VAAGDEVI COLLEGE OF ENGINEERING

(Autonomous)

Bollikunta, Khila Warangal (Mandal), Warangal Urban - 506 005 (T.S)

DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING
held on 25.03.2023 at 02:30 PM

Members Present

S. No.	Name and Address	Designation	Signature
1	Dr. P.Srinivasulu Head, MED, VCE, Warangal	Chairman	
2	Dr. E. Ramjee Professor, MED,JNTUH CEH	Member (Univ. Nominee)	
3	Mr.H.Yedukondala Rao DGM, Sriram Fuel Injection Works, Hyd.	Member (Representative from Industry)	
4	Dr. Y. Ravi Kumar Professor, MED, NIT, Warangal	Member (Subject Expert)	
5	Dr. L. Siva Rama Krishna Professor, MED,UCE, Osmania University	Member (Subject Expert)	
6	Dr. Parvesh Kumar Asst.Prof, MED, VCE, Warangal	Member (Teacher of the College)	
7	M. Anil Kumar Asst.Prof, MED, VCE, Warangal	Member (Teacher of the College)	
8	Mr. B. Akhil Graduate Trainee Engineer Hyundai Motor India Engineering, Hyd	Member (Representative from Alumni)	B. Akhil

The following decisions were taken during the Board of Studies meeting,

1. Approved the course structure & syllabi of B.Tech – Mechanical Engineering for II Year (I & II Semesters) under R22 - regulations.
2. Approved the substitute subjects for the students who have been re-admitted from R15 regulations to R18 regulations, R15 regulations to R20 regulations, R18 regulations to R20 regulations, R18 regulations to R22 regulations and R20 regulations to R22 regulations.
3. Approved the list of external faculty for the setting of the semester end examination question papers.
4. Approved the list of external evaluators for semester end examinations.
5. Approved the syllabus of "Solid Mechanics and Hydraulic Machines" for B.Tech – Electrical and Electronics Engineering for II Year II Semester.

The chairman of Board of studies thanked all the members for their Suggestions and valuable guidance.

Chairman/BoS

VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)
MECHANICAL ENGINEERING

COURSE STRUCTURE
(R22 Regulations applicable for the batches admitted from Academic Year 2022-2023)

II YEAR I SEMESTER

S. No.	Course Code	Title of the Course	L	T	P	Credits
1		Probability, Statistics & Complex Variables	3	1	0	4
2		Mechanics of Solids	3	0	0	3
3		Metallurgy & Material Science	3	0	0	3
4		Production Technology	3	0	0	3
5		Thermodynamics	3	1	0	4
6		Production Technology Laboratory	0	0	2	1
7		Material Science & Mechanics of Solids Laboratory	0	0	2	1
8		Computer Aided Machine Drawing	0	0	2	1
9		Logical Reasoning and Quantitative Aptitude	3	0	0	0
		Total	**18**	**2**	**6**	**20**

II YEAR II SEMESTER

S. No.	Course Code	Title of the Course	L	T	P	Credits
1		Basic Electrical and Electronics Engineering	3	0	0	3
2		Kinematics of Machinery	3	0	0	3
3		Fluid Mechanics & Hydraulic Machines	3	0	0	3
4		IC Engines & Gas Turbines	3	0	0	3
5		Instrumentation and Control Systems	3	0	0	3
6		Basic Electrical and Electronics Engineering Laboratory	0	0	2	1
7		Fluid Mechanics & Hydraulic Machines Laboratory	0	0	2	1
8		Instrumentation and Control Systems Laboratory	0	0	2	1
9		Real-time Research Project/ Field-Based Project	0	0	4	2
10		Gender Sensitization Lab	0	0	2	0
		Total	**15**	**0**	**12**	**20**

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VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)

(B22ME10) PRODUCTION TECHNOLOGY LABORATORY

B. TECH - II Year I Sem **L/T/P/C 0/0/2/1**

PRE-REQUISITES: Production Technology

COURSE OBJECTIVES:
1. Know about the basic Physical, Chemical Properties of materials.
2. Learn the basic operation of various manufacturing processes.
3. Design and fabricate a simple product.

Minimum of 12 Exercises need to be performed.

