



Maharshi Karve Stree Shikshan Samstha's  
**Cummins College of Engineering  
for Women**

*Sharpening Engineering Acumen with a difference*

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## Criterion 3 – Research, Innovations and Extension

### 3.1.3 Number of Seminars/conferences/workshops conducted by the institution during the year



*Kirind*

**Dr. Milind Khanapurkar**  
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Mouje Sukli (Gupchup), Hingna, Nagpur-441110



**Report  
on  
International Conference on Recent Advances in Science,  
Engineering & Technology  
(RASET-2023)  
(Hybrid Mode Conference)  
29th & 30th September 2023**

**MKSSS's Cummins College of Engineering For Women Nagpur**

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## About the Conference

The objective of 1st International Conference on “Recent Advances in Science, Engineering & Technology” (ICRASET-2023) was to provide platform to share various hypotheses, conclusions, and discoveries from students, researchers, professors, and industry experts. The conference was associated with the knowledge partners like **ASM International, IEEE, IETE, ISTE, CSI and IE. Publication partner CRC Taylor and Francis and indexing partner Scopus** ensured the quality procedure and creates confidence amongst authors to submit and present the quality work in the conference.

This conference completely fulfilled the objective in terms of creating awareness of the changes taking place throughout the spectrum of science, engineering and technology. It gives us an immense pleasure to share that though it was our first international conference, with the help of all dedicated team members and our knowledge partner we had witnessed the smooth conduction of the conference.

## Conference Tracks

<p><b>Track I: Pioneer Engineering in Electronics Engineering</b></p> <ul style="list-style-type: none"> <li>• High Performance Systems &amp; Beyond Internet of Things (IoT)</li> <li>• Antennas &amp; Radar Systems Renewable Energy Harvesting</li> <li>• MEMS, MMIC, CMOS, Nano-fabrication &amp; Computing Materials for Electronic Systems</li> <li>• Cryptography, Information Processing.</li> <li>• AI Techniques in Communication, Satellite, Remote Sensing &amp; GIS Applications, Techniques for high reliability or latency in Communication System.</li> <li>• Smart Sensors &amp; Networks</li> <li>• Biomedical Engineering and Allied Areas</li> <li>• E-mobility &amp; 5G Communication Systems and Beyond</li> </ul>	<p><b>Track III:: Emerging Technologies in Mechanical Engineering</b></p> <ul style="list-style-type: none"> <li>• Design and Manufacturing Engineering,</li> <li>• Materials Science and Engineering</li> <li>• Robotics, Mechatronics and Automation</li> <li>• Industrial and Systems Engineering</li> <li>• Automobile Engineering</li> <li>• Production Technology Quality, Six Sigma</li> <li>• 3D Printing</li> <li>• Advances in Thermal and Fluid Engineering</li> <li>• Advances in Refrigeration, Heating, Ventilation, and Air Conditioning</li> </ul>
<p><b>Track II: Computer Engineering and Information Technology</b></p> <ul style="list-style-type: none"> <li>• Machine Learning, Block Chain &amp; Artificial Intelligence,</li> <li>• Computer Application Networks,</li> <li>• Cyber Security,</li> </ul>	<p><b>Track IV: Emerging Trends in Basic &amp; Applied Sciences</b></p> <ul style="list-style-type: none"> <li>• Chemistry &amp; climate change Green Analytical Chemistry</li> <li>• Photochemistry and photocatalysis Energy Conversion &amp; Storage Waste Management</li> </ul>



<ul style="list-style-type: none"> <li>• Data Science &amp; Data Analytics</li> <li>• Algorithm &amp; data Structure,</li> <li>• Data Logging &amp; Data Mining,</li> <li>• Cloud Computing,</li> <li>• Computer Vision,</li> <li>• Mobile Computing &amp; Adhoc Network, AR / VR,</li> <li>• Natural language Processing Business Intelligence,</li> <li>• Agile Methodologies and scrum, Coding Theory</li> </ul>	<ul style="list-style-type: none"> <li>• Metacognition And Self-Reflection In Technical Education</li> <li>• Quantum Computation Nanotechnology</li> </ul>
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## Inaugural and Valedictory of the Conference

The conference was inaugurated on 29 September morning at the hands of Honorable **Retd Satish Dhawan Chair Professor, IISc, Bangalore Dr Suresh Deshpande, , Dr. PVS Shastry, Secretary MKSSS Pune, Respected LMC Members and Honary Chair Dr. Milind Khanapurkar.** We were fortunate to had Dr. Suresh Deshpande in the campus, who is also senior Research Associate and Consultant at EMU-JNCASR in Bangalore, India. Dr. Deshpande is also recipient of various prestigious awards and have expertise of more than forty years in aerospace technology. In his keynote address, he talked on topic “Forty years of Computational Fluid Dynamics: Past and future directions in IISc and JNCASR”. He signifies the importance of interactions in terms of presentations. He called such a gathering as Comprehensive National Power. Curious Students attendees also had a one to one interaction with Dr. S. Deshpande. Dr. Milind Khanapurkar. Dr. Khanapurkar welcomed all and explained the objective of the conference. Dr. Jitesh Shinde briefed about the conference.

On second day, in a keynote address **Dr. Manjooran gave insights on “Inventing the Future with Materials: ‘The Backbone of Modern Technology & Innovation’.** Through various case studies, Dr. Manjooran explained the need to understand the behavior of material for particular application, so that concerned stake holders’ draws maximum output in terms of reliable operation and efficiency. The conference is concluded with brief report of the conference and valedictory address by Dr. Navin Manjooran in the presence of Mr. Udayan Pathak, Chairman ASM International Pune, LMC Member Nagpur and Honary Chair Dr. M Khanapurkar. Based on the feedback and with the efforts of team members the conference was a huge success.

## Conference Papers

Authors were invited to submit the manuscripts reporting original, unpublished, research and recent developments on the topics related to scope of the conference. Conference has received overwhelming response from the researchers, academician and industry persons.



Papers Trackwise	Track I	Track II	Track III	Track IV	Total
<b>Total Papers Received</b>	<b>28</b>	<b>67</b>	<b>28</b>	<b>14</b>	<b>137</b>
<b>Papers Accepted and Registered</b>	<b>10</b>	<b>27</b>	<b>18</b>	<b>7</b>	<b>62</b>

All the 137 papers have critically reviewed by 112 reviewers. The track-wise presentation of authors was conducted in 7 different sessions. Each session was chaired by domain wise diversified experts from IITs, NITs International and Central Universities.

For Mechanical, the two sessions was chaired by Dr. Nitin Kumar, Dr. Bhende, Dr. Prasad Kane, and Dr Urade. Out of 18 presentation 7 presentations were made physical and others online. For Electronics telecommunication track 10 papers were presented. 1 was physical and 9 papers have presented in online mode. The sessions was chaired by Dr. Nishi Gupta who joined from Switzerland in online and Dr. Mangesh Nikose, Head Electrical Engineering Sandip University.

In Computer Engineering Domain total 27 papers have presented. 7 were Physical and 20 were presented in Online. Dr.Urmila Shrwankar and Dr.Supriya Kelkar, Dr. Tausif Diwan IIIT Nagpur, Dr. S. W. Mohod, were chaired the sessions. In Basic Science category 3 presentation were done. Prof. Manish K. Kashyap from JNU New Delhi and Dr. Indrajit M. Nagpure, from National Institute of Technology (NIT), Uttarakhand chaired the session. In total 58 presentation were made by the authors in two days.

**For More Information:** <https://icraset2k23.com/>



**Guests Unveiling the Conference Proceeding**



**Delegates and Participants**



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**Dr. Deshpande delivering the keynote address**



**Presentation by the authors**



**Dr. Manjooran delivering valedictory speech**



**Presentation by the authors**

## About Editors

The editors along with their profile is given below

### Dr. Nishu Gupta

Dr. Nishu Gupta is a Senior Member, IEEE having interest in Computer Communication and Networking, , Autonomous Vehicles, Smart Cities, Security in Sensor Networks and Internet of Things. He has authored and edited several books with international publishers like Taylor & Francis, Springer, Wiley and Scrivener. Along with chairing several International Conferences, Dr. Nishu served as a reviewer and is on the Editorial board of various Internationally reputed



Journals and Transactions. Dr. Gupta worked on various research projects in international universities like University of Fribourg, Switzerland, King Abdulaziz University in Rabigh, Saudi Arabia, University of Oviedo, Gijón, Spain. He had also worked on projects of Ministry of Electronics and Information Technology (MeitY), Government of India. He is receipt of MDPI 2022 Travel Award and has published 5 patents and more than 60 research articles in IEEE Transactions, SCI and Scopus Indexed Journals. Currently he is holding a position of Postdoctoral Fellow in the, Department of Electronic Systems at Norwegian University of Science and Technology (NTNU) in Gjøvik, Norway.

**Dr. Sandeep S. Joshi**

Dr. Sandeep Joshi is an accomplished editor with extensive expertise in the field of Mechanical Engineering. Currently serving as an Assistant Professor at Shri Ramdeobaba College of Engineering and Management in Nagpur, India, he holds a Ph.D. in Mechanical Engineering. Dr. Joshi specializes in Thermal Engineering and has made significant contributions to the field, with over 50 research papers published in renowned journals and conferences in India and abroad. His innovation extends beyond academia, as he has applied for around 30 patents, five of which have been granted by the Indian Patent Office. Dr. Joshi's editorial prowess is also notable, as he serves as a reviewer for more than 25 reputed International journals and research agencies in India, Poland and Hong Kong.

**Dr. Milind Khanapurkar**

Dr. Milind Khanapurkar has his specialization in Electronics Engineering with Intelligent Transportation System as area of interest with special focus on Embedded systems , modeling and IoT. He has 1 book, 1 book chapter and 50+ publication in international journals and conferences of repute. He has one patents to his credit with few design patents and several research and project grants from various organizations.

**Dr. Asha Gedam**

Dr. Asha H. Gedam, currently serving as an Assistant Professor in the department of chemistry, Cummins College of Engineering for Women, Nagpur India. The research background of Dr. Gedam is waste water reatment technology. She has published her research work in reputed journals and served as a reviewer for reputed international Elsevie, Taylor and Francis journals.

