



VASAVI COLLEGE OF ENGINEERING (Autonomous)

9-5-81, Ibrahimbagh, Hyderabad-500031, Telangana, India

(Sponsored by Vasavi Academy of Education)

Phone: +91-40-23146003 Fax: +91-40-23146090, +91-40-23146080

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 26.06.2023

Minutes of the fourteenth meeting of Board of Studies, Mechanical Engineering Department, held at 10.30 AM on 23.06.2023 (Friday).

Members Present:

Name of the Member	Designation
Dr. T. Ramamohan Rao	Chairman & HOD
Prof. R. Rajendra	OU nominee
Dr. Jeevan Jaidi	Subject expert
Dr. A.V.S.S. Kumara Swamy Gupta	Subject expert
Dr. K.Kishore	Faculty member
Dr. C. Gururaja Rao	Faculty member
Mr. K. Srinivasa Rao	Faculty member
Dr. S.Venkataiah	Faculty member
Dr. P. Venkateswara Rao	Faculty member
Dr. P.V.Gopal Krishna	Faculty member
Mr. K.Veladri	Faculty member
Dr. V.B.S. Rajendra Prasad	Faculty member
Mr. S. Sreekrishna	Faculty member
Dr. P.V.S. Subhashini	Faculty member
Mr. K.I. Spurgeon	Faculty member
Mr. D. Govinda Rao	Faculty member
Mr. B. Naga Manohar	Faculty member
Mr. B. Sandeep	Faculty member
Mr. M. Venugopal Reddy	Faculty member
Mr. S. Venkateswarulu	Faculty member

The meeting started with the welcoming address by Dr. T. Ramamohan Rao, Chairman – BOS to all the invitees and the faculty of the Department of Mechanical Engineering, VCE. The following items on the agenda were taken up for consideration.

1. Confirmation of the minutes of 13th BOS meeting held on 04.06.2022.
The Chairman and members reviewed the minutes of 13th BOS meeting held on 04.06.2022 and then confirmed.
2. Action taken report on the items of 13th BOS held on 04.06.2022
The Chairman presented the action taken report for the suggestions given by the members of 13th BOS. The action taken report is shown in attached ppt.

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3. Review of Institute Vision & Mission, Department Vision & Mission, PEOs, PSOs and POs.
The Chairman reviewed Institute Vision & Mission, Department Vision & Mission, PEOs, PSOs and POs.
4. The Chairman presented the major achievements of the Department for the Academic Year 2022-23 which are shown in attached ppt.
5. Departments achievements:
The Chairman highlighted the achievements of the Department and brought the following to the notice of the BOS.

Student's achievements:

- Students participated in SAE-Baja, India 2023 Championship (ATV), Indore, MP, India and secured 40th Rank in the completion, 15th Rank in the sales event and 25th in statics event.
- Placements: 64.6% of eligible students got placement in the AY 2022-23 with highest package of Rs. 14.00 lpa and average package of Rs. 5.25 lpa.
- A total of 53 final year students did their project work in various industries like DRDL, BDL, BHEL, Vizag Steel Plant, RFCL, KIA, Magma, NMDC, ARCI, Toshiba, Robotics Pvt. Ltd., Kakati Karshak, Bull Rock Drill etc.
- As part of industry visit – students of B.E. III, VI and VII semester students visited Akshayapatra Foundation, Narsingi, Automotive Division, Mahindra & Mahindra Ltd., Zaheerabad, Avishkar Industries Pvt. Ltd., and Zonal Workshop, TSRTC, Uppal.

Faculty achievements:

- The Department has organized an International Conference on "Advanced Materials and Computational Methods in Mechanical Engineering" (ICAMCMME-2022) held on 11-12 Nov-2022. Conference papers published in the following journals: Archives of Thermodynamics, Scientific.net, Inderscience, HR Publications.
- Dr. V.B.S. Rajendra Prasad obtained Ph.D degree in AY 2022-23 from University College of Engineering, Osmania University, Hyderabad.
- Prof. T. Ramamohan Rao is serving as National Executive Council Member of ISTE, New Delhi.
- Prof. C. Gururaja Rao is Subject Expert for UPSC, New Delhi.
- 62 NPTEL Certifications by Faculty since 2017 in different Courses.
- 39 Coursera Certifications by Faculty since 2017 in different Courses.



