Workshop on Mechanical Engineering Skill Orientation

Activity Report

Academic Year	2023-24
Program Driven by	Workshop on Mechanical Engineering Skill Orientation
Quarter	IV
Program / Activity Name	Workshop on Mechanical Engineering Skill Orientation
Program Type	Innovation and Ideation
Program Theme	
Start Date	26-08-2024
End Date	31-08-2024
Duration of the Activity (in Hrs)	30
Number of Student Participant	120
Number of Faculty Participant	14
Number of external Participant	--
Expenditure Amount in Rs.	
Any Remark	--
Mode of Session Delivery	Offline
Objective	Please find in attached sheet
Benefit in terms of Learning / Skills / Knowledge obtained	Please find in attached sheet
Feedback	Nice Session
Video url (mp4)	
Photograph 1 (jpg)	Attached
Photograph 2 (jpg)	Attached
Overall report of the Activity (pdf)	As given below

Coordinator

Dr. P. H. Zope

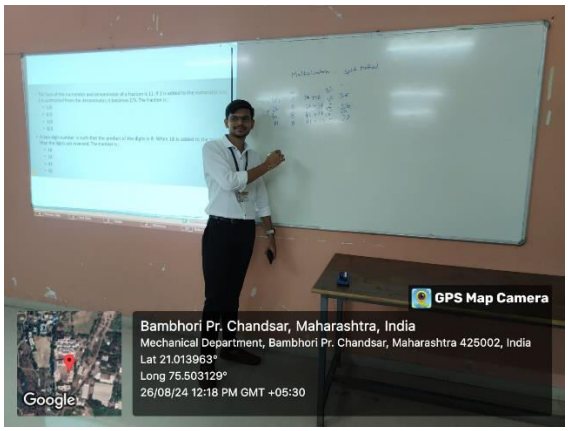
Department of Mechanical Engineering

SSBT's College of Engineering & Technology
Bambhori, Jalgaon 425001
Approved by AICTE Delhi, Affiliated to KBCNMU Jalgaon
Included under Section 2(f) & 12(B) of the UGC Act 1956
Ph. No. - 0257-2258393(Ext. 218)

Add-on Course on "Mechanical Engineering Skill Orientation" from 26 Aug to 31 Aug 2024

Date & Venue	26th Aug to 31st Aug 2024 CAD/CAM Lab, Department of Mechanical Engineering
Aim/ Purpose	The primary aim of the Add-on Course was to enhance students' technical and analytical skills by providing in-depth knowledge and practical exposure to essential tools like MS Office, Python, Aptitude, and AI tools. The purpose was to equip students with industry-relevant skills that are highly valued in various professional domains, thereby increasing their employability and readiness for the job market.
Objectives	➢ To familiarize students with advanced functionalities of MS Office, focusing on Excel, Word, and PowerPoint. ➢ To introduce Python programming, emphasizing its applications in data analysis, automation, and problem-solving. ➢ To develop students' aptitude skills, improving their logical reasoning, quantitative abilities, and verbal reasoning. ➢ To provide insights into AI tools, demonstrating their practical applications in different industries. ➢ To enable students to integrate these tools into their academic and professional tasks efficiently.
Participants	SE, TE and BE Students of Mechanical Engineering
Description about the Program	The Add-on Course was conducted over six days, from 26th August to 31st August 2024. Each day was dedicated to a specific topic, with a blend of theoretical sessions and hands-on workshops. The course was designed to provide to both beginners and intermediate-level students, ensuring that all participants could benefit regardless of their prior knowledge. • **MS Office** The sessions on MS Office covered advanced features of Excel, Word, and PowerPoint. Students learned about data manipulation, creating complex spreadsheets, using macros in Excel, advanced formatting, and report generation in Word, and designing impactful presentations in PowerPoint. • **Python Programming** These sessions introduced Python, covering basics such as data types, control structures, and functions, followed by more advanced topics like libraries for data analysis (Pandas, NumPy), and automation scripting. The hands-on sessions allowed students to work on real-life scenarios to solidify their understanding. • **Aptitude Skills** The aptitude session focused on improving students' logical reasoning, quantitative analysis. Various practice problems and mock tests were conducted to help students assess and enhance their skills. • **AI Tools**