**Organizing Committee**

The organization of the conference was a great teamwork. The workforce which led the successful implementation of the event is given below

Chief Patron:	Shri. Ravindra Deo Shri. Jayant Inamdar Dr. Dhananjay Kulkarni
Patron:	Dr. PVS Shastry



	Dr. Makarand Karkare Mr. Hemant Ambaselkar Mr. Shrikant Gadge	
Honorary Chair:	Dr. Milind Khanapurkar	
Convenor:	Dr. Sanjivani Shastri Dr. Mahesh R. Shukla	
Organizing Chair:	Dr. Jitesh Shinde	
Organizing Secretary:	Mr. Prasanna Mahankar	
Technical Program : Chair	Dr. Shubhangi Bompilwar Dr. Jaya Raut Dr. Kanchan Wagh	Dr. Priyadarshini Ramteke Dr. Shailesh Khekale Dr. Asha Gedam
Registration & Finance Chair :	Mr. Yogesh Dandekar Mr. Pravin Gorantiwar	Mrs. Rashmi Deshpande Mr. Anand Deshkar
Publicity, Sponsorship, Social Media Chair :	Mrs. Sharayu Deote Mr. Harshwardhan Kharpate Mr. Aditya Kawdaskar	Mrs. Pallavi Tanksale Mr. Abhijeet Getme
Web Chair :	Mr. Shailesh Sahu Ms. Pinky Gangwani	
Scientific Program Committee Member :	Dr. Snehal Chavan Mrs. Sneha Uttarwar Mr. Sushil Lanjewar Mr. Vikram Dandekar Mrs. Sakshi Khamankar Mrs. Abhilasha Borkar Mrs. Avantika Wadaskar	Mrs. Saroj Sahu Mr. Amit Tripathi Mr. Amit Fulsunge Mr. Sabyasachi Bhattacharya Mr. Gaurav Agrawal Mr. Sanjay Aloni Mr. Amit Welekar

## List of Papers Received For the Conference

### A. Pioneer Engineering in Electronics Engineering

1. Circular Slotted UWB Antenna Design for Microwave Medical Imaging Application
2. Metamaterial Dual L-Slot Triangle Patch Antenna for optimal X-Band Applications
3. A Multifunctional Robot for COVID-19 Hospital
4. Novel Approach for Compressing Electrocardiogram Signals



5. A Compressive Approach for Cancer Classification using Text Data and Machine Learning
6. Solar Based Real Time Solid Waste Separation and Management System Using IOT
7. AES and SIMON Algorithms in 45 nm and 90 nm technology implemented on Spartan-6 FPGA
8. Design of Microstrip Patch Antenna for 5G Applications
9. Electric Vehicles: A Review on Technological Trends and Performance Improvement Strategies
10. Beamforming Algorithms for Massive MIMO: Developing and evaluating novel beamforming algorithms to improve the coverage, capacity, and interference management in Massive MIMO systems

## **B. Advances in Computer Engineering and Information Technology**

11. "HANA" – AN IOT FUSION WITH DEEP LEARNING FOR SMART AGRICULTURE CROP PREDICTION AND CROP MONITORING SYSTEM.
12. A Survey Paper on video retrieval using Deep Learning Concept
13. Real And Spoofed Faces Classification Using Machine Learning Adopting Efficient Processing And Quality Descriptors
14. A Facial Sketch-To-Image Synthesis Using Flutter and Artificial Neural Network
15. Transfer Learning-Based MRI Model for the Identifying of Brain Tumors
16. Classification of Protein Family from the Protein Sequence Using Machine Learning
17. Teacher Evaluation with Sentiment Analysis of Students Comments Using Machine Learning and Deep Learning Approaches
18. Empowering Agriculture: Smart Crop Recommendation with Machine Learning Challenges and Future Prospects
19. Deep Learning Based System for Image Denoising
20. Survey on Energy Optimization in Wireless Sensor Network
21. A Review on Fake Twitter User Profile Detection
22. Ayurveda-Dosha Assessment: A Computational Survey of the Human Body's Constitution
23. The future of AI security: How zero trust can help to protect against advanced threats
24. Predicting Pancreatic Cancer Risk Using Machine Learning and Neural Network
25. Prediction of Air Quality in Nagpur City Using Hybrid CNN-Long Short-Term Memory Model
26. A Review on "Efficient Hybrid Methodology for Early Detection of Breast Cancer in Digital Mammograms using Autoencoder Deep Learning
27. Medical image multi-view transformation and reconstruction with deep Learning
28. Exploring the Effectiveness of Ensemble Learning Techniques for the Classification of Stellar Objects in Gaia DR3
29. Secure on demand token based binding update authentication mechanism
30. Authentication of Video: Noval Approach for Identifying Video Forgery Using Correlation Coefficients
31. Overspeed alert system for vehicles to avoid e-challan on highways using Machine



### Learning Algorithm

32. Detection of Nodule like objects using Local Contrast Thresholding
33. Efficient Set-D4: A Deep Learning Approach to Identify Human Handwritten Signatures
34. IVSMDLS: Integration of Visual Saliency Maps with Deep Learning for identification of Skin Disease Severity
35. Design of an efficient DeepSHAP Model for Smart Farming based Recommendations using Residual Deep Networks
36. Design of an efficient mutable Blockchain for QoS aware IoT deployments
37. Experimental Investigation of Segmentation Methods for Segmenting Fruit Images in Natural Environment

### C. Emerging Technologies in Mechanical Engineering

38. Influence on the air flow due to boundary layer
39. Design & Development of a Semi-Automated Pneumatic System for Production of Washers
40. Design and Development of Cycloidal Gear Box
41. Design, Development and Manufacturing of Coconut De-husking Machine
42. Application of Low Cost Automation for Corrugated Box Flaps Twisting To Improve Productivity
43. Heat Energy Storage in libr and Phase Change Material using Solar Parabolic Dish Collector
44. Soc prediction of lithium ion battery based on machine learning algorithm
45. On the Design and Fabrication of a Low Cost PDMS-based Lenses: Soft Lithography Approach
46. Simulation of U-cup hydraulic seal used in a hydraulic system using Ansys
47. Supply Chain Management in Life Insurance companies in India
48. Design and development of Manually Operated Lanza Seed Decorticator for livelihood of Tribal Community in Eastern Vidarbha region in India
49. Unveiling the Dynamics and Optimization of Go-Kart Performance: An In-depth Analysis and Evaluation.
50. Ergonomic Design of Visual Inspection Workstation using Digital Human Modelling
51. Application of FMECA and FTA for the Engines of Diesel Locomotive
52. Analysis of Location of Emergency Department in Multi-speciality Hospitals
53. Implementation of DMAIC Methodology in Belt Industry for Minimization of Fabric Wastage
54. Methodology in Belt Industry for Minimization of Fabric Wastage
55. Design & Simulation of Robotic Arm for Sanitization

### D. Emerging Trends in Basic & Applied Sciences

56. Municipal Solid Waste Dumpsites' Effects on the Environment and Public Health
57. Electrochemical Properties of Polyaniline doped Nickel Oxide nanocomposites
58. Study of E-Waste Management Practices in Maharashtra State (India)
59. Short Review on Conducting Polymer: Polyaniline: Conduction Mechanism and



## Applications

60. Amendments on Amalgamation, Categorization and Solicitation of Polypyrrole Nanocomposites (PPy NC) and their optimization- An update
61. Assessment And Optimization Of Integrated Solid Waste Management Strategies For Sustainable Urban Environments
62. Quantum computing and simulation- A review



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## DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING

### REPORT ON

#### A Five Days Skill Development Workshop on “Embedded IoT “ 8th to 13th Jan 2024

The Department of Electronics & Telecommunication (ETC) Engineering, Cummins College of Engineering for Women (CCoEW), Nagpur, Maharashtra organized A Five Days Skill Development Workshop on ‘**Embedded IoT**’ for the students of Third & Final year on 8<sup>th</sup> to 13<sup>th</sup> January 2024 at DSP lab (Wing A, Room no.20).

#### **The workshop provided the insight about the following concepts:**

- 1.Introduction to Embedded System & Applications Online Simulator getting started Basics of electronics components & its working Simulation and circuit design of LED light, Relay, Switch, Transistor, IR sensor.
- 2.\_Introduction & Applications of \_Servo Motor\_ Working Principle\_of Servo motor\_Arduino Programming to rotate Servo motor\_on specific angle\_Interfacing IR\_sensor to read\_values on Serial monitor Control Servo motor from IR sensor value.
3. Introduction to Communication protocol: Wifi, HTTP, MQTT, BLE, Introduction to Computer Networking, IP address, Allocating IP address to machine, finding IP of your system Introduction to ESP32 architecture and pin description Installing ESP32 ,board in IDE ,ESP32 Digital, Inputs and Outputs programming
- 4.ESP32 Touch Sensor print value on serial monitor

#### **Experts for Workshop:**

**Mr. Sandip Sonaskar from V.S. Informatics, Nagpur**

The further details of workshop as follows:

The workshop was organized with following objectives & Outcomes:



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Workshop Coordinator

Head (ETC)

## DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING

### Objectives:

- To equip/train the students with the necessary skills and knowledge which are required in industries
- To facilitate the progression of students to higher level of education and/or towards employment
- To make student explore how the learning becomes easy with different tools and programming languages.
- To encourage project-based learning to ensure to certain extent engineering education weathers the storm of future crises

### Outcomes:

- Exposure to Industry sign-off tools
- Able to do projects in Electronics & Communication Engineering
- Knowledge & skills to use in MATLAB and Arduino tools may ensure to certain extent engineering education weathers the storm of future crises

The participants gave positive feedback the way workshop was organized & topics of sessions were planned.

### Total of 2<sup>nd</sup> Year ETC Participated in The Workshop : 54

- No. Of Students Participated Appeared for Assessment Exam of Workshop : 76
- No. Of Students Participated Passed the Assessment Exam (Criteria 50% & above) : 69
- Highest Score: 58/60

### Online Examination link:

<https://docs.google.com/spreadsheets/d/1duR8E8H4nGqPrEbHHpNtas6aSQRLrUXTYeuth398SBM/edit?usp=sharing>

Photos of the Workshop & participants list with their score has been attached along with this report in a separate file.



Workshop Coordinator

  
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Head (ETC)

**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**  
**A Five Days Skill Development Workshop on "Embedded IoT "**  
**8th to 13th Jan 2024**

**List of Participants Appeared for Assessment Exam**

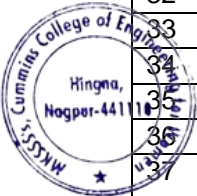
Sr.No.	Name of Students	Marks (out of 60)
1	Dipti Tembhare	52 / 60
2	Sejal Thakre	54 / 60
3	Aasawari Patil	26 / 60
4	Shruti Arvind Vaidya	44 / 60
5	Mansi Kulkarni	48 / 60
6	Megha chaudhari	48 / 60
7	Manaswee katre	52 / 60
8	Sanika kukde	40 / 60
9	Monali	48 / 60
10	Samruddhi Ingole	52 / 60
11	Astha sanjay patrange	52 / 60
12	Darshana Hedau	50 / 60
13	Ishwari Udakhe	52 / 60
14	Stuti Bhattacharjee	50 / 60
15	Shruti Ambadas Vaidya	50 / 60
16	Avani Kadam	48 / 60
17	Payal Rameshwar Jibhkate	54 / 60
18	Sakshi Ramdas Kamdi	52 / 60
19	Sakshi Tonge	42 / 60
20	Juhikumari Singh	54 / 60
21	Kajal tiwari	54 / 60
22	Sejal Kalambhe	54 / 60
23	Mrunmayee Joshi	50 / 60
24	Yeeyakshu Deo	44 / 60
25	Shruti raut	58 / 60
26	Vaishnavi raju wagh	54 / 60
27	Tanushri Sunil aote	48 / 60
28	Harshita Limaye	58 / 60
29	Shraddha Kosare	50 / 60
30	Aditi Sathe	58 / 60
31	Subodini Gote	54 / 60
32	Sanika Warnekar	58 / 60
33	Vaishnavi Giradkar	48 / 60
34	Rajasi Moratkar	58 / 60
35	Yogeshwari ghate	48 / 60
36	GAURI GAJPURE	58 / 60
37	Komal Bisane	58 / 60

