

**Minutes of  
Online Board of Studies  
Meeting of Electronics and  
Telecommunication  
Engineering  
held on 21.12.2021**

**Agenda of the BoS**

*(Approved by the Academic Development Cell for all BoS Meetings Scheduled during December 2021)*

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

## Instructions for preparing BoS Proceedings

{All information is to be uploaded on the webpage under suitable heading (such as Board of Studies) and separate links to be provided for each category mentioned below}

1.

Summary of BoS minutes							
Courses where revision was carried out*							
(Course/subject name)	Course Code	Year/Date of introduction	Year/Date of revision	Percentage of content added or replaced	Agenda Item No.	Page No.	Link of relevant documents/minutes
Digital Circuits and Systems	200411	2015	2021	10% deleted 8% added	11	35	Annexure A
Analog Communication	200413	2015	2021	5% deleted 5% added	11	37	Annexure B
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
Optical Communication	200611	Signal Degradation in Optical Fibres, Optical Communication and Networks			7	24	Annexure IV
Antenna and Wave Propagation	200612	Antenna Arrays, Aperture and special Antennas, Microstrip Patch Antenna			7	25	Annexure IV
Telecom Switching and Network	200613	Telephone Networks, Switching, Traffic Engineering, Data networks			7	26	Annexure IV
Intelligent Control	900104	Modeling of Control System, Hybrid Control, Fuzzy Controllers			9	27	Annexure V
Embedded System	900105	8051 microcontroller, Serial port, interrupt Programming, Interfacing real world devices with 8051 microcontroller, Interfacing real world devices with Arduino			9	28	Annexure V
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
Digital Filter Design		Finite Impulse Response Digital Filters, Infinite Impulse Response Digital Filters			4	17	Annexure II
EEG Signal Processing		Fundamentals of EEG Signal Processing, Event-Related Potentials, Seizure Signal Analysis			4	18	Annexure II
Optical Networks		Optical network components, Optical network architecture, Advance Optical Networks			4	19	Annexure II
Analog Integrated Circuits	200412	Power Amplifiers, Multivibrator Design using 555 IC, Operational Amplifier			11	36	Annexure VII
Feedback on curriculum received from stakeholders: Analysis& ATR*							
Stakeholder	Student		Faculty		Alumni		Employer
No. of responses	ET I : 110		12		31		6

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		ET II: 97 ET III: 46 ET IV: 98			
	Link of Analysis	<a href="#">ANNEXURE XIII</a>			
	ATR Link				
	Link showing Excel sheet of Google Form details of stakeholders	<a href="http://shorturl.at/dmAQR">shorturl.at/dmAQR</a>	<a href="http://shorturl.at/bstER">shorturl.at/bstER</a>	<a href="http://shorturl.at/goBXY">shorturl.at/goBXY</a>	<a href="http://shorturl.at/jqJU0">shorturl.at/jqJU0</a>

**Minutes of the online Board of studies meeting on 21-12-2021**

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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Following members have attended the online meeting;

1.	Dr. Laxmi Shrivastava	Chairperson, Associate Professor and Head
2.	Prof. Jyoti Singhai	RGPV nominee by Academic Council, Professor, MANIT, Bhopal
3.	Dr N S Ragava	External Member, Professor, ECE Deptt., DTU, Delhi
4.	Er. Pankaj Agarwal	Alumni, External member, Assistant Engineer, UP Power Corporation Limited
5.	Prof. P. K. Singhal	Professor
6.	Dr. V. V. Thakare	Associate Professor
7.	Dr. R. P. Narwaria	Assistant Professor
8.	Dr. Karuna Markam	Assistant Professor
9.	Prof. Madhav Singh	Assistant Professor
10.	Prof. D. K. Parsediya	Assistant Professor
11.	Dr. Sandeep Sharma	Assistant Professor
12.	Dr. Vikas Mahor	Assistant Professor
13.	Dr. Rahul Dubey	Assistant Professor
14.	Dr. Hemant Choubey	Assistant Professor
15.	Dr. Deepak Batham	Assistant Professor
16.	Dr. Varun Sharma	Assistant Professor
17.	Dr. Shubhi Kansal	Assistant Professor
18.	Dr. Sushmita Chaudhary	Assistant Professor
19.	Dr. Dinesh Rano	Assistant Professor

