

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.DL, A.P, INDIA :: PIN: 534 204

Phones: Off : EPABX :08816-223332 Ext.201

Mobile No.98483 81818

Email : gpsvarma@gmail.com

principal@srkrec.ac.in

principalsrkrec@gmail.com

Web Site : www.srkrec.ac.in

Dr. G. P. Saradhi Varma

B.Tech.(CSE), M.Tech.(CSE), Ph.D.(CSE).

PRINCIPAL



PROCEEDINGS OF THE PRINCIPAL

File No: SRKREC/Committee/BoS/ME/1

Date: 06-07-2016

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	Position in the committee	Associated with
1	Dr. K.Brahma Raju	Chairman	Professor & Head SRKREC
2	Prof. N.V.Subba Raju	Faculty of each specialization	Professor, SRKREC
3	Prof.D.S.N. Raju		Professor, SRKREC
4	Prof.P.Vijaya Kumar Raju		Professor, SRKREC
5	Prof.K.Satya Narayana		Professor, SRKREC
6	Dr. A.Bala Krishna		Professor, SRKREC
7	Dr.V.Durga Prasada Rao		Professor, SRKREC
8	Dr. P.Rama Murthy Raju		Professor, SRKREC
9	Dr. K.Suresh Babu		Professor, SRKREC
10	Dr. K.V.M. Krishnam Raju		Professor, SRKREC
11	Sri P.V.Gopala Raju		Associate Professor, SRKREC
12	Sri Ch.Srinivas		Associate Professor, SRKREC
13	Sri V.K.Viswanadha Raju		Associate Professor, SRKREC
14	Sri C.V.S.R.K.Raju		Associate Professor, SRKREC
15	Sri Ch. Gopala Raju		Associate Professor, SRKREC
16	Sri P.V.R.S. Padma Raju		Associate Professor, SRKREC
17	Sri G. Chatrapathi Raju		Associate Professor, SRKREC
18	Dr. S.Rajesh		Associate Professor, SRKREC
19	Dr. K.Sita Rama Raju		Associate Professor, SRKREC
20	Prof. B.S.V.Prasad Patnaik	Experts from other Universities	Prof. Department of Applied Mechanics , IIT Madras
21	Dr. G Ranga Janardhana		Prof. Dept. of Mechanical Engineering, JNTUK
22	Dr. B. Durga Prasad		Prof. Dept. of Mechanical Engineering, JNTU, Ananthapuram
23	Prof. K.Venkata Subbaiah	AU Nominee	Professor, Dept. of Mechanical Engineering , AU
24	Sri K.S.Raju	Industry Experts	Managing Director, Askar Microns(P) Ltd. Mysore.
25	Sri Radha Krishna T		Managing Director, Everglades Technologies, Tanuku
26	Dr. P.V.S.Ganesh Kumar	Expert-Professional Body	Associate Director, NSTL
27	Student representatives		

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

PRINCIPAL
S.R.K.R. Engg. College
(Autonomous)
China Amiram, Bhimayaram-534 204.

Principal's table
HOD, Mech.Engg. 3. All the above Members 4 Office file.



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gpsvarma@gmail.com

Web Site : www.srkrec.ac.in

SRKREC/BOS-1/ME/2016-17

Date: 08.07.2016

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

We wish to inform you that UGC has granted Autonomous Status to our college from the Academic Year 2016-17.

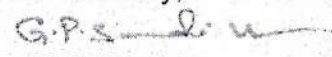
In this connection, the meeting of the Joint Board of Studies will be held on 17.07.2016 at 11-00 A.M in A.C. Auditorium, I-Block.

The Boards of Studies meetings will be conducted on 17.07.2016 at 2.30 P.M. in respective departments as per the schedule mentioned below:

S.I. No.	BOARD	DATE	TIME
1	Civil Engineering	17-07-2016	2.30 P.M.
2	Computer Science & Engineering	17-07-2016	2.30 P.M.
3	Electronics & Communication Engineering	17-07-2016	2.30 P.M.
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5	Information Technology	17-07-2016	2.30 P.M.
6	Mechanical Engineering	17-07-2016	2.30 P.M.
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	17-07-2016	2.30 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,


PRINCIPAL


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



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S.R.K.R. Engg. College
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SRKREC/BOS-1/ME/2016-17

Date: 08.07.2016

To

Dr. G. Ranga Janardhana
Department of Mechanical Engineering
University College of Engineering
JNTUK, Kakinada

Dear Sir,

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

We wish to inform you that UGC has granted Autonomous Status to our college from the Academic Year 2016-17.

