



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC with "A" Grade and NBA (CSE, IT, EEE, ECE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 03-08-2023

The board of studies (BoS) meeting of Mechanical Engineering is scheduled on 04-08-2023 at 10.30 AM through online mode in Microsoft Teams. All the BoS members are requested to attend the meeting and contribute their wisdom.

Agenda of BoS Meeting (Online) being held on 04-08-2023

1. Confirmation of minutes of 16th BoS meeting held on 10-01-2023.
2. Review of Action Taken Report (ATR) on the minutes of 16th BoS meeting held on 10-01-2023.
3. Discussion and Approval of B.Tech Mechanical Engineering R23 course structure.
4. Discussion and Approval of Syllabi of B.Tech I & II semesters, specification of COs and CO-PO articulation matrix.
5. Discussion and Approval of M.Tech Thermal Power Engineering R23 course structure.
6. Discussion and Approval of Syllabi of M.Tech I & II semesters, specification of COs and CO-PO articulation matrix.
7. Approval of SWAYAM/MOOCs courses for the A.Y 2023-24.
8. Information on Teaching Learning Process
9. Discussion and approval of changes in Vision, Mission, PEO and PSO statements (if any)
10. Information and discussion on Cos, POs & PSOs attainment and ATR for 2019-23 batch
11. Information on Academic Performance of the students for the A.Y 2022-23 (Even Sem)
12. Information & Discussion on R&D and Training & Placement Activities for the A.Y.: 2022- 23.
13. Information on events organized & Attended for the A.Y 2022-23
14. Any other matter with permission of chair.


Head of the Department

HEAD
Dept. of Mechanical Engineering
LAKIREDDY BALI REDDY COLLEGE OF ENGG.
MYLAVARAM-521 230., KRISHNA DT, A.P.

Minutes of BoS meeting held on 04-08-2023

Dr.S.Pichi Reddy, the Chairman, Board of Studies in Mechanical Engineering welcomed the members to the meeting and presented the items of the agenda as cited below for discussion, consideration and approval.

1.Confirmation of minutes of 16th BoS meeting held on 10-01-2023.

- The minutes of 16th Board of Studies meeting are confirmed with the consent of honorable members.

2.Review of Action Taken Report (ATR)on the minutes of 16th BoS meeting held on 10-01-2023.

| Item No | Item | BoS Committee decision |
|----------------|---|---|
| 1 | Discussion on introducing new courses in R23 regulations. ➤ University Nominee Dr.B.Balakrishna and Academic Expert Dr.A.V.S.S.K Gupta Suggested to include Electric and Hybrid Vehicles course in the curriculum. ➤ Academic Expert Dr.A.Kumar Suggested to include the Design Thinking Lab in the curriculum. | Modifications Incorporated and Approved |
| 2 | Discussion and review of stakeholders' feedback on curriculum for A.Y.2021-22. | Modifications Incorporated and Approved |
| 3 | Information and discussion on POs & PSOs attainment and ATR for 2018-22 batch. | Modifications Incorporated and Approved |
| 4 | Information on Academic Performance of the students for the A.Y 2021-22 (Even Sem). | Noted |
| 5 | Information & Discussion on R&D and Training & Placement Activities for the A.Y.: 2022- 23. | Noted |
| 6 | Information on events organized for the A.Y 2022-23. | Noted |

3. Discussion and Approval of B.Tech Mechanical Engineering R23 course structure.

- University Nominee Dr B.Balakrishna suggested to take the R23 structure prepared by JNTUK for the I & II semesters as a reference. JNTUK is following the common syllabus for all its affiliated colleges to facilitate the students transferring from one institute to other after the first year.
- Academic Expert Dr. A.Kumar suggested to remove the “Basic” form the “Basic Computer Skills and Mechanics Lab” in II semester.
- Academic Expert Dr. A.Kumar pointed that introducing Design of Machine Elements-II in VI semester is too late and may be taken to earlier semesters.
- Academic Expert Dr. A.Kumar suggested to change the course name “AI Toos and Applications” as “Artificial Intelligence & Machine Learning” in VI semester.
- Academic Expert Dr. A.Kumar suggested to “Additive Manufacturing” course can be made as compulsory course instead of elective in the view of its demand in future. Sir also suggested CAD/CAM and Robotics may be combined as a single course.

