

DEPARTMENT OF MECHANICAL ENGINEERING
MINUTES OF BOARD OF STUDIES MEETING

The department Board of Studies meeting with internal members was held from 10:00 A.M. on 18/11/2019 in HoD Chamber, with HoD in the chair.

The following **Internal Members** were present:

1. Dr. A. Srinath, Professor, HoD-ME, BOS - Chairman
2. Mr. D. V. A. Rama Sastry, Associate Professor, Deputy HoD-ME
3. Mr. T. Vijay Kumar, Associate Professor, Deputy HoD-ME
4. Dr. A. Jagadeesh, Professor, CCO
5. Dr. K. L. Narayana, Professor, Dean R & D
6. Dr. N. B. V. Prasaad, Professor, Dean Placements and Progression
7. Dr. B. Nageswara Rao, Professor, Chairman RPAC-I
8. Dr. G. Diwakar, Professor, Chairman RPAC-II, Group Head-Design & Manufacturing
9. Dr. T. Anup Kumar, Professor, Group Head, Energy & CFD
10. Dr. P. V. Chalapathi, Professor, Associate Dean, Practice School
11. Dr. Y. V. Hanumantha Rao, Professor
12. Dr. K. V. Narasimha Rao, Professor
13. Dr. P. Issac Prasad, Professor
14. Dr. S. S. Rao, Professor, PG Coordinator
15. Dr. Y. Kalyan Chakravarthy, Associate Professor, Group Head-Robotics & Mechatronics
16. Dr. S. N. Padhi, Professor, HoD-BES-II
17. Mr. P. Ratna Prasad, Assistant Professor
18. Mr. P. Kasi V Rao, Assistant Professor

Dr. A. Srinath, Chairman of BoS opened the meeting by welcoming the internal members of the Board of Studies.

After due deliberations, the following resolutions have been adopted:

AGENDA and RESOLUTIONS

Agenda Item 1:

To consider and approve the Revisions in L-T-P-S structures for B.Tech.-ME courses of even semester of 2019-20 academic year as per the recommendation of DAC held on 08/11/2019.

Resolution:

BoS chairman presented the revisions in the L-T-P-S- structures of various courses offered during the even semester of A.Y 2019-20 to all the members present. The changes were necessitated in order to provide more free time for the students to undertake self-learning enabling them to prepare for competitive examinations. Upon due deliberations, the following modifications/revisions in the L-T-P-S structures are approved (**Annexure-1**):

- The L-T-P-S structures of courses of **Mechanics of Solids – I (19ME1201)** and **Engineering Graphics for Mechanical Engineers (19ME1002)**, offered in second semester for 2019 admitted batch of students are proposed as **3-1-0-0** and **1-0-2-0**, which leaves the students with 2 free slots in the time table. However, in case of the FED students not being able to be provided with the additional slot for engineering graphics course and retain the 3 free slots in the time table, the original L-T-P-S structures of **2-0-2-0** for **19ME1201** and **0-0-0-2** for **19ME1002** will be retained.
Dean Academics and Coordinator FED are requested to ensure that these changes can be implemented for the sections of Mechanical Engineering students and refer back to the Chairman BoS-ME.
- The changes in L-T-P-S structures for the courses of **“Thermal Fluids Engineering – II”**, **“Design and Manufacturing – II”**, **“Product Design and Development”** offered in the 4th Semester (2018 admitted batch) were revised to get 5 free contact hours for the students.
- One Online course will be offered on **“Artificial Intelligence”** for all 4th semester students (2018 batch) to accommodate the available free contact hours and to earn 4 credits, lost due to reduction in contact hours of other courses.
- The changes in L-T-P-S structures for the courses of **“Ecology and Environment”**, **“Indian Constitution”**, **“Skilling for Engineers – 2 (Artificial Intelligence)”** and **“Technical Proficiency and Training – 2 (Machine Learning)”** offered in the 6th Semester (2017 admitted batch) were revised to get more free hours for the students.
- The additional free slots which are 21 hours in number in the 6th semester (2017 admitted batch) are dedicatedly provided for comprehensive high-end placement training.
- Two elite sections were formed in II year and III year each, and the list of course instructors identified for elite sections was approved. The syllabus for the elite sections will be designed by including GATE, Engineering Services Exams topics. The evaluation components (Test-1, Test-2 and Sem End Exam) will include the questions from GATE and IES.
- Faculty handling the elite sections must undergo the course in Coursera along with the students and evaluation for the courses done through Coursera by the students will be held in the presence of the faculty and relative grading system will be followed for those courses completed by the students in the Coursera.

Agenda Item 2:

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 even semester.