Workshop Coordinator

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Head (ETC)



### DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING

38	ketaki Ishwar Randaye	56 / 60
39	Shruti Pundlik Kukde	52 / 60
40	Mansi Gaikwad	44 / 60
41	Anushree Badhe	56 / 60
42	Riddhi Tekade	56 / 60
43	Sakshi Dekate	46 / 60
44	Shreya Shailesh Thakre	58 / 60
45	Gayatri Dikondawar	44 / 60
46	Aditi Tembhare	58 / 60
47	Dnyanshree Zade	52 / 60
48	Mona Sonwane	40 / 60
49	Jyoti shahu	48 / 60
50	Apurva ramesh totawar	56 / 60
51	Gunjan Sanjay Rane	56 / 60
52	Anushree Nimkar	50 / 60
53	Sejal Gomase	48 / 60
54	Heeya chawhan	54 / 60
55	Amisha meshram	52 / 60
56	Sonal Fulzele	56 / 60
57	Riya Kirnapure	56 / 60
58	Rashi bhavik	42 / 60
59	Prachi Kishor Gour	54 / 60
60	Yanishka Chiwhane	38 / 60
61	Amisha Barahate	44 / 60
62	Bhavika Gandait	40 / 60
63	Sejal Anjankar	52 / 60
64	Vidhi Mahadev Nagose	16 / 60
65	Riddhi Tekade	54 / 60
66	Himani Bisen	44 / 60
67	Kirti Rajesh Samatkar	50 / 60
68	Sakshi gour	58 / 60
69	Anushka dewajwar	48 / 60



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**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**

***Photos of Workshop***



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## Skill Development Workshop on Embedded IoT

**Academic Year 2023-24(Even Sem)**

**Semester: VI<sup>th</sup> & VIII<sup>th</sup>**

Duration: 8th to 13th Jan 2024

Resource Person: Mr. Sandip Sonaskar from V.S. Informatics, Nagpur

Schedule is as follows...

Sr. No	Date	Before Break Time	Contents	Break	After Break Time	Contents
1.	8/1/23	10:00AM to 12:00 noon	<ul style="list-style-type: none"> <li>• Introduction to Embedded System &amp; Applications</li> <li>• Online Simulator getting started</li> <li>• Basics of electronics components &amp; its working</li> <li>• Simulation and circuit design of LED light, Relay, Switch, Transistor, IR sensor</li> </ul>	12:00 noon to 1:00PM	1:00PM to 4:00PM	<ul style="list-style-type: none"> <li>• Introduction to ATmega328 Controller and Arduino</li> <li>• Getting started with Arduino Programming</li> <li>• Arduino Syntax and commands - read and write functions</li> <li>• Creating first sketch -LED blinking simulation (tinkercad)</li> <li>• Serial Monitor introduction</li> <li>• Getting Pushbutton value on serial monitor with logic example</li> <li>• Getting Potentiometer analog value on serial monitor with logic example</li> </ul>



  
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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING**

					<ul style="list-style-type: none"> <li>• Programming and Simulation</li> <li>• ON/OFF LED by using push button</li> <li>• ON/OFF LED using Pot Value</li> </ul>
2.	9/1/23	10:00AM to 12:00 noon	<ul style="list-style-type: none"> <li>• Introduction &amp; Applications of Servo Motor</li> <li>• Working Principle of Servo motor</li> <li>• Arduino Programming to rotate Servo motor on specific angle</li> <li>• Interfacing IR sensor to read values on Serial monitor</li> <li>• Control Servo motor from IR sensor value</li> </ul>	1:00PM to 4:00PM	<ul style="list-style-type: none"> <li>• Intro to LCD I2C</li> <li>• Interfacing and Programming LCD I2C to display message</li> <li>• Introduction to DHT sensor</li> <li>• Installing libraries</li> <li>• Programming DHT11 to see data on serial monitor</li> <li>• Programming DHT11 to see data on LCD</li> </ul>
3.	10/1/23	10:00AM to 12:00 noon	<ul style="list-style-type: none"> <li>• Introduction to Communication protocol: Wifi, HTTP, MQTT, BLE</li> <li>• Introduction to Computer Networking</li> <li>• IP address, Allocating IP address to machine, finding IP of your system</li> <li>• Introduction to ESP32 architecture and pin description</li> <li>• Installing ESP32 board in IDE</li> <li>• ESP32 Digital Inputs and Outputs programming</li> </ul>	1:00PM to 4:00PM	<ul style="list-style-type: none"> <li>• Basic of HTML programming</li> <li>• ESP32 Wifi Manager</li> <li>• ESP32 as Web Server – Introduction</li> <li>• Programming ESP32 to connect Hotspot WiFi</li> <li>• Getting ESP32 IP on serial monitor</li> <li>• Accessing web page from IP address of ESP32</li> <li>• Creating Push Button on Web page to control LED light on ESP32 pin</li> </ul>



  
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			<ul style="list-style-type: none"> <li>• ESP32 Touch Sensor print value on serial monitor</li> </ul>			
4	11/1/23	10:00AM to 12:00 noon	<ul style="list-style-type: none"> <li>• Interfacing LCD I2C with ESP32</li> <li>• Interfacing DHT11 with ESP32 and Display Values on LCD</li> <li>• Display DHT values on web page using IP address of ESP32</li> </ul>		1:00PM to 4:00PM	<ul style="list-style-type: none"> <li>• Introduction to Thingspeak cloud server</li> <li>• Login to thingspeak</li> <li>• Creating channels</li> <li>• Creating fields in the channel</li> <li>• Intro to API keys</li> <li>• Programming ESP32 to send data on Thingspeak server</li> <li>• Thingspeak Widgets</li> <li>• Creating custom HTML page to see the values of Fields .</li> </ul>
5	12/1/23	10:00AM to 12:00 noon	<ul style="list-style-type: none"> <li>• Introduction to Adafruit Server (MQTT)</li> <li>• Programming ESP32 to see the Pot value on gauge of adafruit</li> <li>• Programming ESP32 to see the DHT value on gauge of adafruit</li> </ul>		1:00PM to 4:00PM	<ul style="list-style-type: none"> <li>• Creating Push button in adafruit dashboard</li> <li>• Control LED connected to ESP32 from adafruit pushbutton panel</li> <li>• Q&amp;A</li> <li>• Project Task</li> </ul>
6	13/1/23	Feedback and Test on skill development workshop contents				

HoD ETC

Dr.Jaya Gadge



  
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## WORKSHOP ON 'Design of mobile phone RF Front end'

A skill development program on 'Design of Mobile phone RF Front end' was conducted by Electronics & Telecommunication Engineering Department in collaboration with ICON Design Automation, Bangalore during 17<sup>th</sup> July 2023 to 21<sup>st</sup> July 2023 . Prof A.S.Deshkar from CCOEW,Nagpur & Mr. Hari Prasad from ICON Design Automation, Bangalore conducted the workshop. Total 52 students from third year ETC Department participated in the workshop.

**Course Objectives:** To develop ability of understanding & designing RF Circuits & Systems

**Course outcomes:** Upon completion of this course student will be able to demonstrate ability

- 1.To analyse mobile phone RF front end circuits
- 2.To compute &analyse RF Budget for communication systems
- 3.To design microstripline based components like filter,antenna& Circuits like amplifier

Schedule of the workshop was as follows:

Day	Date	Time	Topic	Conducted by
Monday	17 July	12pm-4.10 pm	1.Inauguration 2.Session on Introduction to RF Fundamentals & RF Front end in mobile phone	Prof. A.S.Deshkar
Tuesday	18 July	12.45pm-4.10pm	Analysis of blocks in RF Transceiver with demo examples from AWR	Prof. A.S.Deshkar
Wednesday	19 July	12.45pm-4.10pm	Design of notch filter	Mr. Hari Prasad & Prof A.S.Deshkar
Thursday	20 July	12.45pm-4.10pm	Design of microstrip patch antenna	Mr. Hari Prasad & Prof A.S.Deshkar
Friday	21 July	12.45pm-4.10pm	Design of RF Transceiver  Discussion on Scope of RF Industry	Mr. Hari Prasad & Prof A.S.Deshkar

Certificates were distributed to all the participants of the workshop.



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## DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING

### REPORT ON

#### A Five Days Skill Development Workshop on 'A deep dive into Artificial Intelligence (AI) and Its Applications workflows Using MATLAB and Hands-on on Arduino'

16 January to 20 January 2024

The Department of Electronics & Telecommunication (ETC) Engineering, Cummins College of Engineering for Women (CCoEW), Nagpur, Maharashtra organized A Five Days Skill Development Workshop on '**A deep dive into Artificial Intelligence (AI) and Its Applications workflows Using MATLAB and Hands-on on Arduino**' for the students of second year on 16 January to 20 January 2024 at DSP lab (Wing A, Room no.20).

The workshop provided the insight about the following concepts:

- Digital Image Processing With MATLAB
- Signal Processing With MATLAB
- Machine Learning With MATLAB
- Deep Learning with MATLAB
- Practice Session Self-Paced Courses
- Hands-on on Arduino
- Hands-on on Arduino

#### **Experts for Workshop:**

1. For MATLAB (16 – 18 January) : Mr. Ankit Kumar, Application Engineer, Mathworks
2. ForArduino (19-20 January) : Mr. Amit Fulsunge, ETC Department, CCoEW, Nagpur

The further details of workshop as follows:

The workshop was organized with following objectives & Outcomes:

#### **Objectives:**

- To equip/train the students with the necessary skills and knowledge which are required in industries
- To facilitate the progression of students to higher level of education and/or towards employment
- To make student explore how the learning becomes easy with different tools and programming languages



Workshop Coordinator

  
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## DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING

- To encourage project-based learning to ensure to certain extent engineering education weathers the storm of future crises

### Outcomes:

- Exposure to Industry sign-off tools
- Able to do projects in Electronics & Communication Engineering
- Knowledge & skills to use in MATLAB and Arduino tools may ensure to certain extent engineering education weathers the storm of future crises

The participants gave positive feedback the way workshop was organized & topics of sessions were planned.

### Total of 2<sup>nd</sup> Year ETC Participated in The Workshop : 54

- No. Of Students Participated Appeared for Assessment Exam of Workshop : 54
- No. Of Students Participated Passed the Assessment Exam (Criteria 50% & above) : 52

Online Examination link: <https://forms.gle/VWdAwAFssYTHhg3cA>

Photos of the Workshop & participants list with their score has been attached along with this report in a separate file.