I. Metal Casting Lab:
1. Pattern Design and making - for one casting drawing.
2. Sand properties testing - Exercise -for strengths, and permeability – 1
3. Moulding Melting and Casting - 1 Exercise

II. Welding Lab:
1. ARC Welding Lap & Butt Joint - 2 Exercises
2. Spot Welding - 1 Exercise
3. TIG Welding - 1 Exercise
4. Gas Welding - 2 Exercises

III. Mechanical Press Working:
1. Blanking & Piercing operation and study of simple, compound and progressive press tool.
2. Hydraulic Press: Deep drawing and extrusion operation.
3. Bending and other operations

IV. Processing of Plastics
1. Injection Moulding
2. Blow Moulding

COURSE OUTCOMES:
After completion of the course, the student will be able to
1. Analyze the given problem and conducts investigation on the experimental setup.
2. Operate different types of welding machines
3. Perform operations on mechanical press.
4. Get familiarity with processing of Plastics.
5. Effectively communicate and explain the experimental analysis.

REFERENCE BOOK:
1. Dictionary of Mechanical Engineering – G.H.F. Nayler, Jaico Publishing House

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VAAGDEVI COLLEGE OF ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

The following Transitory Rules will be in force for the students who have re – admitted from R15 Regulations into R18 Regulations.

Branch	Year & Semester	Subjects studied in R15 and repeated Subjects in R18	Substitute subjects for R18
Mechanical	I - I	Nil	Nil
	I - II	Nil	Nil
	II - I	Nil	Nil
	II – II	Nil	Nil
	III – I	Intellectual Property Rights (Open Elective I)	Entrepreneurship Development (Open Elective I)
	III – II	Nil	Nil
	IV – I	Nil	Nil
	IV - II	Nil	Nil

The following Transitory Rules will be in force for the students who have re – admitted from R15 Regulations into R20 Regulations.

Branch	Year & Semester	Subjects studied in R15 and repeated Subjects in R20	Substitute subjects for R20
Mechanical	I - I	Nil	Nil
	I - II	Nil	Nil
	II - I	Nil	Nil
	II – II	Fuels and Lubricants Lab (II – I)	Elements of Mechanical Engineering
	III – I	Nil	Nil
	III – II	Nil	Nil
	IV – I	Automobile Engineering (III – II)	Gas Dynamics
	IV - II	Nil	Nil

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DEPARTMENT OF MECHANICAL ENGINEERING

The following Transitory Rules will be in force for the students who have re – admitted from R18 Regulations into R20 Regulations.

Branch	Year & Semester	Subjects studied in R18 and repeated Subjects in R20	Substitute subjects for R20
Mechanical	I – I	Nil	Nil
	I - II	Nil	Nil
	II - I	Nil	Nil
	II – II	Fuels & Lubricants Lab (II – I)	Elements of Mechanical Engineering Lab
	III – I	Nil	Nil
	III – II	Nil	Nil
	IV – I	Automobile Engineering (III – II)	Non Conventional Energy Sources
	IV - II	Nil	Nil

The following Transitory Rules will be in force for the students who have re – admitted from R18 Regulations into R22 Regulations.

Branch	Year & Semester	Subjects studied in R18 and repeated Subjects in R22	Substitute subjects for R22
Mechanical	I – I	Nil	Nil
	I - II	Engineering Chemistry (I – I)	Applied Physics
	II – I	Nil	Nil
	II - II	Nil	Nil

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DEPARTMENT OF MECHANICAL ENGINEERING

The following Transitory Rules will be in force for the students who have re – admitted from R20 Regulations into R22 Regulations.

Branch	Year & Semester	Subjects studied in R20 and repeated Subjects in R22	Substitute subjects for R22
Mechanical	I – I	Nil	Nil
	I - II	Nil	Nil
	II – I	Nil	Nil
	II - II	Nil	Nil

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VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)

(B22ME11) MATERIAL SCIENCE & MECHANICS OF SOLIDS LABORATORY

B. TECH - II Year I Sem **L/T/P/C**
0/0/2/1

PRE-REQUISITES: Material Science and Metallurgy

MATERIAL SCIENCE LAB:

COURSE OBJECTIVES:

The Objective is to make the students to learn the concepts of Metallurgy and Material Science in manufacturing processes, which convert raw materials into useful products. Students will be able to understand basic structure and crystal arrangements of materials and classify and distinguish different microstructures of steels, cast irons and non-ferrous alloys.