Following external members could not attend the meeting:

1. Dr Alok Jain, V.C. Nominee, RGPV, Professor, SATI, Vidisha
2. Er. Gaurav Tripathi, Representative from industry/ corporate sector/ allied area  
External member, Sr. Enterprise Architect, HCL Technologies SEZ, Noida

At the onset, the chairperson welcomed external members to the meeting of BoS and placed the agenda for the deliberation to the members. The following deliberations were made as per the items of circulated agenda:

- Minutes of the last BoS held on 08-06-2021 were confirmed.

BoS Agenda Items	
<b><u>Item 1</u></b>	<p>To propose the <b>scheme structure of VIII Semester</b> with the provision of Two Departmental Electives and one Open Category (OC) Course, <b>to be offered in online mode</b> with credit transfer for the batch admitted in 2018-19.</p> <p>The scheme structure for VIII Semester with the provision of two departmental electives has been discussed and finalized. Same can be find out in <a href="#">Annexure-I(A)</a>, and <a href="#">Annexure I(B)</a>.</p>
<b><u>Item 2</u></b>	<p>To propose the list of courses which the students can opt from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC, to be offered in <b>online mode under Departmental Elective (DE) category</b>, for credit transfer in the <b>VIII Semester</b> under the flexible curriculum (<i>Batch admitted in 2018-19</i>)</p> <p>Following are the lists of courses finalized which the students can opt from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC, to be offered in <b>online mode under Departmental Elective (DE) category</b>, for credit transfer in the <b>VIII Semester</b> under the flexible</p>

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curriculum (*Batch admitted in 2018-19*)

S.No	Category Code	Course Code	Name of The course	Duration of the Course in weeks	Course Registration		Name of the Mentor Faculty
					Start Date	End Date	
Electronics/Electronics & Telecommunication Engineering							
1	DE-5	200854	Fundamental of power Electronics	12	12-11-2020	31-01-2021	Dr. R P Narwaria
2		200855	Biomedical Signal Processing	12	12-11-2020	31-01-2021	Dr. Hemant Chaubey
3		200853	Power Management Integrated Circuits	12	12-11-2020	31-01-2021	Dr. Vikas Mahor
4	DE-6	200861	Design and Analysis of VLSI Subsystems	12	12-11-2020	31-01-2021	Dr. Shubhi Kansal
5		200862	An Introduction to Information Theory	08	12-11-2020	31-01-2021	Prof. Pooja Sahoo
6		200863	Fundamentals of MIMO Wireless Communication	08	12-11-2020	31-01-2021	Dr. Karuna Markam

To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC Platform, to be offered in **online mode from** SWAYAM/NPTEL/MITS MOOCs/ other MOOC Platforms) **under Open Category (OC)** Courses, for credit transfer in the **VIII Semester under** the flexible curriculum (*Batch admitted in 2018-19*)

Following is the list of courses which the students can opt from SWAYAM/NPTEL/MOOC Platform, to be offered in **online mode from** SWAYAM/NPTEL/MITS MOOCs/ other MOOC Platforms) **under Open Category (OC)** Courses, for credit transfer in the **VIII Semester under** the flexible curriculum (*Batch admitted in 2018-19*)

S.No	Category Code	Course Code	Name of The course	Duration of the Course in weeks	Course Registration		Name of the Mentor Faculty
					Start Date	End Date	
Electronics/Electronics & Telecommunication Engineering							
1	OC-4	900601	Linear Dynamical System	12	12-11-2020	31-01-2021	Prof. D K Parsedia
2		900602	Sensors and Actuators	12	12-11-2020	31-01-2021	Dr Sushmita Chaudhari

To propose the course and syllabi of MITSMOOC Course along with the Course Outcomes for credit transfer in the **VIII Semester** under the flexible curriculum (*Batch admitted in 2018-19*)

Course and syllabi of MITS MOOCS have been discussed and finalized with the consent of external and Internal member of BoS. Same can be find out in [Annexure-II](#).