  
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**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**  
**A Five Days Skill Development Workshop on 'A deep dive into Artificial Intelligence (AI) and Its Applications workflows Using MATLAB and Hands-on on Arduino'**

**16 January to 20 January 2024**

**List of Participants Appeared for Assessment Exam**

Sr. No.	Name of Participant	Marks Obtained (Out of 40)
1	Vedangi Ghodmare	6 / 40
2	Isha Barai	28 / 40
3	Vaishnavi Sunil Kothe	32 / 40
4	Nileshwari kade	36 / 40
5	Gayatri Ambhorkar	30 / 40
6	Saniya Junghare	30 / 40
7	Diksha pawar	32 / 40
8	Janhavi A Rajurkar	32 / 40
9	Kiran Shashikant Mehta	32 / 40
10	Mrunmayee Kunte	34 / 40
11	Nidhi Dande	30 / 40
12	Gargi Randive	30 / 40
13	janvi zade	30 / 40
14	Anjali Fiske	34 / 40
15	Kalyani Pamidela	30 / 40
16	Saniya Balbudhe	28 / 40
17	Samiksha Kumbhalkar	30 / 40
18	Mrudula Dalal	34 / 40
19	Ishika sahu	32 / 40
20	Sakshi kishor thakre	32 / 40
21	Arpita Ukey	34 / 40
22	Vidisha Siddharth Kapse	30 / 40
23	Isha Premlal Asole	22 / 40
24	Dnyaneshwari Hiranman Pise	34 / 40
25	Pranoti Mujbaile	32 / 40
26	Gauri Ghadge	32 / 40
27	Asmita Pathak	32 / 40
28	Mamata Bhure	36 / 40
29	Gayatri Gajanan Kalmegh	32 / 40
30	Astha Jha	34 / 40
31	Aarya Surendra Parshatwar	26 / 40



Workshop Coordinator

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Head (ETC)

**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**

**List of Participants Appeared for Assessment Exam**

Sr. No.	Name of Participant	Marks Obtained (Out of 40)
32	Pranjali Manekar	34 / 40
33	Riya Mahendra Barai	30 / 40
34	Shreya Chakraborty	30 / 40
35	Manasi N Pohane	34 / 40
36	Shravani Rane	36 / 40
37	Yashasvi Ramdham	34 / 40
38	Yashaswi Gedam	32 / 40
39	Aditi Pande	30 / 40
40	Bhagyashree sarode	28 / 40
41	Shubhangi Ganesh Dalal	28 / 40
42	Payal Rajendra Paunikar	32 / 40
43	Sharyu Asre	30 / 40
44	Ruchita Anil khirodkar	28 / 40
45	Sneha Gaikwad	30 / 40
46	Runmai Diliprao falke	32 / 40
47	KUMKUM TIWARY	32 / 40
48	Ruchika Dubey	30 / 40
49	Janvi Atmaram Deogade	32 / 40
50	Adhisha Kherde	30 / 40
51	Priya turkar	34 / 40
52	Saloni Rathod	34 / 40
53	Shravani Hajare	32 / 40
54	Suhani Ilamkar	14 / 40



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**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**

**A Five Days Skill Development Workshop on 'A deep dive into Artificial Intelligence (AI) and Its Applications workflows Using MATLAB and Hands-on on Arduino'**

**16 January to 20 January 2024**

**Photos of Workshop**



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## Skill Development Workshop

On

“Data Science”

Session-2023-24 (7th SEM)

The Department of Electronics and Telecommunication Engineering of MKSS's Cummins College of Engineering for Women, Nagpur, in collaboration with NU Intelligence Pvt. Ltd. Nagpur conducted a skill development workshop on “Data Science” from 17<sup>th</sup> to 22<sup>nd</sup> July 2023 for the students of Final year of the ETC department.

Venue for the Workshop: DSP lab of ETC department

Time: 10:00 AM to 4:00 PM

Workshop has conducted by Mrs. Neha Tekade from NU Intelligence Pvt.Ltd. Nagpur .Mrs.Neha has covered Introduction to Data

Science, Python Numpy, Data types,Array attributes, Indexing and Slicing, String Function, Python Pseudo Code, Python Programming, Introduction to SQL and its types, Data Types, Introduction to EDA, What is Data, Field, Record and database? Limitations of File Management System. Basic Concepts of Advantages of DBMS.E-R Modeling and diagram. Introduction to machine learning and Deep learning, Bayesian Learning, decision Surfaces along with Hands on practical's.

The participants gave positive feedback the way event was organized & the event was planned. Many students appreciated by Guest speaker and he has given pens in the form of token of appreciation. Exam Report, Feedback analysis & Event photos etc. has been attached along with this report in a separate file.

Test Link: <https://forms.gle/vXvqj3tPGpqM4o3EA>

Total Number of students of registered for workshop: 32

Total Number of students who received certificated: 29



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Skill Development Workshop Test Analysis		
17th to 22nd July 2023		
Sr.No.	Name of Student	Score
1	Vanshika pardhi	19 / 20
2	Sejal Thakre	20 / 20
3	Sakshi Tonge	17 / 20
4	Yuvrani Randive	18 / 20
5	Riya Baseshankar	08/20
6	Dhanashree Mohan Likhari	20 / 20
7	Sayli Mehare	16 / 20
8	Akshani Wanjari	17 / 20
9	Apeksha Gotmare	15 / 20
10	Ketaki randave	17 / 20
11	Amisha Barahate	19 / 20
12	Shivani waman borkute	18 / 20
13	Bhumika Hingankar	19 / 20
14	Tinatai Mahalle	16 / 20
15	Aasawari Patil	08/20
16	Prachi Chaudhari	17 / 20
17	Sejal Kalambhe	16 / 20
18	Avanti Panchbudhe	18 / 20
19	Sakshi Sanjay Mahant	20 / 20
20	Devashree Ishwarchadra Madame	20 / 20
21	seshalasya Panchangam	18 / 20
22	Rasika Wakhore	18 / 20
23	Neha Ladke	20 / 20
24	Gayatri Dikondawar	20 / 20
25	Megha chaudhari	16 / 20
26	Eesha Thakre	17 / 20
27	Shrutika Mankar	11/20
28	Bhagyshree Darunde	14 / 20
29	Siri kudupudi	18 / 20



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### Schedule of Skill Development Workshop

Sr. No	Date	Before Break Time	Contents	Break	After Break Time	Contents
1.	17/7/24	10:00AM to 12:30PM	<p>Introduction to Data Science.</p> <ul style="list-style-type: none"> <li>• Definition of data science, importance, and basic applications.</li> <li>• Python Introduction</li> </ul>	12:30PM to 1:00PM	1:30PM to 4:00PM	<ul style="list-style-type: none"> <li>• Python Pseudo Code</li> <li>• Python Programming</li> </ul>
2.	18/7/24	10:00AM to 12:30PM	<ul style="list-style-type: none"> <li>• Python Numpy</li> <li>• Data types</li> <li>• Array attributes</li> <li>• Indexing and Slicing</li> <li>• String Function</li> </ul>		1:30PM to 4:00PM	<ul style="list-style-type: none"> <li>• Python Pandas</li> <li>• Basic functionality</li> <li>• Practical Hands-on</li> </ul>
3.	19/7/24	10:00AM to 12:30PM	<ul style="list-style-type: none"> <li>• What is Data, Field, Record and database?</li> <li>• Limitations of File Management System.</li> <li>• Basic Concepts of Advantages of DBMS.</li> <li>• E-R Modeling and Diagram</li> </ul>		1:30PM to 4:00PM	<ul style="list-style-type: none"> <li>• Introduction to SQL</li> <li>• Basics of SQL Types of SQL Statement</li> <li>• DDL, DML, DQL, DCL and TCL</li> <li>• Create, Alter and Drop Table</li> <li>• Insert, Update and Delete Statement, Truncate Statement</li> </ul>
4	20/7/24	10:00AM to 12:30PM	<ul style="list-style-type: none"> <li>• Introduction to EDA</li> <li>• Steps in EDA</li> <li>• Summarizing the Data Set</li> <li>• Understanding Target Variable</li> </ul>		1:30PM to 4:00PM	<ul style="list-style-type: none"> <li>• Finding Correlation</li> <li>• Finding Outliers</li> <li>• Univariate &amp; Bi-Variate Analysis</li> <li>• Project on EDA</li> </ul>
5	21/7/24	10:00AM to 12:30PM	<ul style="list-style-type: none"> <li>• Introduction to ML</li> <li>• Introduction to Supervised Learning</li> <li>• Introduction to Unsupervised Learning.</li> <li>• Introduction to Reinforcement Learning.</li> </ul>		1:30PM to 4:00PM	<ul style="list-style-type: none"> <li>• Introduction to Deep Learning</li> <li>• Bayesian Learning, Decision Surfaces</li> <li>• Hands on practical's</li> </ul>
6	22/7/22	Feedback and Test on skill development workshop contents				



  
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## Result Analysis of skill Development workshop

- ❖ Exam conducted on Data Science and Python coding
- ❖ Total students attended the workshop-32/35
- ❖ Total students appeared for the test -29
- ❖ Total Questions Given-20
- ❖ Each question carried o1 mark.
- ❖ Minimum marks scored -08
- ❖ Maximum marks scored-20
- ❖ Average marks scored – 17.30



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**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**

**PROCEEDING & COMPLETION REPORT ON**

**A Five Days Skill Development Workshop on “MATLAB & SCILAB”**

**14<sup>th</sup> to 19<sup>th</sup> August 2023**

The Department of Electronics & Telecommunication (ETC) Engineering, Cummins College of Engineering for Women (CCoEW), Nagpur, Maharashtra organized A Five Days Skill Development Workshop on “MATLAB & SCILAB” for the students of second year on 14<sup>th</sup> to 19<sup>th</sup> August 2023 at DSP lab (Wing A, Room no.20).

The workshop provided the insight about the following concepts:

- Introduction to MATLAB
- Creating matrices and arrays
- Graphics
- Programming in MATLAB
- Simulink
- Introduction to FOSS: Scilab
- Introduction to Xcos
- Introduction to Digital System Design using Xcos

**Experts for Workshop:**

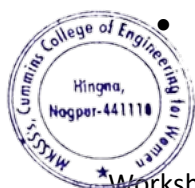
1. For MATLAB: Mrs. Saroj Sahu & Pallavi Tanksale (Assistant Professor, ETC Department, CCoEW, Nagpur)
2. For Scilab: Dr. Jitesh Shinde, Associate Professor & Head, ETC Department, CCoEW, Nagpur

The further details of workshop as follows:

The workshop was organized with following objectives & Outcomes:

**Objectives:**

- To equip /train the student with the necessary skills and knowledge which are required in industries
- To facilitate the progression of students to higher level of education and/or towards employment
- To make student explore how the learning becomes easy with different CAD tools and programming languages



Workshop Coordinator

  
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Head (ETC)

## DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING

- To encourage project-based learnings using FOSS to ensure to certain extent engineering education weathers the storm of future crises

### Outcomes:

- Exposure to open source tool & Industry sign-off tools
- Able to do projects in Electronics & Communication Engineering
- Knowledge & skills to use in FOSS tools may ensure to certain extent engineering Education weathers the storm of future crises

The participants gave positive feedback the way workshop was organized & topics of sessions were planned.

### Total Number of Students of 2<sup>nd</sup> Year ETC Participated in the Workshop: 41

- No. Of Students Participated Appeared for Assessment Exam of Workshop : 47
- No. Of Students Participated Passed the Assessment Exam (Criteria 50% & above) : 47

Online Examination link: <https://forms.gle/Nc8q8abiExkKJ3hWA>

Feedback form link: <https://forms.gle/EkciKEW7vXv2pRHY9>

Photos of the Workshop & participants list with their score has been attached along with this report in a separate file.



