



DEPARTMENT OF MECHANICAL ENGINEERING
BOARD OF STUDIES

Minutes of Meeting -I

Agenda:

- Discussion and finalization of **I B. Tech, I Semester, II Semester** course structure & syllabus as per VKR24 Regulations.
- Finalization of **II B. Tech, I Semester, II Semester** course structure & syllabus as Per VKR24 Regulations.
- Any other matter.

Meeting Minutes:

- The **B.Tech** curriculum and syllabus for **I & II B. Tech, I Semester, II Semester** were presented by **Dr. G V N B Prabhakar**, Prof. & Head/ME, Chairman of Board of Studies.
- The members suggested that for **I B. Tech, Engineering Graphics**, frame the syllabus with Continuity and eliminate the duplications. No need of sections of solids and development of surfaces for **I B. Tech, CSE & Allied branches**.
- "The members suggested the following changes to the **I B. Tech, II Semester Engineering Mechanics** syllabus for
I B. Tech, II Semester:
In Unit-1:
 - Add Laws of mechanics, Characteristics of forces, resolution & composition of forces
 - shift Friction content from Unit-1 to Unit-2 due to heavy syllabus in the unit-1In Unit-2:
 - Eliminate the topic "Spatial system of forces using vector approach"
 - Add Friction as the second contentIn Unit-3:
Eliminate the topic "Area Moments of Inertia of Composite Figures" due to heavy syllabus.
In Unit-4:
Add the following topics:
 - General principles in dynamics
 - Rectilinear and curvilinear motions
 - Motion with uniform velocity, uniform acceleration, and non-uniform acceleration"
- The members suggested that for **II B. Tech, I Semester, Thermodynamics** subject, the vast syllabus and also some portion of syllabus which is Difficult for the students to assess with in the short period of time, is proposed to modify.
- Based on suggestion given by the BOS members in **II B. Tech, I Semester, Mechanics of Solids** subject in Unit-I incorporate the topic of "Simple Stress and Strain Energy" and avoid the topics Temperature stresses- Complex Stresses - Stresses on an inclined plane under different uniaxial and biaxial stress conditions. In Unit-II, remove the topics of Overhang beam and varying loads and continue with the Point and Uniform Distribution Loads. In Unit-IV duplications Mohr's theorem and Moment area method will be removed. In Unit-V columns concept will be removed.



- "The BOS decided to split Unit-I into two parts and also proposed to introduce some topics from Unit-5 in the **Material Science and Metallurgy** subject for **II B. Tech, I Semester**".
- Based on suggestion given by the BOS members for **II B. Tech, II Semester, Industrial Management** subject, slightly modify the syllabus related to industry use and avoid some unrelated updated Terminology such as therbligs and string diagrams.
- Based on suggestion given by the BOS members, for **II B. Tech, II Semester, Fluid Mechanics & Hydraulic Machines** subject to reduce the syllabus and increase the introductory problems.
- Based on suggestion given by the BOS members, if possible, the subject **Design Thinking and innovation, II B. Tech, II Semester** must register through NPTEL.
- The members had the discussion and interaction among them, after discussion relevant comments were incorporated appropriately in the course structure and syllabus.
- Based on the suggestions given by the members, BOS resolved to approve the course structure and syllabus for 1st and 2nd year B.Tech degree course under VKR 24 Regulations

Board of studies recommended the above resolutions to be presented in the academic council for further approval

The following signed BOS Members has been attended and the Syllabus attached herewith for implementation from 2024-2025 Academic Year as VKR24 Regulation Syllabus is accepted by all the following BOS Members for implementation.

S. No.	Name	Designation	Role	Signature
1	Dr. G. V. N. B. Prabhakar	HOD/ ME Dept., VKR, VNB & AGK College of Engineering, Gudivada vkrmechhod@gmail.com 9553124014	Chairman	
2	Prof. V. V. Subba Rao	Professor, ME Department UCEK, JNTUK, Kakinada rao703@jntucek.ac.in 9440555477	Member (JNTUK Nominee)	
3	Dr. N. Ravi Kumar	Professor, Department of Mechanical Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Deemed to be University, Kanuru, Vijayawada, Andhra Pradesh 520007 nravikumar@vrsiddhartha.ac.in 9849733323	Member (Other university)	
4	Dr. B. Ratna Sunil	Associate Research Professor, Department of Mechanical Engineering, Prince Mohammad Bin Fahd University (PMU), P.O. Box 1664 Al Khobar-31952, Kingdom of Saudi Arabia	Member (Other University)	



