

B.N.M. Institute of Technology

An Autonomous Institution under VTU, Approved by AICTE

Department of Electronics and Communication Engineering

Minutes of the Meeting

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|-----------------|---------------------------------------|
| Meeting Details | BOS Meeting |
| Date | 27-10-2021 |
| Time | 10:30 am |
| Venue | A-215 (Auditorium Block Seminar Hall) |

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|---------------------------------|--|
| Members Present | <ol style="list-style-type: none">1. Dr. P. A. Vijaya, Chairman, Professor & Head, Dept. of ECE, BNMIT, Bengaluru2. Dr. B. Sivakumar, VTU Nominee, Professor, Dept. of TCE, Dr. AIT, Bengaluru.3. Dr. T Srinivas, Subject Expert (External) Professor, Department of ECE, IISc, Bengaluru4. Dr. Vaibhav Meshram, Subject Expert (External), Chairman and Professor, ECE Department, School of Engineering, Dayananda Sagar University, Bengaluru.5. Dr. Vijaya Krishna, Subject Expert (External), Professor, Department of ECE, PES University, Bengaluru.6. Dr. Shivananda R Koteswar, Subject Industry Expert (External), Group Director, Synopsys India Pvt. Ltd., Bengaluru.7. Dr. Yasha Jyothi M Shirur, Member Secretary, Professor, Dept. of ECE, BNMIT.8. Dr. Bindu S, Subject Expert, Professor, BNMIT, Bengaluru9. Dr. Jyoti R. Munavalli, Subject Expert, Associate Professor, BNMIT, Bengaluru.10. Dr. Rekha P, Subject Expert, Associate Professor, BNMIT, Bengaluru.11. Dr. Bhuvana Suganthi D, Subject Expert, Associate Professor, BNMIT, Bengaluru.12. Dr. Chaitra N, Subject Expert, Assistant Professor, BNMIT, Bengaluru.13. Sri. N. Shesha Prasad, Subject Expert, Associate Professor, BNMIT, Bengaluru.14. Smt. Ashwini S Savanth, Subject Expert, Assistant Professor, BNMIT, Bengaluru.15. Smt. Priya R Sankpal, Subject Expert, Assistant Professor, BNMIT, Bengaluru.16. Mr. Satish D, Post Graduate Meritorious Alumnus, Senior Design Engineer, CADENCE Private Limited, Bengaluru.17. Smt. Namratha Nayak, Under Graduate Meritorious Alumnus, Research Scholar, Indian Institute of Science, Bengaluru. |
| Members Absent (Reasons) | NIL |
| Agenda | <ol style="list-style-type: none">1. Welcome Address2. Introduction3. Presentation of Scheme of Undergraduate 3rd to 8th Semester4. Any Other Suggestions to the Department5. Concluding Remarks by Member Secretary |

Proceedings of the meeting

The First Board of Studies (BoS) meeting was held on 27/10/2021 in A-215, Auditorium Building Seminar Hall, BNMIT, Bengaluru. The meeting started at 10.30 am. Dr. P.A Vijaya, HoD of ECE, BoS Chairman (UG & PG) welcomed everyone to the meeting and introduced the BoS members. The meeting was conducted in blended mode. Dr. P. A. Vijaya, Chairperson, Dr. B. Sivakumar, VTU Nominee, Smt. Namratha Nayak, Under Graduate Meritorious Alumnus and internal subject experts attended the meeting in-person whereas Subject Experts (External): Dr. T Srinivas, Dr. Vaibhav Meshram, Dr. Vijaya Krishna, Dr. Shivananda R Koteswar and Member Secretary of BoS-Dr. Yasha Jyothi M Shirur joined the meeting through online. The chairperson presented Semester Wise Credit Distribution as per BNMIT Autonomous Scheme, Distribution of ECE Courses Category wise, 3rd semester to 8th semester ECE Autonomous scheme to the committee. The scheme framed is as per the VTU Regulations and AICTE Norms.

The first-year scheme was also presented and various aspects of schemes of the Physics cycle and the Chemistry Cycle were explained. The syllabus of Basic Electrical Sciences and Electrical & Electronics laboratory was presented and the highlights of the syllabus were mentioned. The members were informed about the mini-project component in each laboratory.

The list of subjects to be offered/taught from 3rd Semester to 8th Semester was presented. The chairperson informed the members about the six specialization streams (**Communication, Signal Processing, VLSI Design, Embedded Systems, Information Technology and Management Streams**) for professional electives. The chair mentioned that a student can choose electives in a single stream to become proficient in that field. The chair mentioned about the MOOC courses which encourage and initiate the self-learning capability of the students. The inclusion of the humanity courses and skill development courses to meet the NEP requirement were also discussed. All the BoS members gave the suggestions to make the curriculum better to meet the requirement of the industry and satisfy the societal needs. The member secretary noted down the suggestions given by the committee and provided the concluding remarks. Dr. Jyoti R Munavalli concluded the meeting and thanked all the BoS members. Few photographs/snapshots of the BoS meeting have been attached herewith. The attendance sheet of the BoS meeting is also enclosed herewith for your perusal.

