



DEPARTMENT OF MECHANICAL ENGINEERING
BOARD OF STUDIES
MEETING MINUTES-2

4/05/2026

AGENDA:

- Discussion and finalization of 3rd year (1st Sem & 2nd Sem) course structure & syllabus as per VKR24 Regulations.
- Finalization of 4th year (1st Sem & 2nd Sem) course structure & syllabus as Per VKR24 Regulations.
- Any other matter.

MEMBERS ATTENDED FOR BOARD OF STUDIES:

S. No	Name of the BoS Member	Designation	Signature
1	Dr. G. V. N. B. Prabhakar	Chairman, Professor & HOD, ME	
2	Prof. D. Linga Raju	Professor, JNTUK Nominee	
3	Dr. N. Ravi Kumar	Professor, Siddhartha Academy of Higher Education (Deemed to be University) Vijayawada. (Other University Nominee)	Online
4	Dr. B. Ratna Sunil	Associate Research Professor, Prince Mohammad Bin Fahd University (PMU), Kingdom of Saudi Arabia. (Other University Nominee)	Online
5	Dr. M. Srinivasa Kumar	Professor & Principal, Sree Venkateswara College of Engineering, SVCE(Autonomous) Nellore, A.P (Other Autonomous college Nominee)	Online
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. Krishnam Raju	Assoc. Professor (Member)	
11	Mr. P. Sai Naga Venkata Sessa Kumar	Managing Director, Sri Sai Flour and Dal Mill (Student Alumni.)	



Meeting Minutes:

- The B. Tech curriculum and syllabus for 3rd & 4th year were presented by
Dr. G V N B Prabhakar, Prof. & Head/ME, Chairman of Board of Studies.
- The members suggested that frame the syllabus with Continuity and eliminate the duplications.
- The BOS resolved to anticipate "Solar Energy" topic from Unit-V with Gas turbine topic in the Unit-I as the Solar Energy topic is detailed in the subject Non-Conventional Energy Resources.
- Based on suggestion given by the BOS members For DME subject in the 3rd Year slightly modify the syllabus related to Welded Joints and added related Terminology such as Eccentric Loading as the Welded joints topic is located in MP subject.
- Based on suggestion given by the BOS members For FEM subject, slightly modify the syllabus related to industry use and split the syllabus into different parts.
- Based on suggestion given by the BOS members, for R&D lab it is proposed to nominate the lab as complete subject for students to raise the knowledge in IoT and Drone technology.
- Based on suggestion given by the BOS members, the students are to be encouraged to get register in AI & ML subjects through NPTEL.
- The BOS members suggested to introduce 3D Printing lab and IoT related labs from 3rd year.
- 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 3rd and 4th 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.



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Engineering Curriculum – 2024 VKR - 24 Course Structure & Syllabus (I

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.

DEPARTMENT OF MECHANICAL ENGINEERING

III B.Tech II Semester	L	T	P
MECHATRONICS LAB (Smart Manufacturing)	0	0	3

Course Objective:

- 1) Measure load, displacement and temperature using analogue and digital sensors
- 2) Develop PLC programs for control of traffic lights, water level, lifts and conveyor belts.
- 3) Simulate and analyze PID controllers for a physical system using MATLAB.
- 4) Develop pneumatic and hydraulic circuits using Automation studio.

LIST OF EXPERIMENTS

1. Transducers Kit :-
 - a. Characteristics of LVDT
 - b. Principle & Characteristics of Strain Gauge
 - c. Characteristics of Summing Amplifier
 - d. Characteristics of Reflective Opto Transducer
2. PLC PROGRAMMING & Simulation of Allen Bradley, Siemens or IEC Ladder Using Autom Studio
 - a. Ladder programming on Logic gates ,Timers (TON,TOFF) &counters (UP,DOWN)
 - b. Ladder Programming for digital &Analogy sensors
 - c. Ladder programming & Simulations of Virtual System such as Traffic Light control, Washing machine, Garage Door, Water level control, Lift control, Conveyor Belt etc.
 - d. Ladder programming to control circuits such as single solenoid spring return latch circuit, double solenoid Hydraulic / Pneumatic circuits, Self-Reciprocating Hydraulic / Pneumatic Circuit.

MANIPAUL KOMMUGURI ...

N.Ravi ... Dr MS K... MANIPAUL KO...

Microphone, Speaker, and other meeting controls are visible at the bottom.


 Chairman BoS / ME



Some of video conference pics for conducting BOS meeting through Microsoft teams



