



**Program: Electronics & Instrumentation Engineering**

**BoS Meeting**

*(BoS Meeting Scheduled on 7<sup>th</sup> June 2024)*

**Date and Time** 07.06.2024, 3.00 PM onwards.

**of BoS**

Held online at: <https://meet.google.com/rbn-sdmt-khz>

**Board of Studies members**

- A. Dr. Ashutosh Datar, Head (Dept. of Electronics Engg.) & Chairman
- B. The entire faculty of each specialization:
  1. Dr. Alok Jain, Professor
  2. Dr. Jyotsna V. Ogale, Professor
  3. Dr. Shilpa Datar, Asst. Professor
  4. Mr. K.G. Kirar, Asst. Professor
- C. Two subject Experts from outside the university
  1. Dr. Aditya Trivedi, Professor, IITM, Gwalior
  2. Dr. Vandana Vikash Thakre, Associate Professor, Department of Electronics, MITS Gwalior
- D. One representative from Industry/Corporate sector, allied/area
  1. Mr. Prakash Verma, Key Account Manager (Industrial Automation), Robert Bosch Bangalore
- E. Postgraduate Meritorious Alumnus  
Dr. Meena Panchore, Assistant Professor, NIT Patna
- F. One expert nominated by Vice Chancellor, RGPV.  
Dr. Sanjay Sharma, Asst. Professor, RGPV, Bhopal

At the onset of the meeting Head (Dept. of Electronics Engg.) & Chairman, Dr. Ashutosh Datar extended welcome to all the members of the Board of Studies. He briefed them about the agenda of the meeting. He also informed the members that the course of B. Tech in Electronics and Instrumentation Engineering which was discontinued in the 2023-24 session, has been restarted from the session 2024-25. Hence the scheme/syllabus for the B. Tech first year students to be admitted in the session 2024-25 is to be designed. Then he invited Prof. K.G. Kirar for making the presentation regarding Board of Studies.

Following in items as listed the agenda were presented and discussed and final resolutions were passed.



# SAMRAT ASHOK TECHNOLOGICAL INSTITUTE, VIDISHA

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

## Department of Electronics Engineering

Courses focusing on employability/entrepreneurship/ skill development*					
(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.	Link of relevant documents/minutes
Intellectual and Cognitive Abilities	HEC	Course objectives to orient the think skills include the ability to intellectually simpler with the ability to solve a problem	14	3	<a href="https://satiengg.in/images/Electronics%20Department/BoS%202020.12.2023/Final%20Hollistic%20Course%20Syllabus%204%20sem.pdf">https://satiengg.in/images/Electronics%20Department/BoS%202020.12.2023/Final%20Hollistic%20Course%20Syllabus%204%20sem.pdf</a>
Simulation Lab-II (LabVIEW)	DLC-2	Test and measurement, control systems, and embedded systems development.	9	12	<a href="https://www.satiengg.in/syllabus-ete">https://www.satiengg.in/syllabus-ete</a>
Medical Instrumentation	EI1862	Concepts of instruments like ECG, EEG, EMG, Pulse Oximeter, Medical imaging systems like CT-Scan, MRI, Ultrasound etc.	9	3	<a href="https://drive.google.com/drive/folders/1WBLwaq96keMfrclQh6IFvCeNsFjO8uAn?usp=drive_link">https://drive.google.com/drive/folders/1WBLwaq96keMfrclQh6IFvCeNsFjO8uAn?usp=drive_link</a>

New Courses added*					
(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.	Link of relevant documents/minutes
Probability and Statistics Approaches	HEC (Optional)	To be able to apply the concepts of probability methods in the areas of mechanical, electrical and electronics.	14	1	<a href="https://satiengg.in/images/Electronics%20Department/BoS%202020.12.2023/Final%20Hollistic%20Course%20Syllabus%204%20sem.pdf">https://satiengg.in/images/Electronics%20Department/BoS%202020.12.2023/Final%20Hollistic%20Course%20Syllabus%204%20sem.pdf</a>
Intellectual and Cognitive Abilities	HEC (Optional)	Cognitive objectives oriented to think skills include the ability to intellectually simpler with the ability to solve a problem.	14	3	<a href="https://satiengg.in/images/Electronics%20Department/BoS%202020.12.2023/Final%20Hollistic%20Course%20Syllabus%204%20sem.pdf">https://satiengg.in/images/Electronics%20Department/BoS%202020.12.2023/Final%20Hollistic%20Course%20Syllabus%204%20sem.pdf</a>



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## Department of Electronics Engineering