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## DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING

### A Five Days Skill Development Workshop on "MATLAB & SCILAB"

**14<sup>th</sup> to 19<sup>th</sup> August 2023**

### List of Participants Appeared for Assessment Exam

Sr. No.	Name the Student	Score
1	Mrudula Dalal	19 / 20
2	Ishika Sahu	18 / 20
3	Kumkum Tiwary	18 / 20
4	Manasi Pohane	18 / 20
5	Gauri Ghadge	17 / 20
6	Asmita Pathak	17 / 20
7	Janhavi A Rajurkar	17 / 20
8	Yashasvi Ramdham	17 / 20
9	Saniya Ajay Junghare	18 / 20
10	Sharyu Asre	18 / 20
11	Aditi Pande	17 / 20
12	Saniya Balbudhe	17 / 20
13	Nileshwari Kade	15 / 20
14	Gayatri Ambhorkar	14 / 20
15	Payal Paunikar	18 / 20
16	Runmai Falke	18 / 20
17	Pranoti Vinod Mujbaile	19 / 20
18	Vaishnavi Sunil Kothe	18 / 20
19	Anjali Fiske	18 / 20
20	Janvi Deogade	17 / 20
21	Gayatri Kalmegh	18 / 20
22	Shreya Chakraborty	18 / 20
23	Mamata Bhure	17 / 20
24	Sneha Gaikwad	14 / 20
25	Janvi Zade	13 / 20
26	Janhavi Wani	14 / 20
27	Soumya Vishnu Borkar	18 / 20
28	Yashaswi Gedam	18 / 20
29	Arpita Ukey	15 / 20
30	Adhisha Kherde	13 / 20
31	Isha Premlal Asole	18 / 20
32	Dnyaneshwari Pise	14 / 20
33	Surbhi Vaidya	14 / 20
34	Vidisha Siddharth Kapse	18 / 20
35	Shravani Rane	19 / 20
36	Astha Jha	19 / 20
37	Shravani Hajare	17 / 20
38	Priya Turkar	17 / 20
39	Shrawani Kumbalwar	14 / 20



Workshop Coordinator

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40	Mrunmayee Kunte	14 / 20
41	Kiran Mehta	17 / 20
42	Isha Barai	17 / 20
43	Rasika Bhalerao	15 / 20
44	Srushti Tone	13 / 20
45	Aarya Parshatwar	15 / 20
46	Suhani Ilamkar	17 / 20
47	Vedangi Ghodmare	16 / 20

**A Five Days Skill Development Workshop on “MATLAB & SCILAB”**

**14th to 19th August 2022**

**Photos of Workshop**



 **GPS Map Camera**



**Sukali, Maharashtra, India**

Mihan Road, Opposite Cummins Women's engineering Collage, Sukali, Maharashtra

441110, India

Lat 21.06726°

Long 78.981059°

19/08/23 11:18 AM GMT +05:30



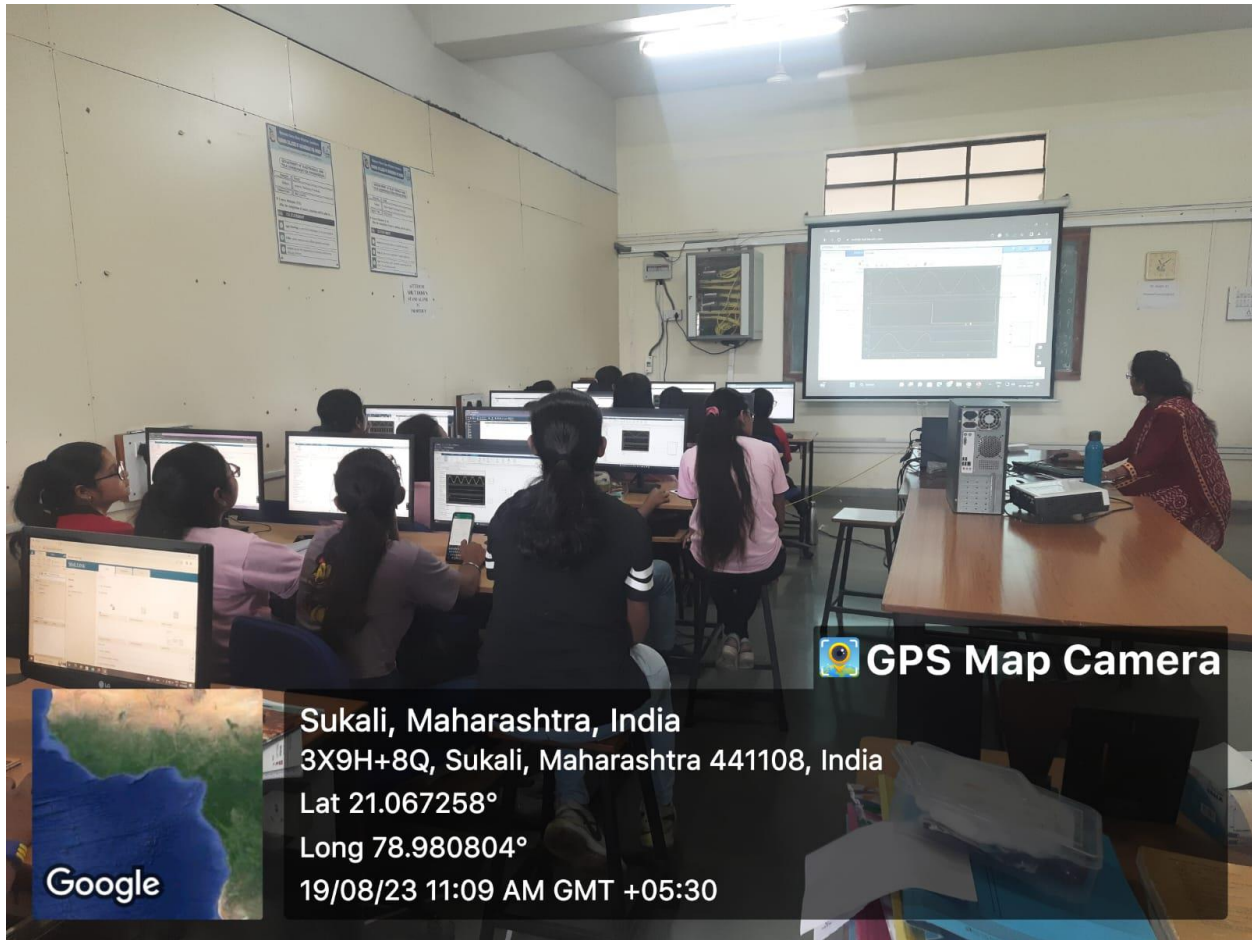
Workshop Coordinator


*Kautilya*

**Dr. Milind Khanapurkar**  
Principal

Maharshi Karve Stree Shikshan Samstha's  
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**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**



 **GPS Map Camera**



Sukali, Maharashtra, India  
 3X9H+8Q, Sukali, Maharashtra 441108, India  
 Lat 21.067258°  
 Long 78.980804°  
 19/08/23 11:09 AM GMT +05:30



Workshop Coordinator

  
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Head (ETC)

**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**



  
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**DEPARTMENT OF ELECTRONICS OF TELECOMMUNICATION ENGINEERING**



Workshop Coordinator

*Kvind*

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Head (ETC)

# Skill Development Workshop Attendance Sheet

2nd Year 2023-24

Semester : 3rd Sem

Branch: ETC

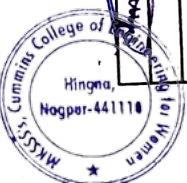
*Kinlind*

Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Sanatha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.

Sr. No.	Student's Name	Day 1		Day 2		Day 3		Day 4		Day 5	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	BARAI ISHA ANIL	Barai	Barai	Barai	Barai	Barai	Barai	Barai	Barai	Barai	Barai
2	ADHISHA KHERDE	Adhisha	Adhisha	Adhisha	Adhisha	Adhisha	Adhisha	Adhisha	Adhisha	Adhisha	Adhisha
3	AMBHORKAR GAYATRI HEMANT	Ambhorkar	Ambhorkar	Ambhorkar	Ambhorkar	Ambhorkar	Ambhorkar	Ambhorkar	Ambhorkar	Ambhorkar	Ambhorkar
4	ANJALI CHANDRASHEKHAR FISKE	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali
5	ASOLE ISHA PREMLAL	Asole	Asole	Asole	Asole	Asole	Asole	Asole	Asole	Asole	Asole
6	ASTHA JHA	Astha	Astha	Astha	Astha	Astha	Astha	Astha	Astha	Astha	Astha
7	BALBUDHE SANIYA RAVINDRA	Balbudhe	Balbudhe	Balbudhe	Balbudhe	Balbudhe	Balbudhe	Balbudhe	Balbudhe	Balbudhe	Balbudhe
8	BANSOD VAISHNAVI CHANDRAKANT	Bansod	Bansod	Bansod	Bansod	Bansod	Bansod	Bansod	Bansod	Bansod	Bansod
9	BARAI RIYA MAHENDRA	Barai	Barai	Barai	Barai	Barai	Barai	Barai	Barai	Barai	Barai
10	BHALERAO RASIKA JAYWANTRAO	Bhalerao	Bhalerao	Bhalerao	Bhalerao	Bhalerao	Bhalerao	Bhalerao	Bhalerao	Bhalerao	Bhalerao
11	BHURE MAMATA PRABHAKAR	Bhure	Bhure	Bhure	Bhure	Bhure	Bhure	Bhure	Bhure	Bhure	Bhure
12	BORKAR SOUMYA VISHNU	Borkar	Borkar	Borkar	Borkar	Borkar	Borkar	Borkar	Borkar	Borkar	Borkar
13	CHAUDHARY ISHA RAVINDRA	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary
14	DALAL MRUDULA MAHESH	Dalal	Dalal	Dalal	Dalal	Dalal	Dalal	Dalal	Dalal	Dalal	Dalal
15	DEOGADE JANVI ATMARAM	Deogade	Deogade	Deogade	Deogade	Deogade	Deogade	Deogade	Deogade	Deogade	Deogade
16	DONGRE HRUTUJA VIJAY	Dongre	Dongre	Dongre	Dongre	Dongre	Dongre	Dongre	Dongre	Dongre	Dongre
17	GAIKWAD SNEHA CHANDRASHEKHAR	Gaikwad	Gaikwad	Gaikwad	Gaikwad	Gaikwad	Gaikwad	Gaikwad	Gaikwad	Gaikwad	Gaikwad
18	GAURI GHADGE	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri
19	GEDAM YASHASWI PRAVIN	Gedam	Gedam	Gedam	Gedam	Gedam	Gedam	Gedam	Gedam	Gedam	Gedam
20	GHODMARE YEDANGI MUNESH	Ghodmare	Ghodmare	Ghodmare	Ghodmare	Ghodmare	Ghodmare	Ghodmare	Ghodmare	Ghodmare	Ghodmare
21	HAIJARE SHRAVANI KARTIK	Haijare	Haijare	Haijare	Haijare	Haijare	Haijare	Haijare	Haijare	Haijare	Haijare
22	ILAMKAR SUHANI UTTAM	Ilamkar	Ilamkar	Ilamkar	Ilamkar	Ilamkar	Ilamkar	Ilamkar	Ilamkar	Ilamkar	Ilamkar
23	JANHAVI AVINASH RAURKAR	Janhavi	Janhavi	Janhavi	Janhavi	Janhavi	Janhavi	Janhavi	Janhavi	Janhavi	Janhavi
24	JUNGHARE SANIYA AJAY	Junghare	Junghare	Junghare	Junghare	Junghare	Junghare	Junghare	Junghare	Junghare	Junghare
25	KALMEGH GAYATRI GAJANAN	Kalmegh	Kalmegh	Kalmegh	Kalmegh	Kalmegh	Kalmegh	Kalmegh	Kalmegh	Kalmegh	Kalmegh
26	KAMIDWAR VAIDEHI PRASHANT	Kamidwar	Kamidwar	Kamidwar	Kamidwar	Kamidwar	Kamidwar	Kamidwar	Kamidwar	Kamidwar	Kamidwar
27	KAPSE VIDISHA SIDDHARTH	Kapse	Kapse	Kapse	Kapse	Kapse	Kapse	Kapse	Kapse	Kapse	Kapse
28	KARNIK REVA RAJENDRA	Karnik	Karnik	Karnik	Karnik	Karnik	Karnik	Karnik	Karnik	Karnik	Karnik
29	KHIRODKAR RUCHITA ANIL	Khirodkar	Khirodkar	Khirodkar	Khirodkar	Khirodkar	Khirodkar	Khirodkar	Khirodkar	Khirodkar	Khirodkar
30	KOTALWAR VAISHNAVI RAJKUMAR	Kotalwar	Kotalwar	Kotalwar	Kotalwar	Kotalwar	Kotalwar	Kotalwar	Kotalwar	Kotalwar	Kotalwar
31	KOTHE VAISHNAVI SUNILRAO	Kothe	Kothe	Kothe	Kothe	Kothe	Kothe	Kothe	Kothe	Kothe	Kothe
32	KUMBALKAR SAMIKSHA ANIRUDDHA	Kumbalkar	Kumbalkar	Kumbalkar	Kumbalkar	Kumbalkar	Kumbalkar	Kumbalkar	Kumbalkar	Kumbalkar	Kumbalkar
33	KUMKUM TIWARY	Kumkum	Kumkum	Kumkum	Kumkum	Kumkum	Kumkum	Kumkum	Kumkum	Kumkum	Kumkum



