



SRM Valliammai Engineering College

(An Autonomous Institution)

Approved by AICTE & Affiliated to Anna University, Chennai.

'A' Grade Accreditation by NAAC, NBA Accredited, ISO 9001:2015 Certified

Department of Electronics and Communication Engineering

Minutes of the Board of Studies Meeting

03.04.2023

Members Present: *Dr. Komala James, Professor & Head, Dept. of ECE, SRMVEC, Chairman*
Dr. K. Jayanthi, Professor / ECE, PTU, Puducherry (University Nominee),
Dr. S. Poonguzhali, Professor/ECE, Center for Medical Electronics ,CEG, Anna
University (Subject Expert)
Dr. M. Anbu Selvi, Associate Professor / ECE / SSNCE (Subject Expert),
Ms. V. Subashri, Sub-Divisional Engineer / BSNL, Chennai (Industrial Expert)
Dr. N. Usha Bhanu, Professor & Head, Dept. of MED, SRMVEC, (Subject Expert)
Dr. G. Udhayakumar, Professor / ECE, SRMVEC (Subject Expert)
Dr. S. Ramesh, Professor / ECE, SRMVEC (Subject Expert)

Agenda : **FEC 3.01-** *To consider and approve the curriculum & syllabi of III & IV Semester for the UG Degree programmes to be offered under new regulation R-2023.*

- 1. B.E – ELECTRONICS AND COMMUNICATION ENGINEERING*
- 2. B.E – ELECTRONICS AND COMMUNICATION ENGINEERING (BIO-MEDICAL ENGINEERING)*

FEC 3.02- *To consider and approve the curriculum & syllabi of PG Degree programme to be offered under new regulation R-2023.*
M.E – COMMUNICATION SYSTEMS

FEC 3.03- *To discuss and approve the CO-PO Mapping*

FEC 3.04- *Any other points by the permission of chair person*

SRM Nagar, Kattankulathur-603 203, Kancheepuram District, Tamil Nadu, India.

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MINUTES

The Board Chairman welcomed all the members for the third BOS meeting for the approval of B.E Electronics Communication Engineering, B.E Electronics Communication Engineering (Bio-Medical Engineering) and M.E Communication Systems Curriculum and Syllabus of R2023.

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

The Curriculum and Syllabi for I to IV Semesters for the new 2023 Regulations in Autonomous for B.E Electronics and Communication Engineering Programme.

- Dr.K.Jayanthi suggested to swap subjects in V and VI Semester as mentioned below.

<ul style="list-style-type: none">• VLSI and Chip Design• Transmission Lines and Waveguides• VLSI Laboratory	V Semester
<ul style="list-style-type: none">• Wireless Communication• Networks and Security• Wireless Communication and Networking Laboratory	VI Semester

- Dr.K.Jayanthi and Ms.V.Subasri suggested to use Microwave and Optical Communication instead of Millimeter Wave and Optical Wave Communication in VII Sem. ECE Curriculum.
- Dr.K.Jayanthi and Dr.S.Poonguzhali suggested to rename the Course title "Project Work / Internship" as "Project Work" only as Internship may not be department specific and also that Internship may not be considered as replacement for Project Work.
- Dr.S.Poonguzhali suggested that include Biomedical Instrumentation subject in Vertical 4 and combine Wearable Devices and Body area Networks as Wearable Body Area Networks.

