

Dr. Ambedkar Institute of Technology

Department of Medical Electronics

BOS VII June 11/06/2016

Proceedings

The BoS Chairperson Dr. Shanthi KJ welcomed the members. There was formal greetings and a review of the previous BoS and the implementations taken there off. The BoS chairperson highlighted the points from the internal BoS, involving students and subsequent meetings of the faculty.

The following were the revisions agreed upon after detailed deliberations :

- As per the students suggestions certain topics which were repeated in EMI (ML35) and BMI (ML53) were replaced in BMI with a topic on bio amplifiers .
- One of the members pointed out that Microcontroller (ML41) to deal with advanced microcontrollers rather than 8051. But most of them favoured 8051 as it introduces all the fundamental concepts. And the students can follow any advanced mc rather than making things complex.
- Integrated Circuits and Communication Lab (MLL 47) to have only LIC experiments and to delete communication lab as it is not the main subject in the ML stream and the same to be combined and given as experimental study as part of the assignment in the communication theory (ML42).
- Elective to be introduced in fifth semester 1. Embedded C along with lab exercises as assignment component and 2. Clinical Engineering/ Bio chemistry
- Control systems (ML51) to be studied before Physiological Control systems (ML53). So ML 51 will move to fourth semester as ML 42 and Communication Systems (ML42) will move to fifth semester as ML 51. This also is necessary as ML43 and ML 42 was taught in parallel, but ML43 is a prerequisite for ML42.
- Certain experiments (PH measurement) in Medical Electronics lab(MLL 57) to go as per the students suggestion and the BoS upheld the decision
- To have one application program involving all the different components both in OOPS (MLL36)and Java (MLL76) labs

The BoS chairperson thanked the members for the rigorous discussions and fruitful session to refine the syllabus. The meeting ended with the lunch arranged in the department



Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2015-16

BoS VII 2016-17 Date: 11/06/2016

Sl No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation	
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII				
A	Humanities And Social Sciences	04			04				02		10-20	10
B	Basic Sciences	19	04	04							30-40	27
C	Engineering Sciences	27	22								30-40	49
D	Professional Subjects-Core			21	17	18	11				60-80	67
E	Professional Subjects-Elective				4	04	07	08			20-30	23
F	Other Elective- Inter department						04	04			10-20	08
G	Project Work+ Seminar + Project tour					02				14	20-30	16
	Total no of subjects/components	16	09	08	08	08	09	05				
	Total No of Credits	50	26	25	25	24	24	26				200

TK. Vasanth Kumar
Signature

Shankar
 CHAIRMAN/BOB

Prithvi
 DEAN (ACADEMIC)

A.P.K.
Abhinav Kanale
 CHAIRMAN/ACADEMIC COUNCIL

Dr. Ambedkar Institute of Technology, Bangalore-560056



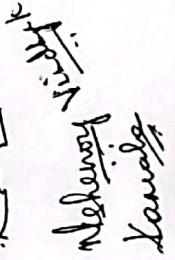
Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2014-15

BoS VII 2016-17 Date: 11/06/2016

Sl. No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation	
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII				
A	Humanities And Social Sciences	04			04			02			10-20	10
B	Basic Sciences	19	04	04							30-40	27
C	Engineering Sciences	27	22								30-40	49
D	Professional Subjects- Core			21	17	18	11				60-80	67
E	Professional Subjects- Elective				4	04	07				20-30	23
F	Other Elective- Inter department							04			10-20	08
G	Project Work+ Seminar + Project tour							02			20-30	16
	Total no of subjects/components	16	09	08	08	08	09	05				
	Total No of Credits	50	26	25	25	24	24	24	26			200

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 CHAIRMAN/BOs
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 DEAN (ACADEMIC)