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Yours faithfully,

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SRKREC/BOS-1/ME/2016-17

Date: 08.07.2016

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

We wish to inform you that UGC has granted Autonomous Status to our college from the Academic Year 2016-17.

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Yours faithfully,

G.P. Saradhi Varma
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[Signature]
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SRKREC/BOS-1/ME/2016-17

Date: 08.07.2016

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

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SRKREC/BOS-1/ME/2016-17

Date: 08.07.2016

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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SRKREC/BOS-1/ME/2016-17

Date: 08.07.2016

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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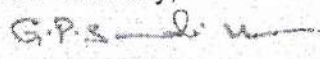
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SRKREC/BOS-1/ME/2016-17

Date: 08.07.2016

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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BHIMAVARAM-534 204.



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

Dt: 09-07-2016

CIRCULAR

This is to inform you that the Department of Mechanical Engineering will hold a meeting on 17-07-2016 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 finalize academic curriculum for B.Tech Mechanical Engineering program and M.Tech CAD/CAM programs.
2. To discuss and finalize course structure and syllabus for 4/4 - B.Tech Mechanical Engineering program , under R-16 regulations.
3. Any other items for discussion.

C.C to:

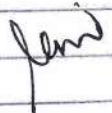
1. The Members of Board of studies
2. Office file




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

MINUTES OF THE MEETING
(ANDHRA UNIVERSITY)

First Board of studies meeting was held on 17-07-2016 in M101 (E-class Room) of Department of Mechanical Engineering at 2:00 PM. for Finalization of Academic curriculum for B.Tech (Mechanical Engineering) & M.Tech. (CAD/CAM) programs.


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

Members present
(ANDHRA UNIVERSITY)

S. NO	Name of Faculty	Designation	Signature
01	P.V.S GANESH KUMAR	ASSOCIATE DIRECTOR	fganz
02	Prof. K. Venkata Subrahsh	Professor	K. Venkata
03	G. Ranga Janardhana	Professor	G. Ranga
04	B. Durga prasad	Professor	B. Durga
05	Prof. P.V. Kumar Raju	Professor	P.V. Kumar
06	D. S. N. RAJU.	Professor	D. S. N. Raju
07	K. Satyanarayana	Professor	K. Satyanarayana
08	G. Chalapathi Rao	Associate Prof.	G. Chalapathi Rao
09	Prof. N.V. SUBBA RAJU	Professor	N.V. Subba Raju
10	Dr. V. DURGA PRASAD	Professor	V. Durga Prasad
11	Dr. K.V.M.K. Raju	Professor	K.V.M.K. Raju
12	C. SRINIVAS	Associate professor	C. Srinivas
13	V.K. VISWANADHARAJU	Associate Professor	V.K. Viswanadharaju
14	P. V. R. S. RAMA RAO	Associate Professor	P. V. R. S. Rama Rao
15	Dr. P. Rama Murthy Raju	Professor	P. Rama Murthy Raju
16	Dr. S. RAJESH	Assoc. professor	S. Rajesh
17	Dr. K. SITA RAMA RAJU	Assoc. Professor	K. Sita Rama Raju
18	Dr. K. BRAHMA RAJU	Prof & Head	K. Brahma Raju
19	K. TARUN KUMAR	Student representative 3/4	K. Tarunkumar
20	K. Sai Teja	Std. Rep. IV/IV	K. Sai Teja
21	CVSRK Raju	Associate prof	CVSRK Raju
22	CH. Gopala Raju.	Associate Prof.	CH. Gopala Raju
23	V. Mani Kumari	Student representative	V. Mani Kumari

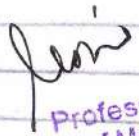
Professor & Head
Dept. of Mechanical Engg.
S.R.K.R. Engineering College
CHINA AMIRAM (P.O.)
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Contd...

