



**MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**THIRUVANANTHAPURAM-695015**

**Department of Electronics and Communication Engineering**

MINUTES OF THE FOURTH MEETING OF BOARD OF STUDIES (AUTONOMOUS)

VENUE: PASCAL HALL / ONLINE

DATE: 11:08:2022 (THURSDAY)

TIME: 2:00PM

**Members present:**

1	Dr. Jayakumari J, Professor & Head	Chairman
2	Dr. S. Raghavan, Visiting Professor, Dept. of ECE, NITT (Attended Online)	Member
3	Dr. P. Muthuchidambaranathan, Professor & Head, Dept. of ECE, NITT (Attended Online)	Member
4	Dr. M. Meenakshi, Professor, College of Engg. Guindy (Attended Online)	Member
5	Mr. Balamurali L, Director - Quality and Testing, Cochin (Attended Online)	Member
6	Dr. Manoj B S, Professor, Dept. of Avionics, IIST (Attended Online)	Member
7	Dr. S. ViswanathaRao, Professor & Vice Principal	Member
8	Dr. Paul Thomas, Professor & Dean (PG)	Member
9	M. J. Jayashree, Professor & IQAC Coordinator	Member
10	Ms. Luxy Mathews, Assoc. Professor	Member
11	Dr. Swapna P.S., Asst. Professor	Member
12	Ms. TeenaRajan, Asst. Professor	Member
13	Dr. Sreedevi P., Asst. Professor	Member
14	Ms. Deepa P.L., Asst. Professor	Member
15	Mr. Niyas K. Haneefa, Asst. Professor	Member
16	Mr. Jinu Baby, Asst. Professor	Member
17	Mr. Anoop K. Johnson, Asst. Professor	Member
18	Ms. Ann Mary Alex, Asst. Professor	Member
19	Ms. Remya Annie Eapen	Member
20	Ms. Lakshmy S.	Member
21	Ms. Anu Susan Philip, Asst. Professor	Member
22	Mr. Sherry Varghese George, Asst. Professor	Member
23	Ms. Amritha B.J., Asst. Professor	Member
24	Mr. Arun J.S., Asst. Professor	Member
25	Mr. Jijo Jose, Asst. Professor	Member
26	Ms. Salga Ann Jacob	Member
27	Ms. Ancy S. Anselam, Assoc. Professor	Member Secretary



**Members on leave:** Dr. P.P. Deepthi, Dr. G. K.Giridhar, Dr. S. M. Sameer, Dr. Seena V., Dr.Birenjith P. S,Ms. Minu Maria Joseph, Ms. Ancy Joy

**Minutes of Meeting**

Item Sl. No.	Section 1 Procedural
EC:BS 4.01	(a) Invocation
	(b) Welcome Note by Chair
	(c) Welcome and Introduction of New Subject Expert
	(d) Confirmation of the Minutes of the Third Meeting of the Board of Studies held on 25/11/2021.
Gist	<p>Proceedings began with a silent prayer.</p> <p>Secretary apprised that there was quorum for the meeting as 27 members were present for the meeting.</p> <p>The Chairman welcomed all the members to the Fourth meeting of the Board of Studies.</p> <p>The Chairman introduced the subject expert for the new PG programme- M.Tech in “IoT and Sensor Systems”-Dr. Manoj B S, Professor, Dept. of Avionics, IIST to the themeeting and welcomed him to the Board of Studies.</p> <p>Minutes of the Third meeting was confirmed by the Board of Studies.</p>
EC:BS 4.02	<b>Report on the actions taken/actions pending on the pertinent decisions in the Minutes of the Third Meeting of the Board of Studies held on 25/11/2021.</b>
	<p>Actions were initiated on all pertinent decisions in the Minutes of the Third meeting. However, pursuant to the decisions of the Governing Body in its Fourth meeting, the discussions on the revision of the Curriculum and Syllabus of the B.TechProgrammein ECE wasstarted. In 2020, College had adopted the curriculum which was in alignment with the 2019 Scheme of the APJ Abdul Kalam Technological University (affiliating University). The revision was initiated after considering the advancements in science, technology and engineering and the need for equipping the graduating students with requisite knowledge and skills. Later, it was known that the substantial changes in the curriculum framework would be brought in by the affiliating University in 2023-2024. Hence the revision of UG curriculum was postponed.</p> <p>It is proposed to go for revision of the curriculum of the M.TechProgramme in 2022-2023. Department has taken inputs from industry experts and alumni and also prepared the curriculum according to the new curriculum framework of the affiliating University, as it was seen that there are some desirable features like Internship, longer time for Major Project etc. The revision process is in progress.</p>
EC:BS 4.03	<b>Report on overview of the achievements and activities in the Department after the third meeting of Board of Studies held on 25/11/2021.</b>
Gist	Chairman presented a PPT showing the achievements and activities in the department after the thirdBoS meeting that was <b>held on 25/11/2021</b> .
EC:BS 4.04	<b>Consideration of newly introduced course - M.Tech in “IoT and Sensor Systems”.</b>