Recommendations/Suggestions from the BOS Members

Dr. B. Sivakumar,
Professor, Dept. of
TCE, Dr. AIT,
Bengaluru.

Recommendations/Suggestions from Dr. B. Sivakumar, VTU Nominee:

1. The merging of the core subjects will miss out the important concepts and recommended to separate out signals and systems and DSP as two different courses.
2. If core subjects are merged then 4 credits to be given to cover the important concepts of both the subjects and lab credits can be reduce to one credit only.
3. The programming subjects like python and java can be 2 credits each.
4. Instead of J component, mention A or M which indicates activity or mini project in practical learning.
5. Just mention NPTEL and MOOC course, no need to provide the list in the syllabus copy for professional electives and no need to conduct the internal evaluation for the MOOC courses.
6. Mentioned not to combine the Microwave and Antenna Design, instead combine Antenna Design with filed theory and Microwaves with Radar.
7. Suggested to include Neural Networks and Genetics algorithms, MEMS, Robotics as open elective courses.
8. Suggested to make joint BOS for Basic Electrical Sciences or separate them into 2 courses in I Year.

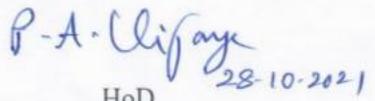
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| <p>Dr. T Srinivas, Professor, Department of ECE, IISc, Bengaluru</p> | <p>Recommendations/Suggestions from Dr. T Srinivas, Subject Expert (External)</p> <ol style="list-style-type: none"> 1. Complex analysis should not be combined with probability and statistical Methods in Maths. 2. Appreciated the concept of Mentor/Teacher registering for NPTEL/MOOC courses in Professional Elective to assist the students. The mentor role is to conduct test and should be able to clear the doubts of the students. |
| <p>Dr. Vaibhav Meshram, Subject Expert (External), Chairman and Professor, ECE</p> | <p>Recommendations/Suggestions from Dr. Vaibhav Meshram, Subject Expert (External)</p> <ol style="list-style-type: none"> 1. Technical English should have practical component. 2. Suggested that 20 marks of CEE distribution should be for assignments, attending guest lecture, workshops, industrial visit report, research papers, reflection notes etc., 3. Java programming can be conducted separately as a placement related course 4. Sensors and transducers should be moved to higher semester or can be included in the professional elective. 5. Information theory should be kept as an elective course. 6. Open electives should also be lab based. 7. Include the MOOC courses from Coursera, MIT courses, if they are good. 8. If possible, try to separate out the basic electrical and basic electronics as two different subjects |
| <p>Dr. Vijaya Krishna, Professor, Department of ECE, PES University, Bengaluru</p> | <p>Recommendations/ Suggestions from Dr. Vijaya Krishna, Subject Expert (External)</p> <ol style="list-style-type: none"> 1. For Network analysis, include MATLAB component for assignments. 2. When 2 core subjects are combined 40 hours may not be sufficient. Therefore, increase the credits to cover the important concepts of both the subjects. 3. Control systems syllabus is vast and after combining with Network Analysis, it should be 4 credits. 4. Suggested to separate out the signals and systems and DSP as two subjects. 5. If the students go for 5 days internship, managing 7th and 8th semester will become difficult. So, if possible, try to reduce the credits for 7th and 8th semester. 6. While merging the subjects and framing the syllabus, keep the gate syllabus into account. |
| <p>Dr. Shivananda R Koteshwar, Group Director, Synopsys India Pvt. Ltd., Bengaluru</p> | <p>Recommendations/Suggestions from Dr. Shivananda R Koteshwar, Subject Industry Expert</p> <p>Mentioned that Synopsys has a technical team which will support the humanities department on need basis to frame the syllabus for the soft skills, Technical English and management courses.</p> |
| <p>Mr. Satish D, Senior Design Engineer, CADENCE Private Limited, Bengaluru</p> | <p>Recommendations/Suggestions from Mr. Satish D, Post Graduate Meritorious Alumnus</p> <ol style="list-style-type: none"> 1. Suggested the digital logic design using Verilog can be separated to get the in-depth knowledge about the subject or increase the credits for this course. 2. System Verilog programming used for hardware designing can be included in professional electives which is required for the hardware design engineers and there is a huge demand in the industry as well. |

