

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V., Bhopal, M.P.)

## Minutes of the Academic Council Meeting

The meeting of the Academic Council (AC) was held on 30<sup>th</sup> June 2023 at 12.30 P.M. onwards in the Convention Hall of the institute. The external members have attended the meeting through Video Conferencing.

The meeting was chaired by **Dr. R. K. Pandit**, Director of the Institute. **Er. Ramesh Agarwal**, Secretary, Scindia Engineering College Society (SECS) Gwalior and **Shri Prashant Mehta**, Member, Board of Governors (Nominee of Hon'ble Chairman, BoG) attended the meeting.

**Prof. Mahesh Chandra Govil**, Director NIT Sikkim; **Prof. Lalit Kumar Awasthi**, Director NIT Uttarakhand and Special Invitee **Dr. Rommel Mehta, Former Professor, School of Planning & Architecture, New Delhi** attended the meeting. **Prof. Mohan Sen, Joint Director DTE Bhopal** (Nominee of the Hon'ble Vice Chancellor, RGPV Bhopal) has also attended the meeting. While the other members of the Council; **Prof. Manoj Singh Gaur**, Director, IIT Jammu and **Dr. Binod Kumar Kanaujia**, Director Dr. B R Ambedkar National Institute of Technology, Jalandhar (Punjab) could not attend the meeting.

Other nominees of the Hon'ble Vice Chancellor of RGPV Bhopal, **Prof. R.S. Rajput**, Registrar RGPV Bhopal and **Prof. Sudhir Singh Bhadauria**, Director, UIT RGPV Bhopal could not attend the meeting. **The following internal members attended the meeting:**

S. No.	Name	Designation	Status in AC
1.	Dr. R. K. Pandit	Director	Chairperson
2.	Dr. Manjaree Pandit	Professor (Electrical Engineering) & Dean (Academics)	Member
3.	Dr. Sulochana Wadhvani	Professor & Head, Electrical Engineering	Member
4.	Dr. M. K. Trivedi	Professor & Head, Civil Engineering	Member
5.	Dr. R. Kansal	Professor (Civil Engineering) & Dean Student Welfare	Invitee Member
6.	Dr. P.K. Singhal	Professor (Electronics Engg.) & Exam Controller	Member
7.	Dr. Pratesh Jayaswal	Professor (Mechanical Engineering) & Registrar	Invitee Member
8.	Dr. Anjali S Patil	Associate Professor & Head, Architecture	Member
9.	Dr. M. K. Gaur	Professor & Head, Mechanical Engineering	Member
10.	Dr. Akhilesh Tiwari	Professor & Head, Department of Information Technology	Member Secretary
11.	Dr. Manish Dixit	Professor & Head, Department of Computer Science & Engineering	Member
12.	Dr. Vandana Vikas Thakare	Associate Professor & Head, Electronics Engineering	Member
13.	Dr. Anjula Gaur	Coordinator, Applied Sciences	Member



14.	Dr. V. Shinde	Professor & Head, Engineering Mathematics and Computing	Member
15.	Dr. Sanjeev Khanna	Coordinator, Humanities	Member
16.	Prof. Anish P Jacob	Assistant Professor & Coordinator, Chemical Engineering	Member
17.	Prof. Prabhakar Sharma	Dy. Registrar	Invitee Member
18.	Dr. Himmat Singh Ahirwar	Assistant Professor, Electrical Engg.	Member

Prof. Praveen Bansal, SWAYAM Manager; Dr. Sunita Sharma, Dy. Controller (Exams), Dr. Shishir Dixit, Associate Professor, Electrical Engineering and Dr. M. K. Sagar, Professor, Mechanical Engineering and Head, Department of Management Studies could not attend the meeting.

