



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

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

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

MECHANICAL ENGINEERING DEPARTMENT

Dt: 09-01-2023

The Board of Studies (BoS) meeting of Mechanical Engineering Department is scheduled on 10-01-2023 at 10.30 AM in online mode through Microsoft Teams. All the BoS members are requested to attend the meeting and contribute their wisdom.

Agenda of BoS Meeting (Online)

1. Confirmation of minutes of 15th BoS meeting held on 28-05-2022.
2. Review of Action Taken Report (ATR) on the minutes of 15th BoS meeting held on 28-05-2022.
3. Discussion on introducing new courses in R23 regulations.
4. Discussion and review of stakeholders' feedback on curriculum for A.Y.2021-22.
5. Information and discussion on POs & PSOs attainment and ATR for 2018-22 batch.
6. Information on Teaching Learning Process.
7. Information on Academic Performance of the students for the A.Y 2021-22 (Even Sem).
8. Information & Discussion on R&D and Training & Placement Activities for the A.Y.: 2022- 23.
9. Information on events organized for the A.Y 2022-23.
10. Any other matter with permission of chair.


9/1/2023
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 10-01-2023

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 15th BoS meeting held on 28-05-2022.

The minutes of 15th Board of Studies meeting are confirmed with the consent of honourable members.

2. Review of Action Taken Report (ATR) on the minutes of 15th BoS meeting held on 28-05-2022.

<p>Discussion and approval of MOOCs for Regular, Honor and Minor Program.</p> <ul style="list-style-type: none">➤ Industry expert Sri R.Yogananda Reddy suggested to include Aerospace Engineering related NPTEL courses and Advanced Composites courses in MOOC's.➤ Academic expert Dr. A.Kumar suggested including Artificial Intelligence and Machine Learning Courses in MOOC's.➤ University nominee Dr. A.Swarna Kumari suggested including more computer courses and Aviation related courses in MOOC's.	<p>Suggestions given by the Honorable members are considered and implemented.</p>
<p>Information on Teaching Learning Process.</p> <ul style="list-style-type: none">➤ Academic expert Dr. A.Kumar suggested that the course video lectures developed by the faculty should be reviewed by internal faculty and students. After taking feedback from students and faculty and make necessary corrections, it should be made available in public domain like YouTube and Whats app group etc.➤ Academic expert Dr. A.V.S.S.K.S. Gupta suggested including experimental learning and experiencing learning.	<p>Video lectures are developed for some courses and made available.</p>
<p>Information on Academic Performance of the students for the A.Y 2021-22 (Odd Sem)</p> <ul style="list-style-type: none">➤ Academic expert Dr. A.V.S.S.K.S. Gupta suggested identifying the courses where students are suffering and identify the slow learners and provide the remedial classes to improve the pass percentage.➤ Academic expert Dr. A.V.S.S.K.S. Gupta, University nominee	<p>The remedial classes are effectively conducted and suggestions given to students.</p>

<p>Dr.A.Swarna Kumari, Academic expert Dr.A.Kumar suggested to conduct remedial classes for students who failed in the courses.</p>	
<p>Information on placements</p> <ul style="list-style-type: none"> ➤ Academic expert Dr. A.Kumar suggested improving the placements, trying to send the students to internship at the end of 2nd year. Exposure of students to industries can get an opportunity to work in core oriented companies and also encourage the students for higher studies. ➤ Industry expert Sri R.Yogananda Reddy suggested for encouraging the students to write GATE exam. Also he has given the information on public sector companies gives the placements based on the GATE score only. ➤ Academic expert Dr. A.V.S.S.K.S. Gupta suggested to maintain the lower cap, and don't allow the companies with lower package, it will degrade the quality of placements. 	<p>Technical Training classes are conducted from III Semester onwards.</p>
<p>Information and discussion on rubrics for Identifying best academic project.</p> <ul style="list-style-type: none"> ➤ Academic expert Dr. A.Kumar suggested distributing the marks equally for 5th parameter i.e outcome of the project and give 30 marks weightage for 5th parameter. He also suggested giving more weightage for publication and product development. ➤ University nominee Dr.A.Swarna Kumari and Industry expert Sri R.Yogananda Reddy suggested to achieve all the parameters is difficult, so take one or two parameters into consideration. 	<p>Rubrics for Project work are formulated based on suggestions given by committee members.</p>
<p>Information on events</p> <ul style="list-style-type: none"> ➤ Academic expert Dr. A.V.S.S.K.S. Gupta suggested including the conference in events planned for A.Y 2022-23. 	<p>Conduct of conference is in progress.</p>
<p>Information on R&D activities of the A.Y : 2021 - 22</p>	<p>Suggestions taken into consideration.</p>
<p>Job oriented Courses</p> <ul style="list-style-type: none"> ➤ Academic expert Dr. A.Kumar suggested including Automobile Maintenance, Air Conditioning Maintenance, Electric Vehicles, and Additive Manufacturing and giving the training on 	<p>Skill oriented course on electric and solar vehicles is conducted and workshop on 3D printing is planned in</p>

<p>Hypermesh / Ansys / CFD to the students.</p> <p>➤ Industry expert Sri R.Yogananda Reddy suggested including Additive Manufacturing Lab in the curriculum.</p> <p>➤ University nominee Dr.A.Swarna Kumari suggested encouraging the students to do the activities under SAE and ISHRAE student chapter.</p>	<p>the month of March.</p> <p>Additive Manufacturing Lab is initiated and at present plastic products is made.</p>
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3.Discussion on introducing new courses in R23 regulations.