Sr. No.	Student's Name	Day 1		Day 2		Day 3		Day 4		Day 5	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
34	EN22185413 KUNTE MRUNMAYEE PRASHANT	<i>[Signature]</i>	<i>[Signature]</i>			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
35	EN22152047 MANEKAR PRANALI PRAKASH	<i>[Signature]</i>				<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
36	EN22254435 MEHTA KIRAN SHASHIKANT	<i>[Signature]</i>				<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
37	EN22138200 MOUDEKAR SAKSHI PRAMOD					<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
38	EN22153644 MUBALE PRANOTI VINOD	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
39	EN22177672 NIDHI MAKARAND DANDE										
40	EN22192589 NIKHARE SHRUTI MAROTI										
41	EN22100940 NILESHWARI NARENDRA KADE										
42	EN22162673 PAMIDELA KALYANI SAI										
43	EN22205201 PANDE ADITI JITENDRA	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
44	EN22185151 PARSHATWAR AARYA SURENDRA	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
45	EN22210803 PATHAK ASMITA SANJAY	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
46	EN22224348 PAUNIKAR PAYAL RAJENDRA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
47	EN22193903 PAWAR SAKSHI BHAGWAN										
48	EN22202098 PISE DNYANESHWARI HIRAMAN	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
49	EN22212009 POHANE MANASI NARESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
50	EN22207475 RANDIVE GARGI ASHISH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
51	EN22179132 RANE SHRAVANI PRADEEP	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
52	EN22133932 RUNMAL DILIP FALKE	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
53	EN22211895 SAHU ISHIKA SHAILESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
54	EN22103844 SAMIDHA RAM NIKHAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
55	EN22165379 SHARYU GAENDRA ASRE	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
56	EN22170085 SHREYA MONISHANKAR CHAKRABORTY	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
57	EN22149817 THAKRE SAKSHI KISHOR										
58	EN22113413 TONE SRUSHTI PRAKASH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
59	EN22176099 LUKEY ARPITA KISHOR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
60	EN22113663 VAIDYA SURBHI MAHESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
61	EN22175333 VAISHNAVI GHATOL	<i>[Signature]</i>	<i>[Signature]</i>			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
62	EN22148648 WANI JANHAVI PRAFUL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
63	EN22104329 YASHASVI ASHOK RAMDHAM	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
64	EN22238115 ZADE JANVI RAJESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
65	EN22181385 DUBEY RUCHIKA ANIL										
66	EN22233264 KUMBALWAR SHRRAWANI SURESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
67	EN22218354 TURKAR PRIYA SATISH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>





Maharshi Karve Stree Shikshan Samstha's  
**Cummins College of Engineering  
for Women**

*Sharpening Engineering Acumen with a difference*  
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Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

## Department of Computer Engineering

### Report On

## Skill Development Program for second year in Even semester (2023-2024)

The Cummins College of Engineering for women's Nagpur, Computer engineering Department, organized a five days workshop on basics of Python programming and Data Science from 15th January to 18th January 2024. This Training is taken for 2nd year students to enhance the skill and employability of the students in software industries.

Dr. Animesh Tayal (Founder and Director of CODEMATE IT services, Nagpur) took our skill development sessions on basics of Python programming, Libraries of python such as Numpy, Panda, Matplotlib and Seaborn from 15th-17th January. On 18th January the session was entirely dedicated to Data Science where the basic and actual concept and scope of Data science was explained. The purpose of this Workshop and training was to enhance their skill in the field of AI/ML and Web development using Python as programming language and also in the field of Data Science and Statistics .Total 50+ students attended this Training.

The overall Five days workshop and training was very helpful for students as they practiced and solved varieties of problem statements which help them to gain their hands on for logic and speed in coding. Daily assignments and tasks were assigned which helped students to build their interest and curiosity in learning more about the fastest evolving and highly efficient language of programming i.e Python.



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■ website : www.cumminscollege.edu.in



Mouje Sukli (Gupchup), Hingna, Nagpur-441110



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*Sakshi*

Faculty Co-Ordinator  
Prof. Sakshi Khamankar

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website : www.cumminscollege.edu.in

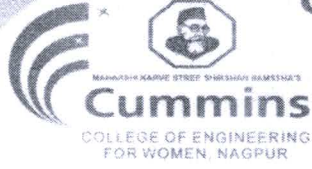
Mouje Sukli (Gupchup), Hingna, Nagpur-441110



Maharshi Karve Stree Shikshan Samstha's

# Cummins College of Engineering for Women

‘सीलं परं भूषणम्’



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Approved by AICTE, New Delhi & DTE, Mumbai

Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University



CCoEW/NGP/

Date: 12- Jan-2024

To,  
**Dr. Animesh Tayal**  
**Director , Codemate IT Services**  
**Nagpur**

Respected Sir,

Greetings from MKSSSS' Cummins College of Engineering for Women, Nagpur

Maharshi Karve Stree Shikshan Samstha's (MKSSSS) Cummins College of engineering for Women, Nagpur is an AICTE and DTE -Maharashtra approved and affiliated to RTM Nagpur University.

For enhancement of Student's skill in other technologies in spite of their academics, the Computer Engineering department will organize a skill development program for 2<sup>nd</sup> Year Student from **15<sup>th</sup> Jan, 2024 to 19<sup>th</sup> Jan 24 on "Python with Data science"** Your lecture will not only enrich their Knowledge but also inspire them to excel in their academic pursuits. It would be a wonderful opportunity for our students to learn from a distinguished expert like you.

Thank You for your time and attention

Warm regards,

Sakshi  
Skill Development

**Coordinator**

Prof. Sakshi Khamankar  
CE Department. CCOEW



Received  
[Signature]

[Signature]

**HOD**

Prof. Sharayu Deote  
CE Department. CCOEW

[Signature]

Dr. Milind Khanapurkar  
Principal

Maharshi Karve Stree Shikshan Samstha's  
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Mouje Sukli (Gupchup), Hingna, Nagpur-441110



## Notice

Dear second year students, the CE department is going to conduct a skill development program from 15 Jan 2024 to 20'th Jan 2024 on **"Python with Data Science"**. All must attend the program, as attendance will be monitored regularly. Schedule of skill development will be forwarded in your class group.

Date: -13/1/2024

  
Program-Coordinator  
S.Khamankar

  
HoD  
S.Deote



  
Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Samstha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.

## Skill Development schedule for second year

Academic Year: -2023-2024

Objectives: -- To make students ready with the knowledge of programming language python and some web designing languages which is useful for various applications also to train students in coding for industrial approach.

About Python: Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding; make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together.

### Skill development program Schedule

Sr no	Days	Content	Time	
1	Day 1 15/1/2024	Introduction to Python Programming	9.00 am – 12.00 pm	
		Variables		
		Type of operators		
		Break		1:00 pm –4:00 pm
		Conditional control		
Iteration Control				
2	Day 2 16/1/2024	Loops in Python	9.00 am – 12.00 pm	
		String built-in functions		
		List -tuple built-in functions		
		Break		1:00 pm –4:00 pm
		Dictionary built-in functions		
Functions in Python				
3	Day 3 17/1/2024	Object Oriented Programming in Python	9.00 am – 12.00 pm	
		User Defined Library		
		Break		1:00 pm –4:00 pm
		Introduction to Data Science		
		Introduction to Statistics		
Types of Analysis				



  
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 Principal  
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4	Day 4 18/1/2024	Numpy (ndarray in Python)	9.00 am – 12.00 pm
		Introduction to Numpy and its attributes	
		Break	
		Statistical Analysis using Numpy	1:00 pm –4:00 pm
Pandas: Introduction to Series and Data Frame			
5	Day 5 19/1/2024	Pandas: Exploratory Data Analysis using pandas (EDA)	9.00 am – 12.00 pm
		Data Visualization using Matplotlib	
		Break	
		Data Visualization using Seaborn	1:00 pm –4:00 pm
Importance of Visualization			

*S.Khamankar*  
Program-coordinator  
S.Khamankar

*S.Deote*  
13/01/24  
HoD  
S.Deote



*Milind*  
Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Sanatha's  
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Dated: 5<sup>th</sup> Jan. 2024

To,  
**Head of Department,**  
Department of Computer Engineering,  
CCOEW, Nagpur

**Subject: Proposal for 1-Week Skill Development Workshop on Python Programming.**

Dear Madam,

I trust this letter finds you well. Codemate IT Services is delighted to propose a comprehensive 1-week Skill Development Workshop for the students of your departments. We aim to empower students with practical knowledge and skills in **Python programming for Data Science** fostering their professional growth and enhancing their competitiveness in the rapidly evolving IT landscape.

**Objective:**

The primary objective of these workshops is to provide students with hands-on experience and proficiency in either Python programming. This workshop is designed to complement their academic learning, offering practical insights and real-world applications.

**Duration and Schedule:**

The workshops will be conducted over the course of one week, with flexible scheduling options to accommodate the academic calendar of your department. Each workshop will consist of daily sessions, allowing students to delve deep into the chosen subject.