**The following deliberations took place in the meeting:**

Item: AC-1	<p>To confirm the minutes of the last Academic Council Meeting held on 28<sup>th</sup> December, 2022.</p> <p><b>The compliance status of the key aspects approved in the previous academic council was discussed and apprised, as per the following</b></p> <ul style="list-style-type: none"> <li>•Implementing “<i>Natural Sciences &amp; Skills</i>” component in the scheme/curriculum of 2022-23 admitted UG Engineering batch and onwards with credit arrangement</li> </ul> <p><b>As approved by the Academic Council, the “Natural Sciences &amp; Skills” component has been implemented in the scheme /curriculum of UG Engineering batch admitted 2022-23 onwards.</b></p> <p><b>This component will address the need for the <i>integration of all branches of Creative Human Endeavour with the Engineering Education</i> and relating practices.</b></p> <p><b>Further, the weightage of courses under the “Natural Sciences &amp; Skills” will be treated as Mandatory Audit Courses from first to fourth semester and cumulative marks will be converted as a cluster of credits and will be awarded in the VI semester.</b></p> <ul style="list-style-type: none"> <li>•Starting “UG Degree with Research” as per the provision of National Education Policy 2020</li> </ul> <p><b>In order to promote research activities at UG Engineering level, the provision of “Minor degree with Research” in Science &amp; Technology, upon acquiring 20 additional credits (i.e. 160 + 20) (for the admitted batch 2021-22 onwards) was approved by the house.</b></p> <p><b>The detailed plan has been developed at the institute level and submitted to the affiliating university (RGPV Bhopal) for possible permission.</b></p> <ul style="list-style-type: none"> <li>•Arrangement of one Departmental Elective (DE) and one Open Category (OC) course through MOOCs (SWAYAM/NPTEL) with credit transfer at VIII semester level (2019-20 admitted batch)</li> </ul> <p><b>As per the approval, two MOOC courses (i.e. one Departmental Elective and one Open Category) were offered with credit transfer at VIII semester level for the batch admitted 2019-20 and the same will be followed for further batches also.</b></p>
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- Inclusion of “Artificial Intelligence and Machine Learning” as a compulsory course in all the disciplines of UG Engineering

As per the decision of the academic council, a course on “Artificial Intelligence and Machine Learning” has been inducted at VI Semester level in all the disciplines of UG Engineering for the admitted batch 2020-21 onwards.

- Provisioning of “Summer Semester” for Final Year students (UG Engineering) after the VIII Semester

The guidelines for “Summer Semester” have been prepared and the same will be implemented after the approval from the affiliating university (RGPV Bhopal).

- Review and subsequent approval of Recommendations made by different Board of Studies (BoS) (meeting held in the month of December 2022 through video conferencing), regarding the scheme/curriculum/courses for January-June 2023 Semester

As per the approval, the scheme/curriculum and relating courses were offered during the January- June 2023 Semester.

The minutes of the previous Academic Council meeting held on 28<sup>th</sup> December, 2022 were confirmed and efforts made towards implementation of the same were appreciated

Item:  
AC-2

To consider the proposal for provisioning multiple entry /exit options under the implementation of National Education Policy 2020 in the Bachelor of Technology Programme from the academic session 2023-24

As per the Ordinance No. 4 (D) for “Bachelor of Technology Four Year Degree Course” of RGPV Bhopal; it was proposed to provision the multiple entry / exit options in the Bachelor of Technology Four Year Degree Course for the candidates admitted in academic session 2023-24 and onwards. Accordingly, the Bachelor of Technology degree shall be of four-year duration (Eight Semesters), with multiple entry and exit options within this period, as per the following

- The candidate can exit after the successful completion of one academic year (Two semesters), followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with the Certificate in a discipline or a field as decided by the respective Board of Studies, which will be equivalent to level 5 of National Higher Education Qualification Framework (NHEQF) / National Skills Qualification Framework (NSQF) and unified credit level of 4.5
- The candidate can exit after the successful completion of first two academic years (Four Semesters) followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with Under Graduate Diploma (in the particular discipline) or field as decided by the respective Board of Studies, which will be equivalent to level 6 of NHEQF/NSQF and unified

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credit level of 5.

- (c) The candidate can exit after the successful completion of first three academic years (Six Semesters) followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with Bachelor of Vocational Education (B.Voc.) (in the particular discipline) or field as decided by the respective Board of Studies, which will be equivalent to level 7 of NHEQF/NSQF and unified credit level of 5.5
- (d) A candidate shall be awarded with Bachelor of Technology Degree (in the particular discipline) after the successful completion of all the four academic years (Eight Semesters).
- (e) A candidate shall also be eligible for award of Bachelor of Technology with Honors or Bachelor of Technology with additional minor engineering after earning 20 additional credits.
- (f) A candidate may avail an exit option at the end of any particular academic year and can re-enter the program, as regular candidate in the next year, at the beginning of any new academic session (i.e. only during odd semesters), provided that he/she has successfully completed all the previous years.
- (g) The re-entry of such candidates are subject to the condition that the total number of candidates studying in a particular year, including such re-entering candidates, shall not exceed 10% of the sanctioned intake of the program excluding the supernumerary seats and that the gap between each exit and entry level is not more than five years.
- (h) If the number of candidates seeking re-entry is more than the seats available than admission for the re-entering candidates shall be on the basis of their CGPA of the qualifying year.
- (i) If a candidate is not able to seek re-entry due to above clause than he/she can apply for re-entry during the subsequent academic sessions.
- (j) If a candidate who was earlier unable to re-enter due to the 10% limit mentioned in clause (h) above, is seeking re-entry after a gap of five years from its previous exit, the condition of maximum gap of five years, as stipulated in clause (h) above shall not be applicable to such candidates.

