



# S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT AND RESEARCH, NAGPUR

(An Autonomous Institute, Affiliated to RTMNU, Nagpur)

## FIRST YEAR ENGINEERING DEPARTMENT

*"Emerge as a leading Institute for developing competent and creative Professionals"*



### MINUTES OF MEETING

#### 2<sup>nd</sup> BOARD OF STUDIES MEETING ON 27 JULY 2021

Reference No. :

27.07.2021

The Board of Studies' (BoS) Second meeting of First Year Engineering Department under autonomy was held on 27.07.2021 at conference room of the institute. The meeting was chaired by Prof. Abdul Ghaffar, Dr. S. L. Badjate Principal, S B Jain Institute of Technology Management and Research and Dr. Pankaj Thote, Dean Academics were the special invitees of the meet.

#### MEMBERS PRESENT:

Sr. No.	Name of Member	Designation
1	<b>Prof. Abdul Ghaffar</b>	Chairman
2	<b>Dr. S. L. Badjate</b> Principal, S. B. Jain Institute of Technology, Management and Research	Special Invitee
3	<b>Dr. P. B. Thote</b> (Dean- Academics and HOD Electrical Engineering) S. B. Jain Institute of Technology, Management and Research	Special Invitee
4	<b>Dr. S. B. Kondawar</b> RTM Nagpur University, Nagpur	University Nominee
5	<b>Dr. Sajid Anwar</b> Anjuman College of Engineering, Nagpur	Subject Expert
6	<b>Dr. A. V. Wankhade</b> Assistant Professor, Department of Chemistry, Visvesvaraya National Institute of Technology, Nagpur	Subject Expert
7	<b>Dr. Yogesh Pakade</b> Senior Scientist, Cleaner Technology and Modeling Division, CSIR – NEERI, Nagpur	Industry Expert

8	<b>Dr. Bhavana Butey</b> Professor and Head, Department of Physics G. H. Rasoni College of Engineering, Nagpur	Subject Expert
9	<b>Dr. Aatish Daryapurkar</b> Indian Institute of Information Technology , Nagpur	Subject Expert
10	<b>Dr. Vinod H. Asudani</b> Associate Professor, Department of Humanities, Ramdeobaba College of Engineering, Nagpur	Subject Expert
11	<b>Mr. Mayur Misal</b> Assistant Manager (Engineering) Tata Steel Ltd. Kalinganagar	Meritorious Alumnus
12	Dr. Rupali K. Kelkar	Subject Head
13	Dr. D.B.Rana	Subject Head
14	Dr. Himanshu Roy	Subject Head
15	Dr. Yogesh Shinde	Subject Head
16	Dr. Sunil Kemdeo	Subject Head
17	Ms. Daksha Taori	Subject Head

**MEMBERS ABSENT:**

1	<b>Dr. G. P. Singh</b> Professor and Head, Department of Applied Mathematics VNIT, Nagpur	Subject Expert
2	<b>Ms. Prajakta Pendam</b>	Subject Head

At the outset, the Chairman of the Board of Studies of First Year Engineering department extended a cordial welcome to all the subject experts, subject heads and invitees to the 2<sup>nd</sup> meeting of the Board of Studies, followed by the introduction of all the members of the Board of Studies.

The following Agendas were discussed:



**AGENDA 1 : Induction of Dr. S. B. Kondawar as a University Nominee in the Board of Studies.**

The Chairman of the Board of Studies, Prof. Abdul Ghaffar introduced Dr. S. B. Kondawar.

**RESOLUTION 1: Dr. S. B. Kondawar was welcomed by all the members of BoS and congratulated him for nominated as one of the experts form panel of six (RTNMU Letter Ref No. RTMNU/CDS/2021/3410: dated 10/06/2021) on board of studies of an Autonomous College.**

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**AGENDA 2: Approval of Minutes of First Meeting held on 26.2.2021**

The chairman briefed the minutes of the first BoS meeting held on 26.02.2021 for the approval by honorable members.

**RESOLUTION 2: All the members of the BoS approved the minutes of first BoS meeting held on 26.2.2021**

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**AGENDA 3: Consider and finalize the curriculum scheme of First Year Engineering of all the programmes effective from the academic session 2021-22.**

The Chairman of the Board of studies presented a curriculum scheme for all the programmes of First Year Engineering.

**RESOLUTION 3 : After a detailed discussion, Board of Studies unanimously accepted and approved the curriculum scheme of First Year Engineering of all the programmes effective from the academic session 2021-22.**

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**AGENDA 4: Consider and finalize the syllabus of revised/newly introduced courses of BSC, HSMC and MC category courses of First Year Engineering.**

The Chairman of the Board of Studies presented the syllabus of the courses under BSC, HSMC and MC category of First Year Engineering.

**RESOLUTION 4 :**

Syllabus of the courses 'Advanced Chemistry' and 'Engineering Mathematics' were accepted and approved by the subject experts, whereas the subject experts gave their valuable suggestions for modification in the syllabi of 'Modern Physics'.