 CHAIRMAN/ACADEMIC COUNCIL

Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2013-14

BoS VII 2016-17 Date: 11/06/2016

Sl No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation	
		Sem I & II	Sem III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII				
A	Humanities And Social Sciences	04			04				02		10-20	10
B	Basic Sciences	19	04	04							30-40	27
C	Engineering Sciences	27	22								30-40	49
D	Professional Subjects- Core			21	21	18	11				60-80	71
E	Professional Subjects- Elective					04	07	08			20-30	19
F	Other Elective- Inter department						04	04			10-20	08
G	Project Work+ Seminar + Project tour					02					20-30	16
	Total no of subjects/components	16	09	08	09	08	09	05				
	Total No of Credits	50	26	25	25	24	24	26				200

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CHAIRMAN/BOB

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CHAIRMAN/ACADEMIC COUNCIL

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CHAIRMAN/ACADEMIC COUNCIL

Dr. Ambedkar Institute of Technology

Department of Medical Electronics

BoS VIII

18/03/2017

Proceedings of the Meeting:

The BoS chair person welcomed the members for the meeting. There was a brief self introduction by all the members. The BoS Chair gave an introductory remark about the autonomy practice and earlier BoS.

The chair also brought-forth the outcomes from the internal meetings and the consequent meetings of internal BoS.

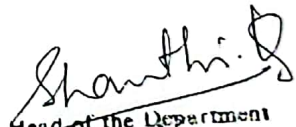
The modifications suggested are as listed below outcome of the meeting

- AEC ML 31: The suggestion was to replace the BJT analysis with the FET Analysis
- Network Analysis ML33: To include simulation tool wherever necessary and this has to be assessed for assignment
- EI ML34: To include biomedical sensors, to delete the ac bridges but for the concepts. Topics on CRO and signal generators to be refined to include Digital scopes and RF sources & interferences. And a study experiment to demonstrate the different errors. The experiment to be given as an assignment. Testing & calibration to be included and the same topic to be handled by industry persons in the calibration field. And again second assignment can be based on the industry lecture. And a suggestion to relook into the title of the subject.
- OOPS Lab MLL36: Problem statements to be defined based on applications, which may include one or many experiments. This applies in general to all the labs where the experiment titles need to be carefully modified to show the design and verification.

- Microcontroller ML41: Typical case study for medical electronics application in unit 3 making use of the interface components studied (Block Diagram level)
- Physiological control systems ML53: The simulation of physiological models using Simulink to be included. And this can be evaluated as assignment.
- Embedded C ML551: Unit V: For the case study include typical embedded application development based on Arduino boards.
- Medical Informatics ML652: Cloud concepts for the medical data storage to be included. And an expert lecture may be arranged on this.
- BMDSP ML71: Sleep EEG to be included as an industry component and invite experts from NIMHANS
- ADSP MLL75: To be renamed as BMDSP Lab (Biomedical signal processing Lab)

The outcomes from the internal BoS were also discussed and approved.

- To advance Java Lab MLL76 from VII sem. to VI sem.
- To advance seminar MLS83 from VI sem. To VII sem.


Head of the Department
Dept. of Medical Electronics
Or. Ambedkar Institute of Technology
Bangalore 560 056

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Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2016-17 Batch

BOS 8 (2017) Date: 18/03/2017

Sl No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII			
A	Humanities And Social Sciences	04			04			02		10-20	10
B	Basic Sciences	19	04	04						30-40	27
C	Engineering Sciences	27	22							30-40	49
D	Professional Subjects-Core			21	17	20	09			60-80	67
E	Professional Subjects-Elective				4	04	07	08		20-30	23
F	Other Elective- Inter department						04	04		10-20	08
G	Project Work+ Seminar + Project tour					02		02		20-30	16
	Total no of subjects/components	16	09	08	08	09	09	04			
	Total No of Credits	50	26	25	25	26	24	24			200

CHAIRMAN/BOS

DEAN (ACADEMIC)