Resolution:

It is resolved to approve the revisions proposed by the course coordinators for the courses offered in 2019-20 even semester as listed below:

- a) Engineering Graphics for Mechanical Engineers (19ME1002) (**Annexure: 2(a)**)
- b) Mechanics of Solids – I (19ME1201) (**Annexure: 2(b)**)
- c) Design and Manufacturing - II (18ME3115A) (**Annexure: 2(c)**) (for Elite)

- d) Design and Manufacturing - II (18ME3115) (**Annexure: 2(d)**)
- e) Machine Design (18ME3114) (**Annexure: 2(e)**)
- f) Product Design and Development (18ME3117) (**Annexure: 2(f)**)
- g) Robotics and Control (18ME3116) (**Annexure: 2(g)**)
- h) Thermal Fluids Engineering - II (18ME2212) (**Annexure: 2(h)**)
- i) Advanced Materials (17ME4062) (**Annexure: 2(i)**)
- j) Advanced Vibrations and Noise Control (17ME4053) (**Annexure: 2(j)**)
- k) Autotronics (17ME4082) (**Annexure: 2(k)**)
- l) Design and Manufacturing - II (17ME3219) (**Annexure: 2(l)**)
- m) Ecology and Environment (17GN1001) (**Annexure: 2(m)**)
- n) Elements of Mechanical Design (17ME3220) (**Annexure: 2(n)**)
- o) Design of Transmission Elements (16ME4125) (**Annexure: 2(o)**)
- p) Machine Learning (16TS703) (**Annexure: 2(p)**)
- q) Data Analytics (17ME4102) (**Annexure: 2(q)**)

Agenda Item 3:

To consider the list of courses offered through Coursera in the even semester of 2019 – 20

Resolution: The suggested list of courses offered through Coursera during the even semester of 2019-20 was approved. The list of all such courses is shown in **Annexure-3**.

Agenda Item 4:

To consider and approve the changes in the list of pre-Ph.D. courses for the scholars from the 17th batch (i.e. July 2019 admitted batch).

Resolution: It is resolved to approve that the core courses offered in all the PG programs will be treated as the list of pre-Ph.D. courses for scholars admitted from the 17th batch (i.e. July 2019 admitted batch). The list of all such courses is attached as (**Annexure-4**).

Other Item 1:

To consider and approve the curriculum of B.Tech 2019 admitted batch.

Resolution:

It is resolved to approve the minor changes proposed in L-T-P-S structure of 2019 admitted batch curriculum. The detailed curriculum of 2019 admitted batch is shown in **Annexure-5**.

(Dr. A. Srinath)
Chairman – BoS
Dept. of ME





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DEPARTMENT OF MECHANICAL ENGINEERING
MINUTES OF BOARD OF STUDIES MEETING

The department Board of Studies meeting was held from 10:00 A.M. on 02/06/2019 in HoD Chamber, with HoD in the chair.

The following **Internal Members** were present:

1. Dr. A. Srinath, Professor, HoD-ME, BOS - Chairman
2. Mr. D. V. A. Ramasastry, Associate Professor, Deputy HoD-ME
3. Mr. T. Vijay Kumar, Associate Professor, Deputy HoD-ME
4. Dr. A. Jagadeesh, Professor, CCO
5. Dr. K. Rama Krishna, Professor and Dean Quality
6. Dr. B. Nageswara Rao, Professor, Chairman RPAC-I
7. Dr. G. Diwakar, Professor, Chairman RPAC-II
8. Dr. P. Issac Prasad, Professor, Group Head, Energy & CFD
9. Dr. Rajesh Kumar Bhuyan, Professor, Group Head-Design & Manufacturing
10. Dr. Y. Kalyan Chakravarthy, Associate Professor, Group Head-Robotics & Mechatronics
11. Dr. P. V. Chalapathi, Professor, Associate Dean, Practice School
12. Dr. K. V. Narasimha Rao, Professor
13. Dr. D. Kiran Kumar, Associate Professor
14. Dr. G. Yedukondalu, Associate Professor
15. Dr. M. B. S. Sreekar Reddy, Associate Professor
16. Mr. P. Ratna Prasad, Assistant Professor
17. Mr. P. Kasi V Rao, Assistant Professor

The following **External Members** were present:

18. Dr. A. Venu Gopal, Professor, Dept. of ME, NIT Warangal
19. Dr. R. Vijaya Kumar, Senior Manager, R & D, HAL, Bangalore (Alumni)
20. Dr. P. Srinivasa Rao, Global Training Head, Cyient Technologies, Hyderabad
21. Dr. K. Raviteja, Deputy Manager, Hyundai R&D Division, Hyderabad (Alumni)

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

22. Dr. B. Loveswara Rao, Professor, Dept. of BEE

The following **student members** were present:

23. Mr. S. Narayana Murthy (160070331), III/IV B.Tech-ME
24. Mr. Shubham Mohindra (160070392), III/IV B.Tech-ME
25. Mr. K. Jeyavanth (170070097), student, II/IV B.Tech-ME

Dr. A. Srinath, Chairman of BoS opened the meeting by welcoming and introducing the external members, to the internal and co-opted members and thanked them for accepting to become the member of the Board of Studies.

