

JERUSALEM COLLEGE OF ENGINEERING
(An Autonomous Institution, Affiliated to Anna University, Chennai)

MINUTES OF BOS MEETING HELD ON 02/07/2022

02.07.2022

Minutes of the 4th meeting of Board of Studies for the Department of Electronics and Communication Engineering held on 02-07-2022 at 11.00 a.m through Google meet is furnished below.

Members present:

- Dr.P.Gnanasivam, Professor and Head, Dept. of ECE, Jerusalem College of Engineering, Chairperson.
- Dr. M. Tamilarasi, Professor, Department of ECE, Puducherry Engineering College, Puducherry
- Dr.G.Velmathi, Professor, School of Electronics Engineering, VIT Chennai Campus, Subject Expert
- Mr.Ganesh Balasubramanian, Senior Deputy Director of Engineerig, Amphenol Omniconnect India Pvt Ltd, Industry representative.
- Dr. K. Thayalan, Principal, Radiation Physics Department, Dr. Kamatchi Institute of Medical Sciences and Research, Chennai - 100 Subject Expert
- Mr. M. Sarathy Krishnan, Asst. Engineer, KMC, Chennai. Member-Alumni
- Ms. S. Bhavanisankari, Associate Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. G.T. Bharathy, Associate Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. T.Tamilselvi, Associate Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. S.Lavanya Devi, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms.K.Rajasaranya, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Ms. P.Akila, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member
- Mr.N.Kanniyappan, Assistant Professor, Dept. of ECE, Jerusalem College of Engineering, Member

The Chairman welcomed the members for attending the 4th meeting of the Board of Studies. The agenda points were discussed in detail for UG and PG separately as mentioned below:

UG R2019 Regulation Syllabi

1. Approval of syllabi for the UG courses offered in IV year (7th and 8th semesters of Batch 2019-23) of the Department of ECE under R2019, Jerusalem College of Engineering.

The Chairman presented the curriculum and syllabus of 7th and 8th semester for B.E. – Electronics and Communication Engineering programme designed for R2019 (CBCS).

- a) The curriculum and syllabi of **seventh semester** was discussed in detail. In addition, the professional elective (PE 4) and the professional elective (PE 5) associated with 7th semester and the open elective (OE 7) offered by the department of ECE for other departments were discussed. Also, the number of credits allotted for each category was mentioned by the Chairman and the same was approved by the members.
- b) The curriculum and syllabi of **eighth semester** was discussed in detail. The details of the rubrics followed to evaluate the final year projects which is planned to conduct in two phases. Phase-1 project will be evaluated in three reviews in the seventh semester and another three reviews will be evaluated in the eighth semester. Also, the number of credits allotted for each category was mentioned by the Chairman and the same was approved by the members.
- c) The Chairman informed that some of the subjects of both the semesters will be presented and ratified in the BOS meeting of other departments as mentioned below.

S. No	Course Code	Course Title	Department
1	JBM1701	Digital Image Processing	BME
2	JGE1001	Professional Ethics in Engineering	S & H
3	JBA1711	Entrepreneurship for Engineers	MBA

The curriculum and syllabi for the 7th and 8th semesters were discussed in detail and the summary of the number of credits allotted for each category was informed by the Chairman and the same was approved by the members.

Semester 7

S. No	Course Code	Course Title
1	JEC1701	Optical Communication and Optical Sensors
2	JEC1702	Embedded Systems and Product Design
3	-	Professional Elective 4
4	JGE1701	Professional Readiness for Innovation, Employability and Entrepreneurship
5	-	Open Elective 4
6	JBA1711	Entrepreneurship for Engineers
7	JEC1711	Optical and Microwave Laboratory
8	JEC1712	Embedded System Design Laboratory
9	JEC1731	Project Work - Phase – 1

Professional Electives 4

S. No	Course Code	Course Title
1	JBM1701	Digital Image Processing
2	JEC1019	Soft Computing
3	JEC1020	CMOS Analog IC Design
4	JEC1021	Software Defined Radio
5	JEC1022	RF Integrated Circuits
6	JEC1023	MEMS

Open Electives 4

S. No	Course Code	Course Title
1	JEC9010	Introduction to Satellite Communication
2	JEC9011	Sensors, Actuators and Interface Electronics
3	JEC9012	Tools for Computing and Design Platform

Semester 8

S. No	Course Code	Course Title
1	JNC1861	Indian Constitution
2	JEC1832	Project Work – Phase -2
3	JEC1811	Comprehension & Technical Seminar

BOS members suggested the following to improvise the syllabus to map with the industry and motivating the students for a start-up entrepreneur.

