

JERUSALEM COLLEGE OF ENGINEERING

[An Autonomous Institution affiliated to Anna University, Chennai]

29.06.2020

Minutes of the 2nd meeting of Board of Studies for the Department of Electronics and Instrumentation Engineering held on 29.06.2020 at 11.00 A.M. through Google Meet.

Members present:

- Dr.V.Jamuna, Professor and Head, EIE Dept., Jerusalem College of Engineering, Chairperson.
- Dr.P.Lakshmi Professor, EEE Dept., Anna University, CEG campus, Guindy, Anna University Nominee.
- Dr.S.Rajendiran, Associate Professor, EIE Dept., Pondicherry Engineering College, Pondicherry, Subject Expert 1.
- Dr.K.Vijayakumar Professor and Head, EEE Dept., SRM Institute of Science and Technology, Chennai, Subject Expert 2.
- Mr. Rajaganesan.G, Director, Technical Operation, VATIO Energy India Pvt. Ltd., Industry Representative.
- Ms.D.Nivedhika Graduate Engineer, Aptiv components India Pvt. Ltd., Bangalore, Alumni.
- Ms.S.Sivajothi Kavitha, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.D.Usha, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.K.Hemalatha, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.J.Anslin, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Mr.K.Selvasundar, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.R.Indhumathi, Asst Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.S.Vinodha, Associate Professor, EIE Dept., Jerusalem College of Engineering, Member Secretary.

At the outset, the Chairman welcomed the members for the 2nd meeting of the Board of Studies through Google Meet. The Chairman highlighted the distinctiveness of the curriculum designed for the undergraduate programme offered by the Department of Electronics and Instrumentation Engineering under regulation 2019 which was approved in the first Board of Studies meeting held on 19.07.2019. She informed the members that this meeting was focused on finalization of syllabi of courses offered in the second year of respective study by considering all the suggestions given by the respected experts from University and Industry.

The agenda points were discussed in detail as mentioned below:

Item No. 1 - Approval of Syllabi for the UG courses offered in II year [3rd and 4th semesters of Batch 2019 - 23] of the Department of Electronics and Instrumentation Engineering under R2019, Jerusalem college of Engineering

The syllabi of both theory and laboratory courses that are offered in the third and fourth semesters for undergraduate students following R2019 was presented by the Chairman. Suggestions given by members were incorporated and the syllabi was finalized.

- Dr.P.Lakshmi, Anna University Nominee, suggested to combine Unit I and II in 3rd semester Transducer Engineering subject and to split Unit V into two units with recent sensors and actuators used in industries.
- Dr.M.Ramalingam, Director and the Industry Expert, Mr.G.Rajaganesan, suggested to include industry based analog and digital meters, Bi-directional meters and Introduction of Smart Meter in unit II of the 3rd semester Electrical and Electronic measurements subject.
- The Subject Expert, Dr.S.Rajendiran, suggested to include simplification using tabulation method in unit II of digital logic circuit (3rd semester subject).
- In the 4th semester Electrical Machines subject, Dr.P.Lakshmi and Mr.G.Rajaganesan suggested the title to Unit IV as Induction Motors and suggested to combine the single phase and three phase induction motors together. They also suggested to dedicate unit V to include additional special machines based on recent advancements.
- Dr.S.Rajendiran and the Industry Expert, Mr.G.Rajaganesan suggested to include few simulation experiments in Electrical Machines laboratory.
- The Alumni Member Ms.D.Nivedhika suggested to introduce the stability concepts in prior to the topic root locus in the Semester IV Control System Subject. In concordance to this, Dr.P.Lakshmi and Dr.K.Vijayakumar suggested to include stability concept and criterion in Unit II and Unit III. They also suggested to include Routh Hurwitz Criterion in Unit II and hence Unit IV can be dedicated purely for Compensators.

Item No. 2-Approval of syllabi of open electives offered by the department in the 4th semester for the Batch 2019 - 23.

The list of open electives to be offered in the fourth semester for undergraduate students of Batch 2019 - 23 was displayed by the Chairman and the syllabi of each of the courses was discussed and finalized. The Chairman informed the members that students can take up Swayam courses as open electives after due validation from the class advisor, HoD and Dean Academics.

- Dr.M.Ramalingam, Director, suggested to include more digital instruments and to add Signal and Pulse generators, Oscilloscopes and frequency counters in Unit III of Basics of Measurements and Instrumentation subject. He also suggested to include

Temperature and Pressure Sensors used in IoT applications, RFID sensors and Biometric sensors in unit V of Sensors for Engineering Applications subject.

Item No. 3- Ratification and Approval of the revised panel of Examiners (Both Internal & External) to be forwarded to Academic Council

Members approved the revised list of internal and external examiners that was presented by the Chairman.

- The Members suggested to include few more Government Engineering College faculty members in the list to add weightage to the panel.

Item No. 4 - Methodologies for innovative Teaching and Evaluation Techniques

The Chairman elaborated on various digital teaching methods such as Google Meets, Zoom, Google Classroom, WhatsApp and other platforms which were adopted by faculty members for teaching and evaluation during this crisis period. The Chairman also highlighted the enthusiastic participation of their students and faculty in taking up value added courses through JCE COURSERA CAMPUS PROGRAM which was a huge success among JCE students and faculty.