**Benefits:**

Participating in these workshops will offer students the following advantages:

- Practical, hands-on experience in a specific technology domain
- A deeper understanding of the chosen subject through interactive learning
- Enhanced employability with relevant skills aligned with industry demands.



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## Name of Course: Python Programming for Data Science

### Introduction

Python is a high-level, interpreted, and general-purpose programming language. It was created by Guido van Rossum in the late 1980s and first released in 1991. Python is designed to be easy to read and write, and it emphasizes code readability. Some of its key features include dynamic semantics, automatic memory management, and a large and comprehensive standard library. Python is widely used in web development, scientific computing, data analysis, artificial intelligence, and many other fields. It is also a popular language for beginners learning to code.

### Why Learn Python Programming

The objective of a Basic Python programming course is to introduce students the skills needed to start writing simple programs. It is scripted, effortless, easy to learn yet most powerful language. It is widely used in IT Industries.

There are several reasons why learn Python programming:

- **Problem-solving skills:** Learning to code in Python helps students develop their problem-solving skills, as they must think critically and creatively to write programs that accomplish specific tasks.
- **Career opportunities:** Python is one of the most in-demand programming languages, and is used in a wide range of industries, including data science, web development, machine learning, and more. Having knowledge of Python can help students enter careers in these and other fields.
- **Preparation for future learning:** Python is a great starting point for students who are interested in computer science or other technical fields, as it provides a solid foundation for learning other programming languages and technologies.
- **Interdisciplinary application:** Python can be used in a wide range of academic disciplines, including mathematics, physics, biology, and more. Knowing Python can help students to analyse and interpret data, build simulations, and more.

Overall, learning Python programming can provide students with a wide range of skills and opportunities that will benefit them both academically and professionally. Whether students are interested in computer science, data analysis, or another field, knowing Python is a valuable asset

### What You Will Learn from this Training

“Python Programming” course aims to teach students the basics of programming using the Python language. The outcomes of the course include:

- Understanding the basic syntax and structure of the Python language.
- Ability to write and execute basic Python programs.
- Familiarity with common data types and data structures in Python.
- Knowledge of control flow and looping constructs in Python.
- Understanding of how to work with files and perform input/output operations in Python.
- Understanding of object-oriented programming concepts, and how they are implemented in Python.



Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Shikshan Sanatha's  
Jyotiba College of Engineering for Women  
Hingna, Nagpur-441118



contact@codemate.co.in

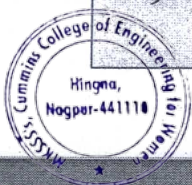


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**Syllabus of Training (Python Programming for Data Science)**

Module No.	Content / Module	Hours
1	<b>Introduction to Python Programming</b> <ul style="list-style-type: none"> <li>• Application of Python</li> <li>• Importance of using Python</li> <li>• Installation and IDLE's</li> </ul>	02
2	<b>What are variables?</b> <ul style="list-style-type: none"> <li>• Type of variables</li> <li>• Do's and Don'ts of variable</li> <li>• Input/output statement</li> </ul>	01
3	<b>Type of operators</b> <ul style="list-style-type: none"> <li>• Arithmetic</li> <li>• Relational</li> <li>• Logical</li> <li>• Bitwise</li> <li>• Examples</li> </ul>	03
4	<b>Conditional Control</b> <ul style="list-style-type: none"> <li>• If, if-else, elif</li> <li>• Iterative Control</li> <li>• while loop</li> <li>• for loop</li> </ul>	05
5	<b>Built-In Data Types and Their Applications</b> <ul style="list-style-type: none"> <li>• String built-in functions</li> <li>• List -tuple built-in functions</li> <li>• Dictionary built-in functions</li> <li>• Set operations.</li> </ul>	04
6	<b>Functions</b> <ul style="list-style-type: none"> <li>• Built in Functions</li> <li>• Defining User Defined function</li> <li>• Calling function</li> <li>• Anonymous function/Lambda function</li> </ul>	03
7	<b>Object Oriented Programming in Python</b> <ul style="list-style-type: none"> <li>• Classes</li> <li>• Objects</li> <li>• Inheritance</li> </ul>	03
8	<b>User Defined Library</b> <ul style="list-style-type: none"> <li>• Creation of Library</li> <li>• Importing Library</li> </ul>	01
<b>Python Libraries</b>		
9	<b>Introduction to Data Science</b> <ul style="list-style-type: none"> <li>• Introduction to Statistics</li> <li>• Types of Analysis</li> </ul>	02

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10	<b>Numpy (ndarray in Python)</b> <ul style="list-style-type: none"> <li>• Introduction to Numpy and its attributes</li> <li>• Statistical Analysis using Numpy</li> </ul>	02
11	<b>Pandas</b> <ul style="list-style-type: none"> <li>• Introduction to Series and Data Frame</li> <li>• Exploratory Data Analysis using pandas (EDA)</li> </ul>	02
12	<b>Data Visualization using Matplotlib &amp; Seaborn</b> <ul style="list-style-type: none"> <li>• Importance of Visualization</li> <li>• Plotting of basic visuals</li> <li>• Advance Plots</li> </ul>	02
<b>Total Hours</b>		<b>30</b>

During training students will be submitting:

<b>Quizzes</b>	<b>5</b>
<b>Assignment</b>	<b>5</b>
<b>Capstone Project</b>	<b>1</b>

**Next Steps:**

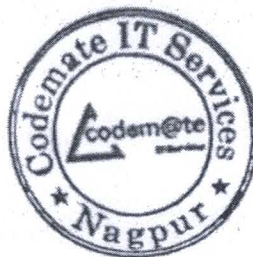
We are eager to discuss this proposal further and address any specific requirements or concerns your department may have. Please let us know a convenient time for a meeting, and we will be happy to present the workshops in more detail.

Thank you for considering Codemate IT Services as your partner in enhancing the skills and capabilities of your students. We look forward to the opportunity to contribute to the academic and professional success of the students.

Sincerely,

**Dr. Animesh Tayal**  
Director  
Codemate IT Services

**Dr. Milind Khanapurkar**  
Principal  
Maharshi Karve Stree Shikshan Sanatha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.



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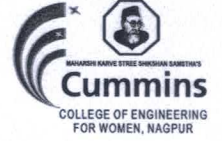
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Date: 19/1/2024

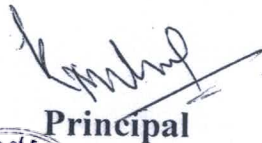
## LETTER OF THANKS

To,  
**Dr. Animesh Tayal**  
Director, Codemate IT Services  
Nagpur

Dear Sir,

We are thankful to you for sharing your knowledge & sparing your valuable time with our students. We are sure that our students got benefited by gaining knowledge in the field of **"Python with Data science"** from **15<sup>th</sup> Jan, 2024 to 19<sup>th</sup>-Jan-2024** We would like to personally thanks to you and your organization for this co-operation & looking forward for further interaction.

With Regards.



Principal

**Dr. Milind Khanapurkar**







Dr. Milind Khanapurkar  
Principal

Maharshi Karve Stree Shikshan Samstha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.





# Department of Computer Engineering

4<sup>th</sup> Semester | Student Roll List | A.Y. 23-24 Even Semester

## Skill Development Program - Python with Data Science

Guest Name :- Dr. Animesh Tayal

15-01-24 To 19-02-24

Roll No	Student Name	15-01-2024	16-01-2024	17-01-2024	18-01-2024	19-01-2024
4CE01	Achal Sukhadev Thakare				<del>Anchal</del>	<del>Anchal</del>
4CE02	Aditi Ashish Sadhankar	<del>Aditi</del>	Aditi	Aditi	Aditi	Aditi
4CE03	Akanksha Govind Munde	<del>Amunde</del>	Amunde	Amunde	Amunde	Amunde
4CE04	Aliya Parveen Mohammad Sadique		Aliya	Aliya	Aliya	Aliya
4CE05	Ananya Shashikant Shingade		Ananya	Ananya	Ananya	Ananya
4CE06	Anjali Avinash Vyavhare	<del>Anjali</del>	Anjali	Anjali	Anjali	Anjali
4CE07	Anushka Jagdishkumar Maske					
4CE08	Arya Ajay Ambagade	<del>Arya</del>	Arya	Arya	Arya	Arya
4CE09	Asawari Atul Dharme		Asawari	Asawari	Asawari	Asawari
4CE10	Awantika Vivek Thawale	<del>Awantika</del>	Awantika	Awantika	Awantika	Awantika
4CE11	Bhumika Rohidas Pawar					
4CE12	Chandni Gulcharan Sahu	<del>Chandni</del>	Chandni	Chandni	Chandni	Chandni
4CE13	Devashree Ashish Nasare	<del>Devashree</del>	Devashree	Devashree	Devashree	Devashree
4CE14	Dhanshri Pawnikar	<del>Dhanshri</del>	Dhanshri	Dhanshri	Dhanshri	Dhanshri
4CE15	Divya Raju Shivankar					
4CE16	Drishti Dhananjay Ambastha	<del>Drishti</del>	Drishti	Drishti	Drishti	Drishti
4CE17	Gayatri C Bannagare	<del>Gayatri</del>	Gayatri	Gayatri	Gayatri	Gayatri
4CE18	Hiranshi Manoj Pal	<del>Hiranshi</del>	Hiranshi	Hiranshi	Hiranshi	Hiranshi
4CE19	Janhvi Ajay Dhage	<del>Janhvi</del>	Janhvi	Janhvi	Janhvi	Janhvi
4CE20	Janvi Anil Bhise	<del>Janvi</del>	Janvi	Janvi	Janvi	Janvi
4CE21	Kalpana Rajendra Karpate	<del>Kalpana</del>	Kalpana	Kalpana	Kalpana	Kalpana
4CE22	Kashish Wankhede					
4CE23	Khushi Ashok Doye	<del>Khushi</del>	Khushi	Khushi	Khushi	Khushi
4CE24	Kishita Deotale	<del>Kishita</del>	Kishita	Kishita	Kishita	Kishita
4CE25	Kritika Balaji Iyengar		Kritika	Kritika	Kritika	Kritika
4CE26	Leena Raju Waghmare	<del>Leena</del>	Leena	Leena	Leena	Leena
4CE27	Madhura Shriram Joshi		Madhura	Madhura	Madhura	Madhura
4CE28	Manasi Shashank Puranik	<del>Manasi</del>	Manasi	Manasi	Manasi	Manasi
4CE29	Mansi Anil Bhawe	<del>Mansi</del>	Mansi	Mansi	Mansi	Mansi
4CE30	Mansi Sanjay Mandade		Mansi	Mansi	Mansi	Mansi
4CE31	Muskan Bharat Thakur	<del>Muskan</del>	Muskan	Muskan	Muskan	Muskan
4CE32	Niketa Toliram Tembhare	<del>Niketa</del>	Niketa	Niketa	Niketa	Niketa
4CE33	Nimisha Lokesh Katre	<del>Nimisha</del>	Nimisha	Nimisha	Nimisha	Nimisha
4CE34	Nitika Rajendra Padmakar	<del>Nitika</del>	Nitika	Nitika	Nitika	Nitika
4CE35	Ojasvita Sanjay Akojwar		Ojasvita	Ojasvita	Ojasvita	Ojasvita
4CE36	Pavithra Asokan	<del>Pavithra</del>	Pavithra	Pavithra	Pavithra	Pavithra



