

DEPARTMENT OF MECHANICAL ENGINEERING
MINUTES OF BOARD OF STUDIES MEETING

The department Board of Studies meeting was conducted in virtual mode from 10:10 A.M. on 23/06/2019 through video conferencing.

Agenda Items:

- To present the department achievements for the academic year 2019-20 to the members.
- To consider and approve the curriculum for 2020-21 admitted batch of B.Tech and the minor changes proposed in curriculum of 2019-20 admitted batch of B.Tech as per the suggestions and feedback received from stake holders.
- To consider and approve the revisions proposed by the course coordinators in syllabus / Course Outcomes /experiments / teaching pedagogies for the courses to be offered in 2020-21 odd semester.
- To consider the courses related to Energy & CFD group as proposed by the members of Energy & CFD group w.e.f 2020-21 admitted batch of B.Tech.
- To consider the approval of proposal for launching certificate, Diploma, PG-Diploma programs in online distance learning mode by the department.

The following **External Members** were present:

1. Dr. A. VenuGopal, Professor, Dept. of ME, NIT Warangal
2. Dr. R. Vijaya Kumar, Senior Manager, R & D, HAL, Bangalore (Alumni)
3. Dr. P. SrinivasaRao, Global Training Head, Cyient Technologies, Hyderabad
4. Dr. K. Raviteja, Deputy Manager, Hyuhdai R&D Division, Hyderabad (Alumni)

The following **Internal Members** were present:

5. Dr. A. Srinath, Professor, HoD-ME, BOS - Chairman
6. Dr. A. Jagadeesh, Professor, CCO& Director FED
7. Dr.K.L.Narayana, Professor and Dean R&D
8. Dr.K.Rama Krishna, Professor and Dean Quality
9. Dr. Y. V. HanumanthaRao, Professor
10. Dr.N.B.V.Prasad, Professor and Dean Placements.
11. Dr. B. NageswaraRao, Professor, Chairman RPAC
12. Dr. G. Diwakar, Professor
13. Dr.S.SudhakarBabu, Group head Energy & CFD
14. Mr. D. V. A. Ramasastry, Associate Professor, Deputy HoD-ME
15. Mr. T. Vijay Kumar, Associate Professor, Deputy HoD-ME
16. Dr. P. Issac Prasad, Professor

17. Dr.S.N.Padi, Group Head Design & Manufacturing
18. Dr.S.S.Rao, Professor, Group Head-Robotics & Mechatronics
19. Dr. P. V. Chalapathi, Professor, Associate Dean, Practice School
20. Dr. K. V. NarasimhaRao, Professor
21. Dr. D. Kiran Kumar, Associate Professor
22. Dr. G. Yedukondalu, Associate Professor
23. Dr. M. B. S. Sreekar Reddy, Associate Professor
24. Dr.Y.Kalyan Chakravarthy, Associate Professor
25. Dr. P. Kasi V Rao, Assistant Professor
26. Mr. P. Ratna Prasad, Assistant Professor

The following **Co-Opted Members** were present:

27. Dr.A.S.C.S.Sastry, Professor Dept. of ECE and Controller of Examinations
28. Dr. B. LoveswaraRao, Professor, Dept. of EEE
29. Dr.K.ThirupathiRao, Professor, Dept. of CSE
30. Dr.V.S.Bhagavan, Professor, Dept. of Mathematics

Dr. A. Srinath, Chairman of BoS opened the meeting by welcoming all external members, internal and co-opted members for joining the Virtual BOS meeting within the short notice.

After due deliberations, the following resolutions have been adopted:

AGENDA and RESOLUTIONS

Agenda Item 1:

To present the department achievements for the academic year 2019-20 to all the members.

Academics:

- BoS Chairman enlisted about various academic activities being done successfully by the department post lockdown like conducting online classes for all B.Tech and M.Tech students to complete the pending syllabus, conducting online Test-2, makeup tests, Lab and Project reviews and End Semester Exams and online evaluation.
- BoS appreciated the duties rendered by all Teaching faculty and university administrators in conducting all the academic activities successfully keeping in view the career prospects of students.

Placements & Progression:

- Placements statistics for the A.Y. 2019-20 were presented to all the members.
- All the 165 students who registered for placements were successfully placed in various core and software companies.
- 78 students got multiple job offers, 42 students got more than 4 job offers.
- The average salary package is 4.05 lakhs per annum and the highest salary package offered is 10 Lakhs per annum.
- 38 students secured job offers in companies with more than 5 lakhs package.

- ME dept. is the first to reach 100 % placements milestone in this academic year in the Institute.
- BoS appreciated the efforts rendered by Dean Placements and his team and faculty members who extended their support to the students in achieving the 100 % placements.

Research & Development:

- The total no. of publications including Scopus and SCI indexed by the department are 898 till date.
- The total no. of Patents filed and granted by the department reached the milestone of 100 in number by 21st June 2020.
- The h index of the department which was 13 in A.Y.2018-19 is reached to 19 in A.Y. 2019-20 which was a remarkable improvement and the target for 2020-21 A.Y. is set as 25.
- 5 scholars of the department were awarded with PhD degree in the even semester of the A.Y.2019-20.