<b>Gist</b>	Chairman informed the BoSto make a note on the approval obtained from AICTE for the conduct new PG course - M.Tech in “IoT and Sensor Systems”. It was informed that the M.Tech Programme would be first of its kind in Kerala and Department expect high acceptability for it.
<b>EC:BS 4.05</b>	<b>Consideration of the Curriculum for M.Tech in “IoT and Sensor Systems” (2022 Scheme).</b>
<b>Decision</b>	<p>The Chairman presented the draft M.Tech Curriculum formulated with reference to the new framework of the affiliating University. It is informed that, the formulated curriculum structure is broadly following the recently revealed M.Tech scheme by APJ Abdul Kalam Technological university.</p> <p>BOS examined the presented new M.Tech curriculum and approved the same with following modifications:</p> <p><b>Semester-1</b></p> <ul style="list-style-type: none"> <li>- Data Acquisition lab: Dr. B S Manoj and Dr. M. Meenakshi suggested to slightly enhance the content of Data Acquisition lab to include Data Acquisition with IoT Systems, Embedded Systems etc. Also, suggested to modify the course title as IoT Data Acquisition and Analysis lab / IoT Data Acquisition and Signal Processing lab.</li> <li>- Decided to modify the course name as IoT Data Acquisition and Analysis lab.</li> </ul> <p><b>Semester-2</b></p> <ul style="list-style-type: none"> <li>- Dr. B S Manoj suggested to modify the Course title Microcontrollers for IoT Prototyping as Microcontrollers and Embedded Systems for IoT.</li> </ul> <p>Decided to change the course name as Microcontrollers for IoT since the course Embedded System Design is already there as an elective.</p> <ul style="list-style-type: none"> <li>- Dr. B S Manoj also suggested modifying the Lab Course name Sensors and IoT as IoT and Sensor Systems lab.</li> </ul> <p><b>Semester-3</b></p> <ul style="list-style-type: none"> <li>- Dean PG, Dr. Paul Thomas mentioned that the Audit Course is a mandatory course put forward by KTU, as a response to Dr. B S Manoj for the comment on the additional load (Audit Course) given to students during the Dissertation. Then, Dr. B S Manoj suggested allowing the students to do same as a MOOC or NPTEL course. As a response to this, Dr. M. Meenakshi mentioned that Audit course is there in AICTE curriculum also and there will not be any flexibility to change the same.</li> </ul> <p>BoS approved the Curriculum after incorporating the modifications suggested by the Members</p>
<b>EC:BS 4.06</b>	<b>Consideration of the syllabus for M.Tech in “IoT and Sensor Systems” (2022 Scheme).</b>
<b>Decision</b>	<p>The Chairman presented the new syllabus for M.Tech in “IoT and Sensor Systems” (2022 Scheme).</p> <p>BOS examined the presented syllabus and approved the same with modifications as per the changes mentioned in the curriculum and with the following suggestions.</p> <p><b>Semester-1</b></p> <ul style="list-style-type: none"> <li>- Dr. M. Meenakshi mentioned to include Side channel Analysis in the last module of the course - IoT Security and Trust.</li> </ul>