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MINUTES OF THE MEETING RESOLUTIONS (ANDHRA UNIVERSITY)

- (1) Resolved to fix a total of 220 credits for B.Tech Mechanical Engineering program.
- (2) Resolved to fix a total of 80 credits for M.Tech CAD/CAM program.
- (3) Resolved to offer 3 Electives with 6 subjects in Each Elective for B.Tech Mechanical Engg. program.
- (4) Resolved to offer 4 Electives for M.Tech CAD/CAM program.
- (5) Finalized the syllabus for Engineering Graphics (1/4-B.Tech-I semester) & Metallurgy & Materials Engineering (1/4-B.Tech-I semester) courses.
- (6) Resolved to change the subjects names ETD-I, E-T-D-II & E-T-D-III to Thermodynamics, Thermal Engineering & I.C Engine & Gas Turbines.
- (7) Resolved to introduce new subjects like production planning & control (PPC), Refrigeration & Air Conditioning (R&AC) and vibrations with the regular subjects in the Autonomous pattern.
- (8) Resolved to combine Electrical Technology & Industrial Electronics in to one subject as Electrical & Electronics Engineering.
- (9) Resolved to combine Machine Drawing & production Drawing in to one subject as Mechanical Engg. Drawing.
- (10) Finalized the Academic curriculum for 4 years B.Tech Mechanical Engineering program.
- (11) Finalized the Academic curriculum for 2 years M.Tech CAD/CAM program.
- (12) Discussed about various Feedbacks while designing curriculum & syllabus


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RESOLUTIONS FOR THE MEETING DATED 17-07-2016

(1) Resolved to fix a total of 220 credits for B.Tech Mechanical Engineering program.

YEAR	1 ST SEMESTER	2 ND SEMESTER	TOTAL CREDITS
I/IV	26	24	50
II/IV	31	29	60
III/IV	34	34	68
IV/IV	20	22	42
TOTAL CREDITS			220

(2) Resolved to fix a total of 80 credits for M.Tech CAD/CAM program.

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

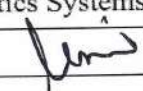
(3) Resolved to offer 3 Electives with 6 subjects in Each Elective for B.Tech Mechanical Engg. program.

#ELE-I	B16 ME 3106	Finite Element Analysis
	B16 ME 3107	Automation in Manufacturing
	B16 ME 3108	Tool Design
	B16 ME 3109	Non-Conventional Energy Resources
	B16 ME 3110	Production Planning and Control
	B16 ME 3111	Rapid Prototyping

# ELE-II	Code No.	Name of the Course
	B16 ME 3206	Control Systems
# ELE-III	B16 ME 3207	Optimization Techniques
	B16 ME 3208	Automobile Engineering
	B16 ME 3209	Supply Chain Management
	B16 ME 3210	Nano Technology
	B16 ME 3211	Computational Fluid Dynamics
	B16 ME 4104	Mechanical Vibrations
# ELE-III	B16 ME 4105	Project Management
	B16 ME 4106	Non-Destructive Testing
	B16 ME 4107	Power Plant Engineering
	B16 ME 4108	Mechatronics
	B16 ME 4109	Design for Manufacturing

(4) Resolved to offer 4 Electives for M.Tech CAD/CAM program.

	Course Code	Course
#1-Elective-I	M16 CAD 1105	Advanced Optimization Techniques
	M16 CAD 1106	Neural Networks & Fuzzy Techniques
	M16 CAD 1107	Tool Design
#2-Elective-II	M16 CAD 1108	Design of Hydraulic & Pneumatics Systems
	M16 CAD 1109	Product Design
	M16 CAD 1110	Advanced Numerical Methods


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	Course Code	Course
#3-Elective-III	M16 CAD 1205	Vision Systems & Image Processing
	M16 CAD 1206	Intelligent Manufacturing Systems
	M16 CAD 1207	Concurrent Engineering
#4-Elective-IV	M16 CAD 1208	Signal Analysis & Condition Monitoring
	M16 CAD 1209	Additive Manufacturing
	M16 CAD 1210	Metrology and Non Destructive Testing

(5) Finalized the syllabus for Engineering Graphics (1/4-B.Tech I semester) & Metallurgy & Materials Engineering (1/4-B.Tech-I semester) Courses.

Estd: 1980

SYLLABUS: ENGINEERING GRAPHICS (B16 ENG 1204)
(Common to CIVIL, CSE & IT)

Introduction

Lines, Lettering and Dimensioning, Geometrical Constructions.

Curves

Conic sections: General construction of ellipse, parabola and hyperbola. Construction of involutes Normal and Tangent.

