

JERUSALEM COLLEGE OF ENGINEERING
[An Autonomous Institution affiliated to Anna University]

01.07.2021

Minutes of the 3rd meeting of Board of Studies for the Department of Electrical and Electronics Engineering held on 1st July 2021 at Chennai through Google Meet.

Members present:

S.no	Name	Category
1	Dr. V. Jamuna, Prof & HOD – EEE Jerusalem College of Engineering	Chairperson
2	Dr. G. Uma Prof – EEE CEG, Anna University	Anna University nominee
3	Dr. S.Rajendiran Associate professor, EIE department, Pondicherry Engineering College, Pondicherry.	Subject expert
4	Dr. K.Vijayakumar Prof &HOD-EEE SRM Institute of Science and Technology.	Subject expert
5	Mr. Raja Ganesan G. Director, Technical operation, VATIO Energy India PVT. Ltd	Industry Representative
6	Ms.D.Nivedhika, Graduate Engineer, Aptiv Components India PVT. Ltd. Bangalore	Alumni
7	Dr. N. Booma, Professor – EEE , Jerusalem College of Engineering	Member
8	Ms. Anuja Prashant Diwan Associate Professor-EEE Jerusalem College of Engineering	Member
9	Mr. G. Tarakaram Assistant Professor-EEE Jerusalem College of	Member

S.no	Name	Category
10	Mr.N. Suresh Assistant Professor-EEE Jerusalem College of Engineering	Member
11	Ms. S. Rudhra Assistant Professor-EEE Jerusalem College of Engineering	Member
12	Ms. PL. Revathy Assistant Professor-EEE Jerusalem College of Engineering	Member
13	Mr. J. Arul Prakash Assistant Professor-EEE Jerusalem College of Engineering	Member
14	Ms. R. Sripriya Asst. Professor - EEE . Jerusalem College of Engineering	Member
15	Ms. T.S. Anandhi Asst. Professor - EEE Jerusalem College of Engineering	Member
16	Ms.N. Kanimozhi Asst. Professor-EEE Jerusalem College of Engineering	Member
17	Mr. S. Vinod Associate Professor-EEE Jerusalem College of Engineering	Member Secretary

At the outset, the Chairman welcomed the members for the 3rd 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 Electrical and Electronics Engineering under regulation 2019 which was approved in the first Board of Studies meeting held on 19/07/2019. She also presented the curriculum designed for the postgraduate programme which is going to be offered by the Department of Electrical and Electronics Engineering under regulation R2021. She informed the members that this meeting was focused on finalization of syllabi of courses offered in the third year of undergraduate

programme and curriculum and syllabi finalization of post undergraduate programme 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 III year [5th and 6th semesters of Batch 2019 - 23] of the Department of Electrical and Electronics Engineering under R2019, Jerusalem college of Engineering

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

Members of BOS suggested the following points in syllabi of fifth and sixth semester courses:

- In JEE1501 – Microprocessors and Microcontrollers : Syllabus should be reframed for 8 bit microprocessor-8085 instead of 16 bit microprocessor-8086.
- In JEE1502 – Control and Instrumentation: Instrumentation part- unit 4 and 5 should be modified since syllabus is very vast and few topics were already covered in the lower semesters. Also separate professional elective paper should be added for measurement and Instrumentation.
- In JEE1503 – Power Electronics : Topics like Unit III - Fly back converter, Unit IV-Design of single phase inverters and design of UPS should be added and topics from Unit III – Zeta converter, Unit IV- Z-Source inverters, Unit V-Three phase AC voltage controllers should be deleted.
- In JEE1601 – Control of Electrical Drives : Topics from Unit IV – Z source inverter fed induction motor drives and Unit V – Z source inverter fed synchronous motor drives should be removed. Design of controllers should be taught after DC motors.
- In JEE1611 – Power Electronics and Drives laboratory – Design of inverters and UPS experiment can be included.
- In JEE1612 – Power System Simulation laboratory – Transient stability analysis of SMIB System experiment should be removed.

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

Item No. 2 – Approval of syllabi of Professional and open electives offered by the department in the 5th and 6th semester for the Batch 2019 - 23.

The list of professional and open electives to be offered in the fifth and sixth 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.

Members of BOS suggested the following points in syllabi of fifth and sixth semester professional and open elective courses:

- In JEE1004 – Sensors and Transducers – Smart sensor topic can be included.
- In JEE1008 – SMPS and UPS – Battery charging and Battery management system topics can be included.
- Digital Signal Processing subject should be added as one of the professional elective paper.
- In JEE9004 – Industrial Electronics – AC chopper should be removed from Unit II and applications can be included.
- Instead of Fundamentals of nanoscience subject other subject which is more specific and useful for the students should be taken as open elective.
- In JEE9007 Renewable Energy Systems - Unit III should be split into two units and the contents of Unit IV and V should be reframed.

Suggestions given by members were incorporated and the syllabi was finalized. Also updated list of professional electives & Open elective subjects and revised syllabus are sent to BOS members for the approval.

Item No. 3 -Approval of curriculum of R2021 (CBCS) for PG, M.E. (PED).

The Chairman presented the curriculum for M.E.(PED) programme designed for R2021, to be followed from the academic year 2021-22. 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.

BOS members suggested the following points in curriculum of M.E.(PED) programme:

- Electric and Hybrid Vehicle can be included as a core paper.
- Power semiconductor devices can be moved into the Professional Elective category.

Suggestions given by members were incorporated and the curriculum was finalized.

Item No. 4 – Approval of Syllabi of R2021 (CBCS) for I year PG, M.E. (PED).

The syllabi of both theory and laboratory courses that are offered in the first and second semesters for postgraduate students following R2021 was presented by the Chairman.

Members of BOS suggested the following points in syllabi of first and second semester courses:

- In JPX5204 - Microcontroller Based System Design - The topics can be reframed.
- In JPX5211 - Electrical Drives Laboratory - Design of DC motor and BLDC motor experiments can be included.

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

Item No. 5 - Approval of syllabi of professional electives for the first and second semester and open electives offered by the department for other PG departments for the Batch 2021- 23.

The list and syllabi of each course of professional elective for the first and second semester and open electives offered by the department for other departments for the Batch 2021- 23 was presented by the Chairman.

Members of BOS suggested the following points in syllabi of professional and open electives of first and second semester courses:

- In JPX9001 - Sensors for Engineering Applications - Sensors for health and agricultural applications topic can be included in 5th unit.

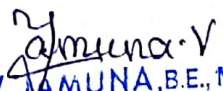
Item No. 6 - Ratification and Approval of the revised panel of Examiners (Both Internal & External) to be forwarded to Academic Council

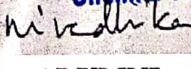
Members approved the revised list of internal and external examiners that was presented by the Chairman.

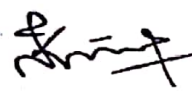
Item No. 7 - Methodologies for innovative Teaching and Evaluation Techniques

The Chairman elaborated on various digital teaching methods such as Google Meets, Zoom, Google Classroom, Cisco WebEx, 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.

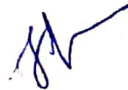

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SUBJECT EXPERT2
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