The house has noted and approved the proposal.

Item: AC-3 To consider the proposal for increasing the weightage of continuous evaluation part of Practical work from the academic session 2023-24.

It was proposed to change the weightage of continuous evaluation part of practical block from 40% to 60% and end term exam of practical block from 60% to 40%, as detailed below. This arrangement will enable to focus more on continuous evaluation part and unburden the students from high stake end term practical examination /evaluation.

Practical Block			
Continuous Evaluation	Lab Work & Sessional	30%	60%
	Skill Based Mini Project	30%	
End Semester Exam/ Evaluation	----	---	40%
Total			100%

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	<b><u>The house noted and approved the proposal</u></b>
Item: AC-4	<p>To consider the proposal for provisioning of Honours degree in the specialized domains of major (parent) discipline for the batch admitted in 2021-22 academic session onwards</p> <p><b>It was proposed to provision the Honours degree in different specialization areas of Major (parent) discipline. For this purpose, domain specific specialized tracks (containing required pool of courses) will be prepared in level wise manner. This will be recommended by the respective Board of Studies (BoS) / Department for each programme. Under the proposed arrangement, at least three tracks to be developed by considering the courses from SWAYAM platform / institute MOOCs by the respective BoS for the purpose of Honours degree. The level wise track specific arrangement of courses will remain dynamic and will be determined / as recommended by the respective BoS before the commencement of each semester for the consideration of Academic Council.</b></p> <p><b><u>The house approved the proposal</u></b></p>
Item: AC-5	<p>To consider the criteria for the award of attendance weightage to students based on their learning efforts</p> <p><b>The institute has implemented National Education Policy 2020 for UG Engineering programmes with effect from the batch admitted in 2020-21 academic session onwards. As a part of NEP 2020 implementation, various arrangements have been made in the curriculum for the all-round development, activity based learning experience to the students, for which students have to give extra time and learning efforts. The representative components /arrangements of curriculum needing extra efforts includes</b></p> <ul style="list-style-type: none"> <li>• Natural Sciences &amp; Skills</li> <li>• Mandatory Audit Courses</li> <li>• Summer Internship Program-I</li> <li>• Summer Internship Program-II</li> <li>• Summer Internship Program-III (Research Internship/ Skill Enhancement Program)</li> <li>• Novel Engaging Courses (Holistic Education)</li> <li>• MOOCs (through SWAYAM/NPTEL and Institute MOOCs) with Credit Transfer arrangement</li> <li>• Professional Development Component</li> <li>• Minor Project/ Major Project</li> <li>• Skill based mini projects</li> <li>• Start-up activities</li> <li>• Hackathon competitions</li> <li>• Experiential Learning (Field visit/ Onsite learning/ Industry visit),</li> <li>• Extension Activities, etc.</li> </ul> <p><b>The fulfillment of activities / requirements towards above components needs extra learning efforts and time beyond the regular teaching &amp; learning hours (i.e. the class / lab session arrangement provided in the curricular schemes of the institute). Therefore, it was proposed to include the weight of time &amp; efforts invested towards above mentioned activities in the attendance system through a proper model (via estimating time and efforts required for such activities at different levels). The proposal of such a model was accepted in principle and the house instructed to work out the details</b></p>