4. Discussion and Approval of Syllabi of B.Tech I & II semesters, specification of COs and CO-PO articulation matrix.

- Academic Expert Dr. A.Kumar suggested to add topic on “ Smart Materials” in Engineering Physics Course in I Semester.
- Academic Expert Dr. A.Kumar suggested to mention “projection of straight lines inclined to one plane, inclined to both planes” septically in the Engineering Graphics syllabus. Sir also mentioned to remove “Sections of solids and Development of surfaces” from the Engineering Graphics syllabus and to add in the Computer Aided Engineering Graphics lab.
- Academic Expert Dr A Kumar expressed that “Biology for Engineers” course may be replaced with any other better alternative.
- Academic Expert Dr. A.Kumar suggested to add one experiment “ Free hand sketch based on the idea” in Design Thinking & Idea Lab.

5. Discussion and Approval of M.Tech Thermal Power Engineering R23 course structure.

- The HoD presented M.Tech. Thermal Power Engineering for suggestions. All the members accepted without modification.

6. Discussion and Approval of Syllabi of M.Tech I & II semesters, specification of COs and CO-PO articulation matrix.

- Academic Expert Dr. A.Kumar expressed that the topics in the course “Advanced Thermodynamics” are already covered in the B.Tech. All the basic concepts of Thermodynamics upto entropy can be made a first unit and all the advanced topics may be added as part of next four units.
- In the Advanced Heat Transfer course, Academic Expert Dr A Kumar suggested to verify with B.Tech Heat Transfer and see that there is no overlap.

7. Approval of SWAYAM/MOOCs courses for the A.Y 2023-24.

- The HoD presented Swayam/MOOCs courses offered for Open Electives. All the members accepted without modification.

8. Information on Teaching Learning Process.

- The teaching learning processes of the department is discussed and suggestions by the honourable members are noted.

9. Discussion and approval of changes in Vision, Mission, PEO and PSO statements (if any).

- The HoD taken approval for Vision, Mission, PEO & PSO statements.

10. Information and discussion on COs, POs & PSOs attainment and ATR for 2019-23 batch.

- The members asked to compare the present passed out batch (2019-23) with that of its previous batch (2018-22) in the PO's attainment.
- The members asked to form a committee in the Department and analyse the reason for attaining only three PO's. They suggested to reduce the target level if required.

11.Information on Academic Performance of the students for the A.Y 2022-23 (Even Sem).

- The academic performance of students in the even semester of the A.Y 2022-23 is presented and suggestions recorded.
- Principal Dr.K.Appa Rao suggested to include previous A.Y results and success index in Student's Academic Performance.

12.Information & Discussion on R&D and Training & Placement Activities for the A.Y.: 2022- 23.

- The members appreciated the Department for having more patents in a single academic year.
- Academic Expert Dr A Kumar and Principal Dr.K.Appa Rao suggested to add higher studies data also in the presentation of placement details.

13.Information on events organized & Attended for the A.Y 2022-23.




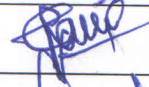
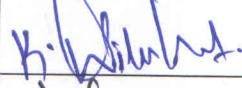
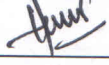






- The events organized by the department is presented and put forward for discussion and suggestions recorded.

14.Any other matter with permission of chair.

- Industry Expert Mr Yogananda Reddy, suggested to add "Composite materials" as an elective in view of Industry requirement. Sir also suggested to have Advanced fluid mechanics course in M.T.ech Thermal Power Engineering and add "fluidics" topic as one unit.
- University Nominee Dr B. Balakrishna suggested to maintain clear data of number of students joining in the I year, students getting detained due to lack of attendance as well as credits, students getting joined after getting the promotion etc.

The chairman, BOS thanked all the members for their active participation, constructive suggestions and encouragement.