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| <p>Smt. Namratha Nayak, Research Scholar, Indian Institute of Science, Blore</p> | <p>Recommendations/Suggestions from Smt. Namratha Nayak, Under Graduate Meritorious Alumnus</p> <ol style="list-style-type: none"> 1. Suggested to avoid the same course in core and NPTEL course. 2. MEMS to be included as open elective and satellite communication, Optical Fiber Communication, IoT as Professional Elective. |
| <p>Concluding Remarks by Member Secretary, Dr. Yasha Jyothi M Shirur</p> | <p>Noted the suggestions and recommendation given by BOS Committee Members both external and internal. Mentioned that suggestions will be incorporated into ECE autonomous curriculum to make it better to meet the requirements of the Industry and Societal needs.</p> |



Member Secretary

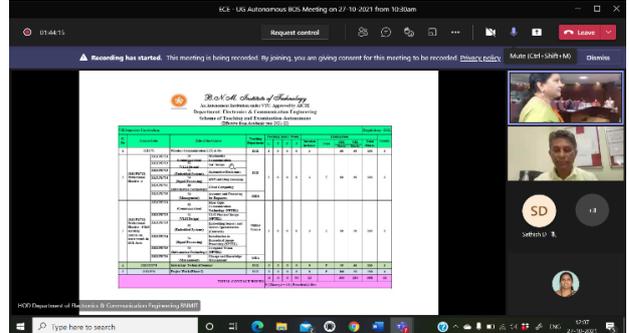
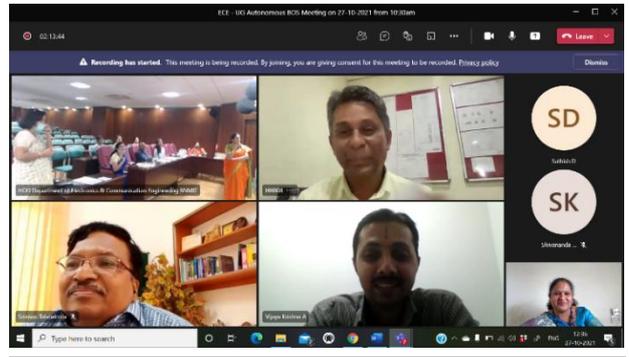
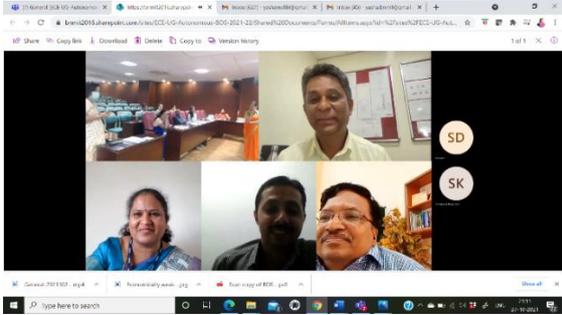
Dr. Yasha Jyothi M Shirur



HoD
Dr. P. A. Vijaya
Head of the Department
Electronics & Communication Engineering
BNM Institute of Technology
Bangalore - 560 070

Photographs / Snapshots during BoS Meeting





Yasha Jyothi

Member Secretary
Dr. Yasha Jyothi M Shirur

P. A. Vijaya
28-10-2021
HoD
Dr. P. A. Vijaya
Head of the Department
Electronics & Communication Engineering
BNMIT Institute of Technology
Bangalore - 560 070

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Department of Electronics and Communication Engineering

BOS Meeting Attendance Sheet

Meeting Details UG BOS Meeting - B.E. (ECE)
Date 27-10-2021
Time 10:30am
Venue A-215 (Auditorium Block Seminar Hall)

Members present

| Sl. No | Name | Signature |
|-------------------------------|---|---------------------|
| Chairperson | | |
| 1. | Dr. P. A. Vijaya, Professor & Head, Dept. of ECE, BNMIT, Bengaluru | P. A. Vijaya |
| VTU Nominee | | |
| 2. | Dr. B. Sivakumar Professor, Dept. of TCE, Dr. AIT, Bengaluru. | B. Sivakumar |
| External BOS Members | | |
| 3. | Dr. T Srinivas, Professor, Department of ECE, IISc, Bengaluru | Joined in online |
| 4. | Dr. Vaibhav Meshram, Chairman and Professor, ECE Department, School of Engineering, D S University, Bengaluru | Joined in online |
| 5. | Dr. Vijaya Krishna Professor, Department of ECE, PES University, Bengaluru | Joined in online |
| 6. | Dr. Shivananda R Koteshwar, Group Director, Synopsys India Pvt. Ltd., Bengaluru | Joined in online |
| Internal Members | | |
| 7. | Dr. Yasha Jyothi M Shirur, Member Secretary, Professor, Dept. of ECE, BNMIT | Joined in online |
| 8. | Dr. Bindu S, Professor, Dept. of ECE, BNMIT. | ABSENT |
| 9. | Dr. Jyoti R. Munavalli, Assoc. Professor, Dept. of ECE, BNMIT. | Jyoti R. Munavalli |
| 10. | Dr. Rekha P, Associate Professor, Dept. of ECE, BNMIT. | Rekha P. |
| 11. | Dr. Bhuvana Suganthi D, Associate Professor, BNMIT. | Bhuvana Suganthi D. |
| 12. | Dr. Chaitra N, Assistant Professor, BNMIT. | Chaitra N. |
| 13. | Sri. N Shesha Prasad, Associate Professor, BNMIT. | N. Shesha Prasad |
| 14. | Smt. Ashwini S Savanth, Assistant Professor, BNMIT. | Ashwini Savanth |
| 15. | Smt. Priya R Sankpal, Assistant Professor, BNMIT. | Priya R Sankpal |
| Post Graduate Alumnus | | |
| 16. | Mr. Satish D, Post Graduate Meritorious Alumnus, Senior Design Engineer, CADENCE Private Limited, Bengaluru | Joined in online |
| Under Graduate Alumnus | | |
| 17. | Smt. Namratha Nayak, Under Graduate Meritorious Alumnus, Research Scholar, Indian Institute of Science, Bengaluru | Namratha Nayak |

