

Dr. Ambedkar Institute of Technology
Department of Electrical and Electronics Engineering

The NAAC documents enclosed are verified and approved.

Jayaramulu G
HOD
Dept of EEE
Department of Electrical and Electronics Engg.
Dr. Ambedkar Institute of Technology
Bengaluru-560056
5/11/22



Panchajanya Vidya Peetha Welfare Trust (Regd)

Dr. Ambedkar Institute of Technology

Aided by Govt. of Karnataka, An Autonomous Institution, Affiliated to Visvesvaraya Technological University, Belagavi,
Approved by All India Council for Technical Education (AICTE), New Delhi, Accredited by NBA and NAAC with 'A' Grade
BDA Outer Ring Road, Mallathahalli, Bengaluru - 560 056

Ref. No.

Date : ...05.01.2023...

2020-21

The BOS approval is taken to introduce the following new subjects in the scheme.

Sl. No.	Subject Name	Subject Code	Activities/Content with Direct Bearing on Employability/Entrepreneurship/Skill Development
1	Artificial Intelligence to Electrical Engineering	18EE643	Employability
2	Electrical Vehicle Technology	18EE644	Entrepreneurship & Employability
3	Smart Grid Technology	18EE645	Employability
4	OOPs with C++	18EE646	Employability


BOS Chairman


Principal



Department of Electrical & Electronics Engineering

Agenda 3: To frame, discuss and approve the syllabus of Basic Electrical Engineering and Basic Electrical Lab for the I/II Semester for the academic year 2020-21.

The Chairman presented the Syllabus of the Basic Electrical Engineering and Basic Electrical Lab for the I/II Semester students of all the branches of Engineering for the academic year 2020-21. Accordingly, a syllabus for the I/II Semesters was presented and placed before the Board Of Studies Members for their opinion and approval.

Resolution: The BOS members went through the Syllabus of Basic Electrical Engineering and Basic Electrical Lab is discussed in length about the various aspects of the syllabus. After incorporation of the changes as suggested by the members of BOS, the **Basic Electrical Engineering and Basic Electrical Lab syllabus** for I/II Semesters was approved for the academic year 2020-21.

Agenda 4: To frame, discuss and approve the Scheme for III and IV Semester under Choice Based Credit System and Outcome Based Education System for 4 Years Course in Electrical and Electronics Engineering for the academic year 2020-21.

The BOS Chairman presented the Scheme and Syllabus for the III and IV Semester under Choice Based Credit System and Outcome Based Education System for 4 Years Course in Electrical and Electronics Engineering for the academic year 2020-21 and placed before the Board Of Studies Members for their opinion and approval.

Resolution: The BOS members went through the draft Schemes thoroughly for the III to IV Semester and discussed in length about various aspects of the scheme and syllabus. BoS members were suggested to incorporate the syllabus for virtual lab, inclusion of open source/Licenced software tools for the theory/laboratory. They also suggested to change in the syllabus with the mapping of Programme specific outcomes and course outcomes, the BOS members were approved the **Scheme and syllabus** for the III and IV Semesters for the academic year 2020-21 under Outcome Based Education System and Choice Based Credit System.

Agenda 5: To frame, discuss and approve the Scheme and Syllabus for V to VIII Semester under Choice Based Credit System and Outcome Based Education System for 4 Years Course in Electrical and Electronics Engineering for the academic year 2020-21 and syllabus of the Institute electives offered to the other department students of the college. The List of subjects for the Honours degree course were also placed before the committee members and also the rules and regulations of the Honour's degree were placed



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before the committee members.

Chairman presented the Scheme and Syllabus for V to VIII Semester for 4 Years Course Electrical and Electronics Engineering for the academic year 2020-21 and the list of subjects for the Honours degree from V semester onwards were placed before the Board Of Studies Members for their opinion and approval.

