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Department of Electronics and Communication Engineering

Board of Studies Meeting – III

Date :29.07.2020

Time : 11:00 AM

Venue :ONLINE MODE – GOOGLE MEET PLATFORM

The third Board of Studies Meeting of Electronics & Communication Engineering Department was convened under the chairmanship of Mrs.J.Friska, Professor and Head / Electronics & Communication Engineering Department, of Francis Xavier Engineering College on 30thJuly, 2020 at 11:00 am.

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Department of Electronics and Communication Engineering

External Members present:

S. No	Members as per UGC Norms	Members Nominated	Signature
1	Head of the Department concerned (Chairman)	Mrs.J.Friska, Head & Asso. Prof, ECE department	
2	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Dr.G.Karpagarajesh Associate Professor, Department of Electronics and Communication Engineering, Government College of Engineering Tirunelveli	
3	Two experts in the subject from outside the college nominated by the Academic Council	Dr.S.Ananth Associate Professor Department of Communication Engineering School Of Electronics Engineering (Sense)VIT-Vellore	
		Dr. P. Sivakumar Professor, Department of Electronics and Communication Engineering, Kalasalingam University, Krishnankoil-626126. Virudhunagar , Tamil Nadu, India.	
4	One representative from industry/corporate sector/allied area relating to placement	Er.Francy Williams Senior Engineer, All India Radio , Palayamkottai, Tirunelveli	
5	One Post Graduate meritorious aluminous nominated by the Principal	Er.S.J. Jinolin Jacob HR manager, US Operations Inigma Technologies Pvt Ltd Trivandrum	

Internal Members Present:

S. No	Name of the Member	Designation
1	Dr.M.Caroline Viola Stella Mary	Professor/ECE
2	Dr.L.R.Priya	Professor/ECE
3	Dr. N. MuthuKumaran	Asso. Prof/ECE
4	Mrs.M.NavaneethaVelammal	Asso. Prof/ECE
5	Mr.C.AmarsinghFeroz	Asso. Prof./ECE
6	Dr.K.Lakshmi Narayanan	Asst. Prof/ECE
7	Dr.R.Kabilan	Asst. Prof/ECE
8	Dr.Andrew Roobert	Asst. Prof/ECE
9	Mrs.D.Regitimna	Asst. Prof/ECE
10	Mr.S.EsakkiRajavel	Asst. Prof/ECE
11	Mrs.M. Chitra Evangelin Christina	Asst. Prof/ECE
12	Mr. P. Kannan	Asst. Prof/ECE
13	Mr.M.SureshChinnaThampy	Asst. Prof/ECE
14	Mr.S.AllwinDevaraj	Asst. Prof/ECE
15	Mrs.E.FrancyIrudaya Rani	Asst. Prof/ECE
16	Mr.G.Jayaraman	Asst. Prof/ECE
17	Mr.R.PremAnanth	Asst. Prof/ECE
18	Mr.B.Pradheep T Rajan	Asst. Prof/ECE
19	Mrs.R.Niranjana	Asst. Prof/ECE
20	Mrs.Vishnupriya	Asst. Prof/ECE

Ex-Officio members present:

S. No	EX OFFICIO MEMBERS	
1	Dr.V.Velmurugan	Principal, Francis Xavier Engineering College, TVL
2	Dr.L.R.Priya, Asso.Prof, ECE Dept	Professor Academics, Francis Xavier Engineering College, Tirunelveli
3	Dr.G.Rajakumar, Prof, ECE Dept.	Controller of Examinations, Francis Xavier Engineering College, Tirunelveli

Minutes of Meeting

The session began with a prayer, by Mr.Amar Singh Feroz, Assoc.Prof/ECE, shortly after which the Chairman of the Board, Mrs.J.Friska, introduced and welcomed the members of the Board of Studies, which includes a University Nominee, Expert members, an industry member and an alumni of the college.

Chairman then proposed the agenda for discussion in the meeting.

Agenda:Curriculum and Syllabi of B.E. Electronics and Communication Engineering - Semester VII and VIII

The framed curriculum for all the courses were then presented to all the members, by the Chairman.