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



CHAIRPERSON
(Dr. V. JAMUNA)



SUBJECT EXPERT1
(Dr. S. RAJENDIRAN)



SUBJECT EXPERT2
(Dr. K. VIJAYAKUMAR)

Dr. V. JAMUNA
Professor & Head
Electronics and Instrumentation Engineering Dept.
Jerusalem College of Engineering
Vefachery Main Road, Narayanapuram,
Pallikaranai, Chennai-600 100.



ALUMNI
(Ms. D. NIVEDHIKA)

INDUSTRY EXPERT
(Mr. RAJAGANESAN.G)



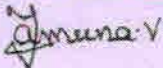






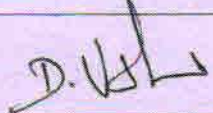





ANNA UNIVERSITY NOMINEE
(Dr. P. LAKSHMI)

Dr. P. LAKSHMI, M.E., Ph.D.,
Professor
Dept. of Electrical & Electronics Engg.
College of Engineering,
Anna University, Chennai - 600 025.

JERUSALEM COLLEGE OF ENGINEERING
(An Autonomous Institution, Affiliated to Anna University, Chennai)
DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING
SECOND BOARD OF STUDIES MEETING

29.06.2020

Members:

S.No.	Name with Designation	Organization	Position	Signature
1.	Dr.V.Jamuna, Professor and Head, EIE Dept.	Jerusalem College of Engineering	Chairperson	
2.	Dr.P.Lakshmi Professor, EEE Dept.	Anna University, CEG campus, Guindy	Anna University Nominee - Member	
3.	Dr.S.Rajendiran Associate Professor, EIE Dept.	Pondicherry Engineering College, Pondicherry.	Subject Expert - Member	
4.	Dr.K.Vijayakumar Professor and Head, EEE Dept.	SRM Institute of Science and Technology, Chennai.	Subject Expert - Member	
5.	Mr. Rajaganesan.G, Director, Technical	VATIO Energy India Pvt. Ltd.	Industry Representative - Member	
6.	Ms.D.Nivedhika Graduate Engineer	Aptiv components India Pvt. Ltd., Bangalore.	Alumni - Member	
7.	Ms.S.Sivajothi Kavitha, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	
8.	Ms.D.Usha, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	
9.	Ms.K.Hemalatha, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	
11.	Ms.J.Anslin, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	
12.	Mr.K.Selvasundar, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	
13.	Ms.R.Indhumathi, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	
14.	Ms.S.Vinodha Associate Professor, EIE Dept.	Jerusalem College of Engineering	Member Secretary	

JERUSALEM COLLEGE OF ENGINEERING

(An Autonomous Institution, Affiliated to Anna University, Chennai)

19.07.2019

Minutes of the 1st meeting of Board of Studies for the Department of Electronics and Instrumentation Engineering held on 19-07-2019 at 11.30A.M. in Board Room, Jerusalem College of Engineering.

Members present:

- Dr.V.Jamuna, Professor and Head, EIE Dept., Jerusalem College of Engineering, Chairperson.
- Dr.P.Lakshmi Professor, EEE Dept., Anna University, CEG campus, Guindy, Anna University Nominee
- Dr.S.Rajendiran Associate Professor, EIE Dept., Pondicherry Engineering College, Pondicherry, Subject Expert 1.
- Dr.K.Vijayakumar Professor and Head, EEE Dept., SRM Institute of Science and Technology, Chennai, Subject Expert 2.
- Mr. Rajaganesan.G, Director, Technical Operation, VATIO Energy India Pvt.Ltd., Industry Representative
- Ms.D.Nivedhika Graduate Engineer, Aptiv components India Pvt. Ltd., Bangalore, Alumni
- Ms.S.Sivajothi Kavitha, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.D.Usha, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.K.Hemalatha, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.J.Anslin, Asst. Professor, EIE Dept., Jerusalem College of Engineering
- Mr.K.Selvasundar, Asst. Professor, EIE Dept., Jerusalem College of Engineering.
- Ms.S.Vinodha, Associate Professor, EIE Dept., Jerusalem College of Engineering, Member Secretary.

At the outset, the Chairman welcomed the members for attending the 1st meeting of the Board of Studies. The agenda points were discussed in detail as mentioned below:

Item No. 1 - Ratification for continuation of Anna University Curriculum and Syllabi for II, III and IV year students under R2017 and R2013 respectively.

The Chairman informed the members that the present second and third year B.E. students admitted under Anna University will continue to follow regulation 2017 and the present fourth year students under Anna University will follow regulation 2013. As the college has now been granted autonomous status, the Chairman sought approval from the members to continue with the same curriculum and syllabi with the flexibility of conducting examinations (both assessment and End Semester) through the office of Controller of Examinations, Jerusalem College of Engineering. To this, the members accepted to the proposal of the Chairman.