Projections of Points

Principal or Reference Planes, Projections of a point situated in any one of the four quadrants

Projections of Straight Lines

Projections of straight lines parallel to both reference planes, perpendicular to one reference plane and parallel to other reference plane, inclined to one reference plane and parallel to the other reference plane. Projections of straight line inclined to both the reference planes:

Projections of Planes

Projection of Perpendicular planes: Perpendicular to both reference planes, perpendicular to one reference plane and parallel to other reference plane, perpendicular to one reference plane and inclined to other reference plane. Projection of Oblique planes. Introduction to Auxiliary Planes.

Projections of Solids

Types of solids: Polyhedra and Solids of revolution. Projection of solids in simple positions: Axis perpendicular to horizontal plane, Axis perpendicular to vertical plane and Axis parallel to both the reference planes, Projection of Solids with axis inclined to one reference plane and parallel to other and axes inclined to both the reference planes.

Projections of Section of Solids

Section Planes: Parallel and inclined section planes, Sections and True shape of section, Sections of Solids: Prism, Pyramid, Cylinder and Cone.

Development of Surfaces

Methods of Development: Parallel line development and radial line development. Development of a cube, prism, cylinder, pyramid and cone.

Isometric Views

Introduction to Isometric projection, Isometric scale and Isometric view. Isometric views of simple planes, Isometric view of Prisms, Pyramids, cylinder and cone. Isometric view of a combination of solids.


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SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

ChinnaAmiram, Bhimavaram-534204. (AP)

ESTD: 1980

SYLLABUS: METALLURGY AND MATERIALS ENGINEERING (B16 ME 1208)

(For Mechanical Engineering)

Structure of crystalline solids

Atomic structure & bonding in solids- Crystal structures-calculations of radius, Coordination Number and Atomic Packing Factor for different cubic structures - Imperfection in solids, point defects, Linear defects, Planar defects and Volume defects- Concept of Slip & twinning.

Phase diagrams

Basic terms- phase rule- Lever rule & free energy of phase mixtures cooling curves- Phase diagram & phase transformation - construction of phase diagrams- binary phase diagrams - Brass, Bronze, Al-Cu and AlSi phase diagrams- Invariant reactions, eutectic, peritectic, eutectoid, peritectoid, metatectic&monotectic reactions, Iron carbon phase diagram & microstructures of plain carbon steel & cast iron

Heat treatment

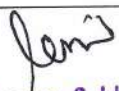
Heat treatment of steel- Annealing, and its types, normalizing, hardening, tempering, martempering, austempering - TTT diagrams, drawing of TTT diagram, TTT diagram for hypo-& hypereutectoid steels, effect of alloying elements, CCT diagram- Martensitic transformation, nature of martensitic transformation- Surface hardening processes like case hardening, carburizing, cyaniding, nitriding Induction hardening, hardenability, Jominy end-quench test, Age hardening of Al & Cu alloys Precipitation Hardening

Engineering Alloys

Properties, composition, microstructure and uses of low carbon, mild medium & high carbon steels. stainless steels, high speed steels, Hadfield steels, tool steels - Cast irons, gray CI, white CI, malleable CI, SC iron-The light alloys- Al & Mg & Titanium alloys- Copper & its alloys: brasses & bronzes- super alloys, Smart materials- Nano materials.

Composite Materials

Classification of composite materials, dispersion strengthened, particle reinforced and fiber reinforced composite laminates properties of matrix and reinforcement materials and structural applications of different types of composite materials.


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(b) Resolved to change the Subjects Names ETD-I, ETD-II & ETD-III to Thermodynamics, Thermal Engineering & I.C Engine & Gas Turbines.

Regulation: 16				II/ IV - B.TECH I- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ENG2101	Mathematics-IV	BS	4	3	1	--	30	70	100
B16 ME2101	Mechanics of Solids	ES	4	3	1	--	30	70	100
B16 ME2102	Thermodynamics	ES	4	3	1	--	30	70	100
B16 ME2103	Manufacturing Process	ES	4	4	--	--	30	70	100
B16 ME2104	Engineering Mechanics	BS	4	3	1	--	30	70	100
B16 ME2105	Mechanical Engineering Drawing	BS	4	--	--	4	30	70	100
B16 ME2107	Mechanical Engineering Lab	ES	2	--	--	3	50	50	100
B16 CE2108	Mechanics of SolidsLab	ES	2	--	--	3	50	50	100
B16 ENG2104	English Proficiency	BS	2	1	1	--	50	50	100
B16 ME2108	Auto CAD	ES	1	--	--	2	50	--	50
Total			31	17	5	12	380	570	950

