# MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

## Skills Enhancement Program (SEP)-2022

Name of Department	Department of Mechanical Engineering		
Module Name	Mechanical Engineering Recent Aspects and Applications		
<b>Module Coordinators</b>	1. Prof. Utkarsh Srivastava		
	2. Prof. Ajay Singh Rajput		
<b>Module Objective</b>	The objective of this online internship is to give the idea about various recent aspects & trends in Mechanical Engineering and its application in the different areas. The contents of the module are different from the syllabus and it is targeted towards industry requirements.		
<b>Module Content</b>	<ol> <li>Automation and Robotics.</li> <li>Industrial Application of Heat Transfer&amp; Refrigeration.</li> <li>Solar Thermal &amp; Solar PV Applications.</li> <li>Condition Monitoring &amp; Material Testing.</li> </ol>		
Module Methodology			
<b>Module Outcome/</b>	Students will be able to:		
Impact	1. Understand recent trends in automation & robotics.		
	2. Understand the concept of industrial heat transfer & refrigeration.		
	3. Understand the basic concept of PV system and its design & applications.		
	4. Understand the condition monitoring system and various parameters of material testing.		
Duration	4 Weeks (20 days)		

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### **Skills Enhancement Program (SEP)-2022**

	Day Wise Schedule				
	Date	Day	Module Contents to be covered/Interactive Session/Assignment/Quiz/Exercises/Daily practice sheets (DPP)/Tutorial/Project etc(10:00 AM onward, 2-3 Hrs/ Day)	Faculty	
Week 1	13/06/2022	Mon	Automation I	Dr. G. Norkey& Mr. Ajay Rajput	
	14/06/2022	Tue	Automation II	Dr. G. Norkey& Mr. Ajay Rajput	
	15/06/2022	Wed		Dr. G. Norkey&Mr. Ajay Rajput	
	16/06/2022	Thur		Dr. G. Norkey& Dr. Neeraj Mishra	
	17/06/2022	Fri		Dr. G. Norkey& Dr. Neeraj Mishra	
Week 2	20/06/2022	Mon	Industrial Application of Heat Transfer-I	Dr. Jyoti Vimal	
	21/06/2022	Tue	Industrial Application of Heat Transfer-II	Dr. Jyoti Vimal	
	22/06/2022	Wed	Industrial Application of Refrigeration-I	Prof. Bhupendra Pandey	
	23/06/2022	Thur	Industrial Application of Refrigeration-II	Prof. Bhupendra Pandey	
	24/06/2022	Fri	Industrial Application of Refrigeration-III	Prof. Bhupendra Pandey	
Week 3	27/06/2022	Mon	Solar Thermal Application-I	Dr. M.K. Gaur & Prof. Vedansh Chaturvedi	
	28/06/2022	Tue	Solar Thermal Application-II	Dr. M.K. Gaur & Prof. Vedansh Chaturvedi	
	29/06/2022	Wed	Design and Simulation I notovoltate plant	Dr. C.S. Malvi	
	30/06/2022	Thur	Effect of Dust and its maintenance activities	Dr. C.S. Malvi	
	01/07/2022	Fri	Schemes for Installation of Solar Power Plant	Dr. C.S. Malvi	
Week 4	04/07/2022	Mon	Condition Monitoring-I	Dr. Nitin Upadhyay	

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	05/07/2022	Tue	Condition Monitoring-II	Dr. Nitin Upadhyay
	06/07/2022	Wed	Condition Monitoring-III	Dr. Nitin Upadhyay
	07/07/2022	Thur	Material Testing-I	Prof. Vaibhav Shivhare
	08/07/2022	Fri	Material Testing-II	Prof. Vaibhav Shivhare

### Skills Enhancement Program (SEP)-2022

Module Coordinators Email Id and Mobile Number	<ol> <li>utkarsh@mitsgwalior.in, 6260044242</li> <li>asrajput1992@mitsgwalior.in, 9691819843</li> </ol>
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#### **Eligibility and Important Instructions:**

- **1.** The **Skills Enhancement Program** (**SEP**)**-2022**is designed only for Pre-final & Final Year students of Mechanical Engineering Department.
- 2. The students may apply online.
- 3. The Skills Enhancement Program (SEP)-2022/ Summer Internship Program is free for the participants of Pre-final & Final year students of MITS, Gwalior.
- 4. The participants outside the Institute may also join the Program on payment basis.
- 5. This blended/offline module will be conducted under the **Skills Enhancement Program** which will be considered equivalent to Offline Internship of Pre-final year students who could not get any Internship during this situation.
- 6. Duration of this program will be of four weeks which is equivalent to summer Internship period as per AICTE and our Institute policy. Daily no. of hours of blended/offline training may be flexible.
- 7. Certificates will be issued to candidates who have attendance 75% or more and also score more than 60% in the test.