### Feedback on curriculum received from stakeholders: Analysis & ATR\*

Stakeholder	Student	Faculty	Alumni	Employer
No. of responses	45	5	2	0
Link of Analysis	<a href="https://docs.google.com/forms/d/e/1FAIpQLScLVK74drAN5BB6b4skEGUjXnQpcbg6SsMXEmFFFISmmSWoXA/viewform?usp=sharing">https://docs.google.com/forms/d/e/1FAIpQLScLVK74drAN5BB6b4skEGUjXnQpcbg6SsMXEmFFFISmmSWoXA/viewform?usp=sharing</a>	<a href="https://docs.google.com/forms/d/1Bp56keq4eCuSO7fCzKVUQd_AcRL25D-RGGCYsvChPr8/edit?ts=6673d40a">https://docs.google.com/forms/d/1Bp56keq4eCuSO7fCzKVUQd_AcRL25D-RGGCYsvChPr8/edit?ts=6673d40a</a>	<a href="https://docs.google.com/forms/d/e/1FAIpQLSeJ-VUKTxL_PsZYolXlzficaFDOMBqzBdgoZZIE4QGMgsM8Q/viewform?usp=sf_link">https://docs.google.com/forms/d/e/1FAIpQLSeJ-VUKTxL_PsZYolXlzficaFDOMBqzBdgoZZIE4QGMgsM8Q/viewform?usp=sf_link</a>	NA
Link showing Excel sheet of Google Form details of stakeholders	<a href="https://docs.google.com/spreadsheets/d/1YWBp1k9AZyo6ZK63Yem_SW2QA_40pQmcswxc5M0Yrk/edit?resourcekey#gid=511120513">https://docs.google.com/spreadsheets/d/1YWBp1k9AZyo6ZK63Yem_SW2QA_40pQmcswxc5M0Yrk/edit?resourcekey#gid=511120513</a>	<a href="https://docs.google.com/spreadsheets/d/1FJgJ-L88at68fE9pRJAj1Nu031hOa_uVBzw15Sjt9s/edit?resourcekey#gid=1741428104">https://docs.google.com/spreadsheets/d/1FJgJ-L88at68fE9pRJAj1Nu031hOa_uVBzw15Sjt9s/edit?resourcekey#gid=1741428104</a>	<a href="https://docs.google.com/spreadsheets/d/15HLxdALPsUuD_XG7A8yP-skVrVCdiE5S6nuVi0UBSGvs/edit?resourcekey#gid=298692857">https://docs.google.com/spreadsheets/d/15HLxdALPsUuD_XG7A8yP-skVrVCdiE5S6nuVi0UBSGvs/edit?resourcekey#gid=298692857</a>	NA



BoS Agenda Items	
<b>Item 1</b>	To confirm the minutes of previous BoS meeting held in the month of December 2023
<b>Resolution</b>	As per the agenda point no. 1, the minutes of the last Board of Studies meeting held on 20 <sup>th</sup> December 2023 have been confirmed and approved.
<b>Item 2</b>	To review, prepare, finalize and recommend the <i>Scheme &amp; Syllabi (along with the Course Outcomes) of V<sup>th</sup> and VI<sup>th</sup> semester B. Tech. Programme in Electronics and Instrumentation Engineering (for the batch admitted in 2022-23 Session)</i>
<b>Resolution</b>	Not applicable since there are no students in the batch admitted in 2022-23.
<b>Item 3</b>	To discuss the <i>Scheme of VII<sup>th</sup> and VIII<sup>th</sup> semester B. Tech. Programme in Electronics and Instrumentation Engineering (for the batch admitted in 2022-23 Session)</i>
<b>Resolution</b>	Not applicable since there are no students in the batch admitted in 2022-23.
<b>Item 4</b>	To discuss the <i>Scheme of V<sup>th</sup> and VI<sup>th</sup> semester</i> as per revised scheme format with the provision of <i>one Open Elective (OE) Course of 3 credit in V<sup>th</sup> &amp; VI<sup>th</sup> semester each .Total of 6 credits for V &amp; VI semesters for student admitted in 2022-23 session.</i>
<b>Resolution</b>	Not applicable since there are no students in the batch admitted in 2022-23.
<b>Item 5</b>	To review, prepare, finalize and recommend the list of experiments/ Lab manual and skill based mini projects for various laboratory courses to be offered in <i>V<sup>th</sup> and VI<sup>th</sup> semester B. Tech. Programme in Electronics and Instrumentation Engineering (for the batch admitted in 2022-23).</i>
<b>Resolution</b>	Not applicable since there are no students in the batch admitted in 2022-23.
<b>Item 6</b>	To discuss and finalize the open course offered by department for <b>other branch</b> students in <b>B.Tech. V<sup>th</sup> and VI<sup>th</sup> semester. (for the batch admitted in 2022-23 Session)</b>
<b>Resolution</b>	Scheme and Syllabus of the Open Courses to be offered for other branches have been discussed and finalized.
<b>Item 7</b>	To review, recommend and finalize the changes made in <i>Scheme &amp; Syllabi (along with the Course Outcomes) of I<sup>st</sup> to IV<sup>th</sup> semester B. Tech. Programme in Electronics and Instrumentation Engineering (for the upcoming batches I<sup>st</sup> year and II<sup>nd</sup> year onwards.(admitted after 2022-23 Session) (2023-24 onwards batch)</i>
<b>Resolution</b>	The scheme and syllabus of the <i>I and II semester B. Tech. Programme in Electronics and Instrumentation Engineering</i> has been proposed, discussed and finalised (for the students to be admitted in the session 2024-25). <ol style="list-style-type: none"><li>1. It was proposed to drop the Course on Engineering Graphics and replace it by a Departmental Core Course. The members unanimously approved the proposal.</li><li>2. Mr. Aditya Trivedi suggested to make the course of Python Programming more lab oriented. He suggested to include a project at the end of the course and its assessment could be made under the assignment slot.</li></ol>
<b>Item 8</b>	To propose a tentative pool of courses which can be opted for getting an (i) <i>Honours Degree (for students of the parent department) (20 credits additionally to be earned between V to VIII sem.)</i>