CHAIRMAN/ACADEMIC COUNCIL

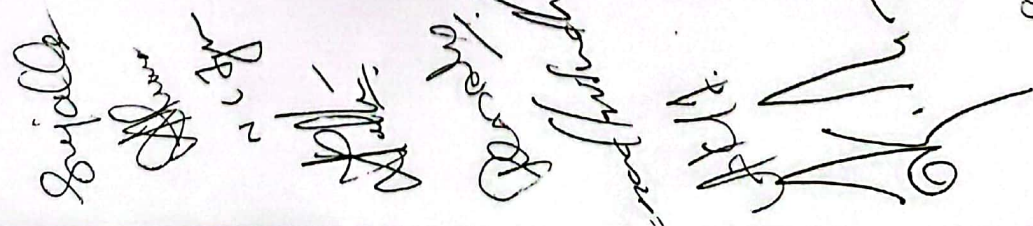
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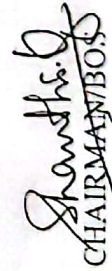
Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2015-16 Batch

BOS 8 (2017) Date: 18/03/2017

Sl. No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII			
A	Humanities And Social Sciences	04			04			02		10-20	10
B	Basic Sciences	19	04	04						30-40	27
C	Engineering Sciences	27	22							30-40	49
D	Professional Subjects- Core			21	17	20	09			60-80	67
E	Professional Subjects- Elective				4	04	07			20-30	23
F	Other Elective- Inter department						04			10-20	08
G	Project Work+ Seminar + Project tour					02	02			20-30	16
	Total no of subjects/components	16	09	08	08	09	09	04			
	Total No of Credits	50	26	25	25	26	24	24			200



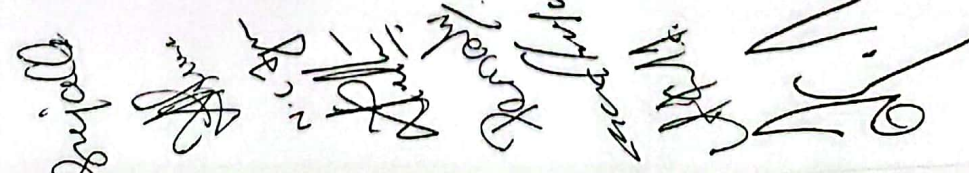

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Dr. Ambedkar Institute of Technology, Bangalore-560056
 Department of Medical Electronics Engineering
 Details of Curriculum Design Under Autonomy for UG Program 2014-15 Batch
 BOS 8 (2017) Date: 18/03/2017

Sl No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation
		Sem I & II	Sem III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII			
A	Humanities And Social Sciences	04			04			02		10-20	10
B	Basic Sciences	19	04	04						30-40	27
C	Engineering Sciences	27	22							30-40	49
D	Professional Subjects- Core			21	21	18	11			60-80	71
E	Professional Subjects- Elective					04	07	08		20-30	19
F	Other Elective- Inter department						04	04		10-20	08
	Project Work+ Seminar + Project tour					02	02	12		20-30	16
	Total no of subjects/components	16	09	08	09	08	10	04			
	Total No of Credits	50	26	25	25	24	26	24			200


 CHAIRMAN/BOS 8

DEAN (ACADEMIC)

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Dr. Ambedkar Institute of Technology, Bengaluru-56

Department of Medical Electronics

BoS-9 : 23-06-2018

Proceedings of the BoS-9 meeting

The BoS Chairperson welcomed the members for the meeting. There was a brief self-introduction by all the members. The BoS chair gave an introductory remark about the autonomy practice and earlier BoS.

The chair also brought-forth the outcomes from the meetings and the consequent meetings of the internal BoS. The BoS approved all the suggestions from the internal Bos.