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	<p>for implementation and for adopting the same in the institute for the inclusion of attendance weightage towards differently oriented activities, requiring additional time and efforts.</p> <p><i>The detailed draft of the model of attendance weightage based on semester wise learning efforts in each course component as per the scheme arrangements (along with other considerations and parameters) with the computation formulae, is annexed as <u>Annexure-1</u></i></p> <p><b><u>The house noted and approved the proposal</u></b></p>
Item: AC-6	<p>To consider the proposal for starting minor specialization degree in Automobile Engineering with Mechanical Engineering as major (parent) discipline</p> <p><b>It was proposed to provision minor specialization degree in Automobile Engineering with B.Tech. Mechanical Engineering as major (parent) discipline. This arrangement will be made effective from the batch admitted 2021-22 onwards. In order to complete the requirement towards minor specialization degree in Automobile Engineering, it is required to earn additional 20 Credits, through MOOCs (SWAYAM/NPTEL/ institute MOOCs). The pool of courses as recommended by the respective BoS / department before the commencement of semester, will be applicable as per the prevailing practice in the institute under the provision of Minor specialization</b></p> <p><b><u>The house approved the proposal</u></b></p>
Item: AC-7	<p>To consider the proposal for provisioning Research Internship at UG Engineering level (after VI Semester) under the faculty of the institute</p> <p><b>It was proposed that, in order to further promote the research activities in the institute, the provision of Research Internship at UG Engineering level (after VI Semester) may be offered to the students under the faculty members of the institute. This provision will be the part of Summer Internship Program –III</b></p> <p><b><u>The house approved the proposal</u></b></p>
Item: AC-8	<p>To approve the Novel Engaging Courses (NECs) and relating course contents under the Holistic Education initiative</p> <p><b>The house was informed that, as a part of Holistic Education initiative under NEP 2020, the institute has concluded a list of 157 Novel Engaging Courses along with the course contents, focusing on many areas. In addition, 24 new courses are being added in the list to be offered during the July-December 2023 semester.</b></p> <p><i>The complete list of Novel Engaging Courses is annexed as <u>Annexure-2(a)&amp;2(b)</u></i></p> <p><b><u>The house has noted and appreciated</u></b></p>
Item: AC-9	<p>To consider the proposal to follow SWAYAM/NPTEL platform exam pattern for all the related Institute level examination</p> <p><b>It was proposed that the institute level examination of the SWAYAM/NPTEL courses under various Departmental Electives (DEs) and Open Category (OC) courses must be conducted by following the exact pattern of SWAYAM/NPTEL platform. Accordingly, the assignment, end term exam questionnaire, MCQ etc. will be prepared / conducted by</b></p>


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	<p>the course mentor only and therefore, the exam section will adjust the mechanism / process followed for preparing the question paper.</p> <p><u>The house approved the proposal</u></p>
Item: AC-10	<p>Proposal for the arrangement of courses in the programmes being run by the same department</p> <p>It was proposed that there should be at least 20% variation in the courses/subjects of two or more than two programmes which are being run by the same department. This is to be achieved through Departmental Electives (DEs) and Departmental Core (DC) courses.</p> <p><u>The house approved the proposal</u></p>
Item: AC-11	<p>To ratify the conduction of institute level examination for case specific matters for the courses being offered through SWAYAM/NPTEL platform</p> <p>In the interest of career and looking at the future, following students were allowed to appear in the institute level examination (conducted on account of SWAYAM/NPTEL courses).</p> <p>(i) Mr. Rahul Kushwah (0901EC181070) (ii) Mr. Aditya Vikram Sharma (0901AU181003)</p> <p>It was proposed to grant permission for considering their institute level examination.</p> <p>Further, it was proposed that along with the students re-appearing for NPTEL courses (as per minutes of AC dated 7<sup>th</sup> December, 2019, Item no. AC-5, (d) (i)), the previous batch students (admitted previous to the current running batch in any particular year) will also be eligible to appear for the institute level examination of the NPTEL-MOOC courses to avoid discrepancy in the SWAYAM/NPTEL/MOOC courses of previous year with courses available for registration in the present year.</p> <p><u>The house has noted and approved</u></p>
Item: AC-12	<p>To review and approve the minutes of meeting /proceedings of the Board of Studies (BoS) of various departments/disciplines held in the month of June 2023.</p> <p>The deliberation of Board of Studies were presented by the HoDs / Chairpersons / Coordinators of the following departments:</p> <p>[Civil, Mechanical, Electrical, Electronics, Computer Science &amp; Engineering, Information Technology, Engineering Mathematics and Computing, Chemical Engineering, Architecture, Applied Sciences, Humanities, Management Studies].</p> <p>The presentation covered the Agenda items of the respective BoS, as per the <u>Annexure-3</u></p> <p><u>The house approved the minutes and recommendations made by different Board of studies (BoS)</u></p>