After due deliberations, the following resolutions have been adopted:

AGENDA and RESOLUTIONS

Agenda Item 1:

To consider and approve the curriculum for 2019 admitted batch of B.Tech-ME

Resolution:

BoS chairman presented the detailed B.Tech curriculum for 2019 admitted batch to all the members. Upon due deliberations, the external members suggested the following modifications/revisions in curriculum:

- The courses entitled Problem solving and computer programming (19SC1101) and Data Structures (19SC1202) must be redesigned using JAVA as a fundamental tool, and same must be conveyed to the dept. of CSE.
- The course entitled English Proficiency (Technical writing & speaking skills) (19UC1202) must be taught in collaboration with the Mechanical department faculty and English department faculty, to give more emphasis on technical writing part.
- Metrology part shall be included in the course entitled Measurements and Instrumentation (19ME2106) and the title shall be renamed as "Metrology and Measurements" and it shall be offered in fifth Semester. BoS chairman instructed the Group Head, Dr. Rajesh Kumar Bhuyan to prepare the revised syllabus within a week time.
- The course entitled Materials for Mechanical Engineering Applications (19PH2007) shall be offered in third semester and the course Metrology and Measurements shall be offered in fifth semester.
- The courses entitled Mechanics and Materials-I (19ME1201) and Mechanics and Materials – II (19ME2108) shall be renamed as Mechanics of Solids –I and Mechanics of Solids –II respectively in order to match the content of the syllabus.

It is resolved to accept the above suggestions given by the external members to include in the curriculum and the updated curriculum is shown in the **Annexure-1**.

Agenda Item 2:

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 2019-20 odd semester as listed below:

- a) Finite Element Analysis of Solids & Fluids (17ME3117) (Annexure: 2(a))
- b) Design and Manufacturing – I (17ME3114 & 18ME2211) (Annexure: 2(b))
- c) Computational Thinking & Data Sciences (17ME2005) (Annexure: 2(c))
- d) Skilling for Engineers-3 (Problem Solving Techniques in Thermal) (17TS703) (Annexure: 2(d))
- e) Machine Drawing (18ME2110) (Annexure: 2(e))
- f) Skilling for Engineers-4 (Problem Solving Techniques in Design) (18TS704) (Annexure: 2(f))
- g) Measurements & Instrumentation (18ME2106) (Annexure: 2(g))

- h) Automotive Transmission (16ME4073) (Annexure: 2(h))
- i) Modern Manufacturing Process (16ME4160) (Annexure: 2(i))
- j) Automobile Engineering (16ME4071) (Annexure: 2(j))

Agenda Item 3:

To consider the feedback given by the stake holders on curriculum and other academic related issues.

Resolution: The feedback and suggestions received from all the stake holders on curriculum and other academic related issues were discussed. The consolidated details of feedback and respective resolutions are shown in Annexure-3.

Agenda Item 4:

To consider and approve the resolutions of Department Academic Committee (DAC) meeting held on 24-04-2019

Resolution: It is resolved to approve all the resolutions of Department Academic Committee (DAC) meeting held on 24-04-2019 (Annexure-4).

Under Any other items, the following points are taken up and resolved:

Other Item 1:

To propose the rules and modalities for the students opting for 1 year Internship during their final year of study.

Resolution:

For the students opting for 1 year Internship during their final year of study, the following rules/flexibilities shall be given:

- The mandatory rule of Publication in scopus indexed journal will be relaxed in lieu of this their field work will be evaluated.
- The theory courses offered in final year may be opted to complete in online mode by registering in approved MOOCs.
- Such students can opt for available academic flexibility like "acceleration" by overloading themselves during their third year of study or during summer break.
- For the courses with laboratory component offered in final year, student can use virtual Labs for the applicable courses.

Other Item 2:

- To present the Placements data for the A.Y 2018-19.
- To present the R & D related data for the A.Y 2018-19.

With the permission of the BoS Chairman, the Prof. I/C placements, Dr.M.B.S.Sreekar Reddy and Prof. I/C R&D presented the Placements data and R&D data of the Mechanical department for the A.Y 2018-19 to all the members of BOS.

Other Item 3:

Activities/Modalities to be implemented at University level to run the departments effectively without any lapses.

- The detention and promotion of students during the semester shall be the prerogative of the department.

- Attendance and marks of all students shall be submitted to concern HODs on fortnight basis in order to communicate the same to parents, monitor the progress and counsel the students continuously.
- As and when the End Semester Results were declared, concern HODs shall be given the access to view the results of all the students.

Resolution:

It is resolved to recommend these points for the discussion and approval in forth coming Academic Council.


(Dr. A. Srinath)

Chairman – BoS

Dept. of ME

Dr. A. SRINATH
PROFESSOR & HEAD
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Vaddeswaram - 522 502.

