

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

Minutes of the 3rd meeting of Board of Studies for the Department of Biomedical Engineering held on 26/06/2021 at 10.30 a.m.through Google Meet.

Members present:

S. no.	Name	Category
1	Dr. Sheeja V. Francis, Prof. and HOD- BME Jerusalem College of Engineering	Chairman
2	Dr. S. Nirmala Devi, Professor, Dept. Of ECE CEG, Anna University	Anna University Nominee
3	Dr.K.Thayalan, Principal, Radiation Physics Department Dr. Kamakshi Institute of Medical Sciences & Research, Pallikaranai, Chennai-100	Subject Expert
4	Dr. G. Velmathi, Professor, SENSE-School of Electronics Engineering, VIT, Chennai	Subject Expert
5	Mr.GaneshBalasubramanian, Senior Deputy Director of Engineering, Amphenol OmniConnect India Pvt Ltd.	Industry
6	Mr. Sarathy K. Assistant Engineer, KilpaukMedical College Chennai-10.	Alumni

S.no.	Name	Category
7	Dr. J. Sivakamasundari, Associate Professor, Department of BME, Jerusalem College of Engineering.	Member
8	Dr. J. Sofia Bobby, Associate Professor, Department of BME Jerusalem College of Engineering.	Member
9	Ms. M.S. Jeyalakshmi, Assistant Professor, Department of BME, Jerusalem College of Engineering	Member
10	Ms. S. Purnima, Assistant Professor, Department of BME, Jerusalem College of Engineering.	Member
11	Ms. C.L. Annapoorani, Assistant Professor, Department of BME, Jerusalem College of Engineering.	Member
12	Ms.Nivetha.B Assistant Professor, Department of BME, Jerusalem College of Engineering.	Member

On 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 Biomedical Engineering under regulation 2019 which was approved in the first Board of Studies meeting held on **22.07.2019**. She informed that the II year syllabus which was approved in the Second Board of Studies meeting held on 27.06.2020 was offered in the academic year 2020-2021 and also

presented the outcomes achieved. She informed the members that this meeting was focused on finalization of Syllabi for the subjects to be offered in the third year of the respective study by considering all the suggestions given by the respected experts from University and Industry.

The following 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 Biomedical Engineering under R2019, Jerusalem college of Engineering

The Syllabi of both theory and laboratory courses that are to be offered in the fifth and sixth semesters for undergraduate students following R2019 was presented by the Chairman. It was suggested that more emphasis may be given to the topic - Data Acquisition- by adding concepts such as control conditions, Data Protection and Security.

Accordingly the following changes have been incorporated in the subjects, (i) JBM1015- Medical Informatics listed in PE-3 and (ii) JEI1002- Virtual Instrumentation listed in PE-1.

- More details on Data Acquisition has been incorporated in the subject, JBM1015- Medical Informatics.
- Data Protection and Security has been incorporated in Unit III of JBM1015- Medical Informatics.
- Electrodes and Sensor for ECG signal acquisition, Denoising of ECG signal, Effect of oversampling and under sampling have been included in Unit V of the subject, JEI1002 -Virtual Instrumentation.

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

The syllabi of the professional elective that are to be offered in the fifth and sixth semesters for undergraduate students following R2019 was presented by the Chairman and finalized.

The list of open electives to be offered by the BME Department for students of other departments in Semester V and VI was displayed by the Chairman and the syllabi of each of the courses was discussed and finalized.

Item No. 4- Ratification and Approval of the revised panel of Examiners (Both Internal & External) to be forwarded to Academic Council

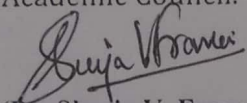
Members approved the revised list of internal and external examiners that was presented by the Chairman.

Item No. 5 - Methodologies for innovative Teaching and Evaluation Techniques

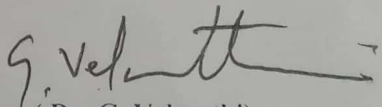
The Chairman elaborated on various digital teaching methods such as Google Meets, Zoom, Google Classroom, WhatsApp and other platforms which were adopted by faculty members for teaching and evaluation during this COVID 19 crisis period. The Chairman also highlighted the enthusiastic participation of their students and faculty in online courses and programmes.

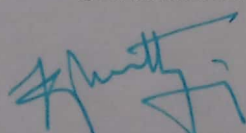
- Special Lectures, Workshops, Symposia are conducted via Biomedical Engineering Association
- Students are involved in Technical Talent quiz through two active student clubs namely Healthaware Club and Bioequip Club.
- Hospital visit was arranged to the students with Tagore Medical College and Hospital
- Department has Vibrant Alumni Interaction in the form of Training, Internships, and Webinars
- During the lock down period the students have attended various internship programmes offered by - DEEPAM Hospitals, Rudram Phronesis Infraz Private limited, RETECH Solutions Pvt. Ltd, Dr.Rela Institute and Medical Centre.
- Faculty members and students presented research papers in Conferences and Journals
- Department also submitted 6 student projects to TNSCST and 1 project to SERB for funding.

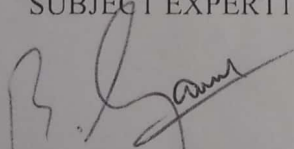
The meeting ended by the Chairman thanking all the members for their presence and valuable suggestions which she ensured would be incorporated and forwarded to the Academic Council.

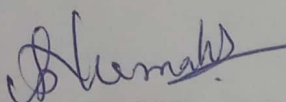

(Dr. Sheeja V. Francis)
CHAIRMAN


(Dr. K. Thayalan)
SUBJECT EXPERT1


(Dr. G. Velmathi)
SUBJECT EXPERT2


(Mr. Sarathy K)
ALUMNI


(Mr.Ganesh Balasubramanian)
INDUSTRY EXPERT


(Dr. S.Nirmala Devi)
ANNA UNIVERSITY NOMINEE