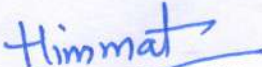


The meeting ended with the vote of thanks to the chair

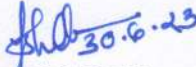
  
(Prof. Anish P. Jacob)

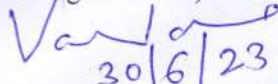
  
(Prof. Prabhakar Sharma)

  
(Dr. Anjula Gaur)


  
(Dr. Himmat Singh Ahirwar)


  
(Dr. Sanjeev Khanna)


  
(Dr. Anjali S. Patil)

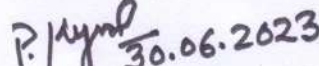
  
(Dr. Vandan Vikas Thakare)

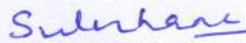
  
(Dr. Vikas Shinde)

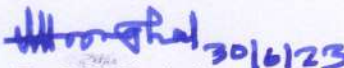
  
(Dr. Manish Dixit)


  
(Dr. Akhilesh Tiwari)  
Member Secretary


  
(Dr. M.K. Gaur)


  
(Dr. Pratesh Jayaswal)

  
(Dr. Sulochana Wadhvani)

  
(Dr. P.K. Singhal)

  
(Dr. M. K. Trivedi)

  
(Dr. R. Kansal)

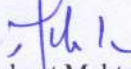
  
(Dr. Manjaree Pandit)  
Dean Academics

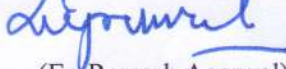
*Present on line*  
(Prof. Lalit Kumar Awasthi)  
External Expert


*Present on line*  
(Prof. Mahesh Chandra Govil)  
External Expert

*Present on line*  
(Dr. Rommel Mehta)  
External Expert

*Present on line.*  
(Prof. Mohan Sen)  
External Expert

  
(Shri. Prashant Mehta)  
Member, BoG

  
(Er. Ramesh Agarwal)  
Member, BoG

  
(Dr. R. K. Pandit)  
Director



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Annexure- 2(a)