S.No	Subject Code	Subject Name
1	200861	Digital Filter Design
2	200862	EEG Signal Processing



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	<p>20) under the flexible curriculum along with their COs have been discussed and finalized. Same can be find out in <a href="#">Annexure-III</a>.</p> <table><tr><th>S.No</th><th>Subject Code</th><th>Subject Name</th></tr><tr><td>1</td><td>200601</td><td>Digital Signal Processing</td></tr><tr><td>2</td><td>200602</td><td>Data Communication</td></tr></table>	S.No	Subject Code	Subject Name	1	200601	Digital Signal Processing	2	200602	Data Communication																															
S.No	Subject Code	Subject Name																																							
1	200601	Digital Signal Processing																																							
2	200602	Data Communication																																							
<a href="#">Item 7</a>	<p>To review and finalize the courses &amp; syllabi to be offered (<i>for batches admitted in 2019-20</i>) under <b>Departmental Elective (DE) Courses</b> in the <b>VI Semester</b></p> <p>Courses &amp; syllabi to be offered (<i>for batches admitted in 2019-20</i>) under <b>Departmental Elective (DE) Courses</b> in the <b>VI Semester</b> has been discussed and finalized with the consent of external and Internal BOS members. Same can be find out in <a href="#">ANNEXURE-IV</a>.</p> <table><tr><th>S.No</th><th>Subject Code</th><th>Subject Name</th></tr><tr><td>1</td><td>200611</td><td>Optical Communication</td></tr><tr><td>2</td><td>200612</td><td>Antenna &amp; wave Propagation</td></tr><tr><td>3</td><td>200613</td><td>Telecom Switching and Networks</td></tr></table>	S.No	Subject Code	Subject Name	1	200611	Optical Communication	2	200612	Antenna & wave Propagation	3	200613	Telecom Switching and Networks																												
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3	200613	Telecom Switching and Networks																																							
<a href="#">Item 8</a>	<p>To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (<i>for batches admitted in 2019-20</i>) in online mode under <b>Departmental Elective (DE) Courses</b> with credit transfer, in the <b>VI Semester</b></p> <p>The list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (<i>for batches admitted in 2019-20</i>) in online mode under <b>Departmental Elective (DE) Courses</b> with credit transfer, in the <b>VI Semester</b> has been finalized.</p> <table><tr><th rowspan="2">S.No</th><th rowspan="2">Category Code</th><th rowspan="2">Course Code</th><th rowspan="2">Name of The course</th><th rowspan="2">Duration of the Course in weeks</th><th colspan="2">Course Registration</th><th rowspan="2">Name of the Mentor Faculty</th></tr><tr><th>Start Date</th><th>End Date</th></tr><tr><td colspan="8">Electronics/Electronics &amp; Telecommunication Engineering</td></tr><tr><td>1</td><td rowspan="3">Departmental Elective (DE-2)</td><td>200651</td><td>Spread Spectrum Communications and Jamming</td><td>12</td><td>12 Nov 2021</td><td>31 Jan 2022</td><td>Dr. Sandeep Sharma</td></tr><tr><td>2</td><td>200652</td><td>Digital IC Design</td><td>12</td><td>12 Nov 2021</td><td>31 Jan 2022</td><td>Dr Varun Sharma</td></tr><tr><td>3</td><td>200653</td><td>Fuzzy Sets, Logic and Systems &amp; Applications</td><td>12</td><td>12 