The modifications suggested and outcome of the meetings are as listed below:

- The laboratory experiments need not be title specific, only objectives to be given.
- Sensors and Measurement (ML34)-The study of equipments could be practical oriented.
- Microcontrollers (ML41) - Theory sessions could also be made hands on using the simulation software this gives a better understanding of the theoretical aspects.
- Medical science (ML44) - Anatomy and Physiology laboratory may be setup displaying models of human systems. And theory could be supported by animation videos
- Embedded C (ML551) - IOT applications to be added as one unit and the introductory unit to be made as review only. Title of the subject to be modified as Embedded Systems & IOT. And industry expert from Bosch offered assistance in framing the IOT syllabus
- Lasers and Fiber Optics in Medicine (ML64) -Reframing/Re-organization of the Units in the syllabus.
- Wherever necessary the introduction if repeating it could be given as review for minimum hrs. and questions need not be asked on review portions.

The board approved the proposed scheme for the revised curriculum to be effective from 2018-19. The board also approved the list of BOE members.

The Chairperson thanked all the members for their commitment and contribution in revising the syllabus.

Shanthi. B.

Signature of the Chairman

Head of the Department
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Bengaluru 560 056.

Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2015-16 Batch

BOS 9 (2018) Date: 23/6/2018

Sl No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation	
		Sem I & II	Sem III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII				
A	Humanities And Social Sciences	04			04				02		10-20	10
B	Basic Sciences	19	04								30-40	27
C	Engineering Sciences	27	22								30-40	49
D	Professional Subjects- Core			21	21	18			11		60-80	71
E	Professional Subjects- Elective					04			07		20-30	19
F	Other Elective- Inter department								04		10-20	08
G	Project Work+ Seminar + Project tour					02			02		20-30	16
	Total no of subjects/components	16	09	08	09	09	09	09	9	04		
	Total No of Credits	50	26	25	25	26	24	24	24	24		200

Dr. B. S. ...
Dr. ...
Dr. ...
Dr. ...
Dr. ...

Dr. ...
 CHAIRMAN/BOS

DEAN (ACADEMIC)

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Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2016-17 Batch

BOS 9 (2018) Date: 23/6/2018

Sl. No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation	
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII				
A	Humanities And Social Sciences	04			04				02		10-20	10
B	Basic Sciences	19	04	04							30-40	27
C	Engineering Sciences	27	22								30-40	49
D	Professional Subjects- Core			21	17	20			09		60-80	67
E	Professional Subjects- Elective				4	04			07		20-30	23
F	Other Elective- Inter department								04		10-20	08
G	Project Work+ Seminar + Project tour					02			02		20-30	16
	Total no of subjects/components	16	09	08	08	09			09			
	Total No of Credits	50	26	25	25	26			24			200

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CHAIRMAN/BOS

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Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2017-18 Batch

BOS 9 (2018) Date: 23/6/2018

Sl No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation	
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII				
A	Humanities And Social Sciences	04			04				02		10-20	10
B	Basic Sciences	19	04	04							30-40	27
C	Engineering Sciences	27	22								30-40	49
D	Professional Subjects-Core			21	17	20	09				60-80	67
E	Professional Subjects-Elective				4	04	07	08			20-30	23
F	Other Elective- Inter department						04	04			10-20	08
G	Project Work+ Seminar + Project tour					02	02	12			20-30	16
	Total no of subjects/components	16	09	08	08	09	09	04				
	Total No of Credits	50	26	25	25	26	24	24				200

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CHAIRMAN/BOS

DEAN (ACADEMIC)

CHAIRMAN/ACADEMIC COUNCIL

Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2018-19 Batch

BOS 10 (2019) Date: 27/5/2019

Sl No	Category	Number of Credits								Percentage of total Credits as per VTU guideline (175 Credits)	Actual Credit Allocation
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII			
A	Humanities And Social Sciences	02	01	01	03	03	02	02	02	5-10	14
B	Basic Sciences	18	03	03						10-20	24
C	Engineering Sciences	20	03		03					15-20	26
D	Professional Subjects-Core		17	20	15	13	09			30-40	74
E	Professional Subjects-Elective				03	03	06			10-15	12
F	Other Elective- Inter department					03	03		03	5-10	09
G	Project Work+ Seminar + Project tour							03	02	10-15	16
	Total no of subjects/components	16	12	11	08	10	08	05			
	Total No of Credits	40	24	24	24	25	22	16			175