LIST OF EXPERIMENTS:

1. Preparation and study of crystal models for simple cubic, body centred cubic, face centred cubic and hexagonal close packed structures.
2. Preparation and study of the Microstructure of pure metals like Iron, Cu and Al.
3. Preparation and study of the Microstructure of Mild steels, low carbon steels, high Carbon steels.
4. Study of the Microstructures of Various Cast Irons.
5. Study of the Microstructures of Non-Ferrous alloys. (Al, Cu, Mg)
6. Hardenability of steels by Jominy End Quench Test.

COURSE OUTCOMES:

At the end of the lab, the student will be able to

1. Design different crystal structures and their models.
2. Infer the microstructures developed for different ferrous and non-ferrous metals.
3. Correlate the microstructures, properties, performance and processing of alloys.

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MECHANICS OF SOLIDS LAB:

COURSE OBJECTIVES:

The objective is to learn the fundamental concepts of stress, strain, and deformation of solids with applications to bars, beams, and columns. Detailed study of engineering properties of materials is also of interest. Fundamentals of applying equilibrium, compatibility, and force deformation relationships to structural elements are emphasized. The students are introduced to advanced concepts of flexibility and stiffness method of structural analysis. The course builds on the fundamental concepts of engineering mechanics course.

LIST OF EXPERIMENTS:

1. Direct tension test
2. Bending test on Simple supported beam
3. Bending test on Cantilever beam
4. Torsion test
5. Brinell hardness test/ Rockwell hardness test
6. Test on springs
7. Izod Impact test/ Charpy Impact test

COURSE OUTCOMES:

At the end of the lab, the student will be able to:

1. Analyze the behavior of the solid bodies subjected to various types of loading.
2. Apply knowledge of materials and structural elements to the analysis of simple structures.
3. Undertake problem identification, formulation and solution using a range of analytical methods.
4. Analyze and interpret laboratory data relating to behavior of structures and the materials they are made of, and undertake associated laboratory work individually and in teams.
5. Expectation and capacity to undertake lifelong learning.

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VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)

(B22ME12) COMPUTER AIDED MACHINE DRAWING

B. TECH - II Year I Sem **L/T/P/C 0/0/2/1**

COURSE OBJECTIVES:

To familiarize with the standard conventions for different materials and machine parts in working drawings. To make part drawings including sectional views for various machine elements. To prepare assembly drawings given the details of part drawings.

DRAWING OF MACHINE ELEMENTS AND SIMPLE PARTS

Selection of Views, additional views for the following machine elements and parts with every drawing proportion.

1. Popular forms of Screw threads, bolts, nuts, stud bolts, tap bolts, set screws.
2. Keys, cottered joints and knuckle joint.
3. Rivetted joints
4. Shaft coupling, spigot and socket pipe joint.
5. Journal, pivot and collar and footstep bearings.

DRAWING OF MACHINE ELEMENTS:

Using Computer aided drafting in addition to manual drawing.

ASSEMBLY DRAWINGS:

Drawings of assembled views for the part drawings of the following using conventions and easy drawing proportions.

1. Steam engine parts – stuffing box, cross head, Eccentric.
2. Machine tool parts: Tail stock, Tool Post, Machine Vices.
3. Other machine parts - Screw jack, Connecting rod, Plumber block, Fuel Injector
4. Valves - Steam stop valve, spring loaded safety valve, feed check valve and air cock.

ASSEMBLY DRAWINGS:

Using Computer aided drafting in addition to manual drawing.

NOTE:

1. First angle projection to be adopted.
2. All the drawing components/Assembly to be drawn using any Computer aided drafting package.

