B.M.S. COLLEGE OF ENGINEERING, BENGALURU

Autonomous Institute, Affiliated to VTU

Department of Chemical Engineering

1. **Name of the Department:** Chemical Engineering
2. **Name of the Activity:** Two-Day Workshop on "AI Tool Integration to Automate Research in Academics"
3. **Objectives:**
    a) To introduce students to AI tools that enhance and automate various stages of academic research.
    b) To provide hands-on experience with AI applications in literature review, academic writing, data visualization, and manuscript preparation.
    c) To encourage the adoption of modern, technology-driven research methodologies.
    d) To build interdisciplinary collaboration between Chemical Engineering and Computer Science domains.

4. **Date:** 07th & 08th April 2025
   Time: 2 PM to 4:30 PM (both days)
   Venue: Seminar Hall, Department of Chemical Engineering, BMS College of Engineering, Bengaluru

5. **Brief summary of the Programme:**
   The IIChE-BMSCE Student Chapter, successfully conducted a two-day workshop titled "AI Tool Integration to Automate Research in Academics" on the 7th and 8th of April 2025. The workshop's primary objective was to equip students with practical knowledge of modern AI tools that can significantly streamline and enhance various stages of academic research. Spanning across two days, the workshop was designed to offer both theoretical understanding and practical demonstrations.
   On Day 1, participants were introduced to foundational concepts of Artificial Intelligence and its applications in academia. Sessions covered topics such as AI-based academic writing assistance, generating graphical abstracts using SVG tools, and automated data visualization techniques using Python. These sessions emphasized real-

time applications and included live demonstrations of interactive chart creation and AI-driven research tools.

Day 2 shifted focus towards optimizing academic writing and research publication workflows. Participants explored AI-powered tools for literature review automation, citation and reference management, manuscript formatting, plagiarism detection, and journal selection processes. The day also featured extended hands-on sessions involving Python-based automation for data analysis, showcasing how coding and AI can simplify repetitive and time-consuming research tasks.

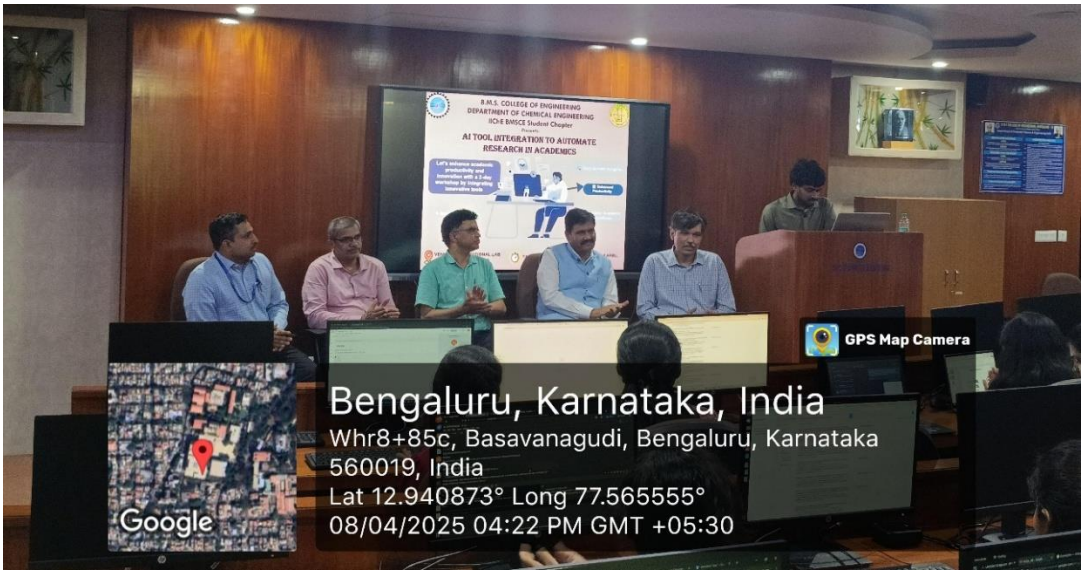
The resource persons—Dr. Siva Kiran RR (Ramaiah Institute of Technology), Dr. Selva Kumar S, and Dr. Manjunath D R (both from the Department of Computer Science and Engineering, BMSCE)—brought in interdisciplinary expertise that bridged Chemical Engineering and Computer Science. Their sessions were interactive, engaging, and deeply informative.