Shanthi D
CHAIRMAN/BOS
27/5

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Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2017-18 Batch

BOS 10 (2019) Date: 27/5/2019

Sl No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation	
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII				
A	Humanities And Social Sciences	04			04				02		10-20	10
B	Basic Sciences	19	04	04							30-40	27
C	Engineering Sciences	27	22								30-40	49
D	Professional Subjects-Core			21	17	20			09		60-80	67
E	Professional Subjects-Elective				4	04			07	08	20-30	23
F	Other Elective- Inter department								04	04	10-20	08
G	Project Work+ Seminar + Project tour					02			02	12	20-30	16
	Total no of subjects/components	16	09	08	08	09			09	04		
	Total No of Credits	50	26	25	25	26			24	24		200

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CHAIRMAN BOS
27/5

DEAN (ACADEMIC)

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Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2016-17 Batch

BOS 10 (2019) Date: 27/5/2019

Sl. No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation	
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII				
A	Humanities And Social Sciences	04			04				02		10-20	10
B	Basic Sciences	19	04	04							30-40	27
C	Engineering Sciences	27	22								30-40	49
D	Professional Subjects-Core			21	17	20			09		60-80	67
E	Professional Subjects- Elective				4	04			07		20-30	23
F	Other Elective- Inter department								04		10-20	08
G	Project Work+ Seminar + Project tour					02			02		20-30	16
	Total no of subjects/components	16	09	08	08	09	08		09			
	Total No of Credits	50	26	25	25	26	25		24			200

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CHAIRMAN/BOS
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DEAN (ACADEMIC)

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Dr. Ambedkar Institute of Technology Bangalore 56

Department of Medical Electronics

BOS- X1 Dated 14/08/2020

Proceedings of the online BoS Meeting over Google Meet platform

The BoS Chairman welcomed the members on board. The same board members had devised the 2018 scheme defining the broader structure for the 2018 scheme starting from 3rd sem. to 8th sem. The same committee had discussed in length and finalized the syllabus for the 3rd & 4th Sem. of 2018 scheme. The chair person reminded the members the same and placed before the committee the agenda for discussion.

1. Feedback on PEO's & newly framed PSO's of the department
2. Approval of the Curriculum for the 2019-20, 2018-19 and 2017-18 batches
3. Review of 3rd & 4th sem. Syllabus & 7th & 8th Sem. syllabus
4. Scrutiny & approval of 5th & 6th sem. syllabus
5. Approval of subject list for BE-Honours & Minors
6. Approval of BOE members & examiners panel

Agenda 1 is being circulated among the members and awaited for specific remarks. Overall the PEO's & PSO's were accepted.

Agenda 2 The curriculum was approved for all the three batches

Agenda 3 Review of 3rd & 4th sem. the board member Mr. Santhosh Lawrence General Manager WIPRO-GE observed that 18 ML36 OOPs the theory & lab occur in two different semesters. The Chairperson explained it is because the department has to adhere to stipulated credits per semester, and any one of the labs from 3rd sem. had to be advanced to 4th sem. and however the subject assignment programs have to be verified practically. The syllabus of 3rd & 4th sem. was approved. Syllabus for 7th & 8th Sem. ML73 Biomechanics was introduced as a core subject by adjusting credits from ML71 BMDSP, ML72 DIP & MLL76 BMDSP Lab. The internal BoS had decided to introduce Biomechanics, as this was one of the subjects in GATE 2020 where Biomedical Instrumentation was introduced for the first time. The same was approved by the committee.

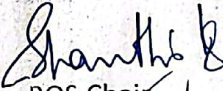
Agenda 4 Control Systems & Physiological Control Systems were combined together to form 18ML53 Physiological Control Systems for 4 credits, the syllabus was discussed and approved.