The Chairman, Mrs. J. Friska, also put forth the fact that the inputs and suggestions given by the BOS members and Academic Council Meeting in the previous meetings (BOS-I and ACM-II) have been taken into consideration and necessary alterations, additions and omissions are made in the syllabus framing of previous semesters (I, II, III, IV, V, VI)

Dr. G. Karpagarajesh

19EC7611	Advanced Communication Laboratory	Suggested to include following experiments Optical: study and characteristics of OTDR, splicing techniques, simulation using opti system Wireless: simulation part of the experiment
19EC8801	Radar communication	Simulation experiments can be included, will be useful for students and faculty members pursuing research in this area.

- Suggested to check if subject order is correct for all streams that students can pursue
- **Free space optics** is an emerging area and hence suggested to include it as a separate subject or include as 1 or 2 units
- Suggested to include **Optical MEMs Device Modelling** as that also is an emerging area.
- **Open Electives**
- Suggested to combine AI, Deep Learning and give it as single course, Data Analytics.
- Suggested **Radio mechanics, soldering, basics of TV repairing, AC basics** as it will be interesting for other departments. Mrs. Friska put forth the fact that these topics are being taught in Skill Training sessions conducted during vacations. He suggested to include the theory in Open Electives and practicals in Skill training.
- Suggested to add internship in 7th sem. Mrs. Friska suggested to include internship with mini project in 6th sem.
- Suggested to include exclusive VLSI lab in 5th or 6th sem.

Dr. S. Ananth

19EC7611	Advanced Communication Laboratory	Suggested to include simulation experiments under CST Microwave Studio . Mrs. Friska mam said proposal for obtaining CST Microwave has been applied. Also suggested Comsol Multiphysics platform if multi-disciplinary projects are required. Mrs. Friska mam proposed to include Optisan based optical simulation experiments.
19EC7703	4G & 5G Networks	5G included based on suggestion given in BOS II. Syllabus was verified as good.
19EC7710	Block chain Technologies	Course as suggested in BOS-II was included in curriculum. Syllabus was verified as good.

- Suggested to check out the communication based elective courses for similarity or repetition of topics.

Dr.P.Sivakumar

19EC7710	Block chain Technologies	Cryptocurrency in current scenario looks like a blocked topic. Suggested to include some other topics. Also he insisted to change the prerequisite related to the subject(chain code missing).
19EC8710	ASIC Design	M.J.S .Smith, "Application Specific Integrated Circuits, Addison -Wesley Longman Inc., 2004 is a very old book. Need to refer latest book and include & re-modify topics in it.

- Since Professional Ethics subject is mandatory for an engineer, it has to be studied separately. If not, it can be incorporated in Principles of Management subject as a single unit
- Books suggested for some courses under Professional core and Professional Electives category seem to be quite old. Suggested to change it to a recent version books which are below five years. Suggested to check if they cover the revised syllabus topics.
- Suggested to mention only the direct prerequisite and not include the prerequisite of the prerequisite.
- Electives can be offered to students based on streams namely, networking, communication, signal processing and VLSI. Order of subjects should be verified once.
- For open electives, syllabus can be simplified as it is going to be offered as a common course for all departments.
- It is given Digital Image Processing as an option in open elective. To study this subject, the prerequisite topic like Digital Signal Processing and Signals and Systems are to be kept as first two units. Otherwise, just offer the subject which gives basic electronics knowledge to other department students.
- Suggested to include Phase I project in 7th semester. Mrs. Friska mam added that a mini project is introduced as an Employability Enhancement Course in 6th sem.

Er. Francy Williams

- Enquired how the projects are going to be implemented in current pandemic situation. Mrs. Friska proposed that new online platforms are being investigated for the same.

Er. S.J. Jinolin Jacob

- Suggested to include employability oriented topics.

Mrs. J. Friska mam

19EC7706	Opto Electronic Devices	suggested to include Physics for electronics engineer as prerequisite
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Apart from the above small suggestions, the curriculum was verified as good by the BOS members.

The meeting came to an end.



Attendance:

