

K L E F
DEPARTMENT OF MECHANICAL ENGINEERING
MINUTES OF DEPARTMENT ACADEMIC COMMITTEE (DAC)

The Department Academic Committee (DAC) Meeting was conducted at 10:30 A.M. on 24/04/2019 in the HoD Chamber, with HoD in the chair.

Agenda of the Meeting:

1. To discuss the feedback received from all stake holders.
2. To discuss and recommend Curriculum for 2019-20 admitted batch of B.Tech.
3. To discuss and recommend the changes proposed in curriculum of 2018-19 admitted batch of B.Tech.
4. To discuss and recommend the revisions proposed in syllabus/experiments/teaching pedagogies for the courses to be offered in 2019-20 odd semester, if any.
5. Any other points with the permission of chair.

The following Faculty Members were present:

1. Dr. A. Srinath, Professor, Head of the Dept.
2. Mr. D. V. A. Ramasastry, Associate Professor, Deputy HOD
3. Mr. T. Vijay Kumar, Associate Professor, Deputy HOD
4. Dr.Y.Kalyan Chakravarthy, Associate Professor, Group Head-Robotics & Mechatronics
5. Dr. P. Issac Prasad, Professor, Group Head-Energy & CFD
6. Dr. S. S. Rao, Professor, PG Coordinator
7. Dr. B. Nageswara Rao, Professor, RPAC Chairman
8. Dr. G. Diwakar, Professor, RPAC Chairman
9. Dr. K. V. Ramana, Professor
10. Dr. K. V. Narasimha Rao, Professor
11. Dr. M. Nageswara Rao, Associate Professor, Y16 Batch Coordinator
12. Mr. G. Sanjay Krishna, Associate Professor, Y18 Batch Coordinator
13. Mr. K. M. V. Ravi Teja, Assistant Professor, Y17 Batch Coordinator
14. Dr. M. B. S. Sreekar Reddy, Associate Professor, Prof. I/C Placements
15. Mr. P. Kasi V Rao, Asst. Professor, Prof. I/C Academics
16. Mr. P. Ratna Prasad, Asst. Professor, Prof. I/C Quality

The following Students Members were present:

1. Mr. P. Vamsi Ram Chaitanya (182072005), I/II M.Tech-Robo & Mechatronics
2. Ms. M. Sankeerthana (182071015), I/II M.Tech-Thermal
3. Mr. R. kiran Kumar Reddy (182073001), I/II M.Tech-Machine Design
4. Mr. A. Mani Krishna (150070033), IV/IV B.Tech
5. Mr. G. Raj Kumar (150070111), IV/IV B.Tech
6. Mr. K. taraka Sri Ram (150070177), IV/IV B.Tech
7. Mr. A. Dharmendra (160070004), III/IV B.Tech
8. Mr. S. Narayana Murthy (160070331), III/IV B.Tech

9. Mr. Shubham Mohindru (160070392), III/IV B.Tech
10. Mr. S. Sai (160070404), III/IV B.Tech
11. Mr. R. Jugal Kishore (160070398), III/IV B.Tech
12. Mr. A. Hema Sai (170070008), II/IV B.Tech
13. Mr. K. Jeyavanth (170070097), II/IV B.Tech
14. Mr. P. Lokesh (170070152), II/IV B.Tech

The following points were discussed, deliberated:

AGENDA and RESOLUTIONS

Agenda Item 1:

To discuss the feedback received from all stake holders.

Resolution:

- a) With reference to the feedback given by students regarding requirement of addition of more no. of lecture hours for a course, it is resolved to educate the students about the importance of self-learning and addressed all the members about the Blended Learning concept introduced in 2019-20 odd semester courses, where in for a course with 45 periods of theory classes: 15 periods are allotted for regular teaching by course instructor, 15 periods for self-learning through MOOCs, 15 periods for Peer Learning.
- b) With reference to the feedback given by an Alumni, Mr. Khadar Basha Abdul working for Rolls-Royce, regarding inclusion of Geometric Dimensioning and Tolerancing course in B.Tech program, it is resolved to deliver the content of course entitled "Geometric Dimensioning and Tolerancing" for Y16 students during CRT classes and for Y17 & Y18 students in Machine drawing, Design and Manufacturing Courses.
- c) With reference to the suggestions given by Dr.R.Vijay Kumar, HAL Bangalore regarding inclusion of Artificial intelligence techniques in solving mechanical engineering applications, it is resolved to include the Artificial Intelligence Course along with Robotics Course in Y19 Curriculum.

Agenda Item 2:

To discuss and recommend the Course Structure for 2019-20 admitted batch of B.Tech.

Resolution:

The detailed course structure semester wise was discussed in detail with all the members and finalized the curriculum for 2019-20 admitted batch of B.Tech. The detailed course structure semester wise is shown in **Annexure-1**.

Agenda Item 3:

To discuss and recommend the changes proposed in curriculum of 2018-19 admitted batch of B.Tech.