Dr. Vijayalakshmi Prof. & HOD Medical Electronics, BMSCE suggested to rename Medical Electronics lab to a more specific one such as Biomedical Instrumentation Lab 18MLL57 and the same is adapted. Similarly 18MLL59 BMDSP lab since it covers image processing and biomedical signals it was felt that the same may be reflected in the title of the lab also. Hence it was agreed to rename the lab as Biomedical Digital & Image Processing Lab. There was a detailed discussion on Medical Physics 18 ML64 and Medical Imaging Systems 18ML52 and agreed to accept the syllabus. 18ML62 LFO syllabus was reviewed and suggestions by Dr. Bhaskar Mohan Murary, Professor, School of Biosciences & Technology, VIT Vellore, is incorporated. A New lab 18MLL67 Operation & Testing of Medical Devices lab was introduced to introduce the skill in repairing & maintenance of the devices.

Agenda 5 The list of subjects for BE honours & Minors degree was approved

Agenda 6 The list of BOE members & examiners panel was approved

The Chairman thanked the BoS members for their interaction and valuable contribution.


BOS Chair

Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2019-20 Batch

BOS XI (2020) Date: 14/8/2020

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Sl No	Category	Number of Credits								Credit range as per VTU guideline (175 Credits)	Actual Credit Allocation
		Sem I & II	Sem III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII			
A	Humanities And Social Sciences	02	01	01	03	3	2	2		5-10	14
B	Basic Sciences	18	03	03						10-20	24
C	Engineering Sciences	20	09		3					10-20	32
D	Professional Subjects- Core		11	20	16	10	10			30-40	67
E	Professional Subjects- Elective				3	3	6			10-15	12
F	Other Elective- Inter department				3	3	3			5-10	9
G	Project Work+ Seminar + Project tour					2	2			10-15	17
	Total no of subjects/components	16	12	11	8	10					
	Total No of Credits	40	24	24	25	24	23	15			175

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Shanthi S
CHAIRMAN/BOS

DEAN (ACADEMIC)

CHAIRMAN/ACADEMIC COUNCIL

Dr. Ambedkar Institute of Technology, Bangalore-560056
 Department of Medical Electronics Engineering
Details of Curriculum Design Under Autonomy for UG Program 2018-19 Batch
 BOS XI (2020) Date: 14/8/2020

Curric
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Sl. No	Category	Number of Credits								Credit range as per VTU guideline (175 Credits)	Actual Cr Allocatio
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII			
A	Humanities And Social Sciences	02	01	01	03	3	2	2		5-10	14
B	Basic Sciences	18	03	03						10-20	24
C	Engineering Sciences	20	09			3				10-20	32
D	Professional Subjects- Core		11	20	16	10	10			30-40	67
E	Professional Subjects- Elective				3	3	6			10-15	12
F	Other Elective- Inter department				3	3	3			5-10	9
G	Project Work+ Seminar + Project tour					2	2	13		10-15	17
	Total no of subjects/components	16	12	11	8	10					
	Total No of Credits	40	24	24	25	24	23	15			175

A. R. M.

CHAIRMAN/BOS

CHAIRMAN/ACADEMIC COUNCIL

DEAN (ACADEMIC)

Dr. Ambedkar Institute of Technology, Bangalore-560056

Department of Medical Electronics Engineering

Details of Curriculum Design Under Autonomy for UG Program 2017-18 Batch

BOS XI (2020) Date: 14/8/2020

Sl No	Category	Number of Credits								Credit range as per VTU guideline (200 Credits)	Actual Credit Allocation
		Sem. I & II	Sem. III	Sem. IV	Sem. V	Sem. VI	Sem. VII	Sem. VIII			
A	Humanities And Social Sciences	04			04				02	10-20	10
B	Basic Sciences	19	04	04						30-40	27
C	Engineering Sciences	27	22							30-40	49
D	Professional Subjects-Core			21	17	20			10	60-80	68
E	Professional Subjects-Elective				4	04			06	20-30	22
F	Other Elective- Inter department								04	10-20	08
G	Project Work+ Seminar + Project tour					02			02	20-30	16
	Total no of subjects/components	16	09	08	08	09	10	04			
	Total No of Credits	50	26	25	25	26	24	24			200

Curricula
2017-

A.S.N.
D.M.
S.G.
M.K.
M.K.

