



Estd. 1995

SETHU INSTITUTE OF TECHNOLOGY, PULLOOR, KARIAPATTI – 626 115

2nd MEETING OF BOARD OF STUDIES IN
DEPARTMENT OF BIOMEDICAL ENGINEERING

HELD ON 29.06.2017

ATTENDANCE SHEET

The Second Meeting of the Board of Studies in Department of Biomedical Engineering held on 29.06.2017 at Department Seminar Hall at Sethu Institute of Technology, Pulloor, Kariappatti.

S. No.	Name	Designation	Status	Signature
1.	Dr. K. Hemalatha	HOD	Chair Person	
2.	Mrs. G. Lakshmi	Asst. Prof. (Sr. Gr.)	Member	
3.	Ms. K. Vimala Devi	Asst. Prof.	Member	
4.	Mr. N. Kins Burk Sunil	Asst. Prof. (Sr. Gr.)	Member	
5.	Mr. K. Kalanithi	Asst. Prof. (Sr. Gr.)	Member	
6.	Mr. S. Malaisamy	Asso. Prof	Member	
7.	Mr. M. Manimaran	Asst. Prof.	Member	
8.	Mr. T. Harish Babu	Asst. Prof.	Member	
9.	Ms. J. Juanola Pearl	Asst. Prof.	Member	
10.	Mr. K. Jalaldeen	Asst. Prof.	Member	
11.	Dr. S. Shenbaga Devi (Anna University Nominee)	Professor Department of Electronics & Communication Engineering College of Engineering, Anna University, Chennai.	Member	
12.	Mr. S. Harish Kumar (Industrial Member)	Service Executive Maquet Medical India Pvt. Ltd, Coimbatore	Member	
13.	Dr. B. Subathra (Alumni Member)	Professor Department of Instrumentation & Control Engineering Kalasalingam University	Member	
14.	Dr. S. Mythili (Institute Nominee)	Professor, Department of Electronics & Communication Engineering PSNA College of Engineering	Member	 29/06/17

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2nd MEETING OF BOARD OF STUDIES IN
DEPARTMENT OF BIOMEDICAL ENGINEERING
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MINUTES OF MEETING

The Second Meeting of the Board of Studies in Department of Biomedical Engineering held on 29.06.2017 at Department Seminar Hall at Sethu Institute of Technology, Pulloor, Kariappatti.

S. No.	Name	Designation	Status
1.	Dr. K. Hemalatha	HOD	Chairperson
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The Chairman welcomed the members and presented the proposed Curriculum and Syllabi to be followed from 2016-17 Batch under Autonomous Regulation 2015 for B.E. Biomedical Engineering

B.E Biomedical Engineering – 2016-17 under Autonomous Regulation 2015:

The members discussed thoroughly the Curriculum and Syllabi for B.E. Biomedical Engineering to be followed from 2016-17 batch under autonomous regulations R2015 and offered useful suggestions.

Based on the suggestions given by the members, the following resolutions are made on the Curriculum.

- The BOS resolved to move **15UBM603 Diagnostic and Therapeutic Equipments – II** theory course from VI semester to V semester
- The BOS resolved to move **15UBM502 Biomechanics** theory course from V semester to VI semester
- The BOS resolved to move **15UBM408 Diagnostic and Therapeutic Equipments Laboratory** course from IV semester to V semester
- The BOS resolved to introduce the following new courses as Professional Electives:
 - **15UBM903 – Intellectual Property Rights**
 - **15UBM909 – Medical Optics**
 - **15UBM910 – Bio Statistics**
 - **15UBM911 – Communication Engineering**
 - **15UBM913 – Medical Informatics**
- The BOS resolved to remove the following courses from Professional Electives:
 - 15UBM903 – Medical Waste Management (content included in 15UBM701 Hospital management course as one unit)
 - 15UBM909 – Soft Computing in Biomedicine (content included in 15UBM703 Neural Network and Pattern Recognition Techniques)
 - 15UBM911 – Advanced Medical Image Processing
 - 15UBM913 – Computers in Medicine (relevant course 15UBM913 Medical Informatics is included in Professional Elective)
- The BOS resolved to merge the courses 15UBM901 BioMEMS and 15UBM910 Medical Nano Electronics as single theory course 15UBM901 BioMEMS and Nano Electronics in Professional Elective.
- The BOS resolved to include Computer Networks in the Professional Elective course 15UBM914 Telemedicine and the course title modified as 15UBM914 Telemedicine and Computer Networks.
- The BOS resolved to change the course title as 15UBM404 Principles of Signals and Systems instead of Signals and Systems for BioEngineers.
- The BOS resolved to change the course title for the following courses
 - 15UBM504 Principles of Digital Signal Processing instead of Digital Signal Processing for Biomedical Engineers.
 - 15UBM508 Signal Processing Techniques Laboratory instead of Medical Signal Processing Laboratory.

- 15UBM602 Image Processing Techniques instead of Medical Image Processing.
- 15UBM607 Image Processing Techniques Laboratory instead of Digital Image Processing Laboratory.
- 15UBM703 Neural Network and Pattern Recognition Techniques instead of Pattern Recognition Techniques.
- The BOS resolved to rename the Unit III title as Fluid and Hemodynamic Derangements instead of Microbial Diseases in the course 15UBM405 Pathology and Microbiology.
- The BOS resolved to remove the topics Rotational system, Electromechanical system, Physiological system, Block diagram modeling and to include the topic Conversion of Block diagram to Signal flow graph in the First Unit of the course 15UBM503 Bio Control System.
- The BOS resolved to remove filtering methods based on DFT, use of FFT in linear filtering in Unit I from the course content of 15UBM504 Principles of Digital Signal Processing.
- The BOS resolved to specify Quantitative approach only for the Fifth Unit of the course 15UBM504 Principles of Digital Signal Processing.
- The BOS resolved to include DSP processor based experiments for Linear and Circular convolution and study of DSP processor architecture in the laboratory course 15UBM508 Signal Processing Techniques Laboratory.
- The BOS resolved to move the text book Atam P. Dhawan, "Medical Image Analysis", Wiley Interscience Publication, NJ, USA 2003 to reference Books for 15UBM602 Image Processing Techniques.
- The BOS resolved to include one experiment based on Medical Image Fusion in 15UBM607 Image Processing Techniques laboratory
- The BOS resolved to include case study of Robotic arm movement in 15UBM702 Human Assist Device.
- The BOS resolved to include the experiment using Vision tool and experiment using signal database (Physionet) in 15UBM707 Project Design Laboratory.
- The Board of Department of Biomedical Engineering approves the following Industry designed one credit course
 - 15UBM861- Introduction to MATLAB
 - 15UBM862- LabView for Medical Applications
 - 15UBM863- Medical Coding
 - 15UBM864- DICOM Introduction and Interpretation

The Chairperson thanked the members for their contribution and suggestions in framing the curriculum and syllabi R2015 for B.E. Biomedical Engineering under Autonomous regulations.

[Signature]
29/6/17

Chairman

**Board of Studies
Biomedical Engineering**

Chairperson
Board of Studies
Biomedical Engineering
Sethu Institute of Technology
Pulloor, Kariapatti 626 115