	<p>(ii) <b>Minor Degree (for students of other departments) (20 credits additionally to be earned between V to VIII sem.)</b></p> <p>[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the B.Tech. V semester students (for the batch admitted in 2022-23).</p>
<b>Resolution</b>	Not applicable since there are no students in the batch admitted in 2022-23.
<b>Item 9</b>	To review the <b>Scheme &amp; Syllabus of B. Tech. Programme in Electronics and Instrumentation Engineering (along with the Course Outcomes) for 2018 scheme.</b>
<b>Resolution</b>	<i>Scheme &amp; Syllabus of B. Tech. Programme in Electronics and Instrumentation Engineering (along with the Course Outcomes) for 2018 scheme</i> was presented and discussed. No changes were suggested in it.
<b>Item 10</b>	To review result analysis, curricula feedback from various stakeholders, etc. and its analysis and impact.
<b>Resolution</b>	Result analysis and Curriculum feedback obtained from different stake holders along with its analysis has been presented and reviewed in the meeting. Based on the feedback, suggestive measures have been incorporated. Mr. Prakash Verma suggested to include the summary of the feedback. Mr. Prakash Verma also suggested to include subject wise analysis of the end semester examination result.
<b>Item 11</b>	Any other points with the permission of chair
<b>Resolution</b>	<ol style="list-style-type: none"><li>1. Mr. Prakash Verma suggested to include aspects of design thinking, lateral thinking and methodical skills etc. Mr. Verma suggested that the students should be oriented towards the implications of the ChatGPT/AI etc.</li><li>2. Dr. Ashutosh Datar floated the idea of inclusion of VLSI Design related courses keeping in view the vast potential growth in VLSI Domain in the current scenario. Dr. Sanjay Sharma supported the idea and suggested to include one course related to VLSI design in every semester. Dr. Meena Panchore proposed to acquaint the students with some VLSI related softwares such as Cadence etc.</li><li>3. Mr. Prakash Verma suggested to acquaint the students with the current industry trends through the guest lectures or other measures like industrial visits, internships etc. He also suggested to include some case studies in the curriculum.</li><li>4. Dr. Sanjay Sharma suggested to put a restriction on Honours and Minor Degrees (Item No.8), and opinion may be sought from the other members.</li></ol>

### Conclusion

1. All possible suggestions are incorporated in the presented Scheme and the Syllabus of B.Tech (Electronics & Instrumentation Engineering) course as per the Agenda.
2. As per the above comments and suggestions from BoS members, the existing syllabus and proposed new scheme and Syllabus have been updated and approved by the BoS Members.



3. The meeting concluded with Vote of Thanks from Dr. Ashutosh Datar, Head (Dept. of Electronics Engg.) & Chairman, to all the invited external subject experts, alumni and the faculty.

Dr. Aditya Trivedi,  
Professor,  
IITM, Gwalior

Dr. Vandana Vikash Thakre,  
Associate Professor,  
Department of ECE,  
MITS Gwalior

Mr. Prakash Verma  
Key Account Manager  
(Industrial Automation),  
Robert Bosch Bangalore  
(Industry Person)

Dr. Meena Panchore,  
Assistant Professor  
NIT Patna

Dr. Ashutosh Datar  
Head, Department of  
Electronics

Dr. S.K. Sharma  
Head, DoECE, UIT RGPV  
Bhopal  
(VC-RGPV Nominee)

Dr. Jyotsana Ogale  
Professor  
Department of Electronics Engg.

Dr. Shilpa Datar  
Asst. Professor,  
Department of Electronics

Dr. Alok Jain  
Professor  
Department of Electronics

Mr. K.G. Kirar  
Asst. Professor,  
Department of Electronics