Regulation: 16				II/ IV - B.Tech. II- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	C	Cr	L	T	Lab	Sessional Marks	Exam Marks	Total Marks
B16 ME2201	Advanced Strength of Materials	ES	4	3	1	--	30	70	100
B16 ME2202	Thermal Engineering	ES	4	3	1	--	30	70	100
B16 ME2203	Metal Cutting & Machine Tools	ES	4	4	--	--	30	70	100
B16 ENG2202	Engineering Economics	ES	4	4	--	--	30	70	100
B16 EE2204	Basic Electrical & Electronics Engineering	ES	4	4	--	--	30	70	100
B16 ENG2201	Environmental Studies	BS	4	3	1	--	30	70	100
B16 ME2205	Manufacturing Process Lab	ES	2	--	--	3	50	50	100
B16 EE2206	Basic Electrical & Electronics Engineering Lab	ES	2	--	--	3	50	50	100
B16 ME2206	Industry Oriented Technology Lab	BS	1	--	--	2	50	--	50
Total			29	21	3	8	330	520	850

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Regulation: 16				III/ IV - B.TECH I- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	C	Cr	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ME3101	Operations Research	ES	4	3	1	--	30	70	100
B16 ME3102	Fluid Mechanics	ES	4	3	1	--	30	70	100
B16 ME3103	IC Engines & Gas Turbines	ES	4	3	1	--	30	70	100
B16 ME3104	Industrial Measurements & Metrology	ES	4	3	1	--	30	70	100
B16 ME3105	Kinematics of Machines	ES	4	3	1	--	30	70	100
#ELE-I	Elective-I	BS	4	3	1	--	30	70	100
B16 ME3112	Industrial Metrology & Mechatronics Lab	ES	2	--	--	3	50	50	100
B16 ME3113	IC Engines Lab	ES	2	--	--	3	50	50	100
B16 ENG3102	Verbal & Quantitative Aptitude-I	BS	2	5	--	--	100	--	100
# M-I	MOOCS -I	ES	2	4	--	--	100	--	100
# M-II	MOOCS -II	ES	2	4	--	--	100	--	100
Total			34	31	6	6	580	520	1100

(7) Resolved to introduce new subjects like production planning & control (PPC), Refrigeration & Air conditioning (R&AC) and vibrations with the regular subjects in the Autonomous Pattern.

#ELE-I	B16 ME 3106	Finite Element Analysis
	B16 ME 3107	Automation in Manufacturing
	B16 ME 3108	Tool Design
	B16 ME 3109	Non-Conventional Energy Resources
	B16 ME 3110	Production Planning and Control
	B16 ME 3111	Rapid Prototyping

# ELE-III	B16 ME 4104	Mechanical Vibrations
	B16 ME 4105	Project Management
	B16 ME 4106	Non-Destructive Testing
	B16 ME 4107	Power Plant Engineering
	B16 ME 4108	Mechatronics
	B16 ME 4109	Design for Manufacturing

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Regulation: 16				III/ IV - B.TECH II- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	C	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ME3201	Industrial Engineering & Management	ES	4	3	1	--	30	70	100
B16 ME3202	Fluid Machinery & Systems	ES	4	3	1	--	30	70	100
B16 ME3203	Design of Machine Elements	ES	4	3	1	--	30	70	100
B16 ME3204	Refrigeration and Air Conditioning	ES	4	3	1	--	30	70	100
B16 ME3205	Dynamics of Machines	ES	4	3	1	--	30	70	100
# ELE-II	Elective-II	BS	4	3	1	--	30	70	100
B16 ME3212	Industrial Engineering Lab	ES	2	--	--	3	50	50	100
B16 ME3213	Fluid Mechanics & Machines Lab	ES	2	--	--	3	50	50	100
B16 ENG3202	Verbal & Quantitative Aptitude-II	BS	2	5	--	--	100	--	100
B16 ME3214	Mini Project	ES	2	--	--	3	50	--	50
# M-III	MOOCS-III	ES	2	4	--	--	100	--	100
Total			34	27	6	9	530	520	1050

(e) Resolved to Combine Electrical Technology & Industrial Electronics in to one subject as Electrical & Electronics Engineering.

