



SRM VALLIAMMAI ENGINEERING COLLEGE
(An Autonomous Institution)
ESTD.1999 – Accredited by NBA- Approved by AICTE
SRM Nagar, Kattankulathur – 603203.
Board of Studies in Mechanical Engineering



MINUTES OF THE 2nd MEETING OF THE BOARD OF STUDIES

Venue: Department of Mechanical Engineering

DATE: 24.01.2020

TIME: 10.00 AM

The Board of studies meeting started with the Welcome Address by the internal member Dr.S.Thirugnanam, followed by the power point presentation of the Chairman.

The following were the points discussed as per the AGENDA communicated,

- The minutes of the previous meeting was reviewed and approved.
- The Chairman highlighted that the Autonomy is for Quality Improvement and Bridging the Institute-Industry Gap.

M2.01: TO DISCUSS AND APPROVE THE B.E., DEGREE, CURRICULUM AND SYLLABI OF SRMVEC REGULATION 2019 UNDER AUTONOMOUS FOR III TO VIII SEMESTER FOR MECHANICAL ENGINEERING SUBJECTS.

- The BOS members requested to reduce credit from 2 to 1.5 for laboratories and contact periods from 4 to 3.
- The reduced credits should be added the following subjects, Operational Research, Engineering Thermodynamics, Heat and Mass Transfer, Engineering Mechanics and Finite Element Analysis are to be added with additional tutorial two periods and one credit.
- In Manufacturing processes, Cold metal technology to be added in **UNIT 2**.
- Year of edition of books to be checked.
- For Fluid Mechanics and Machinery, R.K.Bansal's text book to be added.
- Fluid Mechanics and Machinery authored by Frank.M.White to be included.



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- Two text book and four references to be maintained for all subjects.
- Two more experiments to be added in Fluid Mechanics and Machinery lab.
- Instead of "Conducting", the term "Calibrating" to be used in Fluid Mechanics and Machinery lab.
- For Kinematics of Machinery, one text book to be moved to reference.
- In **UNIT 3** of Metal Cutting and Machine Tools, slotting topic to be added.
- In Applied Thermodynamics, C.P.Arora book to replace R,K.Rajput book.
- In Manufacturing Technology Laboratory, total periods to be 45 instead of 60, similarly for all Laboratories the total periods to be maintained 45 instead of 60.
- P.K.Nag Text book to be include in reference for Thermal Engineering.
- Chattapathyaya book to be removed from "Design of Machine Elements", also riveted joints to be studied at Micro Level. For the same in first unit buckling topic to be used, instead of introduction topic.
- In Dynamics of machines, P.N.Rao book to be moved to text book.
- In Thermal engineering lab, performance energy balance test on steam turbine to be removed.
- In IC engines experiment, include performance test to be included.
- In general data book should be included all the related subjects like, Heat and Mass Transfer data book should be included in subject Heat and Mass Transfer.
- In **UNIT 4** of Heat and Mass Transfer, radiation topic to be changed and periods to be increased to 60.
- Industry type heat exchanger to be newly purchased or to be fabricated in Heat transfer lab examples Plate heat exchangers and etc.
- In Automobile engineering, **FIFTH UNIT** to be removed and a **LATEST TECHNOLOGY** to be included.
- For Gas Dynamics and Jet propulsion, text book to be changed to Ganesan IIT and reference no 6 is missing.



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- In Welding technology text books no 2 and 3 repeated.
- In Mechanical behavior of materials subject, UNIT FIVE heading to be changed to "Fatigue and creep studies".
- Three professional electives to be replaced with online courses having due credits and earlier too.
- Bright students who have completed online courses may be permitted to do industrial projects.
- Bucketing of electives, to be avoided.
- Credits of labs to be reduced to 1 or 1.5 and over all credits may be maintained from 170 to 180.
- Total number of periods to be balanced with total working days.
- Include data science basics in statistics and numerical methods.
- Automobile engineering may be renamed as, Mobility Engineering.
- Additive manufacturing may be broadened with **industry 4.0, digital manufacturing, materials and manufacturing.**
- Introduce electric vehicles in electives and three different subject experts from different branches may handle.
- In composite materials, light weighting may be included.
- In elective 5, connected vehicles may be included.
- In elective 6, autonomous vehicles may be included.
- In fundamentals of nano science, nano technology and its application to be included.
- The following are the suggested electives, Invention and intellectual property, Innovation and new product development, Design thinking and innovation, Data science for mobility engineers and Advances in automotive materials and manufacturing.



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M2.02: DISCUSS AND APPROVE THE B.E., DEGREE, CURRICULUM AND SYLLABI OF SRMVEC REGULATION 2019 UNDER AUTONOMOUS FOR III TO VIII SEMESTERS HANDLED BY OUR DEPARTMENT TO OTHER DEPARTMENTS.

- Titles of **open elective subjects** should be modified and portions to be generic and simplified.
- Mechanical open electives should not be offered to Mechanical engineering students.
- Embedded systems may be offered to mechanical engineering students.
- Alphanumeric characters may replace subject codes.

M2.03: TO DISCUSS AND APPROVE THE M.E., DEGREE (INDUSTRIAL SAFETY ENGINEERING), CURRICULUM AND SYLLABI OF SRMVEC REGULATION 2019 UNDER AUTONOMOUS FOR III & IV SEMESTERS.

- Agenda 2.03 was accepted without any comments.

ME2.04: OTHER ITEMS, IF ANY, WITH THE PERMISSION OF THE CHAIRMAN OF THE BOARD OF STUDIES.

- Finally, the committee discussed and approved the project report preparations for UG and PG, as per Anna University format.

The meeting then concluded with a cordial note by all the members.

Dr. K. SIVAKUMAR
(Chairman)