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- Dr.K.Jayanthi and Ms.V.Subasri suggested to add FET Amplifier analysis in Analog Electronics subject, and to rename the course as Solid State Circuits or Electronic Devices and Circuits.
- Dr.K.Jayanthi and Dr. M. Anbu Selvi suggested to Specify the names for examples of Combinational and Sequential circuits in Memory Devices and Introduction to HDL Programming (Unit V) of Digital Systems Design Course. (III Semester)
- Dr.K.Jayanthi suggested to specify experiments using discrete components and experiments using Simulation tool for Electronics Circuits Design Laboratory and also to update the syllabus with Class B or Class C Amplifier.
- Dr.S.Poonguzhali suggested to conduct separate Lab for Circuit Theory alone, part of Electronics devices lab to merge with Electronics Circuits Design Laboratory.
- Dr.S.Poonguzhali suggested to remove any public domain or commercial software in list of equipments in Digital Systems Design Laboratory.
- Dr.S.Poonguzhali suggested to add Gaussian distribution in Applied Mathematics for Electronics and Communication Engineering, if possible to remove this course in IV Semester.
- Dr.K.Jayanthi suggested to rename the UNIT V Title as Pulse Analog Modulation and remove PCM in Communication Systems subject, and to update latest textbook, and to include books by Authors Tomasi and Kennedy.
- Dr.K.Jayanthi and Dr. M. Anbu Selvi suggested to Specify the Names for Fixed and Floating point Processors (TMS320C5X and TMS320C6X) in Digital Signal Processing Course.
- Dr.S.Poonguzhali suggested that Microprocessors and Interfacing can be renamed as Microprocessors, Microcontrollers and Interfacing for Theory and Laboratory, and to update the syllabus with one unit as advanced Microcontrollers and interfacing.
- Dr.K.Jayanthi and Dr.S.Poonguzhali suggested to remove PCB Design Experiments using EDA Tools in Linear IC and PCB Design Laboratory, and to include only ORCAD for simple PCB design.

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- Dr.S.Poonguzhali suggested that not to mention the names of the Software tools in DSP and other Laboratories.
- Dr.S.Poonguzhali suggested that for all courses, latest text and reference books edition may be included if available.

The Curriculum and Syllabi for I to IV Semesters for the new 2023 Regulations in Autonomous for B.E Electronics and Communication Engineering (Bio-Medical Engineering) Programme.

- The Board Chairman informed that Erstwhile B.E. Medical Electronics will be renamed as B.E. Electronics and Communication Engineering (Bio- Medical Engineering) subject to approval from AICTE & Anna University, Chennai.
- Dr. S. Poonguzhali suggested that the theory course – Biomedical Sensors and Instrumentation can be divided into two subjects as Sensors & Measurements in III Semester. Medical Instrumentation and its lab can be included in IV semester.
- Dr. K. Jayanthi and Dr. S. Poonguzhali pointed out to remove Signals and Systems Laboratory in III semester.
- For the theory course - Anatomy and Human Physiology title can be renamed as Human Anatomy and Physiology as suggested by Dr. K. Jayanthi. Dr. S. Poonguzhali suggested to include topics like special sensory organs in any of the units. In the Course Outcome 3, the word Anatomical can be removed.
- Dr. K. Jayanthi suggested to rename the theory and lab syllabus of Linear IC and Digital Electronics in IV semester. Dr. K. Jayanthi and Dr. M. Anbu Selvi suggested to restrict the number of experiments to 10 to 12 for maintaining the lab credits uniformly and ensure the mapping of CO-PO matrix.
- The subject and lab syllabus - Linear IC and Digital Electronics title may be renamed as suggested by Dr. K. Jayanthi. The experiments in this lab are vast and hence can be reduced to 10 to 12 experiments as suggested by Dr. K. Jayanthi and Dr. M. Anbu Selvi.

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- Dr. K. Jayanthi pointed out that the subject syllabus – Analog and Digital Communication is vast and can be moved to higher semesters. Ms. V. Subashri provided suggestions to rename Unit V title as Mobile Communication and its concepts may be included.
- Dr. K. Jayanthi provided suggestions to change unit order as Time, Frequency and Stability for the subject Bio Control Systems.
- Dr. S. Poonguzhali provided suggestions to remove some of the experiments which are not related to Medical Instrumentation Lab.
- Dr. S. Poonguzhali pointed out to remove the subject Physiological Modelling and this may be included as an elective course if required. Instead, the subject “Medical Imaging Techniques” shall be included in this semester.
- The subject Medical Expert Systems may be removed and included in Verticals if required as suggested by Dr. S. Poonguzhali.
- Both Dr. K. Jayanthi and Dr. S. Poonguzhali Suggested to reorder the Vertical V Communication by including Wireless Communication concepts.

The Curriculum and Syllabi for all Semesters for the new 2023 Regulations in Autonomous for M.E –Communication Systems Programme.

