



MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY(MBCET)
THIRUVANANTHAPURAM-695015

MINUTES OF MEETING OF THE SEVENTH MEETING OF THE BOARD OF STUDIES
(AUTONOMOUS) HELD IN FARADAY HALL ON 01.04.2024 (WEDNESDAY) AT 02:00 PM

Members present:

1	Dr. Elizabeth Varghese	Chairman
2	Dr. S. Sudha	Member
3	Dr. S. N. Deepa	Member
4	Dr. Anju Pillai S	Member
5	Dr. Lal Priya P S	Member
6	Mr. Vinodkumar S	Member
7	Mr. Ananthakrishnan G	Member
8	Dr. Rijil Ramchand	Member
9	Dr. M. Marsaline Beno	Member
10	Dr. S. Ushakumari	Member
11	Dr. Nisha G K	Member
12	Dr. Shalu George K	Member Secretary
13	Mr. R S Praveen Raj	Member
14	Ms. P. Sandhya	Member
15	Mr. Rejish Babu F R	Member
16	Dr. A V Soumya	Member
17	Ms. Shyju Susan Mathew	Member
18	Ms. Manju Sreekumar	Member
19	Ms. C. Sojy Rajan	Member
20	Ms. Surasmi N L	Member
21	Ms. Vandana P	Member
22	Mr. Aswin R B	Member
23	Ms. Shilpa Susan Peter	Member
24	Dr. Dishore S V	Member
25	Dr. Sheryl Arulini A.	Member
26	Ms. Vrinda Prasad	Member
27	Ms. Revathy K P	Member

Members on leave:

Nil



MINUTES

Agenda Note Item	Subject
EE:BS 7.01	<p>(a) Invocation</p> <p>(b) Welcome Note by Chair</p> <p>(c) Welcoming new members and acknowledging the service of former members</p> <p>(d) Confirmation of the Minutes of the Sixth Meeting of the Board of Studies held on 12/07/2023.</p>
Gist	<p>The meeting started with a silent prayer.</p> <p>The Member Secretary apprised that there was quorum for the meeting as all the 27 members were present for the meeting.</p> <p>The new Chairman thanked the old Subject Experts and introduced and welcomed all the new Subject Experts and the faculty members to the Board of Studies.</p> <p>The Minutes of the Sixth Meeting of the Board of Studies held on 12/07/2023 was confirmed by the members.</p>
EE:BS 7.02	Report on the actions taken/actions pending on the pertinent decisions in the Minutes of the Sixth Meeting of the Board of Studies held on 12/07/2023.
Decision	The Chairman presented the modifications made as per the suggestions given by the BoS in the last meeting. The BoS reviewed and accepted the same.
EE:BS 7.03	Report on overview of the achievements in the Department after the Sixth meeting of Board of Studies held on 12/07/2023.
Decision	<p>The Chairman presented an overview of the achievements in the Department after the sixth meeting of Board of Studies held on 12/07/2023.</p> <p>The BoS noted and appreciated the same.</p>
EE:BS 7.04	Considering the 2022 draft Syllabus of S5 and S6 for the B.Tech programme in Electrical and Electronics Engineering.
Decision	<p>The Chairman presented the 2022 draft Syllabus of S5 and S6 for the B.Tech programme in Electrical and Electronics Engineering. The BOS approved the new syllabus with the following suggestions.</p> <p>Fundamentals of Soft Computing (S5 Elective)</p> <ul style="list-style-type: none"> • The term Non-traditional can be removed and corrected as Introduction to Metaheuristic Optimization Techniques. • The mentioned topic may be brought from Module 5 to Module 4 and Hybrid systems may be brought to Module 5 from Module 4. • Case studies to be added. • Practical applications can be included. • Simulations may be given as Assignments. <p>The Chairman apprised that one assignment shall be Project/Case study.</p> <p>Hybrid and Electric Vehicles (S5 Honours)</p> <p>Since the course is not taught for electrical engineering students, it should be dealt in that level with a clear idea, where the students of other branches will understand the concept.</p> <p>Engineering Electromagnetics (S6)</p> <p>The BOS suggested that the subject should be brought to the second year with theory and lab.</p>



	<p>Introduction to Signals and Systems (S6)</p> <p>The BOS suggested that the subject should be brought to fourth or fifth semester before Introduction to Control Engineering.</p> <p>Advanced Control Systems (S6 Elective)</p> <p>The BoS suggested that the topics Compensator design using Root locus, Design of PID controller using Root locus technique may be moved to Introduction to Control Engineering.</p> <p>Fundamentals of Machine Learning Machine Learning (S6 Elective)</p> <ul style="list-style-type: none"> • Include Case studies – Classification, Kernel function forming, • Coding sessions with MATLAB/Python should be included. <p>Introduction to Flight Dynamics and Control (S6 Elective)</p> <p>The BoS suggested to check the contents of the course as it is vast to cover the portions in the specified duration.</p> <p>Sports Engineering (Open Elective)</p> <ul style="list-style-type: none"> • As sports include a variety of games/athletics etc., and each sport has its own Rules and Regulations, the topic Sports Rules and Regulations may be avoided from Module V. • Try to make it open for EEE students also. <p>Some common suggestions:</p> <ul style="list-style-type: none"> • Include Minor and Honour courses as lab integrated courses. • Minor course on Python (Raspberry Pi - Python Interface for Electrical Engineering) shall have a lab component also. • Overlapping of core courses and electives are to be avoided.
EE:BS 7.05	<p>Considering the 2022 draft Syllabus of S5 and S6 for the B.Tech programme in Electrical and Computer Engineering.</p>
Decision	<p>The Chairman presented the 2022 draft Syllabus of S5 and S6 for the B.Tech programme in Electrical and Computer Engineering. The BOS approved the new syllabus with the following suggestions.</p> <p>Microprocessors and Embedded Systems (S5)</p> <ul style="list-style-type: none"> • Modules 1 and 2 may be merged for 8085 and Module 2 may be started with second part of Intel 8051. The syllabus for this may be reframed. • Microprocessors, Microcontrollers and Embedded Systems together is not advisable. • Introduce Microprocessor in Module I and go to Microcontrollers. • Add elective courses in the area of Embedded systems. <p>Operating Systems (S5)</p> <ul style="list-style-type: none"> • This subject shall be considered as the core course. <p>The Chairman apprised that since the curriculum was already fixed, the suggestion shall be incorporated in the next revision.</p> <p>Internet of Things (S6)</p> <ul style="list-style-type: none"> • Computer Networks in Module I can be removed as it is covered in Computer Communication and Network Security. <p>Computer Communication and Network Security (S6)</p> <ul style="list-style-type: none"> • Check whether any portion of the syllabus has a redundancy with Data Structures and Algorithms Course. <p>Advanced Microcontrollers (S6 Elective)</p> <ul style="list-style-type: none"> • Consider to include practical sessions with L-T-P: 2-0-2, 3 credits.