Regulation: 16					II/ IV - B.Tech. II- Semester				
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	C	Cr	L	T	Lab	Sessional Marks	Exam Marks	Total Marks
B16 ME2201	Advanced Strength of Materials	ES	4	3	1	--	30	70	100
B16 ME2202	Thermal Engineering	ES	4	3	1	--	30	70	100
B16 ME2203	Metal Cutting & Machine Tools	ES	4	4	--	--	30	70	100
B16 ENG2202	Engineering Economics	ES	4	4	--	--	30	70	100
B16 EE2204	Basic Electrical & Electronics Engineering	ES	4	4	--	--	30	70	100
B16 ENG2201	Environmental Studies	BS	4	3	1	--	30	70	100
B16 ME2205	Manufacturing Process Lab	ES	2	--	--	3	50	50	100
B16 EE2206	Basic Electrical & Electronics Engineering Lab	ES	2	--	--	3	50	50	100
B16 ME2206	Industry Oriented Technology Lab	BS	1	--	--	2	50	--	50
Total			29	21	3	8	330	520	850

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(5) Resolved to Combine Machine Drawing & production Drawing in to one subject as Mechanical Engg. Drawing.

Regulation: 16				II/ IV - B.TECH I- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ENG2101	Mathematics-IV	BS	4	3	1	--	30	70	100
B16 ME2101	Mechanics of Solids	ES	4	3	1	--	30	70	100
B16 ME2102	Thermodynamics	ES	4	3	1	--	30	70	100
B16 ME2103	Manufacturing Process	ES	4	4	--	--	30	70	100
B16 ME2104	Engineering Mechanics	BS	4	3	1	--	30	70	100
B16 ME2105	Mechanical Engineering Drawing	BS	4	--	--	4	30	70	100
B16 ME2107	Mechanical Engineering Lab	ES	2	--	--	3	50	50	100
B16 CE2108	Mechanics of SolidsLab	ES	2	--	--	3	50	50	100
B16 ENG2104	English Proficiency	BS	2	1	1	--	50	50	100
B16 ME2108	Auto CAD	ES	1	--	--	2	50	--	50
Total			31	17	5	12	380	570	950

(10) Finalized the Academic Curriculum for 4 years B.Tech Mechanical Engineering program.

Regulation: 16				I/IV - B.TECH I- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	C	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ENG1101	English *	ES	4	3	1	--	30	70	100
B16 ENG1102	Mathematics-I*	ES	4	3	1	--	30	70	100
B16 ENG1103	Mathematics-II*	BS	4	3	1	--	30	70	100
B16 ENG1105	Physics	ES	4	3	1	--	30	70	100
B16 ENG1107	Engineering Graphics	ES	4	2	--	3	30	70	100
B16 ENG1109	Professional Ethics & Moral Values	ES	2	2	--	--	30	70	100
B16 ENG1111	Physics Lab	ES	2	--	--	3	50	50	100
B16 ENG1113	Workshop	ES	2	--	--	3	50	50	100
B16 ENG1114	NCC/NSS (Aesth)	BS	--	--	--	--	--	--	--
Total			26	16	4	9	280	520	800

Regulation: 16				I/IV - B.TECH II- Semester					
MECHANICAL ENGINEERING: (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	C	Cr	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ENG1201	Mathematics-III *	BS	4	3	1	--	30	70	100
B16 ENG1203	Chemistry	BS	4	3	1	--	30	70	100
B16 ENG1205	Computer Programming Using C & Numerical Methods	ES	4	3	1	--	30	70	100
B16 ENG1207	History of Science and Technology	ES	2	2	--	--	30	70	100
DS	Department Subject *	ES	4	3	1	--	30	70	100
B16 ENG1210	Chemistry Lab	ES	2	--	--	3	50	50	100
B16 ENG1212	Computer programming Using C++, Numerical Methods Lab	ES	2	--	--	3	50	50	100
B16 ENG1213	English Language Lab *	ES	2	--	--	3	50	50	100
B16 ENG1214	Sports (Aesth)	ES	--	--	--	--	--	--	--
Total			24	14	4	9	280	500	800