Item No. 2 – Approval of UG curriculum for Semester I – VIII of R2019, Jerusalem
College of Engineering.

The Chairman presented the curriculum for B.E. – Electronics and Instrumentation Engineering programme designed for R2019, to be followed from the academic year 2019-20. The presentation started by defining the PEOs, POs, PSOs and their mappings. The curriculum of each semester was 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.

- The BOS Committee suggested that the Online Courses shall be opted from Second year onwards.
- The BOS members suggested to revamp the Microprocessor and Microcontroller Syllabus.
- The Anna University Nominee strongly insisted to provide separate Control System Laboratory.
- The Digital and LIC labs shall be clubbed together.
- The Electives should satisfy the prerequisites and only one Open Elective should be given per semester.
- The project work should be Industry oriented and students should be motivated to perform Industry Projects.

Suggestions given by members were incorporated and the syllabi were finalized.

Item No. 3 - Approval of Syllabi for the first year technical courses

The syllabi of the technical subjects that occur in the first and second semester of R2019 was presented by the Chairman. Suggestions given by members were incorporated and the syllabi were finalized.

The syllabi of the following technical courses that occur in the first and second semester of R2019 (CBCS) were presented by the Chairman.

- JGE1101-ENGINEERING BASICS- First semester
Unit 3- Electric circuits and Electrical Machines
- JGE1111-DESIGN APPRECIATION LABORATORY -First semester
Electrical Engineering Practice of Group B (Electrical and Electronics)
- JEE1201-CIRCUIT THEORY- Second semester
- JEE1211-ELECTRIC CIRCUIT LABORATORY- Second semester

Members of BOS suggested the following points in the syllabi of the above first year technical courses.

- In the circuit theory (JEE1201) subject, Unit 1(Basic circuit analysis and network reduction) and unit 2 (Network Theorems for DC and AC Circuits) can be combined as a single unit. Two port networks can be added as a separate unit.

- In Design Appreciation Laboratory (JGET111), experiments like usage of primary protective equipments and usage of measuring instruments could be added in Electrical Engineering Practice category in order to give training to students.

Suggestions given by members were incorporated and the syllabi were finalized.

Item No. 4 - Approval of the panel of Examiners (Both Internal & External) to be forwarded to 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 -1 and Annexure -2 respectively. It was also resolved that additional names can be included after getting the approval in the subsequent Board of Studies meetings and Academic Council.


The BOS members suggested that the faculty members from Anna University may be included.

Item No. 5- 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 : Nil

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


CHAIRPERSON
(Dr.V.JAMUNA)


SUBJECT EXPERT1
(Dr.S.RAJENDIRAN)


SUBJECT EXPERT2
(Dr.K.VIJAYAKUMAR)


ALUMNI
(Ms.D.NIVEDHIKA)


INDUSTRY EXPERT
(Mr. RAJAGANESAN.G)


ANNA UNIVERSITY NOMINEE
(Dr.P.LAKSHMI)

JERUSALEM COLLEGE OF ENGINEERING
(An Autonomous Institution, Affiliated by Anna University, Chennai)
DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING
FIRST BOARD OF STUDIES MEETING

19.07.2019

Members:

S.No.	Name with Designation	Organization	Position	Signature
1.	Dr.V.Jamuna, Professor and Head, EIE Dept.	Jerusalem College of Engineering	Chairperson	<i>Jamuna V</i> 19/7/19
2.	Dr.P.Lakshmi Professor, EEE Dept.	Anna University, CEG campus, Guindy	Anna University Nominee - Member	<i>P Lakshmi</i> 19/7/19
3.	Dr.S.Rajendiran Associate Professor, EIE Dept.	Pondicherry Engineering College, Pondicherry.	Subject Expert - Member	<i>S.Rajendiran</i>
4.	Dr.K.Vijayakumar Professor and Head, EEE Dept.	SRM Institute of Science and Technology, Chennai.	Subject Expert - Member	<i>K.Vijayakumar</i> 19/7/19
5.	Mr. Rajaganesan.G, Director, Technical Operation	VATIO Energy India Pvt Ltd.	Industry Representative - Member	<i>Rajaganesan G</i>
6.	Ms.D.Nivedhika Graduate Engineer	Aptiv components India Pvt Ltd., Bangalore.	Alumni Member	<i>nivedhika</i>
7.	Ms.S.Sivajothi Kavitha, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	<i>S.Sivajothi</i>
8.	Ms.D.Usha, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	<i>D.Usha</i> 19/7/19
9.	Ms.K.Hemalatha, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	<i>K.Hemalatha</i> 19/7/19
10.	Ms.L.Sugasini, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	- ABSENT -
11.	Ms.J.Anslin, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	<i>J.Anslin</i>
12.	Mr.K.Selvasundar, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	<i>K.Selvasundar</i>
13.	Ms.R.Indhumathi, Asst. Professor, EIE Dept.	Jerusalem College of Engineering	Member	- ABSENT -
14.	Ms.S.Vinodha Associate Professor, EIE Dept.	Jerusalem College of Engineering	Member Secretary	<i>S.Vinodha</i>