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COURSE OUTCOMES:

1. Preparation of engineering and working drawings with dimensions and bill of material during design and development. Developing assembly drawings using part drawings of machine components.
2. Conventional representation of materials, common machine elements and parts such as screws, nuts, bolts, keys, gears, webs, ribs.
3. Types of sections – selection of section planes and drawing of sections and auxiliary sectional views. Parts not usually sectioned.
4. Methods of dimensioning, general rules for sizes and placement of dimensions for holes, centers, curved and tapered features.
5. Title boxes, their size, location and details - common abbreviations and their liberal usage
6. Types of Drawings – working drawings for machine parts.

TEXTBOOKS:

1. Machine Drawing / N.D. Bhatt / Charotar
2. Machine Drawing with Auto CAD / Goutham Pohit, Goutam Ghosh / Pearson

REFERENCE BOOKS:

1. Machine Drawing by / Bhattacharyya / Oxford
2. Machine Drawing / Ajeet Singh / Mc Graw Hill

NOTE:

External examination is conducted in conventional mode and internal evaluation to be done by both conventional as well as using computer aided drafting.

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VAAGDEVI COLLEGE OF ENGINEERING
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FLUID MECHANICS & HYDRAULIC MACHINES LABORATORY

B. TECH - II Year II Sem **L/T/P/C 0/0/2/1**

COURSE OBJECTIVES:

1. To understand the basic principles of fluid mechanics.
2. To identify various types of flows.
3. To understand boundary layer concepts and flow through pipes.
4. To evaluate the performance of hydraulic turbines.
5. To understand the functioning and characteristic curves of pumps.

LIST OF EXPERIMENTS:

1. Impact of jets on Vanes.
2. Performance Test on Pelton Wheel.
3. Performance Test on Francis Turbine.
4. Performance Test on Kaplan Turbine.
5. Performance Test on Single Stage Centrifugal Pump.
6. Performance Test on Multistage Centrifugal Pump.
7. Performance Test on Reciprocating Pump.
8. Calibration of Venturimeter.
9. Calibration of Orifice meter.
10. Determination of friction factor for a given pipeline.
11. Determination of loss of head due to sudden contraction in a pipeline.
12. Verification of Bernoulli's Theorems.

COURSE OUTCOMES:

1. Able to explain the effect of fluid properties on a flow system.
2. Able to identify type of fluid flow patterns and describe continuity equation.
3. To analyze a variety of practical fluid flow and measuring devices and utilize fluid mechanics principles in design.
4. To select and analyze an appropriate turbine with reference to given situation in power plants.
5. To estimate performance parameters of a given Centrifugal and Reciprocating pump.
6. Able to demonstrate boundary layer concepts.

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VAAGDEVI COLLEGE OF ENGINEERING
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INSTRUMENTATION AND CONTROL SYSTEMS LABORATORY

B. TECH - II Year II Sem **L/T/P/C**
0/0/2/1

PRE-REQUISITES: Basic principles of Instrumentation and control systems

LIST OF EXPERIMENTS:

1. Calibration of Pressure Gauges.
2. Calibration of transducer for temperature measurement.
3. Study and calibration of LVDT transducer for displacement measurement.
4. Calibration of strain gauge for temperature measurement.
5. Calibration of thermocouple for temperature measurement.
6. Calibration of capacitive transducer for angular displacement.
7. Study and calibration of photo and magnetic speed pickups for the measurement of speed.
8. Calibration of resistance temperature detector for temperature measurement.
9. Study and calibration of a rotameter for flow measurement.
10. Study and use of a Seismic pickup for the measurement of vibration amplitude of an engine bed at various loads.
11. Study and calibration of McLeod gauge for low pressure.

COURSE OUTCOMES:

At the end of the course, the student will be able to

1. Characterize and calibrate measuring devices.
2. Identify and analyze errors in measurement.
3. Calibration of Pressure Gauges, temperature, LVDT, capacitive transducer, rotameter.

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VAAGDEVI COLLEGE OF ENGINEERING
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SOLID MECHANICS AND HYDRAULIC MACHINES

B. TECH - II Year II Sem **L/T/P/C**
3/1/0/4

COURSE OBJECTIVES:

- To identify an appropriate structural system and work comfortably with basic engineering mechanics and types of loading & support conditions that act on structural systems.
- To understand the meaning of centers of gravity, centroids, moments of Inertia and rigid body dynamics.
- To Study the characteristics of hydroelectric power plant and Design of hydraulic machinery.