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Regulation: 16				II/ IV - B.TECH I- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted batch onwards)									
CodeNo.	Course	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ENG2101	Mathematics-IV	BS	4	3	1	--	30	70	100
B16 ME2101	Mechanics of Solids	ES	4	3	1	--	30	70	100
B16 ME2102	Thermodynamics	ES	4	3	1	--	30	70	100
B16 ME2103	Manufacturing Process	ES	4	4	--	--	30	70	100
B16 ME2104	Engineering Mechanics	BS	4	3	1	--	30	70	100
B16 ME2105	Mechanical Engineering Drawing	BS	4	--	--	4	30	70	100
B16 ME2107	Mechanical Engineering Lab	ES	2	--	--	3	50	50	100
B16 CE2108	Mechanics of Solids Lab	ES	2	--	--	3	50	50	100
B16 ENG2104	English Proficiency	BS	2	1	1	--	50	50	100
B16 ME2108	Auto CAD	ES	1	--	--	2	50	--	50
Total			31	17	5	12	380	570	950

Regulation: 16				II/IV - B.Tech. II- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION [With effect from 2016-17 admitted batch onwards]									
CodeNo.	Course	C	Cr	L	T	Lab	Sessional Marks	Exam Marks	Total Mark
B16 ME2201	Advanced Strength of Materials	ES	4	3	1	--	30	70	100
B16 ME2202	Thermal Engineering	ES	4	3	1	--	30	70	100
B16 ME2203	Metal Cutting & Machine Tools	ES	4	4	--	--	30	70	100
B16 ENG2202	Engineering Economics	ES	4	4	--	--	30	70	100
B16 EE2204	Basic Electrical & Electronics Engineering	ES	4	4	--	--	30	70	100
B16 ENG2201	Environmental Studies	BS	4	3	1	--	30	70	100
B16 ME2205	Manufacturing Process Lab	ES	2	--	--	3	50	50	100
B16 EE2206	Basic Electrical & Electronics Engineering Lab	ES	2	--	--	3	50	50	100
B16 ME2206	Industry Oriented Technology Lab	BS	1	--	--	2	50	--	50
Total			29	21	3	8	330	520	850

Regulation: 16				III/IV - B.TECH I- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted batch onwards)									
CodeNo.	Course	C	Cr	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ME3101	Operations Research	ES	4	3	1	--	30	70	100
B16 ME3102	Fluid Mechanics	ES	4	3	1	--	30	70	100
B16 ME3103	IC Engines & Gas Turbines	ES	4	3	1	--	30	70	100
B16 ME3104	Industrial Measurements & Metrology	ES	4	3	1	--	30	70	100
B16 ME3105	Kinematics of Machines	ES	4	3	1	--	30	70	100
#ELE-I	Elective-I	BS	4	3	1	--	30	70	100
B16 ME3112	Industrial Metrology & Mechatronics Lab	ES	2	--	--	3	50	50	100
B16 ME3113	IC Engines Lab	ES	2	--	--	3	50	50	100
B16 ENG3102	Verbal & Quantitative Aptitude-I	BS	2	5	--	--	100	--	100
# M-I	MOOCS-I	ES	2	4	--	--	100	--	100
# M-II	MOOCS-II	ES	2	4	--	--	100	--	100
Total			34	31	6	6	580	520	1100

Regulation: 16				III/IV - B.TECH II- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted batch onwards)									
CodeNo.	Course	C	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Marks
B16 ME3201	Industrial Engineering & Management	ES	4	3	1	--	30	70	100
B16 ME3202	Fluid Machinery & Systems	ES	4	3	1	--	30	70	100
B16 ME3203	Design of Machine Elements	ES	4	3	1	--	30	70	100
B16 ME3204	Refrigeration and Air Conditioning	ES	4	3	1	--	30	70	100
B16 ME3205	Dynamics of Machines	ES	4	3	1	--	30	70	100
# ELE-II	Elective-II	BS	4	3	1	--	30	70	100
B16 MU3212	Industrial Engineering Lab	ES	2	--	--	3	50	50	100
B16 MU3213	Fluid Mechanics & Machine Lab	ES	2	--	--	3	50	50	100
B16 ENG3202	Verbal & Quantitative Aptitude-II	BS	2	5	--	--	100	--	100
B16 ME3214	Mini Project	ES	2	--	--	3	50	--	50
# M-III	MOOCS-III	ES	2	4	--	--	100	--	100
Total			34	27	6	9	530	520	1050