Resolution: The BOS members went through the draft Schemes and Syllabus thoroughly for the V-VIII Semester applicable to 2018-2019 Batch and 2017-18 Batch respectively and discussed in length about various aspects of the syllabus of theory and laboratory. After incorporating the following subjects: Smart Grid Technology, and Electrical Vehicle subjects as suggested by the committee members of BOS the **Scheme and Syllabus** for V to VIII Semesters was approved for the academic year 2020-21. The committee have also approved the syllabus of the Institute/Open electives for the academic year 2020-21. The BOS members were approved the inclusion of subjects for the Honours degree courses from the V semester onwards as per the regulations laid down by the Dr AIT and VTU

Agenda 6: To prepare the panel for the Board of Examiners of the Electrical and Electronics Engineering to scrutinize the Question papers of the Semester End Examination for the AY: 2020-21

The BOS Chairman presented the list of Examiners to scrutinize the question papers for the Semester Examination for the academic year 2020-21

Resolution: The list of the Board of Examiners were approved for the AY 2020-21.

Agenda 7: To prepare the panel of Board of examiners for the evaluation and scrutinizing the Question papers in the department for the academic year 2020-21.

The Chairman of the BOS in E & EE department was presented the proposed the list panel of Examiners pertaining to UG in Electrical and Electronics Engineering department for the academic year 2020-21.

Resolution: The List of Panel of Examiners were approved based on the recommendation of internal members and the Chairman of BOS for the academic year 2020-21.

Agenda 8: To frame the list of subject equivalence for the academic year 2020-21.

The Chairman of the BOS in Electrical and Electronics Engineering presented the proposed subject equivalence pertaining to UG in Electrical and Electronics Engineering department for the academic year 2020-21.



Department of Electrical & Electronics Engineering

Resolution: The members of the BOS approved the subject equivalence for the students joined before the AY 2018-19, the BOS members were discussed in length about various aspects of the subject equivalence and approve the same.

Agenda 9: Inclusion of Virtual Lab for the academic year 2020-21.

The Chairman of the BOS in Electrical and Electronics Engineering presented the proposed subjects of Virtual Lab to UG in Electrical and Electronics Engineering for the academic year 2020-21.

Resolution: The members of the BOS approved the subjects of Virtual Lab for the academic year 2020-21 onwards after discussing in length about various aspects of the virtual lab. External BOS members expressed their opinion and appreciated the inclusion of the Virtual lab for UG courses

Agenda 10: Inclusion of Tools and Methods for ONLINE or Blended learning for the AY 2020-21

The External BOS members suggested to introduce, the Tools and Methods for ONLINE or Blended learning to UG in Electrical and Electronics Engineering for the academic year 2020-21.

Resolution: The members of the BOS approved the Tools for ONLINE/FLIPPED LEARNING ENVIRONMENT such as MICROSOFT TEAM, ZOOM, EDMODO, GOOGLE CLASS ROOM, EPILOGUE, CANVAS and CISCO WEBEX MEETING and also the members of BOS suggested to use the softwares like Sequel, Scilab, PSIM, Matlab, MiPower, PSCAD, Ansys, Open RTL for simulations for the academic year 2020-21 onwards. Also discussed in length about various aspects of the blended learning. External BOS members Expressed and apricated the inclusion of the blended learning for the UG courses

Finally, the meeting of Board of studies was concluded with the Chairman of the BOS in Electrical and Electronics Engineering thanking to all the members (Internal and External) of the BOS and Co-opted members for their active participation in the deliberations of the meeting and giving inputs for the progress of the department.

The following BOS members were presented for the BOS Meeting on Saturday, the 8th August 2020.

1. Dr.G.V.Jayaramaiah, Professor and HOD, Chairman of BOS
2. Dr..Sumathi, Professor and HOD, EEE, RNSIT, Bengaluru and VTU Nominee
3. Dr. Suryanarayanadoolla, Professor, Energy systems Engineering, IIT Bombay and Subject Expert
4. Dr. Pradeep Kumar Dixit, Professor and Head, Electrical Engineering, MSRIT, Bengaluru-19 and Subject Expert