- In JEC1701 Optical Communication and Optical Sensors, OLED topic can be expanded as Organic LED.
- In JEC1021 Software Defined Radio Massive MIMO topic to be added in appropriate unit.
- JEC9010 Introduction to Satellite Communication, next generation satellite communication to be included.

2. Ratification and Approval of the revised panel of examiners (both the internal & external) to be forwarded to the Academic Council.

The Chairman presented the list of internal and external examiners to the members. The members recommended the list to be forwarded to the Academic Council for approval. The lists are enclosed as **annexure 1**.

3. Methodologies for innovative Teaching and Evaluation Techniques

The Chairman suggested different innovative methods for teaching and evaluation. The members also gave suggestions and ideas that could be implemented for better teaching – learning environment. A list of teaching and evaluation techniques is enclosed as **annexure 2**.

PG R2021 Regulation Curriculum and Syllabi

The Chairman welcomed the members for attending the 4th meeting of the Board of Studies. The agenda points were discussed in detail for PG as mentioned below:

1. Approval of R 2021 syllabi (3rd and 4th semester) for the PG course M.E (Applied Electronics)

- a) The chairman presented the R 2021 curriculum of all four semesters, professional electives, and open elective offered by the ECE department to other department.
- b) Third semester syllabus including the professional core, and professional elective and two labs are presented. The rubrics followed for the Phase I, final semester project work was discussed. The semester course objectives and course outcomes also discussed.
- c) Fourth semester syllabus is presented with rubrics followed for the Phase II, final semester project work. The semester course objectives and course outcomes also discussed.

The curriculum and syllabi for the 7th and 8th semesters were discussed in detail and the summary of the number of credits allotted for each category was informed by the Chairman and the same was approved by the members.

Semester 3

S. No	Course Code	Course Title
1	-	Professional Elective 4
2	-	Professional Elective 5
3	-	Open Elective 1
4	JRM5301	Research Methodology and IPR
5	JAE5361	Project Work - Phase 1
6	JAE5321	Technical Seminar

Professional Electives 4

S. No	Course Code	Course Title
1	JAE5013	Voice and data networks
2	JAE5014	Artificial Intelligence and Machine Learning
3	JAE5015	DSP Integrated Circuits
4	JAE5016	Robotics and Intelligent Systems

Professional Electives 5

S. No	Course Code	Course Title
1	JAE5017	Cognitive Networks
2	JAE5018	Computer Architecture and Parallel Processing
3	JAE5019	Digital System Testing and Testable Design
4	JAE5020	Computer Network Security

Open Electives 1

S. No	Course Code	Course Title
1	JAE9001	Wearable Technology and Applications
2	JAE9002	Industrial Safety
3	JAE9003	Introduction to VLSI Technology
4	JAE9004	Introduction to Embedded Controllers
5	JAE9005	Automotive Electronics

Semester 4

S. No	Course Code	Course Title
1	JAE5461	Project Work Phase 2

Following are the suggestions given by the BOS members

- As there are only one open elective that the students can opt from other department out of the three semesters, BOS members suggested additional open elective instead of PE5.
- The subject JAE5020 Computer and Network Security shall be renamed as Computer Network Security.

2. Ratification and Approval of the revised panel of examiners (both the internal & external) to be forwarded to the Academic Council.

The Chairman presented the list of internal and external examiners to the members. The members recommended the list to be forwarded to the Academic Council for approval. The lists are enclosed in **Annexure 3**.

3. Methodologies for innovative teaching and evaluation techniques.

The Chairman suggested different innovative methods for teaching and evaluation. The members also gave suggestions and ideas that could be implemented for better teaching – learning environment.

Additional Remarks:

The meeting ended by the Chairman thanking all the members for their presence and overall suggestions which he ensured would be incorporated and forwarded to the Academic Council.



CHAIRPERSON
(Dr. P. GNANASIVAM)



AU NOMINEE
(Dr. M. THAMILARASI)



SUBJECT EXPERT 1
(Dr. G. VELMATHI)



SUBJECT EXPERT 2
(Dr. K. THAYALAN)



ALUMNI
(Mr. M. SARATHY KANNAN)



INDUSTRY EXPERT
(Mr. GANESH BALASUBRAMANIAN)

02.07.2022

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