Regulation: 16				IV/IV - B.TECH I- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	C	Cr	L	T	Lab	Sessional Marks	Exam Marks	Total Marks
B16ME4101	Computer Aided Design	ES	4	3	1	-	30	70	100
B16ME4102	Machine Design	ES	4	3	1	-	30	70	100
B16ME4103	Heat and Mass Transfer	ES	4	3	1	-	30	70	100
# ELE-III	ELECTIVE-III	ES	4	3	1	-	30	70	100
B16MU4110	Heat Transfer Lab	ES	2	-	-	3	50	50	100
B16ME4111	Project Phase-I	ES	2	-	-	3	50	-	50
Total			20	12	4	6	220	330	550

Regulation: 16			IV/ IV - B.TECH II- Semester						
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Course	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Sessional Marks	Exam Marks	Total Mark
B16ME4201	Computer Aided Manufacturing	ES	4	3	1	-	30	70	100
B16ME4202	Quality Control and Assurance	ES	4	3	1	-	30	70	100
B16ME4203	CAD/CAM Lab	ES	2	-	-	3	50	50	100
B16ME4204	Project Phase-II	ES	12	-	-	9	50	100	150
Total			22	6	2	12	160	290	450

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(11) Finalized the Academic Curriculum for 2 year M.Tech CAD/CAM Program.

Regulation: R16				M.TECH I- Semester				
MECHANICAL ENGINEERING(CAD/CAM)								
(under Choice Based Credit System / Elective Course System)								
SCHEME OF INSTRUCTION & EXAMINATION								
(With effect from 2016-17 admitted Batch onwards)								
Course Code	Course	Category	Credits	Lecture hours	Lab hours	Sessional Marks	Exam Marks	Total Marks
M16 CAD1101	Computer Graphics	ES	4	4	--	30	70	100
M16 CAD1102	Integrated Computer Aided Design	ES	4	4	--	30	70	100
M16 CAD1103	Computer Numerical Computer Technology	ES	4	4	--	30	70	100
M16 CAD1104	Robotics	ES	4	4	--	30	70	100
#1	Elective-I	ES	4	4	--	30	70	100
#2	Elective-II	ES	4	4	--	30	70	100
M16 CAD1111	CAD Lab	ES	2	--	3	50	50	100
M16 CAD1112	Seminar-I	ES	2	--	3	100	--	100
Total			28	24	6	320	470	800

Regulation: R16			M.TECH II- Semester					
MECHANICAL ENGINEERING(CAD/CAM)								
(under Choice Based Credit System / Elective Course System)								
SCHEME OF INSTRUCTION & EXAMINATION								
(With effect from 2016-17 admitted Batch onwards)								
Course Code	Course	Category	Credits	Lecture hours	Lab hours	Sessional Marks	Exam Marks	Total Marks
M16 CAD1201	Computer Integrated Manufacturing	ES	4	4	--	30	70	100
M16 CAD1202	Mechatronics	ES	4	4	--	30	70	100
M16 CAD1203	Flexible Manufacturing Systems	ES	4	4	--	30	70	100
M16 CAD1204	Finite Element Analysis	ES	4	4	--	30	70	100
#3	Elective-III	ES	4	4	--	30	70	100
#4	Elective-IV	ES	4	4	--	30	70	100
M16 CAD1211	CAM Lab	ES	2	--	3	50	50	100
M16 CAD1212	Seminar-II	ES	2	--	3	100	--	100
Total			28	24	6	330	470	800

Regulation: R16			M.TECH III- Semester		
MECHANICAL ENGINEERING(CAD/CAM)					
(under Choice Based Credit System / Elective Course System)					
SCHEME OF INSTRUCTION & EXAMINATION					
(With effect from 2016-17 admitted Batch onwards)					
Course Code	Course Title	Credits	Scheme of Examination	Exam Marks	Total Marks
M16 CAD 2101	Thesis Work- Preliminary	10	Review	100	100

Regulation: R16			M.TECH IV- Semester		
MECHANICAL ENGINEERING(CAD/CAM) (under Choice Based Credit System / Elective Course System)					
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)					
Course Code	Course Title	Credits	Scheme of Examination	Exam Marks	Total Marks
M16 CAD 2201	Thesis Work - Final	14	Viva-voce	100	100

(12) Discussed about various Feedbacks while designing curriculum & syllabus

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