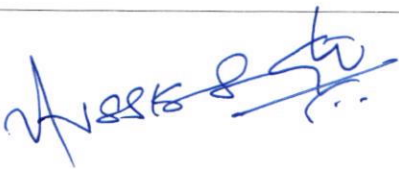
- For the patent titled "Adjustable rotary fixture attachment to electrical discharge machining (EDM) for improved metal removal rate", first Examination Report Submitted on 19.07.2022.
 - One week training program to Lab Assistants and Technicians of the Department on Enhancement of Skills on Computer Applications (MS Office) & CAD Tools from 1st to 7th Sep. 2022 and provided skill training during 25th to 28th Jan. 2023.
 - An amount of Rs. 8.30 lacs was sanctioned for the consultancy project titled "Development of a convergent divergent nozzle for a gas turbine" by Misochain, Bengaluru.
 - Under Outreach program, CAD/CAM training was given to 32 Diploma students of Govt. Polytechnic, Masabtank, Hyderabad from 19-25 Jan 2023.
5. Review of the following for the BE students to be admitted during 2023-24:
- a. Scheme of instruction and examinations from I to VIII semesters.
 - b. Syllabus for I and II semester courses.
- The scheme of instruction and examination for the B.E. Semesters I to VIII and also the syllabus for I and II semester courses for the AY 2023-24 were reviewed.
6. Review of the following for the BE students admitted during 2022-23:
- a. Scheme of instruction and examinations from III to IV semesters.
 - b. Syllabus for III and IV semester courses.
- The scheme of instruction and examination for the B.E. Semesters III to IV and also the syllabus for III and IV semester courses for the AY 2023-24 were reviewed.
7. Review of the following for the BE students admitted during 2021-22:
- a. Scheme of instruction and examinations from V to VI semesters.
 - b. Syllabus for V and VI semester courses.
- The scheme of instruction and examination for the B.E. Semesters V to VI and also the syllabus for V and VI semester courses for the AY 2023-24 were reviewed.
8. Review of the following for the BE students admitted during 2020-21:
- a. Scheme of instruction and examinations from VII to VIII semesters.
 - b. Syllabus for VII and VIII semester courses.
- The scheme of instruction and examination for the B.E. Semesters VII to VIII and also the syllabus for VII and VIII semester courses for the AY 2023-24 were reviewed.
9. Review of the following for the ME (ADM) students to be admitted during 2023-24:
- a. Scheme of instruction and examinations from I to IV semesters.
 - b. Syllabus for I and II semester courses.
- The scheme of instruction and examination for the B.E. Semesters I to IV and also the syllabus for I to IV semester courses for the AY 2023-24 were reviewed.

10. Suggestions by members

- HOD brought to the notice of the BOS, the best practises followed in the department. In this context Dr. Jeevan Jaidi asked for any financial assistance to the needy, the HOD clarified that the assistance from the college is through equity action plan.
- The BOS felt that there should be some encouragement for the students admitted into ME Program, for which the HOD explained that a stipend of Rs.3000/- is provided for the ME students admitted during 2022-23 onwards.
- Dr.AVSS Kumara Swamy Gupta asked to check whether the newly proposed title "Executive ME program" is as per AICTE regulations or not. The BOS asked for the placements secured in terms of the % of the eligible students and the HOD replied that the same will be incorporated.
- The members are curious about the Open Electives offered to the students, some of the members felt that the stream based Open electives "Unmanned Aerial Vehicles (UAVs)" and "Robotics" offered are very important to the students of Mechanical Engineering and they are of the view that the students of the Mechanical Engineering must first undergo the courses before they were offered to the other branches. It is proposed to start another Honours program in UAVs if the students satisfy the rules for admission.
- Dr. R Rajendra asked to change the name of the course "Principles of Data Structures" to "Programming through Data Structures" both in theory and lab.
- Dr. R Rajendra suggested to confine the "Dynamics and Metrology lab" to "Dynamics of Machines lab" only and the metrology part may be added to the Machine tools laboratory and the title of "Machine tools laboratory" to be changed to "Machine tools and Metrology laboratory". The HOD explained the need to combine Dynamics and Metrology, however he later agreed to change the "Dynamics and Metrology lab" to the "Theory of Machines lab" and "Machine Tools Lab" to "Machine Tools and Metrology Lab".
- The Head of Department has brought to the notice of the new members of the BOS about the Robotics Honours course offered and its entry conditions.

- Dr. Gupta expressed his view that it is difficult to have 20 students in the Honours program with the existing restrictions like 7.5 CGPA with no backlogs and said that some promising students may lose an opportunity due to the prevailing bench marks for entry.
- During the discussions Dr.R Rajendra suggested to include the courses like "Design for Additive Manufacturing" and "Design and Testing of Additive manufactured components", keeping in view the importance of Additive manufacturing course in place of Nano Technology, if possible.
- A suggestion is also made to make Additive manufacturing as a core subject in the B.E level, which is now being offered as professional elective.
- Dr. Gupta gave some suggestions in the syllabus of the Thermodynamics subject like shifting of some topics in compressors and IC engines from Unit I to Unit II and vice-versa, for which Dr. Gururaja Rao said that the changes will be considered. Dr. Gupta further suggested a new reference in Thermodynamics course from TMH authored by Mahesh Rathod.
- Dr. Rajendra suggested the inclusion of a separate course on Automation/Robotics and Manufacturing Automation.
- Dr. Rajendra further asked about the details of the Feedback system in the college.
- Dr. Jaidi expressed his concern that there are no takers for minor programmes like Robotics at BITS, Hyderabad.
- It is proposed to reduce the number of Professional Electives (PEs) from 6 to 4 for R-21 batch onwards with two electives in VII sem and two electives in VIII sem and a proposal to have labs for the electives in VII sem.
- The BOS members expressed concern on the quality of the students admitted into the Mechanical Engineering program at both BE and ME level.
- The BOS members suggested for the exploration of collaboration in the form of MOU with some institutes like BITS etc, so that the faculty may be exposed to some collaborative projects and mutual skill enhancement thereby.
- The BOS members emphasised on the importance of collaboration with industry in establishing some advanced laboratories, for which the HOD has explained the initiatives taken by the department in that direction.

The meeting concluded at 12.30 pm.

Prof. R. Rajendra OU Nominee	
Dr. Jeevan Jaidi Subject Expert-2	
Dr. A.V.S.S. Kumara Swamy Gupta Subject Expert-3	
Dr. T. Ramamohan Rao Chairman, BOS	