Course	Name of the Expert	Suggestions
Modern Physics	Dr. Bhavana Butey	<ol style="list-style-type: none"><li>1. Modify the Course Objectives.</li><li>2. Inculcate the synthesis of Nano-Materials, X-ray Diffraction and Electron Microscopy.</li><li>3. Basics of quantum should be taught.</li><li>4. Introduce effective measures to bridge the gap between engineering and 12<sup>th</sup> grade syllabi.</li><li>5. Include at least one book based on Nano-materials in the syllabus.</li><li>6. Topics 'Intrinsic' and 'Extrinsic' semiconductors should be taught at basic level.</li><li>7. Include one experiment based on solar cells.</li></ol>

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**AGENDA 5:** Consider and finalize the curriculum scheme of BSC, HSMC and MC category courses offered in III-IV semester engineering of all programmes.

The Chairman of the Board of Studies presented the scheme and syllabi of the courses under BSC, HSMC and MC category of III-IV semester Engineering.

**RESOLUTION 5 :**

Syllabus of the courses 'Engineering Mathematics-III' were accepted and approved by the subject experts. Whereas, some valuable suggestions for modification in the syllabus of 'Essence of Indian Traditional Knowledge' were provided by the subject expert which are mentioned below:

Course	Name of the Expert	Suggestions
Essence of Indian Traditional Knowledge	Dr. Vinod H. Asudani	<ol style="list-style-type: none"><li>1. Remove Unit number III and add it as a topic in unit II.</li><li>2. New headings for unit IV and unit V along with new content has been advised by the subject expert.</li></ol>

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**AGENDA 6: Finalize and approve Outcome Based Education (OBE) manual of First Year Engineering.**

**RESOLUTION 6: All the members of the BoS accepted and approved OBE manual of First Year Engineering.**

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**AGENDA 7: Consider and approve the panel of examiners for theory and practical exam for the academic session 2021-22.**

**RESOLUTION 7: All the members of the BoS accepted and approved the panel of examiners for theory and practical exam for the academic session 2021-22.**

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**AGENDA 8: Discussion about effective curriculum delivery techniques including activity based learning**

**RESOLUTION 8: The Chairman of the Board of Studies suggested that the students' response has been good to the activities conducted and was satisfied with the curriculum delivery techniques for current academic session. So the members accepted and approved to continue the same for the upcoming academic sessions.**

The meeting ended with a vote of thanks by the Chairman Board of Studies followed by high tea and snacks.

BoS Chairman





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**CURRICULUM SCHEME OF FIRST YEAR ENGINEERING**  
With effect from Session 2021-22  
**Semester-I (Group-II: EE, ETC and MECH)**

**Scheme of Teaching & Examination of Bachelor of Engineering**

Sr.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem. Exam	Total	Duration (Hrs.)
1	BSC101T	Engineering Mathematics-I	3	1	0	4	40	60	100	3
2	BSC103T	Engineering Chemistry	3	1	0	4	40	60	100	3
3	BSC103P	Engineering Chemistry Lab	0	0	2	1	25	25	50	
4	ESC104T	Engineering Graphics and Design	1	0	0	1	40	60	100	4
5	ESC104P	Engineering Graphics and Design Lab	0	0	4	2	25	25	50	
6	ESC105T	Programming for Problem Solving	3	0	0	3	40	60	100	3
7	ESC105P	Programming for Problem Solving Lab	0	0	4	2	25	25	50	
8	HSMC101T	Communicative English	2	0	0	2	20	30	50	2
9	HSMC101P	Communicative English Lab	0	0	2	1	25	25	50	
<b>TOTAL</b>			<b>12</b>	<b>2</b>	<b>12</b>	<b>20</b>	<b>280</b>	<b>370</b>	<b>650</b>	

*[Handwritten signatures and initials in blue ink]*





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**CURRICULUM SCHEME OF FIRST YEAR ENGINEERING**  
With effect from Session 2021-22  
**Semester-II (Group-I : CSE, AI & ML and AI & DS)**

Scheme of Teaching & Examination of Bachelor of Engineering										
Sr.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem. Exam	Total	Duration (Hrs.)
1	BSC104T	Engineering Mathematics-II	3	1	0	4	40	60	100	3
2	BSC106T	Advanced Chemistry	3	1	0	4	40	60	100	3
3	BSC106P	Advanced Chemistry Lab	0	0	2	1	25	25	50	
4	ESC104T	Engineering Graphics and Design	1	0	0	1	40	60	100	4
5	ESC104P	Engineering Graphics and Design Lab	0	0	4	2	25	25	50	
6	ESC106P	Computer Workshop Lab	0	0	4	2	25	25	50	
7	ESC107P	Web Development Lab	0	0	4	2	25	25	50	
8	HSMC101T	Communicative English	2	0	0	2	20	30	50	2
9	HSMC101P	Communicative English Lab	0	0	2	1	25	25	50	
<b>TOTAL</b>			<b>9</b>	<b>2</b>	<b>16</b>	<b>19</b>	<b>265</b>	<b>335</b>	<b>600</b>	

*[Handwritten signatures and initials]*