The draft of R23 course structure is presented for consideration and discussion. The following suggestions were made by the Honourable Members.

University Nominee: Dr.B.Balakrishna

- Suggested faculty for certification on Universal Human Values.
- Include Electric and Hybrid Vehicle as one course.
- Only two computer courses for Mechanical Engineering Students are enough. Replace the Data Structures using Python and its Lab with core Mechanical Engineering Subject.
- Suggested Design Thinking course for all branches.
- Suggested to check the credits given to the course “Industrial/Research Internship” in VII Semester.

Academic Expert Dr.A.V.S.S.K Gupta:

- Suggested to include Linear Algebra and transformation Techniques in I Semester and Differential Equations and Integral calculus in II Semester. In III Semester: Numerical Methods with MatLab code instead of Numerical Methods & Probability and Statics. In IV Semester rename the course : Power Generation Systems to Applied Thermodynamics and the Thermal Engineering Lab as Applied Thermodynamics Lab.
- In V Semester: Hybrid and Electric Vehicles to be renamed as Electric and Hybrid Vehicles.
- Matlab as a Skill Oriented Course.

Academic Expert Dr.A.Kumar:

- Academic Expert Dr. A.Kumar suggested changing the course name “Differential Equations” as “Differential Equations and Integral Calculus” in I Semester.
- Suggested to include the Design Thinking Lab as it is useful for mechanical engineering students. Materials and Manufacturing Technology to be made into two courses, Metallurgy and Material Science and Production Technology.
- Suggested to include Supply Chain Management course instead of Total Quality management in program elective.

- To change the course name “Energy Conservation and Management” as “ Energy Management” in Elective-V in VII Semester.
- Introduce Product development using 3D Printing as Skill Oriented Course.
- Supply Chain Management Course as Program Elective.

Alumni Expert Mr.V.Sethu Ram:

- Suggested for Industry 4.0 and Quality Control related courses as a Program elective.
- Skill Oriented Course:
- Introduce Matlab , Product development using 3D Printing.

4.Discussion and review of stakeholders’ feedback on curriculum for A.Y.2021-22.

The stakeholder feedback on the R20 course structure is collected from various academicians, industry expert and alumni. The stakeholder feedback is reviewed and suggested to take their considerations in framing R23 regulations.

5.Information and discussion on POs & PSOs attainment and ATR for 2018-22 batch.

The CO – PO attainments of 2018 admitted batch is presented before the honourable members, discussed and approved. Dr.A.Kumar - suggested to keep the attainment percentage in fractions instead of round figure.

6.Information on Teaching Learning Process.

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

7.Information on Academic Performance of the students for the A.Y 2021-22 (Even Sem).

The academic performance of students in the even semester of the A.Y 2021-22 is presented and suggestions recorded. The honorable members suggested to conduct remedial classes to students and help them to clear the courses in the supplementary examinations.

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

The R&D activities of the department are presented and put forward for discussion. Dr.A.V.S.S.K Gupta - Suggested increasing the number of publications. Honorable members suggested increasing the placements and also imparting training to students.


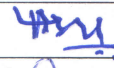

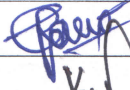
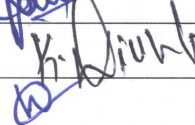
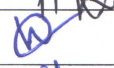
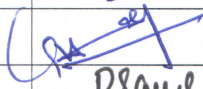
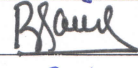


9.Information on events organized for the A.Y 2022-23.

The events organized by the department is presented and put forward for discussion. The academinc expert Dr.A.kumar suggested increasing guest lectures on advanced topics by eminent academicians and alumni members. Also suggested to conduct conference.

10. Any other matter with permission of chair.

- a) Dr.B.Balakrishna suggested encouraging students to take the society oriented projects (community service projects) for the benefit of rural areas.
- b) All the Honorable members suggested for introduction of another UG program in the department – Robotics and Artificial Intelligence.
- c) Academic Expert Dr.A.V.S.S K.S Gupta suggested 60% syllabus on Mechanical Engineering and 40% syllabus on AI in Robotics and Artificial Intelligence.
- d) Suggested for new M.Tech program with specialization in Robotics / Industry and Production related areas.
- e) University Nominee Dr.B.Balakrishna suggested to add course on “IoT” in Elective course.
- f) Academic Expert Dr. A.Kumar suggested encouraging I year students by sending senior faculty to I year classes.
- g) Academic Expert Dr. A.Kumar suggested calling the industry experts to the college and taking the guest lectures on what is going on present scenario in the industries.
- h) Academic Expert Dr. A.Kumar suggested giving the laboratory course like product development.
- i) Alumini member V.Sethu Ram suggested bringing awareness among the students about mechanical related core companies and encouraging them.