- Dr.K.Jayanthi suggested to include the frame & network synchronization topics in Unit-I of Modern Digital Communication Systems.
- Dr.S.Poonguzhali suggested to specify the sub topics in Unit-II &V of Advanced Wireless Communication course.
- Dr.K.Jayanthi suggested to update the subject name as Advanced Radiating Systems; Include the few measurement topics in Unit-I of Radiating Systems.
- Dr.M.Anbu Selvi suggested to remove the simulation tool names and mention only using simulation tools in Digital Communication Systems Laboratory.
- Dr.K.Jayanthi and Dr.M.Anbu Selvi suggested that RF System Design & Microwave Integrated Circuits subjects can be combined to one subject as RF & MIC. Then introduce the VLSI based subject like Low power VLSI/Advanced VLSI design.

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- Dr.K.Jayanthi and Ms.V.Subasri suggested to add 5G & beyond topics in Unit-I; In Unit-IV & V: add few more topics and update the Unit-II may be Unit-IV of Advanced Wireless Networks.
- Dr.M.Anbu Selvi and Ms.V.Subasri suggested to include the topics of FTH, FSO in Unit-II and reorder the units of Optical Communication and Networking Course.
- Dr.M.Anbu Selvi suggested to remove the simulation tool names and mention only using simulation tools in Wireless Communication Laboratory.

CO-PO Mapping

- Dr.K.Jayanthi and Dr.M.Anbu Selvi suggested that Course Outcomes (COs) should have Weightage of Blooms Taxonomy Level.
- Dr.K.Jayanthi and Dr.M.Anbu Selvi suggested to reframe the course outcomes using the keywords of Blooms Taxonomy Level.
- Dr.K.Jayanthi and Dr.M.Anbu Selvi suggested not to use the keywords design and analysis for all course outcomes.
- Dr.K.Jayanthi and Dr.M.Anbu Selvi suggested that Five Objectives and Five COs for efficient mapping of CO with PO.
- Dr.K.Jayanthi and Dr.M.Anbu Selvi recommended to add 2 or 3 Program Specific Outcomes for M.E-Communication Systems.
- Dr.K.Jayanthi suggested that all Practical courses should be mapped to PO9.

Any other points by the permission of chair person

- Dr.S.Poonguzhali suggested to reduce overall credit from 167 to 163 as per AU norms.
- Dr.S.Poonguzhali suggested to introduce atleast one theory Course with Lab component per semester, if possible.
- Dr.S.Poonguzhali suggested that curriculum should have maximum of 20 credits (Possibly 6 theory and 2 Lab courses) per semester.

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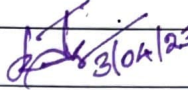


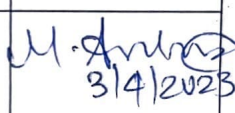
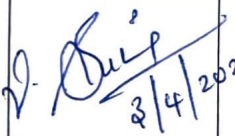
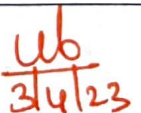

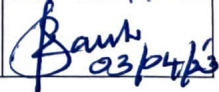


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Board of Studies in Electronics & Communication Engineering Minutes of Meeting held on 03.04.2023 (Monday)

S.No	Name	Designation	Category	Signature
1	Dr. Komala James	Professor & Head	Chairman	 3/04/23
2	Dr. K. Jayanthi	Professor / ECE Puducherry Technological University, Puducherry	Member (University Nominee)	 3/4/2023
3	Dr. S. Poonguzhali	Professor / ECE / Center for Medical Electronics/ CEG/Anna University	Member (Subject Expert)	 3/4/23
4	Dr. M. Anbu Selvi	Associate Professor / ECE / SSN College of Engineering	Member (Subject Expert)	 3/4/2023
5	Ms. V. Subasri	Sub Divisional Engineer / BSNL Telephone Exchange, Koyambedu, Chennai	Member (Industrial Expert)	 3/4/2023
6	Ms. S. Pavithra	Head – Compliance & Control Kryptos Technologies Pvt. Ltd Chennai	Member (UG Alumnus)	—
7	Dr. N. Usha Bhanu	Professor and Head / Medical Electronics	Member	 3/4/23
8	Dr. G. Udhayakumar	Professor / ECE	Member	 3/4/23
9	Dr. S. Ramesh	Professor / ECE	Member	 03/4/23

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