**LIST OF NOVEL ENGAGING COURSES (2021-22 & 2022-23)**

S.No.	Course Name & Code	Mentor	Mentor Deptt.
1	3D Printing (2000001)	Gavendra Norkey	ME
2	Amateur Radio Communication (2000002)	Vandana Vikas Thakare	EE
3	Design Skills Using Simulation Software (2000003)	Sharad Agrawal	ME
4	Data Analysis Skills (2000004)	D.K. Jain	MAC
5	Equipment Calibration* - I (2000005)	Abhilash Shukla	CE
6	Equipment Calibration* - II (2000006)	Abhilash Shukla	CE
7	Robotics (2000007)	Karuna Markam	EC
8	Vehicular Skill Development (2000008)	Vedansh Chaturvedi	ME
9	Animation (2000009)	Amit Manjhvar	CSE
10	Digital Learning* - I (2000010)	Punit Kumar Johari	IT
11	Digital Learning* - II (2000011)	Punit Kumar Johari	IT
12	Elements of Photographic Skills (2000012)	D.K. Parsediya	EC
13	Environment Protection* - I (2000013)	Aditya K. Agarwal	CE
14	Environment Protection* - II (2000014)	Aditya K. Agarwal	CE
15	Fire Prevention & Preparedness (2000015)	Jyoti Vimal	ME
16	National Service Scheme** (NSS) - I (2000016)	Manish Sagar	NSS
17	National Service Scheme** (NSS) - II (2000017)	Manish Sagar	NSS
18	National Service Scheme** (NSS) - III (2000018)	Manish Sagar	NSS
19	National Service Scheme** (NSS) - IV (2000019)	Manish Sagar	NSS
20	National Cadet Corps** (NCC) - I (2000020)	B.P.S. Bhadoria	NCC
21	National Cadet Corps** (NCC) - II (2000021)	B.P.S. Bhadoria	NCC
22	National Cadet Corps** (NCC) - III (2000022)	B.P.S. Bhadoria	NCC
23	National Cadet Corps** (NCC) - IV (2000023)	B.P.S. Bhadoria	NCC
24	Mentoring Skills** - I (2000024)	Sapna Kumari	Counselling Cell
25	Mentoring Skills** - II (2000025)	Sapna Kumari	Counselling Cell
26	Mentoring Skills** - III (2000026)	Sapna Kumari	Counselling Cell
27	Mentoring Skills** - IV (2000027)	Sapna Kumari	Counselling Cell
28	Organic Farming (2000028)	Archana Tiwari	CE
29	Signage (2000029)	M.K. Trivedi & Jayvant Choudhary	CE
30	Performing Arts (Dance) (2000030)	Parul Saxena	CSE
31	Performing Arts (Music) (2000031)	Shourabh Bhattacharya	App.Sc.
32	Games & Sports** - I (2000032)	B.P.S. Bhadoria	Sports
33	Games & Sports** - II (2000033)	B.P.S. Bhadoria	Sports
34	Games & Sports** - III (2000034)	B.P.S. Bhadoria	Sports
35	Games & Sports** - IV (2000035)	B.P.S. Bhadoria	Sports
36	Physical Fitness* -I (2000036)	Rajendra Prasad Kori	ME
37	Physical Fitness* -II (2000037)	Rajendra Prasad Kori	MEI
38	Alternative Therapies** - I (2000038)	Sunita Sharma	BT
39	Alternative Therapies** - II (2000039)	Sunita Sharma	BT
40	Alternative Therapies** - III (2000040)	Sunita Sharma	BT
41	Alternative Therapies** - IV (2000041)	Sunita Sharma	BT
42	Holistic Health* - I (2000042)	Vishal Chaudhary	EE
43	Holistic Health* - II (2000043)	Vishal Chaudhary	EE
44	Artistry* - I (2000044)	Pooja Sahoo	EC
45	Artistry* - II (2000045)	Pooja Sahoo	EC
46	Sculpture Making* - I (2000046)	Pranshi Jain	Arch.
47	Sculpture Making* - II (2000047)	Pranshi Jain	Arch.
48	English Literary Skills (2000048)	Sanjeev Khanna	Humanities
49	Hindi Language Skills (2000049)	A.S. Ojha	MAC
50	Preliminary Journalism Skills (2000050)	Anish P. Jacob	CM
51	Short Story Writing (2000051)	C.S. Malvi	ME
52	Food and Nutrition (2000052)	Anjula Gaur	App. Sc.
53	Career Guidance & Preparedness (2000053)	Praveen Bansal & Swati Gupta	EE & CM.