Signatures of BoS Members:

| S. No. | BoS Hierarchy | Name & Designation | Signature |
|--------|---------------------------|---|---|
| 1. | Chairman | Dr.S.Pichi Reddy, Professor & HoD LBR College of Engineering |  |
| 2. | University Nominee | Dr.B.Balakrishna, Professor Department of Mechanical Engineering JNTUK, Kakinada | Attended Online |
| 3. | Subject Expert (Academic) | Dr.A.Kumar, Professor Department of Mechanical Engineering NITW, Warangal | Attended Online |
| 4. | Subject Expert (Academic) | Dr.A.V.S.S.K.S.Gupta, Professor Department of Mechanical Engineering JNTUH, Hyderabad | Attended Online |
| 5. | Subject Expert (Industry) | R.Yogananda Reddy, Scientist E-DRDO, Hyderabad | Attended Online |
| 6. | Alumni Member | V.Sethu Ram, Lead Engineer Quest Global Pvt. Ltd., Bangalore | Attended Online |
| 7. | Internal Faculty | Dr.P.V.Chandra Sekhar Rao, Professor |  |
| 8. | Internal Faculty | Dr.P.Vijay Kumar, Professor |  |
| 9. | Internal Faculty | Dr.P.Ravindra Kumar, Professor |  |
| 10. | Internal Faculty | Dr.K.Dilip Kumar, Professor |  |
| 11. | Internal Faculty | Dr.K.Murahari, Associate Professor |  |
| 12. | Internal Faculty | Dr.V.Dhana Raju, Associate Professor |  |
| 13. | Internal Faculty | Dr.M.B.S.Sreekara Reddy, Associate Professor |  |
| 14. | Internal Faculty | Dr.Ch.Siva Sankara Babu, Associate Professor |  |
| 15. | Internal Faculty | Mr. S.Srinivasa Reddy, Associate Professor |  |
| 16. | Internal Faculty | Dr. B.Sudheer Kumar, Sr. Assistant Professor |  |
| 17. | Internal Faculty | Mr.K.V.Viswanadh Sr. Assistant Professor |  |

Head of the Department

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4/2/2023

Screenshots of BoS Meeting held on 04/08/2023

This screenshot shows a Microsoft Teams meeting in progress. The main window displays a Microsoft Word document titled "1st SEMESTER Course Structure and Syllabus upto 1st Year - Word". The document contains a table for the 1st semester courses. The table is as follows:

| S.No | Course code | Course Title | Contact hours/Week | | | Credits | Scheme of Valuation | | |
|---------------------------|-------------|--|--------------------|---|---|-----------|---------------------|-----|-------|
| | | | L | T | P | | CB | SEB | Total |
| Theory Courses | | | | | | | | | |
| 1 | BS | Linear Algebra and Transformations, Techniques | 2 | 1 | 0 | 3 | 30 | 70 | 100 |
| 2 | BS | Engineering Physics | 3 | 0 | 0 | 3 | 30 | 70 | 100 |
| 3 | ES | Engineering Graphics | 2 | 0 | 2 | 3 | 30 | 70 | 100 |
| 4 | HS | Universal Human Values - 2 | 3 | 0 | 0 | 3 | 30 | 70 | 100 |
| 5 | BS | Biology for Engineers | 2 | 0 | 2 | 3 | 30 | 70 | 100 |
| 6 | MC | Constitution of India | 2 | 0 | 0 | 0 | 30 | 70 | 100 |
| Laboratory Courses | | | | | | | | | |
| 1 | BS | Engineering Physics Lab | 0 | 0 | 3 | 1.5 | 15 | 35 | 50 |
| 2 | ES | Design Thinking & Idea Lab | 0 | 0 | 2 | 1.0 | 15 | 35 | 50 |
| 3 | ES | Engineering Workshop | 0 | 0 | 3 | 1.5 | 15 | 35 | 50 |
| 4 | ES | Computer Aided Engineering Graphics | 0 | 0 | 3 | 1.5 | 15 | 35 | 50 |
| 5 | HS | Field Visit and Wellness Activity - 1 | 0 | 0 | 1 | 0.5 | | | |
| Total | | | | | | 20 | | | |

The meeting interface shows a participant named Dr. SEELAM PICH REDDY. The system clock indicates 10:53 on 04-08-2023.