P. A. Vijaya 27-10-2021

HoD-ECE

BNMIT, Bengaluru

Head of the Department

Electronics & Communication Engineering

B.N.M. Institute of Technology

Bangalore - 560 070

Online Attendance for BoS Meeting

Meeting Summary

Total Number of Participants 11
Meeting Title General
Meeting Start Time 10/27/2021, 10:06:59 AM
Meeting End Time 10/27/2021, 12:41:56 PM
Meeting Id e7250d59-097b-407c-bbb9-0e3874a0dc24

| Full Name | Join Time | Leave Time | Duration | Email | Role | Participant ID (UPN) |
|--------------------------|-------------------------|----------------------|----------|-------------|-----------|-------------------------------|
| HOD Department of Elect | 10/27/2021, 10:06:59 AM | 10/27/2021, 10:20:18 | 13m 18s | hodece@b | Presenter | hodece@bnmit.in |
| HOD Department of Elect | 10/27/2021, 10:23:17 AM | 10/27/2021, 10:25:44 | 2m 26s | hodece@b | Presenter | hodece@bnmit.in |
| HOD Department of Elect | 10/27/2021, 10:27:30 AM | 10/27/2021, 10:28:00 | 29s | hodece@b | Presenter | hodece@bnmit.in |
| HOD Department of Elect | 10/27/2021, 10:29:46 AM | 10/27/2021, 12:41:56 | 2h 12m | hodece@b | Presenter | hodece@bnmit.in |
| Namratha Nayak | 10/27/2021, 10:10:11 AM | 10/27/2021, 10:18:18 | 8m 6s | namratha@ | Presenter | namratha@IISc.ac.in |
| Shivananda Koteswar | 10/27/2021, 10:10:12 AM | 10/27/2021, 12:41:56 | 2h 31m | shivoo@sy | Presenter | shivoo@synopsys.com |
| Vijaya Krishna A | 10/27/2021, 10:19:30 AM | 10/27/2021, 12:41:14 | 2h 21m | vka11452@ | Presenter | vka11452@pesuonline.onmicroso |
| Dr.Yasha Jyothi M.Shirur | 10/27/2021, 10:23:14 AM | 10/27/2021, 12:41:56 | 2h 18m | yashajyoth | Organizer | yashajyothimshirur@bnmit.in |
| Sathish D | 10/27/2021, 10:23:19 AM | 10/27/2021, 10:26:34 | 3m 14s | dsathish@ | Presenter | dsathish@global.cadence.com |
| Sathish D | 10/27/2021, 10:29:37 AM | 10/27/2021, 12:41:56 | 2h 12m | dsathish@ | Presenter | dsathish@global.cadence.com |
| sathish D | 10/27/2021, 10:26:24 AM | 10/27/2021, 10:29:58 | 3m 34s | | Presenter | |
| Srinivas Talabattula | 10/27/2021, 10:29:18 AM | 10/27/2021, 12:41:56 | 2h 12m | tsrinu@IISc | Presenter | tsrinu@IISc.ac.in |
| HH808 | 10/27/2021, 10:34:45 AM | 10/27/2021, 12:41:56 | 2h 7m | HH808@of | Presenter | HH808@office-365.works |
| Prof. N. Shesha Prasad | 10/27/2021, 10:42:16 AM | 10/27/2021, 10:42:35 | 18s | nsheshapr | Presenter | nsheshaprasad@bnmit.in |
| Prof. Priya R. Sankpal | 10/27/2021, 10:46:15 AM | 10/27/2021, 10:48:13 | 1m 58s | priyarsank | Presenter | priyarsankpal@bnmit.in |

P. A. Vijaya 28.10.2021

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