THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

Department of Mechanical Engineering

B.E Mechanical Engineering

Meeting on Consolidated Curriculum Review based on Feedbackfrom Stake holders

Date 21.11.2022

Meeting Date& Time : 14.11.2022

Meeting Venue: Department Seminar Hall

Members Present:

Prof.A.Valan Arasu	Dr. ML. Mahadevan	Mr. C.Selva Kumar
Prof.S.Muralidharan	Dr.B.Karthikeyan	Mr. M. Karthic
Prof. K.Chokalingam	Dr.M.Elango	Mr. M. Sermaraj
Prof.PL.K.Palaniappan	Dr.M.Balamurali	Dr S. Saravanakumar
Prof. C.Paramasivam	Dr.A.Samuel raja	Dr.A.Anitha
Prof.K.Srithar	Dr.M.Kannan	Dr. M.Sundar
Prof.P.Maran	Dr.M.S.Govardhanan	
Prof.S.Karthikeyan	Dr.R.Sivasankaran	
Dr.V.Balasubramani	Mr.T.Prakash	
Dr.S.Saravanaperumaal	Mr. C. Vignesh	

Meeting Minutes

Stakeholders : Students, Course handling faculty, Alumni & Employer

Syllabus reviewed: B.E.(Mechanical Engineering) curriculum- 2022

Based on the analysis of curriculum review feedback obtained from students, course handling faculty members, alumni and employers, the following points are considered for the review of curriculum of the **B.E.(Mechanical Engineering)** from 2022 onwards and will be placed in the forthcoming Board of Studies on 02.12.2022

Action taken based on the feedback review for curriculum review:

S.No.	Stake holder Suggestions	Semester*	Major Updates in Curriculum / syllabus
1	Recommended to add Machinability Rating and Cutting Tool temperature measurement. **(22ME430 - Machining Processes)**	IV	➢ Included Machinability - Concept, definition, factors influencing machinability rating. ➢ Included Sources and causes of heat generation in machining, effects of high cutting temperature on tool and workpiece, determination and control of cutting temperature
2	Recommended to add Non - Conventional Machining Processes. **(22ME430 - Machining Processes)** **Stake holders** **Course Handling Faculty –**	IV	➢ Included Principle operation and material removal rate for Ultra Sonic Machining (USM), Electro ChemicalMachining (ECM), Electric Discharge Machining (EDM) and Laser Beam Machining (LBM) process.

S.No.	Stake holder Suggestions	Semester*	Major Updates in Curriculum / syllabus
	Dr.C.Paramasivam and Mr.C.Selvakumar		
3	Recommended to have changes in evaluation pattern. **(22ME480 – Machining Practices Lab)** **Stake holders** **Course Handling Faculty – Dr.C.Paramasivam**	IV	➢ Internal assessment for 100 marks calculated based on Observation 65 marks, Record 10 marks & Test 25 marks it will be converted into 60 marks. ➢ Terminal practical examination will be conducted for 100 Marks as per the COE norms, to evaluate any 2 machine tool trades like turning, milling, drilling, grinding, shaping etc. with 1½ hours duration each & it will be converted in to 40 Marks.
4	Recommended to introduce new course on current trends in Mechanical Engineering **Stake holders** **2018 Alumni -TVSM CEP**		➢ **22MERJ0 – Industry 4.0**, completely new course was introduced. ➢ **22MERM0- AI for Mechanical Engineers** new course introduced
5	Recommended to revise Course outcomes and Content **(22MEPT0 – Design for Welding)** **Stake holders** Adjunct Faculty – Dr.G.Ravichandran, Former General Manager, WRI, BHEL, Trichy.		➢ Course outcomes was revised with few changes in contents.
6	**Student, faculty, Alumni** Python Programming Basic constructs shall be introduced	II	➢ 22ME250, Programming using C and Python course introduced
7	**Faculty , Alumni industry :** Energy system analysis course		Following New courses are introduced ➢ 22MEPE0-Design of Thermal systems ➢ 22MERA0- Energy Management in thermal systems ➢ 22MERB0-Solar Energy Systems
8	**Student , Faculty Suggestion:** Thermal Lab course shall be offered along with the thermal Engineering theory course in the same semester for better understanding.	III	➢ Thermal Engineering Lab has been shifted to the semester along with theory
9.	**Student and Faculty :** Interdisciplinary Bio-medical course shall be given as elective course	PSE/ PSE-ES	➢ Bio material elective course is introduced
10.	**Student and Faculty:** Separate mathematics course shall be introduced for Lateral entry students	III, IV	Following course are introduced ➢ 22MA310- Essential Matrices and Calculus and ➢ 22MEL10- Numerical methods and Operations Research
11.	**Faculty and Alumni :** Experiments in Dynamics shall be included.		➢ Dynamics lab is included in syllabus
12.	**Alumni:** course on Operational management shall be offered as a core course.	VII	➢ 22ME710-Operations Management course is given as core course

S.No.	Stake holder Suggestions	Semester*	Major Updates in Curriculum / syllabus
13.	**Faculty suggestion :** Non- destructive Testing course shall be offered as an elective course (3 credit) instead of industry supported one credit course		➢ 22MEPJ0- non- Destructive Testing techniques is introduced as elective course
14.	**Faculty suggestion :** Elective course on Machine tool design shall be introduced		➢ 22MEPG0 - Machine Tool Design is introduced
15.	**Faculty suggestion :** VLCI courses may be offered as credit courses.		➢ VLCI courses are offered as elective credit courses

Other activities for Curriculum Enrichment:

- Introduction of attractive industry supported course facilitating employability

21/11/22

BoS Coordinator

21/11/22

Program Coordinator

21/11/22

HoD