Participants were actively involved in hands-on demonstrations, Q&A sessions, and collaborative discussions throughout the event. The feedback was overwhelmingly positive, with attendees appreciating the workshop's practical orientation, relevance to modern academic challenges, and the high-quality expertise of the speakers.

In conclusion, the workshop marked a significant step toward digital empowerment in academia. It highlighted the urgent need to integrate AI tools into traditional research frameworks and positioned BMSCE as a pioneer in driving such forward-thinking initiatives. The success of the event reflects the commitment of the Department of Chemical Engineering and the IIChE-BMSCE Student Chapter to fostering innovation, interdisciplinary collaboration, and research excellence.

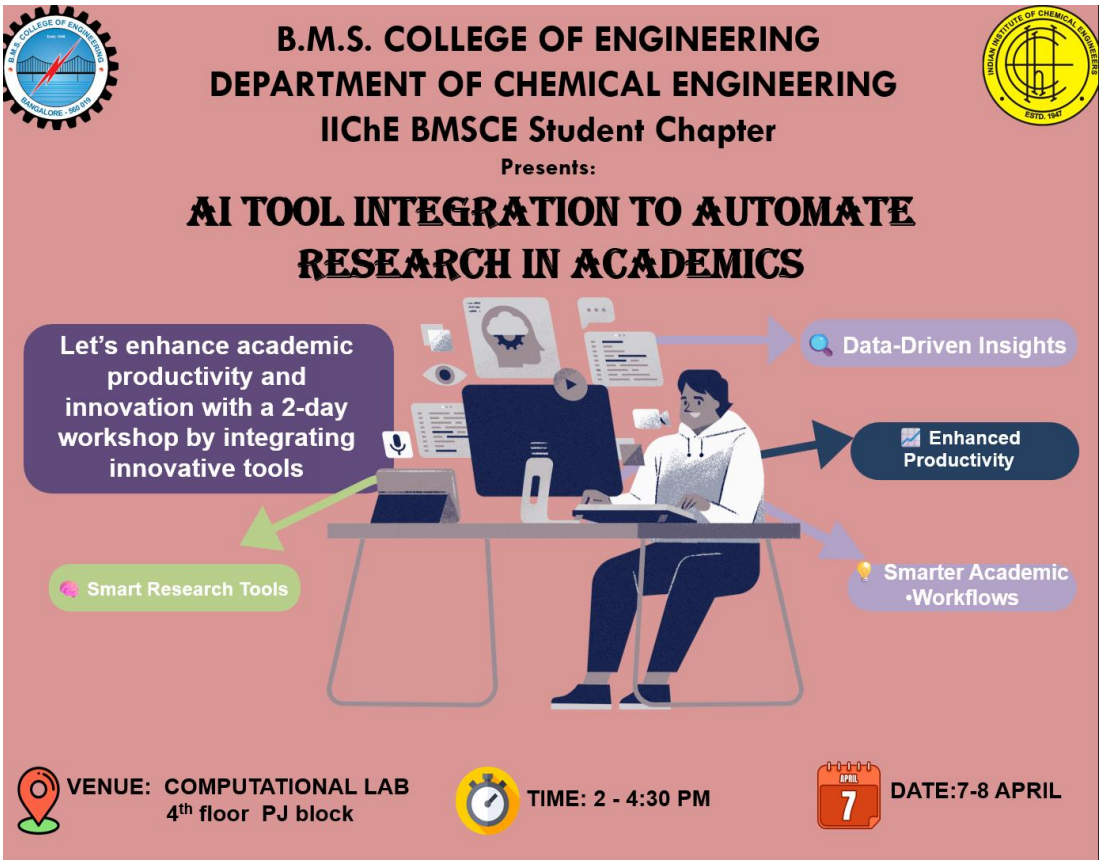
6. **Number of participants**: 47

7. Photographs:




GPS Map Camera
Bengaluru, Karnataka, India
Whr8+85c, Basavanagudi, Bengaluru, Karnataka 560019, India
Lat 12.94087° Long 77.565566°
07/04/2025 02:08 PM GMT +05:30
Google