Nov 2021</td><td>31 Jan 2022</td><td>Dr Deepak Batham</td></tr></table>	S.No	Category Code	Course Code	Name of The course	Duration of the Course in weeks	Course Registration		Name of the Mentor Faculty	Start Date	End Date	Electronics/Electronics & Telecommunication Engineering								1	Departmental Elective (DE-2)	200651	Spread Spectrum Communications and Jamming	12	12 Nov 2021	31 Jan 2022	Dr. Sandeep Sharma	2	200652	Digital IC Design	12	12 Nov 2021	31 Jan 2022	Dr Varun Sharma	3	200653	Fuzzy Sets, Logic and Systems & Applications	12	12 Nov 2021	31 Jan 2022	Dr Deepak Batham
S.No	Category Code						Course Code	Name of The course		Duration of the Course in weeks	Course Registration		Name of the Mentor Faculty																												
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3		200653	Fuzzy Sets, Logic and Systems & Applications	12	12 Nov 2021	31 Jan 2022	Dr Deepak Batham																																		
<a href="#">Item 9</a>	<p>To review and finalize the courses &amp; syllabi to be offered (<i>for batches admitted in 2019-20</i>) under the <b>Open Category (OC) Courses</b>(in traditional mode) for <b>VI semester</b> students of other departments along with their COs</p> <p>The courses &amp; syllabi to be offered (<i>for batches admitted in 2019-20</i>) under the <b>Open Category (OC) Courses</b> (in traditional mode) for <b>VI semester</b> students of other departments along with their COs has been discussed and finalized. Same can be find out in <a href="#">ANNEXURE-V</a>.</p> <table><tr><th>S.No</th><th>Subject Code</th><th>Subject Name</th></tr><tr><td>1</td><td>900104</td><td>Intelligent Control</td></tr><tr><td>2</td><td>900105</td><td>Embedded Systems</td></tr></table>	S.No	Subject Code	Subject Name	1	900104	Intelligent Control	2	900105	Embedded Systems																															
S.No	Subject Code	Subject Name																																							
1	900104	Intelligent Control																																							
2	900105	Embedded Systems																																							
<a href="#">Item 10</a>	<p>To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in VI semester (<i>for batches admitted in 2019-20</i>)</p> <p>The Experiment list/ Lab manual for Laboratory Courses to be offered in VI semester (<i>for batches admitted in 2019-20</i>) has been finalized. Same can be find out in <a href="#">ANNEXURE-VI</a>.</p> <table><tr><th>S.No</th><th>Subject Code</th><th>Subject Name</th></tr><tr><td>1</td><td>200601</td><td>Digital Signal Processing</td></tr><tr><td>2</td><td>200606</td><td>Minor Project-I</td></tr></table>	S.No	Subject Code	Subject Name	1	200601	Digital Signal Processing	2	200606	Minor Project-I																															
S.No	Subject Code	Subject Name																																							
1	200601	Digital Signal Processing																																							
2	200606	Minor Project-I																																							
<a href="#">Item 11</a>	<p>To review and finalize the scheme and syllabi of <b>B. Tech. IV Semester</b> (<i>for batches admitted in 2020-21</i>) under the flexible curriculum along with their COs</p> <p>The scheme and syllabi of <b>B. Tech. IV Semester</b> (<i>for batches admitted in 2020-21</i>) under the</p>																																								

