



Department of Instrumentation & Control
Minutes of the Board of Studies Meeting

Academic Year	2025-26 (Sem-I)	
Date of Meeting	29/11/2025 Online Board of Studies meeting using Google meet	
Time	10.30 am to 2.20 pm	
Venue	Video conference through https://meet.google.com/ydd-iosj-hvh (Online)	
Attendees and absentees	Members Present	
	1. Dr. B. J. Parvat	Chairman BoS
	2. Dr. S. P. Jadhav	Subject experts from outside the University
	3. Dr. G. M. Malwatkar	Subject experts from outside the University
	4. Mr. Hemant Lele	Representative from industry
	5. Mr. Dadasaheb Pawar	Member of the College alumni
	6. Mr. Pralhad Dhumal	Experts for special courses of studies
	Department faculty members	
	7. Dr. A. R. Kulkarni	10. Dr. A. K. Patil
	8. Dr. S. H. Jadhav	11. Mr. S. R. Pandit
	9. Mr. S. D. Nikam	12. Mr. S. B. Lukare
	Members Absent	
	1. Dr. C. Y. Patil	Vice-Chancellor nominated expert
	2. Mr. V. A. Ahirrao	Faculty member
Agenda of Meeting	1. Review of the Minutes and Action Taken Report of the Previous BoS Meeting. 2. Finalization of the Third-Year B.Tech. Curriculum Structure. 3. Discussion on the Course Content of the Proposed Third-Year B.Tech. Courses. 4. Finalization of S.Y. B.Tech. exit course.	

Minutes of Meeting:				
Sr. No.	Discussion	Decision	Responsibility	Target Date
1.	Confirmation of previous minutes To confirm the minutes of the second BoS meeting held on 11 January 2025.	The minutes of the previous meeting were reviewed and approved as presented.	NA	NA
2.	Action taken report (ATR) To review the status of the actions taken from the previous meeting.	The updates for each action taken on the curriculum were reviewed and approved.	NA	NA



Sr. No.	Discussion	Decision	Responsibility	Target Date
3.	<p>Curriculum structure review and approval</p> <p>To discuss and approve the proposed curriculum structure of T.Y. B.Tech. Instru. and Control Engg.</p> <p>Discussion: Dr. A. K. Patil presented the proposed T.Y. B.Tech. syllabus structure, followed by suggestions from the members. Dr. S. P. Jadhav recommended including an audit course with a dedicated timetable slot, offering Process Instrumentation as a core course instead of DSP (which can be added as an elective), and ensuring proper linkage among elective courses. Mr. Hemant Lele suggested a six-month internship with no concurrent coursework, which was supported by Mr. Dadasaheb Pawar and Dr. Malwatkar. Mr. Dhumal also recommended establishing collaborations with industries to facilitate internships.</p>	<p>The proposed T.Y. B.Tech. syllabus structure was reviewed and approved with the following modifications:</p> <ol style="list-style-type: none"> 1. An audit course will be included with a dedicated timetable slot. 2. Process Instrumentation will be offered as a core course, and DSP will be added as an elective. 3. Proper linkage among elective courses will be ensured. 4. A six-month internship will be included, during which no other courses will be scheduled. 5. The institute will establish collaborations with industries to support internship opportunities. 	BoS Chairman and Faculty Members.	05/12/ 2025
4.	<p>Course contents review and approval</p> <p>1.Industrial Automation:</p> <p>Mr. Hemant Lele suggested replacing “Alarm management” with “Alarm handling.” Mr. Dhumal recommended adding scaling and calibration to the analog PLC functions. Mr. Dadasaheb Pawar proposed including communication protocols in the syllabus. Mr. Hemant Lele also noted that if VFD interfacing is included, Profibus should be added to the syllabus.</p>	The suggestions for the Industrial Automation course were accepted. The syllabus will be updated to replace “Alarm Management” with “Alarm Handling,” include scaling and calibration in analog PLC functions, add communication protocols, and cover Profibus if VFD interfacing is included.	Dr. A.K. Patil	05/12/ 2025
	<p>2.Modern Control Theory:</p> <p>Dr. G. M. Malwatkar suggested mentioning any suitable software instead of specifying MATLAB in the experiments. Mr. Lele recommended incorporating practical examples to enhance student’s understanding. Mr. Pralhad Dhumal advised including real-time experimentation.</p>	The suggestions for the Modern Control Theory course were approved. The syllabus will allow the use of any suitable software instead of specifically MATLAB for experiments, include practical examples to enhance student understanding, and incorporate real-time experimentation.	Mr. S.B. Lukare	05/12/ 2025