S. S. S.
CHAIRMAN/BOS

DEAN (ACADEMIC)

CHAIRMAN/ACADEMIC COUNCIL



Proceedings of the online BoS Meeting over Google Meet platform

The BoS Chairman welcomed the members on board. The same board members had devised the 2018 scheme defining the broader structure for the entire programme of Medical Electronics (2018 scheme) starting from 3rd sem. to 8th sem. The same committee had discussed in length and finalized the syllabus for the 3rd & 4th Sem. 5th & 6th sem. of 2018 scheme. The chair person reminded the members the same and placed before the committee the agenda for discussion.

1. Approval of the Curriculum for the 2020-21, 2019-20, 2018-19 batches
2. Review of 3rd & 4th sem. 5th & 6th Sem.
3. Scrutiny & approval of 7th & 8th sem. syllabus
4. Approval of subject list for BE Honours & Minors
5. Approval of BOE members & examiners panel

Agenda 1 was approved by the committee

Agenda 2

The syllabus of 3rd & 4th semesters were framed after detailed deliberations in the earlier BoS and no revisions were proposed in most of the subjects. The revised subjects are listed below:

18ML41 Microcontroller: The internal BoS had planned to update the syllabus by including MSP430 processor. The committee also approved the same. Dr. VG Sangam enquired about the lab facility for MSP 430 and since the lab resources are available it would be a better option. And Dr. Praful P Pai suggested to introduce ARM Processor through workshops and hands on training so that it may be gradually introduced as a processor of study. This could be mentioned in the syllabus and evaluated as an assignment exercise, to validate the study.

18ML42 Communication Systems: Simulations experiments on basic communication concepts using Simulink to enrich the understanding of the subject and to be evaluated as assignment

18ML47 Microcontroller Lab: To include programming using both the processors. And Dr. Bhaskar Murary and Dr. ER Rajkumar suggested to change the sequences of exercises so that the students develop programming skills through simple application modules. The Part 1 to have software programs as existing and in Part 2 study of interfacing experiments can be made through group modular projects so that the students can realise application modules

combining interfacing and programming skills. This might help students to involve in developing applications at an early stage. Dr. N Sriraam expressed the concern that the average performers should be kept in mind while framing the contents. The syllabus is modified accordingly.

18ML551-Python Programming: New Professional elective is included as Learning Python programming skills are becoming inevitable from the industry point of view.

Agenda 3:

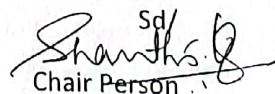
18MI71 The internal BoS had proposed **Deep Learning** where the three units were on basics of Neural Network & Pattern recognition and introduced the concepts of Deep Learning in the last two units. The committee also approved the syllabus as understanding of Neural Networks is a prerequisite for Deep Learning. And Dr. Vijayalakshmi & Dr. N Sriraam proposed to change the subject title to **Neural Network & Machine Learning**, and the committee decided on the same. The Committee also proposed case study on the application, only then the students will visualize the subjects better. Mr. Tejas Venkatesh also expressed the case study should be based on image analysis while Mr. Pai added Biomedical Signal analysis also for the case study. The suggestions are incorporated and the case study will be evaluated through assignment.

Mr. Ayyappadas M shared his view on expanding the lab facilities for Biomedical Equipments. And he also pointed out that we have to get industry experts for each equipment so that the students acquire the right understanding. The point is noted and implemented as the department is in the process of setting up a new Lab.

The Alumni representative Varsha G expressed the opinion that the students should be briefed about the open electives so that they can make an appropriate choice. This concern will be shared with the college council.

The meeting concluded with the chair person thanking individual members for their invaluable time & support in coming up with a full fledged and competitive curriculum.

Date: 23/6/2021

Sd/

Chair Person

BOS Committee