UNIT – I:

INTRODUCTION OF ENGINEERING MECHANICS: Basic concepts of System of Forces-Coplanar Forces–Components in Space–Resultant- Moment of Forces and its Application – Couples and Resultant of Force System - Equilibrium of System of Forces-Free body diagrams - Direction of Force Equations of Equilibrium of Coplanar Systems and Spatial Systems – Vector cross product- Support reactions different beams for different types of loading – concentrated, uniformly distributed and uniformly varying loading. Types of friction – Limiting friction – Laws of Friction – static and Dynamic Frictions – Angle of Friction – Cone of limiting friction

UNIT – II:

CENTROID AND CENTER OF GRAVITY: Centroids – Theorem of Pappus - Centroids of Composite figures – Centre of Gravity of Bodies – Area moment of Inertia:–polar Moment of Inertia–Transfer– Theorems - Moments of Inertia of Composite Figures.

SIMPLE STRESSES AND STRAINS ANALYSIS: Concept of stress and strain- St. Venant's Principle- Stress and Strain Diagram - Elasticity and plasticity – Types of stresses and strains- Hooke's law – stress – strain diagram for mild steel – Working stress – Factor of safety – Lateral strain, Poisson's ratio and volumetric strain – Pure shear and Complementary shear - Elastic modulii, Elastic constants and the relationship between them

UNIT – III:

KINEMATICS & KINETICS: Introduction – Rectilinear motion – Motion with uniform and variable acceleration–Curvilinear motion– Components of motion– Circular motion Kinetics of a particle – D'Alembert's principle – Motion in a curved path – work, energy and power. Principle of conservation of energy – Kinetics of a rigid body in translation, rotation – work done – Principle of work-energy – Impulse-momentum.

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UNIT – IV:

BASICS OF HYDRAULIC MACHINERY: Hydrodynamic force of jets on stationary and moving flat, inclined and curved vanes, Jet striking centrally and at tip, Velocity triangles at inlet and outlet, expressions for work done and efficiency Elements of a typical Hydropower installation – Heads and efficiencies

UNIT – V:

TURBINES & PUMPS: Classification of turbines – Pelton wheel – Francis turbine – Kaplan turbine – working, working proportions, velocity diagram, work done and efficiency, hydraulic design. Draft tube – Classification, functions and efficiency. Governing of turbines, Performance of turbines

Pump installation details – classification – work done – Manometric head – minimum starting speed – losses and efficiencies – specific speed. Multistage pumps – pumps in parallel

COURSE OUTCOMES:

After learning the contents of this paper the student must be able to

- Solve problems dealing with forces, beam and cable problems and understand distributedforce systems.
- Solve friction problems and determine moments of Inertia and centroid of practical shapes.
- Apply knowledge of mechanics in addressing problems in hydraulic machinery and its principles that will be utilized in Hydropower development and for other practical usages.

TEXTBOOKS:

1. M.V. Seshagirirao and Durgaih, "Engineering Mechanics",University Press.
2. P.N Modi and Seth, " Fluid Mechanics and Hydraulic Machinery", standard Book House

REFERENCE BOOKS:

1. B. Bhattacharya, "Engineering Mechanics", Oxford University Publications.
2. Hibbler, "Engineering Mechanics (Statics and Dynamics)", Pearson Education.
3. Fedrinand L. Singer, " Engineering Mechanics" Harper Collings Publishers.
4. A.K.Tayal, "Engineering Mechanics" , Umesh Publication.
5. Domkundwar & Domkundwar, "Fluid mechanics & Hydraulic Machines", Dhanpat Rai & C
6. R.C.Hibbeler, "Fluid Mechanics", Pearson India Education Servieces Pvt. Ltd
7. D.S.Kumar, "Fluid Mechanic & Fluid Power Engineering", Kataria & Sons Publications Pvt. Ltd.
8. Banga & Sharma, "Hydraulic Machines" Khanna Publishers.

