

K L UNIVERSITY
DEPARTMENT OF MECHANICAL ENGINEERING
MINUTES OF DEPARTMENT ACADEMIC COMMITTEE MEETING

The Department Academic Committee meeting was conducted in HOD, Mechanical Engineering, chamber on 12th April 2016 at 1:00 pm

Agenda:

1. To discuss the feedbacks received from stake holders on curriculum
2. To propose the curriculum for B.Tech 2016-17 admitting batch
3. Any other points with the permission of the DAC chairman

The following members were present:

1. Dr.A.Srinath	Head of the Department
2. Dr.S.S.Rao	Professor
3. Dr. K.V.Ramana	Professor
4. Dr. K. L. Narayana	Dean, R & D
5. Dr.V.L.Krishnan	Robotics & Mechatronics Research Group Head
6. Dr. J.Ravindra	Thermal Research Group Head
7. Dr. B.RaghuKumar	Design and Manufacturing Research Group Head
8. T. Samuel(152070004)	M.Tech-Thermal Engineering student
9. N. Kiran Kumar(152071003)	M.Tech-Mechatronics student.
10. B. Ranjit(12007003)	IV/IV B.Tech Student
11. V.Lokesh(12007032)	IV/IV B.Tech Student
12. K.Siva Manikanta(12007057)	IV/IV B.Tech Student
13. T.Yeswanth Sai(13007121)	III/IV B.Tech Student
14. N. Siva Kumar(13007296)	III/IV B.Tech Student
15. E.L.N.R Madhukar (14004289)	II/IV B.Tech Student
16. S. Naga Lalitha Devi (14004636)	II/IV B.Tech Student

The following points were discussed and resolved:

1. The DAC discussed and resolved to recommend the integration of software tools to all the core courses of the B.Tech program and the research groups' heads are given the task of identify the respective software, course wise.
2. Upon discussing the feedback from students, the committee resolved to recommend the following to BOS
 - a. The removal of Signal Analysis course as compulsory course (Annexure 1)
 - b. The addition of Economics for Engineers as a compulsory course (Annexure 1).
3. Upon discussing the feedback from faculty, the committee resolved to recommend the changes made in Thermodynamics course (Annexure 1).
4. It is resolved to modify the syllabus for machine drawing course (Annexure 1).
5. DAC members suggested to consider, Technical English course in place of Inter personal Communication Skills and Corporate Communication Skills(Annexure 1)

6. Upon discussing the feedback from students, it was resolved to remove projects in laboratory courses, as the students are overloaded.
7. Under Manufacturing Engineering stream, the syllabus of the core courses was presented.
 - a. It is resolved to modify the syllabus of Metallurgy course (Annexure 1).
 - b. It is resolved to add Industrial visit for gaining hands-on experience for Manufacturing Technology course at an appropriate time frame as per course delivery plan/ handout.
 - c. It is suggested to trim the syllabus of Metal Cutting and Machine Tools course and combine the trimmed syllabus with Metrology course and rename the Metrology course and Machine Tools and Metrology (Annexure 1).
 - d. It is also resolved to include Production and Operations Management, Operations Research courses, under the manufacturing engineering stream (Annexure 1).
8. Under Design Engineering stream, the syllabus of two engineering science courses and six core courses was presented.
 - a. It is resolved to offer Engineering Graphics and Mechanics as engineering science courses (Annexure 1).
 - b. It is resolved to introduce Machine drawing course as core course.(Annexure 1)
 - c. It is resolved to add deflections of beams topic in the Strength of Materials course (Annexure 1).
 - d. It is suggested to add Riveted Joints in the syllabus of Design of Machine Elements (Annexure 1).
 - e. It is resolved to split Mechanisms and Machine Theory as two separate subjects Kinematics of Machines and Dynamics of Machines (Annexure 1)
 - f. It is resolved to offer Strength of Materials, Kinematics of Machines, Dynamics of Machines, Design of Machine Elements and Design of Transmission Elements as six core courses under Design Engineering stream (Annexure 1).
9. Under Thermal Engineering stream, the syllabus of one engineering science course and five core courses was presented.
 - a. It is resolved to offer Engineering Thermodynamics as engineering science course (Annexure 1).
 - b. It is resolved to offer Fluid Mechanics and Hydraulic Machinery as a single course (Annexure 1).
 - c. It is resolved to offer Vapour Power Systems, Gas Power Systems, Internal Combustion Engines and Heat Transfer as five core courses under Thermal Engineering stream (Annexure 1).
 - d. It is resolved to add Industrial visit for gaining hand-on experience for Internal Combustion Engines course and put up at appropriate level of course delivery plan/ handout.
10. Under Robotics stream, the following core course are presented
 - a. It is resolved to add Robotics course as core course (Annexure 1).
 - b. It is resolved to combine Instrumentation and Control Systems course with Mechatronics course and rename it as Mechatronics' and offer as a core course (Annexure 1).

11. It was resolved to recommend to BOS to offer the following specializations under professional electives (Annexure 1).
- Design
 - Thermal
 - Manufacturing
 - Autotronics
 - Robotics and Mechatronics.
12. It is resolved to modify the syllabus of Mechanical vibrations course by adding the noise control topics (Annexure 1).
13. It is resolved to modify the syllabus of Fracture mechanics course (Annexure 1).
14. It is resolved to modify the syllabus of Condition Monitoring course (Annexure 1)
15. Upon considering above mentioned feedbacks and surveying through the policy documents in relevance to APIIC, Human Resource Development Policy, Govt. of India, National Skill Development Corporation, Govt. of India, Confederation of Indian Industries, The Associated Chambers of Commerce of India (Assocham), The National Association of Software and Services Companies (NASSCOM), ABET, NBA norms, AICTE statutory norms and American Society of Mechanical Engineers (ASME), it is resolved to propose enclosed curriculum for B.Tech-Mechanical Program for 2016-17 for BOS approval (Annexure 1).



Dr. A.Srinath
(Head of the Department)

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