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54	Managing Mannerism* - I (2000054)	Sapna Kumari	Counselling Cell
55	Managing Mannerism* - II (2000055)	Sapna Kumari	Counselling Cell
56	Personality Development* - I (2000056)	Anjali S Patil	Arch.
57	Personality Development* - II (2000057)	Anjali S Patil	Arch.
58	Public Speaking* - I (2000058)	Manish Dixit & Ankita Sengar	CSE
59	Public Speaking* - II (2000059)	Manish Dixit & Ankita Sengar	CSE
60	Coding Skills** - I (2000060)	Rajni Ranjan Singh	CSE
61	Coding Skills** - II (2000061)	Rajni Ranjan Singh	CSE
62	Coding Skills** - III (2000062)	Rajni Ranjan Singh	CSE
63	Coding Skills** - IV (2000063)	Rajni Ranjan Singh	CSE
64	Emerging Technologies in Computer Science (2000064)	Mahesh Parmar	CSE
65	Pythons of Programming (2000065)	Prabhakar Sharma	MAC
66	Software Development** - I (2000066)	Atul Chauhan	Data Resource
67	Software Development** - II (2000067)	Atul Chauhan	Data Resource
68	Software Development** - III (2000068)	Atul Chauhan	Data Resource
69	Software Development** - IV (2000069)	Atul Chauhan	Data Resource
70	Photo Editing Software: Adobe Photoshop (2000070)	Versha Sinha	Arch.
71	Basics of Technical Analysis in Stocks (2000071)	Ankit Kumar	Arch.
72	Graphic Design (2000072)	Satyam Shukla	Arch.
73	World Heritage Sites: A Brief Overview (2000073)	Richa Mishra	Arch.
74	Basic and Advanced Excel (2000074)	Abhilash Shukla	CE
75	Shilpa Samhita : Philosophy of Indian Ancient Geotechnical Engineering (2000075)	Chayan Gupta	CE
76	Fire Safety and Regulation in Building (2000076)	Hemant Shrivastava	CE
77	Developments in Pavement Construction: Past to Future (2000077)	Jayvant Choudhary	CE
78	SPSS For Data Analysis (2000078)	Prachi Singh	CE
79	Study Smart and Effectively (2000079)	Renuka Darshyamkar	CEI
80	Shutter Up-Flash Me Photography (2000080)	Shourabh Raghuwanshi	CM
81	Science and Technology Around Us (2000081)	Rakesh Dubey	CM
82	Discipline and Decorum (2000082)	R.S. Jadon	CSE
83	Cloud Computing: Techniques & Tools (2000083)	Mir Shahnawaz Ahmad	CSE
84	Role of MATLAB in Computations (2000084)	Ranjit Kumar Singh	CSE
85	Demystifying Online Social networks (2000085)	Arun Kumar	CSE
86	Knowing Madhya Pradesh (2000086)	Anjula Mehto	CSE
87	Smart World Technology (2000087)	Kalka Dubey	CSE
88	Gender Sensitization (2000088)	Anshu Chaturvedi	CSE
89	IT Tools (2000089)	Abhishek Dixit	IT
90	Understanding Financial Markets (2000090)	Saamil Maheshwari	IT
91	Intellectual Property : Rules, Drafting and Processing (2000091)	Vikram Rajpoot	IT
92	Value Education (2000092)	Yogeshwar Dadwhal	IT
93	Modern techniques for business correspondence (2000093)	Namrata Agrawal	IT
94	Integrating Engineering and Literacy (2000094)	Tej Singh	IT (AIR)
95	Imbalance Learning (2000095)	Bhagat S. Raghuwanshi	IT (AIR)
96	Python for Image processing applications using OpenCV (2000096)	Pawan Dubey	IT (AIR)
97	Role of LaTeX in Technical Writing (2000097)	Dhananjay Bisen	IT (IoT)
98	MATLAB: Applications in Mathematical Biology (2000098)	Divya Chaturvedi	MAC
99	Basics and Applications of Mathematica (2000099)	Atul Kumar Ray	MAC
100	Technical Report Writing for Engineers (200100)	Minakshi	MAC
101	Proficiency in Microsoft Excel (200101)	Nikhil Paliwal	EE
102	Fundamentals of Electronics Devices (200102)	Manoj Kumar	EE
103	Microsoft Visio: Scratch to Advance (200103)	Bhavna Rathore	EE
104	Technology, Science, Innovation, and Society (200104)	Ankit Tiwari	EE
105	Basic Course in LaTeX (200105)	Vikram	EE
106	Renewable Energy Technology: Domestic load requirements (200106)	Rahul Sagwal	EE
107	Electrical Wiring, hazards & safety (200107)	Saurabh Rajput	EE
108	Basics of MATLAB Programming (200108)	Sandeep Sharma	EC
109	Basic Programming of Python using Google Colab (200109)	Hemant Choubey	EC
110	LT Spice Tutorial for Circuit Simulation (200110)	Vikas Mahor	EC
111	Research Paper Writing (200111)	Dinesh Rano	EC
112	Music - The Melody of Life (200112)	Shubhi Kansal	EC
113	Introduction to Entrepreneurship: Challenges and Opportunities (200113)	Varun Sharma	EC
114	Understanding Logic Gates (200114)	Rahul Dubey	EC
115	MATLAB Simulink (200115)	Deepak Batham	EC

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**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

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**Annexure- 2(b)****LIST OF NOVEL ENGAGING COURSES (to be added in July-Dec., 2023)**