	The final day introduced students to various AI tools, such as machine learning platforms, natural language processing tools, and AI-driven data analytics. Demonstrations of AI applications in different fields like marketing, finance, and healthcare were provided to show the practical uses of these tools.
Outcomes	➢ **Enhanced Skills:** Students gained a command over MS Office, Python, Aptitude, and AI tools, making them more competent in handling academic and professional tasks. ➢ **Practical Knowledge:** The hands-on sessions provided students with practical experience, enabling them to apply the knowledge gained in real-world scenarios. ➢ **Increased Employability:** The course significantly boosted students' employability by equipping them with skills that are in high demand in the job market. ➢ **Confidence Building:** Students reported increased confidence in using these tools, which they believe will aid in their future projects, internships, and job roles.
Recommendations	➢ **Continuous Practice:** Students should be encouraged to practice regularly and apply these skills in their academic projects or internships to retain and refine their knowledge. ➢ **Feedback Mechanism:** Implementing a feedback mechanism post-course can help in understanding the areas of improvement for future iterations of the course.



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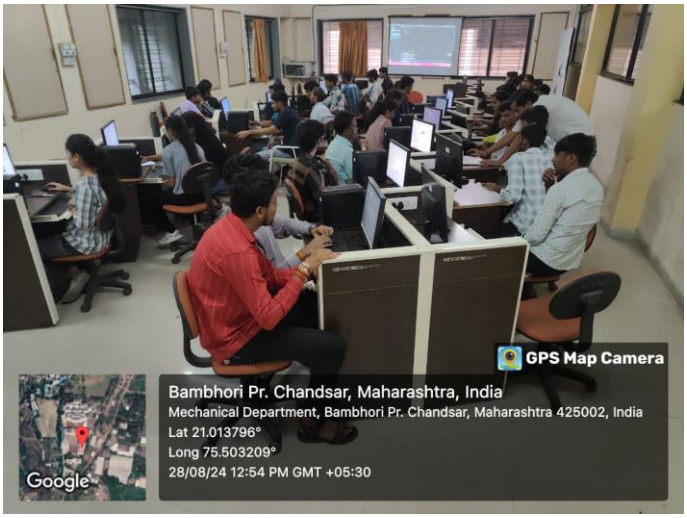