		rburadagunta@pmu.edu.sa 9677119819.		
5	Prof. M. Srinivasa Kumar	Professor & Principal Srinivasa Institute of Engineering and Technology, NH-216, Cheyyeru Village, Krapa Chintalapudi(post), Katrenikona(M), Amalapuram, E. G. Dist-533216. mking2030@gmail.com 9440757039	Member (Other Autonomous College)	
6	Sri Kuchipudi Srinivas	Manager, Bhaskar Metal Industry (BMI), Eluru Road, Nagavarappadu, Gudivada, Andhra Pradesh 521301. srinivaskuchipudi30@gmail.com Contact: 9052156777	Member (Industrial Expert)	
7	Sri K. Durga Prasad	Associate Professor, Department of Mechanical Engineering, VKR, VNB & AGK College of Engineering, Gudivada. dpkollipara@gmail.com 9491585714	Member (Internal faculty)	
8	Sri M. Sai Santosh Kumar	Associate Professor, Department of Mechanical Engineering, VKR, VNB & AGK College of Engineering, Gudivada santoshsaimech@gmail.com 9000966535	Member (Internal faculty)	
9	Sri K. Manipaul	Assistant Professor, Department of Mechanical Engineering, VKR, VNB & AGK College of Engineering, Gudivada mistermechmanipaul@gmail.com 9000814131	Member (Internal faculty)	
10	Sri P. Krishnam Raju	Assistant Professor, Department of Mechanical Engineering, VKR, VNB & AGK College of Engineering, Gudivada krishnamraju307@gmail.com Contact: 7013141296	Member (Internal faculty)	
11	Mr. P. Sai Naga Venkata Sesa Kumar (15NH5A0312)	Managing Director, Sri Sai Flour and Dal Mill, Tammalampadu, Pedaparupudi Mandal, Krishna-521321 kumarperumalla6@gmail.com Contact: 8639931019.	Member (Alumni)	



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MECHANICAL ENGINEERING

VKR, VNB & AGK
COLLEGE OF ENGINEERING
 An Autonomous Institution

Approved by AICTE, New Delhi;
 Affiliated to JNTUK, Kakinada
 An ISO 9001:2015 Certified Institute,
 Accredited by NAAC 'A'
 GUDIVADA - 521301, Krishna District, A. P.

MEMBERS OF BOARD OF STUDIES

1. Dr. G. V. N. B. Prabhakar, **HOD, ME (Chairman)**
2. Dr.V V Subba Rao, Professor, **(JNTUK Nominee)**
3. Dr.N.Ravi Kumar, Professor, Siddhartha Academy of Higher Education (Deemed to be University) Vijayawada. **(Other University Nominee)**
4. Dr. B. Ratna Sunil, Associate Research Professor, Prince Mohammad Bin Fahd University (PMU), Kingdom of Saudi Arabia. **(Other University Nominee)**
5. Dr.M.Srinivasa Kumar, Professor & Principal, Srinivasa Institute of Engineering and Technology, Amalapuram, A.P. **(Other Autonomous college Nominee)**
6. Sri Kuchipudi Srinivas, Manager, Bhaskar Metal Industry(BMI), Gudivada,A.P. **(Industry Expert)**
7. Sri K. Durga Prasad, Assoc.Professor**(Member)**
8. Sri M. Sai Santosh Kumar, Assoc.Professor**(Member)**
9. Sri K. Manipaul ,Assoc.Professor**(Member)**
10. Sri P. Krishnar...
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Participants: S (Santosh), VR (V V Subba Rao), NK (N Ravi K...), MANIPA..., PR (p. krishn...), Dr. B. Ra..., DK (Dr. M. Sre...)

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Participants

Type a name

Presenters (2)

- V V Subba Rao (Unverified) Organizer
- MANIP... (Unverified)

Attendees (7)

- DK Dr M Sreenivasa K... (Unverified)
- DS Dr. B. Ratna Sunil (External)
- NK N RAVI KUMAR (Unverified)
- PR p. krishnam raju (Unverified)
- S santosh (Unverified)
- VR V V Subba Rao (Unverified)

V V Subba Rao (Unverified)

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