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	flexible curriculum along with their COs has been discussed and finalized. Same can be find out in <a href="#">ANNEXURE-VII</a> .															
<b>Item 12</b>	<p>To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in IV(<i>for batch admitted in 2020-21</i>)</p> <p>The Experiment list/ Lab manual for Laboratory Courses to be offered in IV (<i>for batch admitted in 2020-21</i>) has been finalized. Same can be find out in <a href="#">ANNEXURE-VIII</a>.</p> <table><tr><th>S.No</th><th>Subject Code</th><th>Subject Name</th></tr><tr><td>1</td><td>200411</td><td>Digital Circuits and Systems</td></tr><tr><td>2</td><td>200412</td><td>Analog Integrated Circuits</td></tr><tr><td>3</td><td>200413</td><td>Analog Communications</td></tr><tr><td>4</td><td>200415</td><td>PCB Design Lab</td></tr></table>	S.No	Subject Code	Subject Name	1	200411	Digital Circuits and Systems	2	200412	Analog Integrated Circuits	3	200413	Analog Communications	4	200415	PCB Design Lab
S.No	Subject Code	Subject Name														
1	200411	Digital Circuits and Systems														
2	200412	Analog Integrated Circuits														
3	200413	Analog Communications														
4	200415	PCB Design Lab														
<b>Item 13</b>	<p>To review and finalize the suggestive list of projects which can be assigned under the ‘Skill based mini-project’ category in various laboratory courses to be offered in Jan - June 2022 semester during IV Semester (<i>for the batch admitted in 2020-21</i>).</p> <p>The list of projects which can be assigned under the ‘Skill based mini-project’ category in various laboratory courses to be offered in Jan - June 2022 semester during IV Semester (<i>for the batch admitted in 2020-21</i>) has been discussed and finalized. Same can be find out in <a href="#">ANNEXURE-IX</a>.</p>															
<b>Item 14</b>	<p>To ratify the <i>Scheme &amp; Syllabi, list of experiments and skill based mini projects of First semester of the newly started B. Tech. programmes in the emerging areas (AI &amp; ML, AI &amp; DS, CSD) (started from 2021-22 Session) {Applicable for the concerned departments}</i></p> <p>NA</p>															
<b>Item 15</b>	<p>To ratify the <i>Scheme &amp; Syllabi, list of experiments and skill based mini projects of First Semester B. Tech. programmes [admitted batch 2021-22 Session] (if any)</i></p> <p>NA</p>															
<b>Item 16</b>	<p>To prepare and recommend the <i>Scheme &amp; Syllabi (along with the Course Outcomes) of II semester of the newly started B. Tech. programmes in the emerging areas (AI &amp; ML, AI &amp; DS, CSD) (started from 2021-22 Session) {Applicable for the concerned departments}</i></p> <p>NA</p>															
<b>Item 17</b>	<p>To prepare and recommend the list of experiments and skill based mini projects of <i>II semester of the newly started B. Tech. programmes in the emerging areas (AI &amp; ML, AI &amp; DS, CSD) (started from 2021-22 Session) {Applicable for the concerned departments}</i></p> <p>NA</p>															
<b>Item 18</b>	<p>To review and finalize the <i>Scheme &amp; Syllabi (along with the Course Outcomes) of II semester B. Tech. programmes (batch admitted 2021-22 Session)</i></p> <p>The <i>Scheme &amp; Syllabi (along with the Course Outcomes) of II semester B. Tech. programmes (batch admitted 2021-22 Session)</i> has been discussed and finalized. Same can be find out in <a href="#">ANNEXURE-X(A)</a>, and <a href="#">ANNEXURE-X(B)</a>.</p>															
<b>Item 19</b>	<p>To review and finalize the <i>list of experiments and skill based mini projects of II semester B. Tech. programmes (batch admitted 2021-22 Session)</i></p> <p>The <i>list of experiments and skill based mini projects of II semester B. Tech. programmes (batch admitted 2021-22 Session)</i> has been reviewed and finalized with the consent of BOS members. Same can be find out in <a href="#">ANNEXURE-XI</a>.</p>															