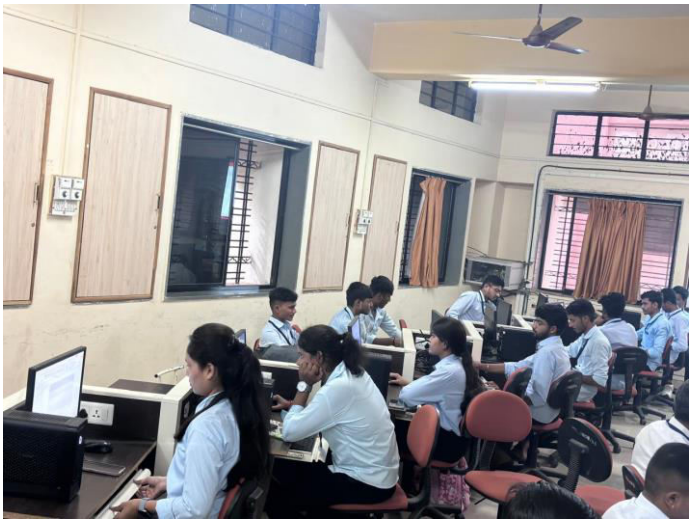

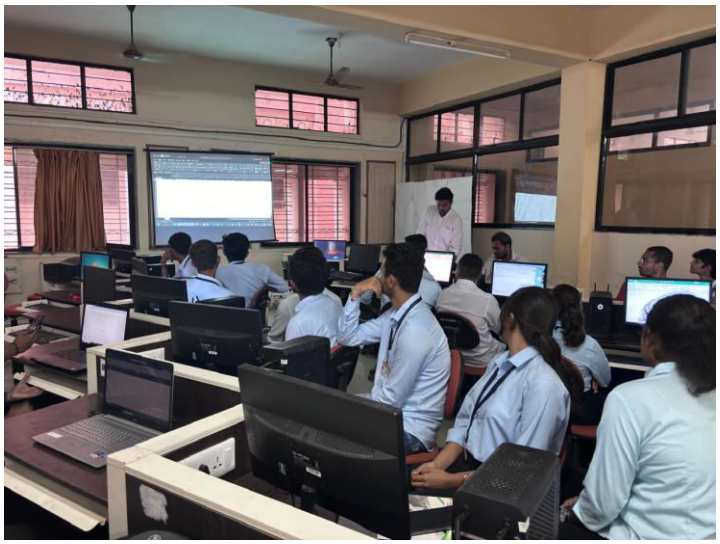

Vision: "To nurture the students by providing high quality broad-based technical education for global societal development and continuous improvement in value-added knowledge."

Mission: "To nurture the Mechanical engineers at par excellence to meet global and societal development with quality education and progressive technology"

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Add-on course module

Date	Time	Topics	Trainer
26-08-2024	11.00 am - 12.00 pm	General Aptitude	G Rajput + PGD
	12.00 pm - 01.00 pm	General Aptitude	G Rajput + DBS
	02.00 pm - 03.00 pm	MS EXCEL- Introduction, Formatting, Simple functions	G Sapkale + PMS
	03.00 pm - 04.00 pm	MS POWERPOINT- Setting up Power Point, Creating Slides	Sidhant + NKP
	04.00 pm - 05.00 pm	MS WORD - Text Basics, Text Formatting, Working with Objects	G Dusane + ARB
27-08-2024	11.00 am - 12.00 pm	General Aptitude	G Rajput + PGD
	12.00 pm - 01.00 pm	General Aptitude	G Rajput + KS
	02.00 pm - 03.00 pm	MS EXCEL- Sort and Filter data	Shweta + DBS
	03.00 pm - 04.00 pm	MS POWERPOINT- Alignment text, Text Directions, column option, working with objects	Sidhant + ARB
	04.00 pm - 05.00 pm	MS WORD – Header & Footers, Bullets, numbers, Merging documents	G Dusane + NKP
28-08-2024	11.00 am - 12.00 pm	Python Programming	Prof. S H Rajput
	12.00 pm - 01.00 pm	Python Programming	Prof. S H Rajput
	02.00 pm - 03.00 pm	MS EXCEL- Creating Effective Charts	Shweta + ARB
	03.00 pm - 04.00 pm	MS POWERPOINT- Hyperlinks and Action buttons, working with Movies and sounds	G. Dusane + NKP
	04.00 pm - 05.00 pm	MS EXCEL- Analyze Data	Shweta + PMS
29-08-2024	11.00 am - 12.00 pm	Python Programming	Prof. S H Rajput
	12.00 pm - 01.00 pm	Python Programming	Prof. S H Rajput
	02.00 pm - 03.00 pm	MS EXCEL- Protecting and Sharing	Chanchal + KS
	03.00 pm - 04.00 pm	MS POWERPOINT-Working with Table and Smart Art, Animation and Slide Transition	G Dusane + DBS
	04.00 pm - 05.00 pm	MS EXCEL- Creating and Recording Macros	Chanchal + ARB
30-08-2024	11.00 am - 12.00 pm	Python Programming	Prof. S H Rajput
	12.00 pm - 01.00 pm	Python Programming	Prof. S H Rajput
	02.00 pm - 03.00 pm	AI Tools - Goblin, Quillbot	Dr. D. C. Talele
	03.00 pm - 04.00 pm	MS EXCEL- Proofing and Printing	Chanchal + PMS
	04.00 pm - 05.00 pm	MS POWERPOINT-Slide Master, Slide show options	G Dusane + KS
31-08-2024	11.00 am - 12.00 pm	Python Programming	Prof. S H Rajput
	12.00 pm - 01.00 pm	Python Programming	Prof. S H Rajput
	02.00 pm - 03.00 pm	AI Tools – Magic School	Dr. D. C. Talele
	03.00 pm - 04.00 pm	MS EXCEL- Data analysis	Chanchal + ARB
	04.00 pm - 05.00 pm	MS POWERPOINT-Proofing and Printing	G Dusane + PGD

Prajitsen Gulabrao damle
HOD

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