Department of Electrical & Electronics Engineering

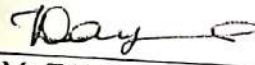
5. Dr.P.S. Puttaswamy, Professor and Head, Department of EEE, GSS, Mysore and Subject Expert
6. Professor Dilip Kumar , HOD EEE at IET Ayodhya, UP and Subject Expert
7. Mr.Srinivas.B.T.,Software Engineer, IBM India, Bengaluru and Post Graduate Student Nominee
8. Mr. Ramachandra, Green Automation Pvt. Ltd, Bengaluru and Industry Representative
9. Mr. Arun Kumar, Electrono Solution Pvt Ltd.Bengaluru and Industry Representative
10. Dr.Eranna, Associate Professor and BOS Member
11. Dr.Jyoti P Koujalagi, Professor and BOS Member
12. Mr.T.B.Dayananda, Associate Professor and BOS Member
13. Dr.H.V.Govindaraju, Associate Professor and BOS Member
14. Dr S.Vasudevamurthy, Associate Professor and BOS Member
15. Ms.Nalini. S, Assoicate Professor and BOS Member
16. Dr. Shankaralingappa.C.B., Professor and BOS Member
17. Ms Arpitha Raju, Assistant Professor and BOS Member

Members Absent:

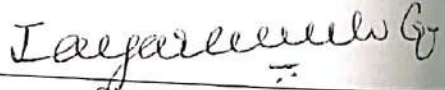
1. Mr. Guruswamy, General Manager, IE Power Technologies, Bengaluru and Industry Representative
2. Dr.Satish, Professor, IISc, Bengaluru and Subject Expert

Signature of Coordinators

1. 
Dr.Jyoti P Koujalagi

2. 
Mr.T.B.Dayananda

3. 
Harini Vaikund



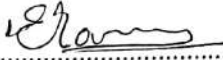
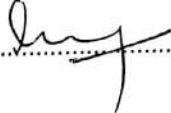



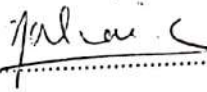
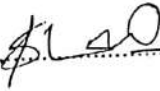
Signature of the BOS Chairman

Dr.G.V. Jayaramaiah



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Department of Electrical & Electronics Engineering

Name of the BOS Member	Signature of the BOS Member with date
1. Dr.Eranna, Associate Professor	
2. Dr.Jyoti P Koujalagi, Professor	
3. Mr.T.B.Dayananda	
4. Dr.H.V.Govindaraju, Associate Professor	
5. Dr.S.Vasudevamurthy, Associate Professor	
6. Ms.Nalini.S, Associate Professor	
7. Dr.Shankarlingappa.C.B., Professor	
8. Arpitha Raju



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Date : ...05-01-2023...

2019-20

The BOS approval is taken to introduce the following new subjects in the scheme.

Sl. No.	Subject Name	Subject Code	Activities/Content with Direct Bearing on Employability/Entrepreneurship/Skill Development
1	Fuzzy Logic	18EE731	Employability


BOS Chairman


Principal

Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE
(An Autonomous Institution Affiliated to VTU, Belgaum)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Minutes of BOS meeting

Chairman welcomed all the members of the Board of Studies in Electrical and Electronics Engineering. The meeting was convened on 01.06.2019 at 10.00 a.m in Research Laboratory.

To make the courses more relevant, the BOS shall incorporate necessary changes and to upgrade the courses/training programmes proposed by the Course Coordinators. In addition, BOS will also explore the possibilities for conducting few courses in collaborative manner with industries. BOS may offer suggestions for identifying thrust areas for conduction of workshop /seminar/technical seminars during 11th Plan period. A pre-BOS meeting were conducted and suggestions from Student Representatives where incorporated.

Agenda:

1. Finalizing the Scheme of UG for 2018 and 2019 batch.
2. Reviewing the Syllabus of existing batches.
3. Approval of Panel of examiners, Paper Setters, Practical Examination and Theory Valuation.
4. Finalizing the Scheme and Syllabus of PG (Power Electronics) for 2019 and 2020 batch.

Minutes:

- Chairperson gave introduction about the EEE Dept. and Academic Autonomy.
- The preliminary BOS meetings, along with students of UG and PG programs were put forth before the members and the relevant suggestions were included in the draft syllabus to be approved by the members, BOS.
- The members unanimously approved the following academic reforms :

RESOLUTIONS: UG

The following are the suggestions given by the BOS members,


1. Dr. Puttaswamy PS suggested to retain the courses and reduce the credits keeping the contents intact at least for the 3rd and 4th semester.
2. Mr. Guruswamy expert from industry pointed out that an engineer should be able to replicate the basics what he/she has learnt effectively.
3. Focus should be good in basics or fundamental subjects for industry requirements.
4. Members mentioned to have theories and corresponding labs if any in same semester.
5. Mr. Ramachandra suggested to add Sensors and actuators to be one of the open elective.
6. Discussion on the curriculum design and the percentage of core and elective subjects were verified.