	<p>Digital Image Processing (S6 Elective)</p> <ul style="list-style-type: none"> Keep a portion on Image analysis. <p>Embedded Systems and IOT Lab (S6)</p> <ul style="list-style-type: none"> Syllabus to be modified. Only 2 experiments 50-50 experiments shall be included for 8051 and IoT. Try to limit ALP programming exercises and concentrate more on interfacing experiments. <p>Instrumentation and Automation of Power Plants (S6 Minors)</p> <ul style="list-style-type: none"> This should be given to Electrical students as an Elective course. <p>Mathematics for Machine Learning</p> <ul style="list-style-type: none"> Check whether coding is required to be included in the course. <p>Machine Learning Programming (S6 Honours)</p> <ul style="list-style-type: none"> Course may be renamed as Introduction to Machine Learning. <p>Automotive Electrical and Electronic Systems (S6 Honours)</p> <ul style="list-style-type: none"> The course may be renamed as Automotive Electronics or Automotive Electronic Systems.
EE:BS 7.06	<p>Considering the 2023 draft syllabus of S3 and S4 for the B.Tech programme in Electrical and Electronics Engineering.</p>
Decision	<p>The Chairman presented the 2023 draft syllabus of S3 and S4 for the B.Tech programme in Electrical and Electronics Engineering. The Chairman informed the BoS about the introduction of the fractal courses and Lab integrated courses in the 2023 Curriculum and also about the changes in the Assessment pattern.</p> <p>The BoS enquired about the 5 credits allotted for the lab integrated courses.</p> <p>Logic System Design</p> <ul style="list-style-type: none"> Credits may be reduced to 4. Tutorial part may be removed. Topic on FPGA may be difficult for the students. <p>The Chairman apprised that the suggestions shall be incorporated. The BOS approved the new syllabus</p>
EE:BS 7.07	<p>Considering the 2023 draft syllabus of S3 and S4 for the B.Tech programme in Electrical and Computer Engineering.</p>
Decision	<p>The Chairman presented the 2023 draft syllabus of S3 and S4 for the B.Tech programme in Electrical and Computer Engineering. The BOS approved the new syllabus.</p>
EE:BS 7.08	<p>Approval of additional MOOC Courses for B.Tech Honour and Minor Courses and M.Tech programme.</p>
Decision	<p>The Chairman presented additional MOOC Courses for B.Tech Honour and Minor Courses and M.Tech programme. The BOS approved the same.</p>
EE:BS7.09	<p>Approval of the Industry oriented Course for M.Tech programme.</p>
Decision	<p>The Chairman presented the syllabus of the Industry oriented Course for M.Tech programme. The BOS approved the same.</p>
EE:BS7.10	<p>Approval of additional list of Examiners.</p>
Decision	<p>The Chairman presented the additional list of Examiners. The BOS approved the same.</p>
EE:BS7.11	<p>Course code changes of already approved courses in 2022 Curriculum.</p>
Decision	<p>The Chairman reported to the BoS about the Course code changes of already approved courses in 2022 Curriculum. The BOS approved the same.</p>



EE:BS7.12	Changes in the distribution of marks of S7 Seminar in 2020 scheme of syllabus.
Decision	The Chairman reported to the BoS about the changes in the distribution of marks of S7 Seminar in 2020 scheme of syllabus. The BOS approved the same.
EE:BS7.13	Information regarding modifications w.r.t changes in the new KTU curriculum.
Decision	The Chairman apprised the BoS members about the modifications that may be brought in the 2023 Autonomous Curriculum w.r.t the changes in the curriculum of the parent University which will be brought in 2024. MBCET may have to increase its total credits from 163 credits to 170 by having a revised 2024 scheme to align with the total credits proposed by KTU. This could be done by very minor changes in MBCET 2023 curriculum.
EE:BS7.14	Any other matter with the permission of the Chair.
Decision	<p>The BoS members expressed their appreciation to the Chairman for presenting the Syllabus and providing an overview of the Department's activities.</p> <p>The BoS suggested (i) to include more lab-oriented theory courses to help students thoroughly understand the subjects (ii) incorporating Management courses into the curriculum and also commended the 6-month internship option.</p> <p>The Chairman apprised that the current Curriculum makes it challenging to add more practical courses but assured that some courses will be made lab-oriented. The Chairman thanked the BoS members and assured them that their valuable comments would be considered.</p>

Meeting adjourned at 05:15 PM with thanks to the Chair.

Date. 08.06.2024

Member Secretary

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Approved with permission for circulation among the BoS Members.

CHAIRMAN