Resolution:

The following modifications were resolved to incorporate in curriculum of 2018-19 admitted batch:

- Finite Element Analysis of Solids & Fluids (18ME3117) course is replaced with Product design & development with L-T-P-S: 0-0-6-0.
- Elements of Mechanical Design (18ME3114) course is renamed as Machine Design with L-T-P-S: 3-2-0-0.
- Dynamics & Control-I (18ME2109) course is replaced with Kinematics and Dynamics of Machines with L-T-P-S: 3-0-2-0.
- Dynamics & Control-II (18ME2213) course is replaced with Vibrations and Controls with L-T-P-S: 3-0-0-0.
- The pre-requisite (18ME2108) for Skilling for Engineers-4 (Problem Solving Techniques in Design-18TS704) is replaced with Mechanics and Materials-I (18ME1201).
- The course entitled "Universal Human Values & Professional Ethics (18UC0010)" will be offered as online course with zero contact hours.

Agenda Item 4:

To discuss and recommend the revisions proposed in syllabus/COs/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:

- Finite Element Analysis of Solids & Fluids (17ME3117) (Annexure: 2(a))
- Design and Manufacturing – I (17ME3114 & 18ME2211) (Annexure: 2(b))
- Computational Thinking & Data Sciences (17ME2005) (Annexure: 2(c))
- Skilling for Engineers-3 (Problem Solving Techniques in Thermal) (17TS703) (Annexure: 2(d))
- Machine Drawing (18ME2110) (Annexure: 2(e))
- Skilling for Engineers-4 (Problem Solving Techniques in Design) (18TS704) (Annexure: 2(f))
- Measurements & Instrumentation (18ME2106) (Annexure: 2(g))
- Automotive Transmission (16ME4073) (Annexure: 2(h))

It is resolved to approve the syllabus for the courses introduced newly as per the resolution made in Internal BOS dated 04-01-2019 Item no: 1a, 1b, 1c.

- Artificial Intelligence (Annexure: 3(a))
- Machine Learning (Annexure: 3(b))
- Data Analytics (Annexure: 3(c))

For the course entitled "Universal Human Values & Professional Ethics (17UC0010)", the contact hours is reduced to 1, to encourage the students towards self-learning through online sources.

Under Any Other Items, the following points were discussed

Other Item-1:

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

Resolution:

Students opting for 1 year Internship during IV year have to impart the skills gained in internship to their CRT registered juniors through series of seminars. As, this sort of skill transfer sessions will exhibit the skill acquired by such students and also will benefit the students seeking placement opportunity, this activity may be considered as equivalence to project part-I or project part-II with same credits.

Other Item-2:

To offer the training classes on latest software for CRT students during CRT Training.

Resolution:

It is resolved to offer hands-on training program on FUSION 360 and CATIA for CRT students by APSSDC during their CRT classes conducted in summer break to make them ready for the Companies seeking these skills.

Other Item-3:

To recommend the changes proposed in L-T-P-S structures of skilling courses offered for 2017-18 and 2018-19 admitted batches.

Resolution:

It is resolved to revise the L-T-P-S structures for the skilling courses offered for 2017-18 and 2018-19 admitted batches to overcome the operational difficulties like excess contact hours per week in a semester. The revised L-T-P-S structures are as follows:

Skilling courses for 2017-18 admitted batch						
Code	Course Title	L	T	P	S	Cr
17TS702	Skilling for Engineers-2 (Artificial Intelligence)	0	0	0	4	1
17TS703	Skilling for Engineers-3 (Problem Solving techniques in Thermal)	0	0	0	4	1
17TS704	Skilling for Engineers-4 (Problem Solving techniques in Design)	0	0	0	4	1
17TS706	Technical Proficiency & Training -2 (Machine Learning)	0	0	0	4	1

Skilling courses for 2018-19 admitted batch						
Code	Course Title	L	T	P	S	Cr
18TS701	Skilling for Engineers-1 (Manufacturing Technologies)	0	0	0	6	1.5
18TS702	Skilling for Engineers-2 (Artificial Intelligence)	0	0	0	6	1.5
18TS703	Skilling for Engineers-3 (Problem Solving techniques in Thermal)	0	0	0	6	1.5
18TS704	Skilling for Engineers-4 (Problem Solving techniques in Design)	0	0	0	6	1.5
18TS706	Technical Proficiency & Training -2 (Machine Learning)	0	0	0	4	1

Other Item-4:

To recommend and propose the list of open electives for 2016-17 admitted batch.

Resolution:

It is resolved to offer/continue the same open electives which are being offered for 2015-16 admitted batch to 2016-17 admitted batch also. The list is as shown below:

S. No.	Course Code	Course Title	L	T	P	Cr
1	15ME 30B4	Robotics	3	0	0	3
2	15ME 30B5	Mechatronics	3	0	0	3
3	15ME 30B6	Operations Research	3	0	0	3
4	15ME 30C6	Principles of Industrial Engineering	3	0	0	3
5	15ME 30C7	Alternative Energy Sources	3	0	0	3
6	15ME 30C8	Materials for Engineering Applications	3	0	0	3



Chairman DAC-ME

Dr. A. SRINATH

PROFESSOR & HEAD

Department of Mechanical Engineering

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