B.N.M. Institute of Technology

An Autonomous Institution under VTU, Approved by AICTE

Department of Electrical and Electronics Engineering

Minutes of Meeting (MoM)

Meeting Details: Board of Studies (BoS) Meeting
Date: 31/08/2023
Time: 2:00 PM -5.00PM
Venue: N401, Seminar Hall, New Building

Members Present	1. **Dr. K Venkatesha, Chair**, Professor & HoD, BNMIT 2. **Dr. S Sumathi, VTU Nominee,** Professor &HoD, Department of EEE, RNSIT, Bengaluru. 3. **Dr. Narayan Swamy, Subject Expert (External),** Professor, Department of EEE, **Reva University** 4. **Dr. K Panduranga Vittal, Subject Expert (External),** Professor, Department of EEE, NITK, Surathkal. 5. **Mr. Suraj S D, Industry Expert,** Founder & CEO, Decibel Lab Pvt Ltd 6. **Mr. Anand kumar**, **Post graduate meritorious alumnus**, Project Engineer, M/s. SUPIN Automation Pvt. Ltd. Bengaluru 7. **Dr. S Sudalai Shunmugam, Subject Expert,** Associate Professor, BNMIT 8. **Dr. Madhu S, Subject Expert,** Associate Professor, BNMIT 9. **A Kumar, Subject Expert,** Associate Professor, BNMIT 10. **Dr. Shubha Rao K, Member Secretary**, Associate Professor, BNMIT
Members Absent (Reasons)	1. **Dr. N. Vasudev Industry Expert,** Director, Manobhu Technology, Additional Director & Group Head (Retd), CPRI 2. **Dr. Keshavan**, **Subject Expert (External)** Professor & HoD, Department of EEE, Dean Academic, **PES University.**
Agenda	1. Welcome address 2. Presentation of the syllabus of 3rd and 4th semester courses 2022 scheme. 3. Presentation of the syllabus of the 5th to 6th semester courses 2021 scheme. 4. Presentation of the syllabus of the Basic Electrical and Electronics Engineering course 2023 scheme (1st Year). 5. Any other suggestions for the curriculum of the department 6. Concluding remarks by member secretary.

Proceedings of the meeting

The Third Board of Studies (BoS) meeting was held on 31/08/2023 at N401, New Building Seminar Hall. It started at 2.00 pm with Dr. Shubha Rao K, Member Secretary, BoS, welcoming everyone to the meeting and briefly introduced the members to each other. The meeting was held in blended mode. The Chairperson, Dr. S Sumathi, VTU Nominee, Dr. Narayan Swamy, Subject Expert, joined the meeting in-person whereas, Dr. Panduranga Vittal, Subject Expert, Mr. Suraj S D, Industry Expert, and Mr. Anand Kumar, post graduate meritorious alumnus joined through online. The chairperson Dr. K Venkatesha, Professor and HoD presented Vision, Mission and PEOs of the Department of EEE and subject wise distribution of credit under BNMIT Autonomous Scheme. The chairperson informed the members about the seven specialization streams **(Interface stream, Power engineering stream, General Electrical stream, AI & ML stream, Electric vehicle stream, Information Technology, Management stream)** for professional electives. The chair mentioned that a student can choose electives in a single stream to become proficient in that field.

The 5^{th} – 6^{th} syllabus of 2021 scheme, 3^{rd} to 4^{th} Semester syllabus of 2022 scheme was presented and few highlights of syllabus were mentioned. The syllabus of Basic Electrical and Electronics Engineering was presented and various aspects of schemes of the syllabus were also explained such as experiments to be conducted since it is a PCI course.

Finally, the member secretary concluded the meeting and thanked the members for a fruitful discussion during meeting.

Recommendations/Suggestions from the BOS Members

Dr. S Sumathi, **VTU Nominee,** **Professor & HoD,** **Department of EEE, RNSIT,** **Bengaluru**	**Recommendations/Suggestions from Dr. Sumathi, VTU Nominee** 1. DSP should be included as a core subject. 2. Suggested to remove Electromagnetic relays and include Numeric relay and Microprocessor based relay. 3. In the 2022 scheme of course titled "TIM" it was suggested to look into the methods to evaluate performance of IM without using circle diagram and incorporate the same. Further the Scott connection (3-	**Action taken** DSP has been added as PCI course in V semester. Number of Electromagnetic relays types has been reduced. Numeric Relays and Microprocessor based relays already been included. The other BOS member suggested to retain the circle diagram concept as there is no alternate method to replace it. The Scott connection is still used in industries. Hence it is retained.

	phase to 2-phase conversion) to be checked for its industrial applications.	
	4. In 2022 scheme of course titled "Simulation of Electrical circuits" it was suggested to remove reciprocity theorem and include Thevenin's theorem in the lab component.	The suggestions given have been incorporated.
	5. Data structures to be given as an introduction to the students with regard to Employability Skills I and II.	The suggestion will be incorporated by conducting workshop/skill development program.
	6. Suggested to change the topic name from 'Lambda Iterative technique' to 'Lagrangian multiplier method' in one of the modules of CTPS and to relook at the contents of module-5. Also suggested some topics to be moved from PSA to CTPS in Module-5.	The suggestion has been incorporated.
	7. In Lab component, interchange experiment sl. no. 4 and 5.	The suggestion has been incorporated.
	8. Expressed concern that getting the datasets for the AI techniques in Electrical systems-based projects could be difficult and that the course should be properly planned and executed. Recommended to include this course as professional elective.	AI techniques in power systems are changed to Professional elective.

Dr. K Panduranga Vittal, Subject Expert, Professor, Department of EEE, NITK, Surathkal	1. Suggested that a student/project group shall be placed under continued association with a single Guru (Specific advisor) all through 4 years. This will help to monitor his stream orientation. 2. Giving emphasis for Embedded Systems, IOTs, AI and ML are essential from Career perspective, therefore Continuous tuning, alignment and building interrelation with all above areas will lead to "Edge AI", which will be the need of the future as a follow-up with "Edge Computing".	The suggestion is already in place. The suggestion is already in place.
Dr. Narayan Swamy Subject Expert. Professor, Department of EEE, Reva University	**Recommendations/Suggestions from Dr. Narayan Swamy, Subject Expert** **1.** Suggested to reduce portions by 20%. **2.** In 2022 scheme, course titled "GTD" in module 1, first Hydro power generation and then Steam power generation to be taught	The suggestion has been incorporated.
Mr. Suraj S D, Industry Expert, Founder & CEO, Decibel Lab Pvt Ltd	**Recommendations/Suggestions from Mr. Suraj, Industry Expert.** 1. Suggested to make sure PBL course experiments and projects consists of both hardware and software implementations.	The suggestion is already in place.
Mr. Anand kumar, Post graduate meritorious alumnus Project Engineer, M/s. SUPIN Automation Pvt. Ltd., Bengaluru	**Recommendations/Suggestions from Mr. Anand Kumar, Alumni representative.** 1. Suggested to implement experiments based on PLC & Automation as it is one the major requirements in the industries.	The suggestions will be incorporated by providing skill development programs / Internship to the students

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Concluding Remarks by **Member Secretary, Dr. Shubha Rao K**	1. The Member Secretary Dr. Shubha Rao K, Expressed a deep sense of gratitude to Dr. K Venkatesha, Chairperson for successfully presenting the Schemes and Syllabus. 2. Thanked the Members of BoS for their suggestions to improve the schemes and syllabus. 3. Summarized Suggestions/recommendations given the members.