7. Power system planning which is at present in 6th semester should be shifted to higher semesters.
8. 3rd and 4th semester syllabus were discussed in detail.
9. Topic Saturation of Transformer to be include in the subject Transformer and Induction Machine.
10. Include self-study in all the modules of the courses; evaluation of such topics is not there for SEE.
11. Dr. Sathish and Dr. Sumathi S suggested not to have more than two books as textbooks, other books can be given as reference books.
12. Mr. Arun Kumar advised us to carry out simulation study for assignments of some subjects and the results can be submitted by the students. He also advised us to add simulation experiments along with the practical lab wherever possible.
13. The criteria for equivalence/credits for a particular subject has to be decided by the mentor coordinator with BOS coordinator & chairman.
14. The chairman of the BOS can decide as and when required the equivalent subjects to be offered to the backlog/readmission/change of college students.

RESOLUTIONS: PG

1. Mr. Guruswamy expert from industry pointed out that Snubber circuit to be included in SMPC (18EPE22) but it is already covered in PSDC (18EPE12).
2. Mr. Guruswamy also suggested that thermal design to be included in SMPC (18EPE22) but it is already covered in PSDC (18EPE12).
3. Mr. Ramachandra has suggested to incorporate Communication modules in DSP and applications.
4. Mr. Arun Kumar has insisted to include Grid connected inverters in uninterruptible power supply.
5. Dr. Puttaswamy PS advised us to add advance topics in each course as self-study component.
6. Mr. Arun Kumar has advised to include Programming in DSP course.

Further the members authorized the chair person to make appropriate changes whenever required. Chairperson concluded the meeting with vote of thanks.


Chairman, BOS
Dr. Jyoti P Koujalagi
Professor and Head
Department of Electrical Electronics Engg.
Dr. AIT, Bengaluru



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(An Autonomous Institution Affiliated to VTU, Belgaum)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

LIST OF BOARD OF STUDIES-EEE MEMBERS ATTENDED

Date: 1st June 2019

Sl.No	Name	Signature
1.	Dr. Jyoti P Koujalagi, Chair Person, BOE, EEE	
2.	Dr. Suryanarayana doolla, Professor, IIT Mumbai	
3.	Dr. Satish-IISc, Professor, Bengaluru	
4.	Dr. Pradip Kumar Dixit, Professor, MSRIT, Bengaluru	
5.	Dr. Puttaswamy PS, Professor, PESCE, Mandya	
6.	Dr. Sumathi, Professor, RNSIT, Bengaluru	
7.	Mr. Ramachandra, MD, Green Automation, Bengaluru	
8.	Mr. Arun Kumar, Director, Electrono Solutions, Bengaluru	
9.	Mr. Guruswamy, GM, IE Power technology, Bengaluru	
10.	Mr. Srinivas BT, Software Engineer, IBM, Bengaluru	
11.	Samarendra Prathap Singh, Asst. Prof, IET, Ayodhya, UP	
12.	Dr. B.V. Sumangala, Professor, Dr. AIT	
13.	Dr. Shankarlingappa. C.B, Professor, Dr. AIT	
14.	Dr. Eranna, Associate Professor, Dr. AIT	
15.	Mr. Dayananda T.B, Associate Professor, Dr. AIT	
16.	Dr. Govindaraju H.V, Associate Professor, Dr. AIT	
17.	Dr. Vasudevamurthy S, Associate Professor, Dr. AIT	
18.	Ms. Nalini S, Associate Professor, Dr. AIT	
19.	Ms. Arpitha Raju, Assistant Professor, Dr. AIT	
20.	Mr. Keshava Murthy, Visiting Professor, Dr. AIT	
21.	Mr. Mukunda Swamy, Assistant Professor, Dr. AIT	
22.	Mrs. Harini Vaikund, Assistant Professor, Dr. AIT	
23.	Mr. Rajesh LV, Asst. Prof.	