Signatures of BoS Members:

S.No.	BoS Hierarchy	Name	Signature with Date
1.	Chairman	Dr. S.Pichi Reddy, Professor and HOD L.B. Reddy College of Engineering	
2.	University Nominee	Dr.B.Balakrishna , Director of Evaluation & 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- 500085	Attended Online
5.	Subject Expert (Industry)	Sri R.Yogananda Reddy, Scientist -E, DRDO, Hyderabad - 500297	Attended Online
6.	Alumni	Mr. V.Sethu Ram, Lead Engineer, Quest Global PVT Limited, Bangalore	Attended Online
7.	Internal faculty	Dr.P.V. Chandra Sekhar Rao	
8.	Internal faculty	Dr.P.Vijay Kumar	
9.	Internal faculty	Dr.P.Ravindra Kumar	
10.	Internal faculty	Dr.K.Dilip Kumar	
11.	Internal faculty	Dr.V.Dhana Raju	
13.	Internal faculty	Mr. S.Srinivas Reddy	
15.	Internal faculty	Mr. B.Sudheer Kumar	
16.	Internal faculty	Mr.K.V.Viswanadh	
17.	Internal faculty	Dr.Ch. Shivasankar Babu	


10/1/2023
Dr.S.Pichi Reddy

HEAD
Dept. of Mechanical Engineering
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MYLAVARAM-521 230. KRISHNA DT, A.P

BoS meeting held on 10-01-2023 at 10.30 AM and closed at 12.30 PM

Hearty Welcome
To
Hon'ble Members of Board of Studies
 Presented By
Dr.S.Pichi Reddy
Professor & HoD
Department of Mechanical Engineering
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM-521230

2. Review of Action Taken Report (ATR) on minutes of BoS meeting - 28-05-2022.

Item No	Item	BoS Committee decision
1	Discussion and approval of MOOCs for Regular, Honor and Minor Program.	Suggestions give by the Honorable members are considered and implemented.
2	Information on Teaching Learning Process.	Video lectures are developed in some subjects and distributed to students
3	Information on Academic Performance of the students for the A.Y 2021-22 (Odd Sem)	The remedial classes are effectively conducted and helping students to clear their examinations.
4	Information on placements	Technical Training classes are conducted from III Semester on words.
5	Information and discussion on rubrics for Identifying best academic project.	Suggestions taken into consideration and implemented
6	Job oriented Courses	Suggestions taken into consideration and implemented
7	Information on events	Suggestion noted and will be implemented

3. Discussion on introducing new courses in R23 regulations.

Component	GROUP-B (ECE,EEE,ME,ASE & CE)								Total	AICTE/ APSCHE
	I	II	III	IV	V	VI	VII	VIII		
HS		3		3				3	9	12/10.5
BS	7.5	7.5	6						21	25/21
ES	12	9		3					24	24/24
PC			13.5	13.5	12	13.5			52.5	48/51
PE					3	3	9		15	18/15
OE					3	3	6		12	18/12
SOC			2	2	2	2	2		10	0/10
PI					1.5		3	12	16.5	15/16.5
MC	0	0	0						0	0/0
Total	19.5	19.5	21.5	21.5	21.5	21.5	23	12	160	160/160

Program Elective	Semester	Course Name
I	V	Automobile Engineering Robotics / Automation in Manufacturing Mechanical Vibrations Operations Research
II	VI	Finite Element Methods Modern Machining Processes Condition Monitoring and Fault Diagnosis Mechanical Measurements
III	VII	Refrigeration and Air Conditioning Tribology Computational Fluid Dynamics Project Management
IV	VII	Alternate Fuels and Pollution Control Non-Conventional Energy Sources

S.No	POs/PSOs	Target	Attainment	ATR
1.	PO1	70	68	Target not reached. Exact more questions are to be allotted to the average set of students in the class to solve the provided random questions.
2.	PO2	65	67	Target reached.
3.	PO3	65	67	Target reached.
4.	PO4	65	67	Target reached.
5.	PO5	70	68	Target not reached. Skill oriented course on C-Programming, Python Programming, CATIA, and ANSYS workshops are to be conducted.
6.	PO6	70	69	Target not reached. Encourage the students to participate in social service activities, Intercollegiate participation in conferences, sports are to be improved.
7.	PO7	70	69	Target not reached. Environmental oriented workshops are to be conducted.
8.	PO8	70	68	Target not reached. Technical and soft skills issue related guest lectures are to be conducted.

6. Information on Teaching Learning Process.

- > All the classrooms have ICT enabled tools (One smart classroom) for effective teaching learning process and are being utilized effectively by the faculty.
- > e-Content is developed by the faculty members and is made available to the students through Learning Management System - MOODLE, Microsoft Teams, Blogs and social media.
- > Implemented blended mode of teaching and learning process through Microsoft Teams platform.

Planning:

You Tube channel to make video lectures available to students.

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING,MYLAVARAM-521230