	<ul style="list-style-type: none"> <li>- Dr. M. Meenakshi suggested to include some application based on IoT in 4<sup>th</sup> or 5<sup>th</sup> module of the course Signal Processing and Data Analytics.</li> <li>- As per the suggestion from Dr. B S Manoj, IoT sensors and devices based Data Acquisition is to be included in the Data Acquisition lab.</li> <li>- Dr. M. Meenakshi suggested to change 2, 3, 4 experiments title as - Acquire and characterize, so that the students can use signal spectrum analyzers.</li> </ul> <p><b>Semester-2</b></p> <ul style="list-style-type: none"> <li>- Dr. B S Manoj commented that the experiments in IoT and Sensor Systems lab can be enhanced so that the students can develop some real world systems. Opportunity has to be given for a larger system design through lab experiments.</li> </ul> <p><b>Electives</b></p> <ul style="list-style-type: none"> <li>- Principle of Sensors and Signal Conditioning - Dr. B S Manoj recommended to improve the course outcomes so that the students can learn more topics in application level.</li> </ul> <p>BoS recommended to expand the syllabus of courses so that it can reflect the course content.</p> <p>BoS approved the Syllabus after incorporating the modifications suggested by the Members</p>
<b>EC:BS 4.07</b>	<b>Consideration of the modified Curriculum for M.Tech in “Telecommunication Engineering” (2022 Scheme).</b>
<b>Decision</b>	<p>The Chairman presented the modified M.Tech Curriculum for M.Tech in “Telecommunication Engineering” to be followed from 2022 onwards, which was formulated based on the new programme structure revealed by APJ Abdul Kalam Technological university.</p> <p>BOS examined the presented curriculum and approved the same with following modifications:</p> <ul style="list-style-type: none"> <li>- Dr. M. Meenakshi commented that the core courses cover only the Base band communication techniques. So decided to replace Adaptive Digital Signal Processing with Telecommunication Networks and to include ADSP as elective course.</li> </ul> <p>BoS approved the Curriculum after incorporating the modifications suggested by the Members</p>
<b>EC:BS 4.08</b>	<b>Consideration of the modified syllabus for M.Tech in “Telecommunication Engineering” (2022 Scheme).</b>
<b>Decision</b>	<p>The Chairman presented the modified syllabus for M.Tech in “Telecommunication Engineering” (2022 Scheme).</p> <p>BOS examined the presented syllabus and approved the same with modifications as per the changes mentioned in the curriculum.</p>
<b>EC:BS 4.09</b>	<b>Reporting of Semester results of B.Tech and M.Tech programmes – Autonomy Batch</b>
<b>Decision</b>	<p>The Chairman presented the B.Tech and M.Tech End Semester Examination results (S8 (KTU), S4(KTU), S3(Autonomy), S1(Autonomy), M3(Autonomy) and M1(Autonomy)) after third BoS meeting. BoS expressed its appreciation for the works done by the Department and the entire faculty and staff in carrying forward the classes and examinations during the challenging time of the pandemic.</p>



	<p>Dr. B S Manoj enquired about the possible reason for the reduction in S3 (Pass percentage - 56.6) performance and recommended to conduct more additional classes for difficult subjects.</p> <p>BoS directed the Department to take note of the suggestions for improving the academic quality and initiate proper measures accordingly.</p>
<b>EC:BS 4.10</b>	<b>Consideration of additional list of examiners for question paper setting and evaluations – both UG and PG programmes.</b>
<b>Decision</b>	<p>The Chairman presented the additional list of examiners for the first and second year B.Tech and M.Tech End Semester Examinations.</p> <p>BoS approved the same.</p>
<b>EC:BS 4.11</b>	<b>Any other matter with the permission of the Chair.</b>
<b>Suggetions</b>	<ol style="list-style-type: none"><li>1. Dr. B S Manoj mentioned that the inclusion the course Big Data Analysis as an elective will be good for the MTech course - IoT and Sensor Systems.</li><li>2. Dr.Raghavan suggested to include the course Microwave Integrated Circuits as an elective for the MTech course - IoT and Sensor Systems.</li><li>3. Dr.Raghavan suggested to think of an inter disciplinary elective course Bio MEMS as an elective for the MTech course - IoT and Sensor Systems.</li><li>4. Dr.Raghavan commented to modify the elective course Antenna Theory and Design as Planar Antenna Theory and Design since only Planar antenna is used nowadays in most of the applications in the curriculum of Telecommunication Engineering.</li><li>5. Dr. B S Manoj suggested to include Wireless mesh or AdHoc Networks as an elective course in the curriculum of Telecommunication Engineering.</li></ol> <p>BoS directed the Department to take note of the suggestions and incorporate them duly into the curriculum</p>

Member Secretary proposed the Vote of Thanks.

Meeting adjourned at 4.00 pm.

Date.18.08.2022

Sd/-  
Member Secretary  
(Ms. Ancy S. Anselam)

Sd/-  
CHAIRMAN  
(Dr. Jayakumari J)

Approved with permission for circulation among the BoS Members

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