. I - Semester

MECHANICAL ENGINEERING
(under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION &EXAMINATION
(With effect from 2017-18 admitted Batch onwards)

Code No.	Name of the Subject	C	Cr	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 BS1101	English -I	BS	3	3	1	--	30	70	100
B17 BS1102	Mathematics–I	BS	3	3	1	--	30	70	100
B17BS1103	Engineering Chemistry	BS	3	3	1	--	30	70	100
B17ME1101	Engineering Mechanics	ES	3	3	1	--	30	70	100
B17ME1102	Engineering Drawing	ES	3	1	--	3	30	70	100
B17CE1101	Environmental Studies	ES	2	2	1	--	30	70	100
B17 BS1107	Engineering Chemistry Lab	BS	2	--	--	3	50	50	100
B17 BS1108	English Communication Skills Lab–I	BS	2	--	--	3	50	50	100
B17 BS1109	Engineering Workshop &IT Workshop	BS	2	--	--	3	50	50	100
B17 BS1111	Inner Engineering	BS	--	--	--	2	--	--	--
Total			23	15	5	14	330	570	900

Regulation: R17 | M.Tech. I - Semester

MECHANICAL ENGINEERING(CAD/CAM)
(under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION &EXAMINATION
(With effect from 2017-18 admitted Batch onwards)

Code No.	Name of the Subject	C	C	L	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
M17 CAD1101	Industrial Robotics	ES	3	3	1	--	30	70	100
M17 CAD1102	Computer Aided Manufacturing	ES	3	3	1	--	30	70	100
M17 CAD1103	Special Manufacturing Processes	ES	3	3	1	--	30	70	100
M17 CAD1104	Geometric Modelling	ES	3	3	1	--	30	70	100
#ELE-1	Elective-I	ES	3	3	1	--	30	70	100
#ELE-2	Elective-II	ES	3	3	1	--	30	70	100
M17 CAD1111	Computer Aided Design Lab	ES	2	--	--	3	50	50	100
Total			20	18	6	3	230	470	700

(9) Feed backs taken from students, parents, Employers and Alumni on curriculum were discussed while designing the syllabus.

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