Dr.A.Venugopal, Professor NIT Warangal, one of the external members, appreciated the department faculty and HOD for conducting all the academic activities in time even during the lockdown period.

Agenda Item 2:

To consider and approve the curriculum for 2020-21 admitted batch of B.Tech and the minor changes proposed in curriculum of 2019-20 admitted batch of B.Tech as per the suggestions and feedback received from stake holders.

Resolution:

It is resolved to frame the curriculum of 2020-21 admitted batch with Engineering Design as main focus and theme by referring the curriculum of Premier Institutions like SUTD, MIT etc., under the guidance of Dean Academics' office. The following are the additional courses included in 2020 admitted batch curriculum apart from all the existing courses of Y19 curriculum. **(Annexure 1(a): Y20 Course Structure)**

- **"Introduction to Design"** will be offered in First Year odd semester for 2020 admitted batch with the help of Imagine XP, which will ignite the critical thinking and problem solving capabilities in students.
- **"Mechanics"** course will offered in First Year odd semester for 2020-21 admitted batch where the design thinking, flipped teaching pedagogies will be delivered and application oriented open ended problems will be given to students as an assignments, peer learning and evaluation will also be implemented.
- It is resolved to offer the "Workshop Practice for Mechanical Engineers" course in Fourth Semester instead of offering in Third semester through online mode as the course is designed to get hands-on practice. Hence, it may not be effective and not possible to offer through online mode.

- “Engineering in the Physical World” course is introduced as a new course in 2019 and 2020 curriculum which will enhance the skills related to Design of various thermal systems.
- “Design of Cyber Physical Systems” course is included in curriculum, based on the feedback received from Mr.S.S.S.Sastry from Renprotech Solution Private Limited and Mr.S.A.Sundaresan from Ashok Leyland. This course is offered in place of **control systems for machines** skilling course for 2019 and 2020 admitted batches.
- “Deep Learning” is introduced as a new course in place of Data Analytics 18ME4102 & 19ME4102 for 2018 and 2019 admitted batches respectively.
- Product Design & Development (PDD) course which was offered in 2019-20 even semester for y18 batch from which around 22 Design and utility patents were generated as an outcome of the course is now renamed as “Engineering Design Innovation” course for the 2020-21 admitted batch with much more effective syllabus and delivery adopting capstone model.
- “Mathematics for Computing” and “Mathematics for Engineers” courses will be offered in First and Second Semesters for 2020-21 admitted batch and the syllabus is framed based on the application of mechanical concepts.
- The revised course structure of Y19 curriculum by incorporating the minor changes as mentioned in above resolutions is shown in **Annexure 1(b)**.

Dr.P.Srinivasa Rao, Global Training Head, Cyient Technologies appreciated the concept of the Design thinking being implemented in the curriculum and also the achievements of students as a part of outcomes of a course.

Agenda Item 3:

To consider and approve the revisions proposed by the course coordinators in syllabus/ Course Outcomes /experiments/teaching pedagogies for the courses to be offered in 2019-20 odd semester.

Resolution:

It is resolved to approve the revisions proposed by the course coordinators for the courses offered in 2020-21 odd semester as listed below:

- a) Materials for Mechanical Engineering Applications (19PH2007) (**Annexure: 2(a)**)
- b) Geometric Dimensioning and Tolerancing (17ME4066) (**Annexure: 2(b)**)
- c) Programming Skills (18ME4101) (**Annexure: 2(c)**)
- d) Artificial Intelligence for Robotics (18ME4091) (**Annexure: 2(d)**)

Agenda Item 4:

To consider the courses related to Energy & CFD group as proposed by the members of Energy & CFD group w.e.f 2020-21 admitted batch of B.Tech.

Resolution: Energy and CFD group conducted a meeting on 05-06-2020 with all thermal professors and proposed changes in the curriculum to ensure the students becoming strong in this particular domain and as a result achieve good number of placements in thermal

related companies and to file patents. Hence, it is resolved to implement the changes w.e.f 2020-21 admitted batch as mentioned below.

- Thermodynamics (L-T-P-S: 3-0-2-0) in III Semester
- Fluid Mechanics & Hydraulic Machines (L-T-P-S:3-0-2-0) in III Semester
- Engineering in the Physical World (L-T-P-S:1-0-0-4) in IV Semester
- Applied Thermodynamics (L-T-P-S: 3-1-0-0) in IV Semester
- Heat Transfer (L-T-P-S: 3-0-2-0) in V Semester
- Problem Solving Techniques in Thermal (L-T-P-S: 0-0-0-8) in V Semester

Agenda Item 5:


To consider the approval of proposal for launching certificate, Diploma, PG-Diploma programs in online distance learning mode by the department.

Resolution:

BoS resolved to approve of launching certificate, Diploma, PG-Diploma programs in online distance learning mode by the department in principle.

Other Points:

- External member Dr.A.Venugopal enquired about the admission status of 2020-21 admitting batch. HOD explained phase 1 counseling has been completed phase will start in next week. This time good response was obtained for KLEEE 2020 proctored entrance exam wherein around 47000 aspirants were appeared for the exam. The external members appreciated the process implemented by the university during lockdown period.
- Upon the information given by the Chairman BOS, it is resolved to ratify the online examination and evaluation process being implemented during lockdown period for ensuring timely completion of all academic activities.


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