Sr.	Course Name & Code	Mentor	Mentor Deptt.
1	Arduino: Getting Started with IoT (2000158)	Bhavna Rathore	EE
2	Control System Design using MATLAB (2000159)	Vikram Saini	EE
3	Creative Writing (2000160)	Preeti Gupta	App. Sc.
4	E-commerce Supply Chain (2000161)	Nookala Venu	IT
5	Electrical Home Appliances (2000162)	Sunil Kumar Shukla	IT-AIML
6	Fundamental of Transfer Function (2000163)	Sushmita Chaudhari	EC
7	Fundamentals of R Programming (2000164)	Kritika Bansal	IT-AIML
8	High Frequency Structure Simulator (2000165)	Priyanka Garg	ITIOT
9	Inculcating Universal Human Values in Technical Education (2000166)	Smita Parte	CSE
10	Internet as Social Media (2000167)	Shubha Mishra	IT-AIR
11	JIRA Agile Project Management (2000168)	Gagandeep Kaur	CSD
12	Materials Characterization Techniques (2000169)	Surendra Kumar Chourasiya	ME
13	Microsoft word and PowerPoint for Beginners (2000170)	Pooja Sahoo	EC
14	Programming Skills* - I (2000171)	Rajni Ranjan Singh/Jigyasa Mishra	CSE
15	Real-Time Big Data Processing: Concepts, Techniques & Applications (2000173)	Devesh Kumar Lal	CSD
16	Scientific Research Writing (2000174)	Divya Chaturvedi	MAC
17	Scientific Temperament of Indian Thoughts and Traditions (2000175)	Ashok Kumar Sharma	App. Sc.
18	Smart Sensing and Intelligent Systems (2000176)	Anshika Srivastava	IT-AIDS
19	Solving Problems Using Modelling and Simulation (2000177)	Kuldeep Narayan Tripathi	CSD
20	The Art of Mandala Meditation (2000178)	Vibha Tiwari	IT-AIDS
21	The Art of Technical Analysis: Decoding Market Patterns (2000179)	Gaurav Khare	EEIOT
22	Umpiring of Sports (2000180)	External Mentor	Sports
23	Probability and Statistics (2000181)	Rohit Agrawal	CSD

\* Programming Skills – II will be offered in Jan.-June 2024 semester

(2000172)


  
**(Dr. Rajeev Kansal)**  
Dean Student Welfare







Table I: Attendance Weightage based on Semester-wise Learning Efforts in each Course Component in hours (Approximated)

Semester/ Course Component	Classroom Efforts	Extra Learning Effort									
		Natural Science & Skills	SWAYAM/ NPTEL/ MOOCs	SIP	Minor Project	NEC	MAC	Internship (if applicable)	PDC	Experiential Learning	Total Extra Learning Efforts
I	336	28	-	-	-	-	-	-	42	-	70
II	364	28	-	-	-	-	-	-	42	-	70
III	448	28	20	60	-	28	28	-	28	-	192
IV	364	28	-	-	-	28	28	-	28	-	112
V	518	-	20	90	56	28	28 x 2	-	28	48	326
VI	406	-	60	-	56	28	28	-	28	48	248
VII	336	-	60 x 2	150	-	-	28	-	56	48	402
VIII (With Internship)	56	-	60 x 2	-	-	-	-	252	28	-	400
VIII (With Project)	308	-	60 x 2	-	-	-	-	-	28	-	148

Table II: Attendance Weightage based on Semester-wise Learning Efforts in each Course Component in percentage (Approximated)

Semester/ Course Component	Classroom Efforts	Extra Learning Effort									
		Natural Science & Skills	SWAYAM/ NPTEL/ MOOCs	SIP	Minor Project	NEC	MAC	Internship (if applicable)	PDC	Experiential Learning	Total Extra Learning Efforts
I	82.75%	6.9%	-	-	-	-	-	-	10.35%	-	17.25%
II	83.87%	6.46%	-	-	-	-	-	-	9.67%	-	16.13%
III	70%	4.4%	3.1%	9.4%	-	4.3%	4.3%	-	4.4%	-	30%
IV	76.4%	5.9%	-	-	-	5.9%	5.9%	-	5.9%	-	23.6%
V	61.37%	-	2.4%	10.7%	6.6%	3.3%	3.3% x 2	-	3.3%	5.6%	38.5%
VI	62.07%	-	9.1%	-	8.5%	4.3%	4.3%	-	4.3%	7.4%	37.93%
VII	45.5%	-	8.1% x 2	20%	-	-	3.8	-	7.5%	6.5%	54.45%
VIII (With Internship)	12.28%	-	13.15% x 2	-	-	-	-	55.26%	6.15%	-	87.71%
VIII (With Project)	67.54%	-	13.15% x 2	-	-	-	-	-	6.15%	-	32.45%





**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA**  
**माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत**

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The attendance weightage towards semester-wise classroom efforts and extra learning efforts (as mentioned under (1) and (12)) against various components have been computed using the following formulae:

*course weightage towards extra learning efforts =*

$$\frac{\text{Course component effort (hrs)}}{\text{Classroom effort (hrs) + Extra learning effort (hrs)}} \times 100\%$$

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