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<b>Item 20</b>	To propose the course “ <b>Economics Entrepreneurship &amp; Management</b> ” and its syllabi along with the Course Outcomes (COs) for the V Semester B.Tech. (Batch admitted 2020-21 onwards). <i>{to be proposed and recommended by <b>Management Department</b>}</i> NA								
<b>Item 21</b>	To revise and recommend the course “ <b>Energy, Environment, Ecology &amp; Society</b> ” and its syllabi along with the Course Outcomes (COs) for the III Semester B.Tech. (Batch admitted 2021-22 onwards). <b>{inclusion of contents related to “Sustainability” is to be done}</b> <i>{to be proposed and recommended by the<b>Civil Engineering Department</b>}</i> NA								
<b>Item 22</b>	To propose a new course: <b>Universal Human Values &amp; Professional Ethics (HVPE)</b> & its syllabi along with the Course Outcomes (COs), as Mandatory Course (MC) for the batch admitted in 2020-21 onwards <b>{A portion on ‘gender sensitization’also to be included in the syllabus of this course}</b> <i>{to be proposed and recommended by<b>Humanities Department</b>}</i> NA								
<b><u>Item 23</u></b>	<p>To review the CO attainments, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels for (i) I year April–September 2021 Semester (ii) January-June 2021 Session for II to IV year students</p> <p>CO attainment has been discussed and suggestion of experts has been taken into consideration. This can be find out in <a href="#">ANNEXURE-XII</a>.</p> <table><tr><th>Total No of courses</th><th>Total number of COs</th><th>Number of COs NOT attained level 3</th><th>Percentage of COs not attained</th></tr><tr><td>12</td><td>62</td><td>4</td><td>7%</td></tr></table>	Total No of courses	Total number of COs	Number of COs NOT attained level 3	Percentage of COs not attained	12	62	4	7%
Total No of courses	Total number of COs	Number of COs NOT attained level 3	Percentage of COs not attained						
12	62	4	7%						
<b><u>Item 24</u></b>	<p>To review curricula feedback from various stakeholders, its analysis and impact</p> <p><b>{Stakeholder feedback analysis must also contain an action taken report (ATR) and the details/data of the stakeholder who have responded through GOOGLE form (such as Name, organization, mail id, phone no if available) must also be shared along with the feedback for the alumni/employer.}</b></p> <p>Curricula feedback from various stakeholders, its analysis and impact has been reviewed. Same can be find out in <a href="#">ANNEXURE-XIII</a>.</p>								
<b><u>Item 25</u></b>	<p>To review Course Outcomes (COs) feedback of various courses, its analysis and impact.</p> <p>Course Outcomes (COs) feedback of various courses, its analysis and impact has been reviewed and same can be find out in <a href="#">ANNEXURE-XIV</a>.</p>								
<b>Item 26</b>	Any other matter								

***During the meeting experts suggested the following points:***

1. List of experiments for VI semester of all subjects has been revised as per the suggestions of external experts.
2. List of skill based mini projects for IV Semester of all subjects has been updated as per the suggestions of external experts.
3. Courses for DE-1 and OC-1 to be taught in traditional mode were finalized with the consent of external experts.
4. Courses for DE-5, DE-6 and OC-4 to be run through NPTEL were finalized with the consent of external experts.
5. Suggestions of experts in the CO attainment have been taken into consideration.
6. COs of Communication Network has been modified.

Dr. Dinesh Rano

Dr. Sushmita Chaudhary

Dr. Shubhi Kansal

Dr. Varun Sharma

Dr. Deepak Batham

Dr. Hemant Choubey

Dr. Rahul Dubey

Dr. Vikas Mahor

Dr. Sandeep Sharma

Prof. D K Parsedia

Prof. Pooja Sahoo

Prof. Madhav Singh

Dr Karuna Markam

Dr. R. P. Narwaria

Dr. Vandana Vikas Thakare

Dr. P. K. Singhal

Er. Pankaj Agarwal

Dr. N. S. Ragava

Dr. Jyoti Singhai

(External member)

(External member)

(External member)

Dr. Laxmi Shrivastava

Head of the Department