8. Banner:

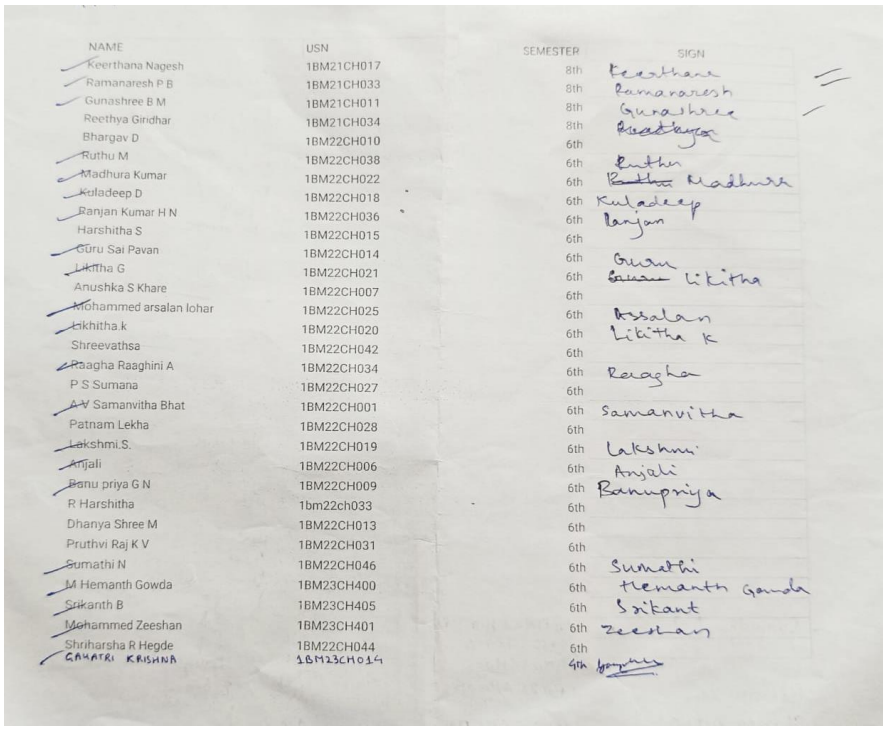

B.M.S. COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
IIChE BMSCE Student Chapter
Presents:
AI TOOL INTEGRATION TO AUTOMATE RESEARCH IN ACADEMICS
Let's enhance academic productivity and innovation with a 2-day workshop by integrating innovative tools
Data-Driven Insights
Enhanced Productivity
Smarter Academic •Workflows
Smart Research Tools
VENUE: COMPUTATIONAL LAB 4th floor PJ block
TIME: 2 - 4:30 PM
DATE:7-8 APRIL