This screenshot shows a Microsoft Teams meeting. The main window displays a Microsoft Word document titled "2nd SEMESTER Course Structure and Syllabus upto 1st Year - Microsoft Word". The document contains a table for the 2nd semester courses. The table is as follows:

| S.No | Course code | Course Title | Contact hours/Week | | | Credits | Scheme of Valuation | | | | | |
|---------------------------|----------------------|---------------------------------|--------------------|---|---|-----------|---------------------|----------|----------|-----------|-----------|------------|
| | | | L | T | P | | CB | SEB | Total | | | |
| Theory Courses | | | | | | | | | | | | |
| 1 | PC | Design of Machine Elements | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| 2 | PC | Machine Tools and Metrology | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| 3 | PC | Rise Transistor | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| 4 | PROGRAM ELECTIVE - I | PROGRAM ELECTIVE - I | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| 5 | PROGRAM ELECTIVE - I | PROGRAM ELECTIVE - I | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| Laboratory Courses | | | | | | | | | | | | |
| 1 | PC | Machine Tools and Metrology Lab | 0 | 0 | 3 | 1.5 | 15 | 35 | 50 | | | |
| 2 | PC | Rise Transistor Lab | 0 | 0 | 3 | 1.5 | 15 | 35 | 50 | | | |
| 3 | SOE | SOE Advanced Course | 1 | 0 | 2 | 2 | 20 | 50 | 70 | | | |
| 4 | PE | Newborn Internship | 0 | 0 | 2 | 2 | 20 | 50 | 70 | | | |
| Total | | | | | | 22 | | | | | | |
| Theory+Lab Courses | | | | | | 3 | 1 | 6 | 4 | 30 | 70 | 100 |

The meeting interface shows a participant named VISWANADH, K.V. The system clock indicates 11:23 on 04-08-2023.

This screenshot shows a Microsoft Teams meeting. The main window displays a Microsoft Word document titled "3rd SEMESTER Course Structure and Syllabus upto 1st Year - Microsoft Word". The document contains a table for the 3rd semester courses. The table is as follows:

| S.No | Course code | Course Title | Contact hours/Week | | | Credits | Scheme of Valuation | | | | | |
|---------------------------|----------------------|---------------------------------|--------------------|---|---|-----------|---------------------|----------|----------|-----------|-----------|------------|
| | | | L | T | P | | CB | SEB | Total | | | |
| Theory Courses | | | | | | | | | | | | |
| 1 | PC | Design of Machine Elements | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| 2 | PC | Machine Tools and Metrology | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| 3 | PC | Rise Transistor | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| 4 | PROGRAM ELECTIVE - I | PROGRAM ELECTIVE - I | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| 5 | PROGRAM ELECTIVE - I | PROGRAM ELECTIVE - I | 3 | 0 | 0 | 3 | 30 | 70 | 100 | | | |
| Laboratory Courses | | | | | | | | | | | | |
| 1 | PC | Machine Tools and Metrology Lab | 0 | 0 | 3 | 1.5 | 15 | 35 | 50 | | | |
| 2 | PC | Rise Transistor Lab | 0 | 0 | 3 | 1.5 | 15 | 35 | 50 | | | |
| 3 | SOE | SOE Advanced Course | 1 | 0 | 2 | 2 | 20 | 50 | 70 | | | |
| 4 | PE | Newborn Internship | 0 | 0 | 2 | 2 | 20 | 50 | 70 | | | |
| Total | | | | | | 22 | | | | | | |
| Theory+Lab Courses | | | | | | 3 | 1 | 6 | 4 | 30 | 70 | 100 |

The meeting interface shows a participant named VISWANADH, K.V. The system clock indicates 11:29 on 04-08-2023.