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DEPARTMENT OF MECHANICAL ENGINEERING

LIST OF QUESTION PAPER SETTERS

S. No.	Name of the Faculty	Name of the College	Email ID	Mobile Number
1	Dr. G. Naga Srinivasulu	National Institute of Technology, Warangal	gns@nitw.ac.in	9440509659
2	Dr. A. Rajkumar	Guru Nanak Institute of Technology, Hyderabad	aluga72@gmail.com	9948849578
3	Dr. M. Venkata Ramana	VNR Vignan Jyothi Institute of Technology	mandalavenki @gmail.com	9849768437
4	Dr. N. Kiran Kumar	VNR Vignan Jyothi Institute of Technology	kirankumar_n @vnrvjiet.in	9846325415
5	Dr. P. Srikanth	Kakatiya Institute of Technology and Science, Warangal	psk.mech.kits @gmail.com	9849278378
6	Dr. G. Ganesh Kumar	Kakatiya Institute of Technology and Science, Warangal	ganesh.gampa @gmail.com	9849502775
7	Dr. K. Sridhar	Kakatiya Institute of Technology and Science, Warangal	kandurisridhar @rediffmail.com	9493004837
8	Dr. K. Raja Narender Reddy	Kakatiya Institute of Technology and Science, Warangal	krnr.me@kitsw.ac.in	9396431009
9	Dr. V. Vikram Reddy	Balaji Technology and Science, Narsampet	vaddi.vikramreddy @gmail.com	8341525560
10	Dr. P. Sammaiah	SR University, Warangal	Pullasammaiah @gmail.com	9391527772
11	Dr. Ch. Radhika Reddy	Kakatiya University	radhikareddy.chada @gmail.com	8686876092
12	Dr. M. V. Satish Kumar	Kamala Institute of Technology and Science, Huzurabad	satishkitss@gmail.com	9849313697
13	Dr. G. Amarender Rao	Vignana Bharati Institute of Technology	amarendar_g @rediffmail.com	9849524535
14	Ms. M. Madhavi	Vignana Bharati Institute of Technology	madhaviam09 @gmail.com	9908863643
15	Dr. J. Anjaneyulu	Vasavi College of Engineering	anjaneyulu_jalleda @yahoo.co.in	8247595408

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4 Chairman/BoS

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VAAGDEVI COLLEGE OF ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

LIST OF EVALUATORS

S. No.	Name of the Faculty	Name of the College
1	Dr. G. Naga Srinivasulu	National Institute of Technology, Warangal
2	Dr. J. Anjaneyulu	Vasavi College of Engineering, Hyderabad
3	Dr. M. Venkata Ramana	VNR Vignan Jyothi Institute of Technology, Hyderabad
4	Dr. N. Kiran Kumar	VNR Vignan Jyothi Institute of Technology, Hyderabad
5	Dr. A. Rajkumar	Guru Nanak Institute of Technology, Hyderabad
6	Dr. P. Srikanth	Kakatiya Institute of Technology and Science, Warangal
7	Dr. G. Ganesh Kumar	Kakatiya Institute of Technology and Science, Warangal
8	Dr. K. Sridhar	Kakatiya Institute of Technology and Science, Warangal
9	Dr. K. Raja Narender Reddy	Kakatiya Institute of Technology and Science, Warangal
10	Dr. Ch. Radhika Reddy	University College of Engineering, KU, Warangal
11	Dr. P. Sammaiah	SR University, Warangal
12	Dr. M. V. Satish Kumar	Kamala Institute of Technology and Science, Huzurabad
13	Dr. G. Amarender Rao	Vignana Bharati Institute of Technology, Hyderabad
14	Dr. P. Kishore Kumar	Vignana Bharati Institute of Technology, Hyderabad
15	Dr. B. Satish Kumar	Vignana Bharati Institute of Technology, Hyderabad
16	Ms. M. Madhavi	Vignana Bharati Institute of Technology, Hyderabad
17	Ms. P. Priyanka	Vignana Bharati Institute of Technology, Hyderabad
18	Mr. K. Ramu	Vignana Bharati Institute of Technology, Hyderabad
19	Mr. Ch. Ramakrishna	Vignana Bharati Institute of Technology, Hyderabad
20	Dr. K. Ravi Kumar	CMR Technical Campus, Hyderabad
21	Dr. V. Vikram Reddy	Balaji Technology and Science, Narsampet

1 2 3 4 Chairman/BoS

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