B.M.S. COLLEGE OF ENGINEERING, BENGALURU

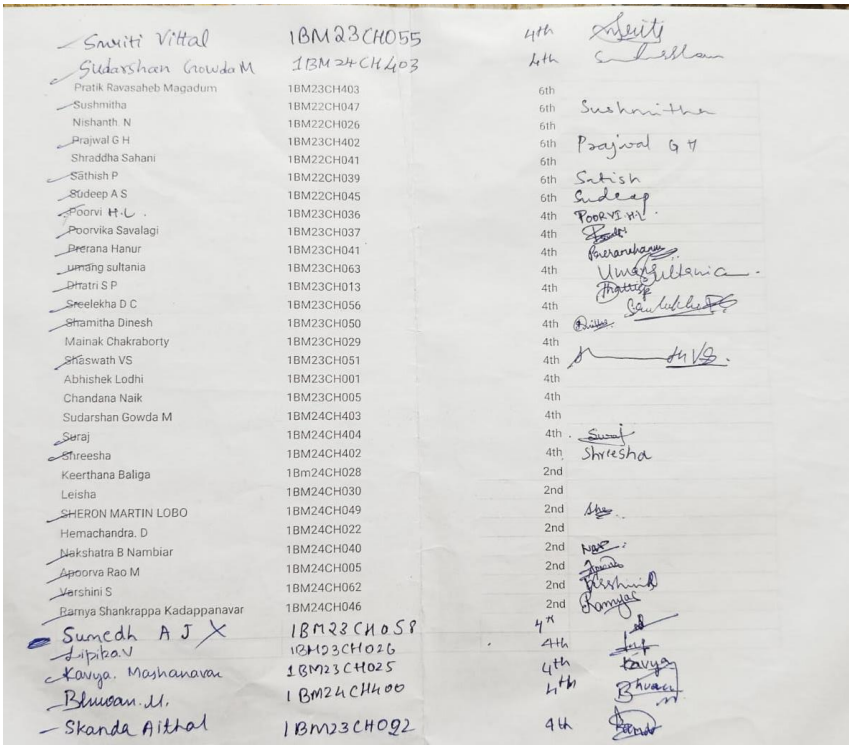
Autonomous Institute, Affiliated to VTU

Department of Chemical Engineering

9. Attendance Copy



NAME	USN	SEMESTER	SIGN
Keerthana Nagesh	1BM21CH017	8th	Keerthana
Ramanaresh P B	1BM21CH033	8th	Ramanaresh
Gunashree B M	1BM21CH011	8th	Gunashree
Reethya Giridhar	1BM21CH034	8th	Reethya
Bhargav D	1BM22CH010	6th	
Ruthu M	1BM22CH038	6th	Ruthu
Madhura Kumar	1BM22CH022	6th	Madhura
Kuladeep D	1BM22CH018	6th	Kuladeep
Ranjan Kumar H N	1BM22CH036	6th	Ranjan
Harshitha S	1BM22CH015	6th	
Guru Sai Pavan	1BM22CH014	6th	Guru
Likitha G	1BM22CH021	6th	Likitha
Anushka S Khare	1BM22CH007	6th	
Mohammed arsalan lohar	1BM22CH025	6th	Arsalan
Likhitha.k	1BM22CH020	6th	Likitha K
Shreevathsa	1BM22CH042	6th	
Raagha Raaghini A	1BM22CH034	6th	Raagha
P S Sumana	1BM22CH027	6th	
A V Samanvitha Bhat	1BM22CH001	6th	Samanvitha
Patnam Lekha	1BM22CH028	6th	
Lakshmi.S.	1BM22CH019	6th	Lakshmi
Anjali	1BM22CH006	6th	Anjali
Banu priya G N	1BM22CH009	6th	Banupriya
R Harshitha	1bm22ch033	6th	
Dhanya Shree M	1BM22CH013	6th	
Pruthvi Raj K V	1BM22CH031	6th	
Sumathi N	1BM22CH046	6th	Sumathi
M Hemanth Gowda	1BM23CH400	6th	Hemanth Gowda
Srikanth B	1BM23CH405	6th	Srikant
Mohammed Zeeshan	1BM23CH401	6th	Zeeshan
Shriharsha R Hegde	1BM22CH044	6th	
GAYATRI KRISHNA	1BM23CH014	4th	



Smriti Vittal	1BM23CH055	4th	Smriti
Sudarshan Gowda M	1BM24CH403	4th	
Pratik Ravasaheb Magadum	1BM23CH403	6th	
Sushmitha	1BM22CH047	6th	Sushmitha
Nishanth. N	1BM22CH026	6th	
Prajwal G H	1BM23CH402	6th	Prajwal G H
Shraddha Sahani	1BM22CH041	6th	
Sathish P	1BM22CH039	6th	Sathish
Sudeep A S	1BM22CH045	6th	Sudeep
Poorvi H.L.	1BM23CH036	4th	POORVI H.L.
Poorvika Savalagi	1BM23CH037	4th	
Prerana Hanur	1BM23CH041	4th	
umang sultania	1BM23CH063	4th	
Dhatri S P	1BM23CH013	4th	
Sreelekha D C	1BM23CH056	4th	
Shamitha Dinesh	1BM23CH050	4th	
Mainak Chakraborty	1BM23CH029	4th	
Shaswath VS	1BM23CH051	4th	
Abhishek Lodhi	1BM23CH001	4th	
Chandana Naik	1BM23CH005	4th	
Sudarshan Gowda M	1BM24CH403	4th	
Suraj	1BM24CH404	4th	Suraj
Shreesha	1BM24CH402	4th	Shreesha
Keerthana Baliga	1Bm24CH028	2nd	
Leisha	1BM24CH030	2nd	
SHERON MARTIN LOBO	1BM24CH049	2nd	
Hemachandra. D	1BM24CH022	2nd	
Nakshatra B Nambiar	1BM24CH040	2nd	
Apoorva Rao M	1BM24CH005	2nd	
Vershini S	1BM24CH062	2nd	
Ramya Shankrappa Kadappanavar	1BM24CH046	2nd	
Sumedh A J	1BM23CH058	4th	
Lipika V	1BM23CH026	4th	
Kavya. Mashanavar	1BM23CH025	4th	Kavya
Bhuvan. M.	1BM24CH400	4th	Bhuvan
Skanda Aithal	1BM23CH022	4th	