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	<p>3.Embedded System Design: Dr. Jadhav and Mr. Dhumal suggested focusing on building strong fundamentals and developing student's logical abilities. Mr. Lele recommended using the 8051 microcontrollers at the undergraduate level for better conceptual understanding, with all practicals conducted using hardware and low-level programming.</p>	<p>The suggestions for the Embedded System Design course were approved. The course will focus on strengthening students' fundamentals and logical development. For undergraduate students, the 8051 microcontrollers will be used to teach conceptual understanding, and all practical will be conducted using hardware and low-level programming.</p>	<p>Mr. V.A. Ahirrao</p>	<p>05/12/ 2025</p>
	<p>4.Analytical Instrumentation: Mr. Pralhad Dhumal suggested including non-contact temperature measurement devices—such as pyrometers and thermal imagers—in the Analytical Instrumentation course content. Mr. Hemant Lele also supported the addition of pyrometers.</p>	<p>The suggestion to include non-contact temperature measurement devices—such as pyrometers and thermal imagers—in the Analytical Instrumentation course content is accepted and will be incorporated into the revised syllabus.</p>	<p>Mr. S.R. Pandit</p>	<p>05/12/ 2025</p>
	<p>5.Biomedical Instrumentation: Mr. Pralhad Dhumal suggested industry collaboration for the Biomedical Instrumentation course.</p>	<p>It was decided to review and initiate steps toward industry collaboration for the Biomedical Instrumentation course.</p>	<p>Mr. S.R. Pandit</p>	<p>05/12/ 2025</p>
	<p>6.Environmental Instrumentation It was suggested by Mr. Lele to improve the Environmental Instrumentation course by including soil-related topics in the syllabus. Additionally, Mr. Dhumal suggested utilizing Civil Engineering laboratories for practical sessions to provide students with greater hands-on exposure.</p>	<p>The committee approved the suggestions to enhance the Environmental Instrumentation course. Soil-related topics will be added to the syllabus, and Civil Engineering laboratories will be utilized for practical sessions to provide students with increased hands-on exposure.</p>	<p>Dr. A.R. Kulkarni</p>	<p>05/12/ 2025</p>



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	<p>7. Internet of Things: It was suggested by Mr. Malwatkar to revise the Internet of Things course content by reducing the syllabus and shifting case studies to practical experiments. Mr. Jadhav suggested adding some application-based experiments to enhance practical learning.</p>	The committee approved revising the Internet of Things course by reducing the syllabus, shifting case studies to practical experiments, and including application-based experiments to enhance students' hands-on learning.	Mr. V.A. Ahirrao	05/12/ 2025
	<p>8. Digital Signal Processing: Dr. Jadhav suggested including Digital Signal Processing as an elective course.</p>	The committee approved the suggestion to include Digital Signal Processing as an elective course.	BoS Chairman and Faculty Members.	05/12/ 2025
	<p>9. Building Automation: Dr. Jadhav suggested including DDC (Direct Digital Control) in the syllabus.</p>	The committee approved the inclusion of DDC (Direct Digital Control) in the Building Automation course syllabus.	Mr. S.R. Pandit	05/12/ 2025
	<p>10. Robotics and Automation: Dr. Jadhav suggested changing the course name from "Robotics and Automation" to "Robotics." Mr. Dhumal suggested setting up a Robotics lab in the department, including a 3D printer. He also recommended adding topics like pitch and gear ratios to the syllabus, and covering robotics applications in automobiles.</p>	The committee approved changing the course name to "Robotics." It was also decided to set up a Robotics lab in the department with a 3D printer, include topics such as pitch and gear ratios in the syllabus, and cover robotics applications in automobiles.	Dr. A.R. Kulkarni	05/12/ 2025
	<p>11. Safety Instrumented Systems: Mr. Dhumal suggested arranging expert sessions for this subject with experts from FOX Solutions, Nashik. Mr. Lele recommended including this subject in the curriculum and mentioned that Emerson, Nashik, would support by providing experts for the sessions.</p>	The committee approved including Safety Instrumented Systems in the curriculum and arranging expert sessions for the subject, with support from Emerson, Nashik, and experts from FOX Solutions, Nashik.	Dr. B.J. Parvat	05/12/ 2025
	<p>12. Safety Instrumented Systems: Mr. Dhumal suggested conducting practical sessions using industry-oriented software, such as PLC and DCS, to provide students with hands-on experience.</p>	The committee approved conducting practical sessions for the Process Modeling and Optimization course using industry-oriented software such as PLC and DCS to enhance students' hands-on learning.	Dr. S. H. Jadhav	05/12/ 2025



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	13.Instruments and System Design: Dr. Jadhav and Mr. Dhupal suggested that the practicals should focus on real-world skills used in instrumentation engineering and industrial automation.	The committee approved the suggestion to design the practicals for the Instruments and System Design course to focus on real-world skills relevant to instrumentation engineering and industrial automation.	Dr. A.R. Kulkarni	05/12/ 2025
	14.Instrumentation Documentation Mr. Lele suggested including loop identification as part of the practical experiments in the course.	The committee approved including loop identification in the practical experiments for the Instrumentation Documentation course.	Dr. B.J. Parvat	05/12/ 2025
5.	Closing remarks and next meeting The BOS meeting concluded with the finalization of the T.Y. B.Tech. structure and the S.Y. B.Tech. exit course, the approval of the required revisions to the course content, and a vote of thanks to the Chair.			

Dr. A. K. Patil
Academic Coordinator

Chairman
BoS, Instru. & Control Engineering
MVP'S KBT College of Engineering
Nashik-13.

Dr. B. J. Parvat