**Kindred**  
 Dr. Milind Khanapurkar  
 Principal

Roll No	Student Name	15-01-2024	16-01-2024	17-01-2024	18-01-2024	19-01-2024
4CE37	Pooja Prakash Jesu					
4CE38	Poonam Vijaykumar Paliwal	Paliwal	Paliwal	Paliwal	Paliwal	Paliwal
4CE39	Prachiti Prashant Kothekar	Pkothekar	P.	P.	P.K.	
4CE40	Renuka Suresh Narkhede		R.Narkhede	R.Narkhede	R.Narkhede	R.Narkhede
4CE41	Ritika Kumari	Ritika	Ritika	Ritika	Ritika	Ritika
4CE42	Rohini Santoshrao Bhalavi	R.Bhalavi	R.Bhalavi	R.Bhalavi	R.Bhalavi	R.Bhalavi
4CE43	Rutuja Pramod Sangole		R.P.Sangole	R.P.Sangole	R.P.Sangole	R.P.Sangole
4CE44	Sai Mangesh Gaikwad	Gaikwad	Gaikwad	Gaikwad	Gaikwad	Gaikwad
4CE45	Sakshee Suresh Poradwar		Sakshee	Sakshee	Sakshee	Sakshee
4CE46	Sakshi Santosh Agnihotri	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
4CE47	Saloni Homdeo Shahare					
4CE48	Sanjivani Tarachand Hatwar	Sanji	Sanji	Sanji	Sanji	Sanji
4CE49	Shalvi Vilas Dangre			Shalvi	Shalvi	Shalvi
4CE50	Sharvari Subhash Shahane	Shahane	Shahane	Shahane	Shahane	Shahane
4CE51	Shashwati Pandurang Pupulwad	Pupulwad	Pupulwad	Pupulwad	Pupulwad	Pupulwad
4CE52	Sheetal Chandrashekhar Naik					
4CE53	Shital Prakash Takalkhede	Takalkhede	Takalkhede	Takalkhede	Takalkhede	Takalkhede
4CE54	Shreya Maroti Yelure	Yelure	Yelure	Yelure	Yelure	Yelure
4CE55	Shreya Ravindra Raut	Raut	Raut	Raut	Raut	Raut
4CE56	Shrushti Gajendra Potdukhe					
4CE57	Shrushti Mansaram Dokarimare	Shrushti	Shrushti	Shrushti	Shrushti	Shrushti
4CE58	Shruti Haridas Umale		Shruti	Shruti	Shruti	Shruti
4CE59	Shruti Sunil Meshram		Shruti			Shruti
4CE60	Shuchi Mishra	Mishra	Mishra	Mishra	Mishra	Mishra
4CE61	Sonia Sharma	Sonia	Sonia	Sonia	Sonia	Sonia
4CE62	Srushti Sunil Padole		Srushti	Srushti	Srushti	Srushti
4CE63	Tanishka Dilip Maske	T.D.Maske	T.D.Maske	T.D.Maske	T.D.Maske	T.D.Maske
4CE64	Tannu Bhimrao Bondre					
4CE65	Tanvi Munna Punde	Punde	Punde	Punde	Punde	Punde
4CE66	Tanvi Pradeep Wankhade	Wankhade	Wankhade	Wankhade	Wankhade	Wankhade
4CE67	Vaibhavi Hemant Suradkar		Vaibhavi			Vaibhavi
4CE68	Vaidehi Omprakash Turkar	Turkar	Turkar	Turkar	Turkar	Turkar
4CE69	Vaishnavi Pankaj Mishra	Mishra	Mishra	Mishra	Mishra	Mishra
4CE70	Vaishnavi Samir Kulkarni					
4CE71	Vaishnavi Shailesh Lanjewar		Lanjewar			Lanjewar
4CE72	Vaishnavi Shekhar Bodele	Bodele	Bodele	Bodele	Bodele	Bodele



Faculty Co-Ordinator  
Sakshi Khamankar

HOT  
Prof. S.J. Deote

**Kindred**

Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Sanatha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441118.



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Dt.19/01/2024

To,  
The Principal,  
CCOEW, Nagpur

Subject: -- Remuneration for the skill Development Program .

R/sir,

With reference to above subject, as we are arranging a Skill Development Program based on "Python with Data science" from 15<sup>th</sup> Jan, 2024 to 19<sup>th</sup>-Jan-2024 for Second Year Student of computer department by **Dr. Animesh Tayal Director of Codemate IT Services, Nagpur**

Detail information of speaker and their remuneration is as follows:-

Sr.No	Name of speaker	Time	Amount
01	<b>Dr. Animesh Tayal Director Codemate IT Services</b>	9:00 to 4:00 pm am	₹ 20000/-

So, please sanction above amount for the same

Thanking you,



*[Signature]*  
HOD

Department of Computer Engineering.

*[Signature]*  
Principal

Approved / Not approved.

■ Tel. No. : 9657667030 ■ E-mail : office@cumminscollege.edu.in  
■ website : www.cumminscollege.edu.in

Mouje Sukli (Gupchup), Hingna, Nagpur-441110

*[Signature]*  
Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Samstha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.





## Department of Computer Engineering

### Report On

### Skill Development Program in Odd semester (2023-2024)

The Cummins College of Engineering for women, Nagpur, Computer engineering Department, organized Skill Development program for third year students. The department has organized a 6 days (36 hours) workshop on “**Machine and Deep Learning**” from 24<sup>th</sup> July to 29<sup>th</sup> July 2023. This Training was organized to make students ready with the knowledge of Machine Learning that allows the computer to learn and identify patterns from data. Also, machine learning is utilized to make informed business decisions therefore its understanding and usage are fundamental in today’s world. Deep learning is a sub field in the world of Machine learning mainly based around neural networks - a conceptual model of the human brain that has been around for decades but is getting more and more attention in the last several years. Hands on sessions were organized on all algorithms followed by Q/A session. Total 60+ students get benefited by workshop. The workshop was conducted by Ms. Neema Amish Ukani (Director - NU intelligence Pvt. Ltd.)



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Sukali, Maharashtra, India

Cummins College of Engineering for Women, Sukali, Maharashtra 441110, India

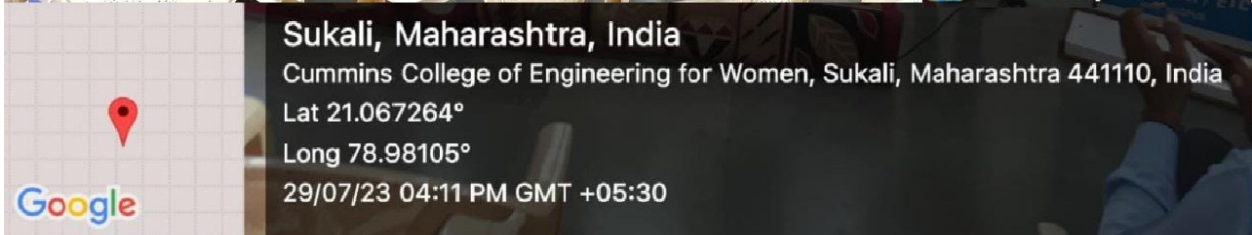
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*Milind*  
Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Samstha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.



**Co-ordinator**

**Prof. Pinky Gangwani**

*Milind*

**Dr. Milind Khanapurkar**  
Principal  
Maharshi Karve Stree Shikshan Samstha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.

**HOD**

**Prof. Sharyu Deote**



## Department of Computer Engineering

### Report On

### Skill Development Program in Odd semester (2023-2024)

The Cummins College of Engineering for women, Nagpur, Computer engineering Department, organized Skill Development program for final year students.

The department has organized a 5 days (30 hours) workshop on “**Core and Advance JAVA programming**” from 17<sup>th</sup> July to 21<sup>st</sup> July 2023. This Training was organized to make students ready with the knowledge of Core and Advance JAVA programming which is beneficial for upcoming placement opportunities followed by Q/A session. Total 45+ students get benefited by workshop. Workshop was conducted by Prof. Shailesh Sahu (CE department).



**K. Milind**  
Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Samstha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.



**Co-ordinator**

**Prof. Pinky Gangwani**



**HOD**

**Prof. Sharyu Deote**

*Kamling*  
**Dr. Milind Khanapurkar**  
 Principal  
 Maharshi Karve Stree Shikshan Samstha's  
 Cummins College of Engineering for Women  
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## Department of Computer Engineering

### Report On

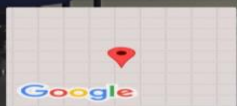
### Skill Development Program in Odd semester (2023-2024)

The Cummins College of Engineering for women, Nagpur, Computer engineering Department, organized Skill Development program for 2<sup>nd</sup> year students. On 14<sup>th</sup> August, the department organized a morning session on Basics of C programming by Prof. Avantika wadaskar and afternoon session on Basics of Python programming by Prof. Gourav Agrawal.

The department has also organized a 4 days (24 hours) workshop on “Basic Computing & System Security” from 16<sup>th</sup> August to 19<sup>th</sup> August 2023 by VCF Cyber Solutions Pvt. Ltd., Nagpur. This Training was organized to make students ready with the knowledge regarding Windows / Linux Operating systems, Basic Networking Concepts, Banking and Cloud Security, Internet Security, Social Engineering and Data Backup & Recovery followed by Q/A session. Total 45+ students get benefited by workshop. Workshop was conducted by Ms. Isha Mujumdar.

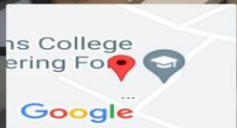


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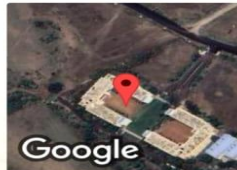
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Co-ordinator  
**Prof. Pinky Gangwani**

*Kimlind*

Dr. Milind Khanapurkar  
 Principal  
 Maharshi Karve Stree Shikshan Sanetha's  
 Cummins College of Engineering for Women  
 Hingna, Nagpur-441110.

HOD  
**Prof. Sharyu Deote**



## Department of Allied Science

### **Report of Student Induction Program for First Year Students 7<sup>th</sup> August to 25<sup>th</sup> August 2023-24(Phase one)**

**Date- 19/08/2023**

**Day- 10**

**Session- 1**

**Venue- Seminar Hall**

**No. of Students- 236**

**Resource Person- Er. Gaurav Agrawal**

**Designation- Assistant Professor of Computer Engineering Dept.**

**Topic- Introduction to Data Science, AI & ML.**

**Contents: Data, Data Science, Types of Data, Definition of AI, ML, Types of Learning algorithms.**

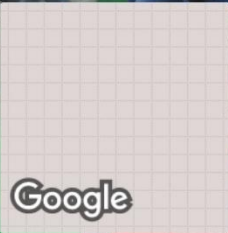
On dated 19/08/2023, Er. Gaurav Agrawal of Computer Engineering Department has delivered a session on “Introduction to Data Science, AI & ML”. He is a researcher and pursuing his Ph.D in the field of Data Analytics. This session was undertaken under the Student Induction Program of First Year Engineering. In all there are 236 students benefitted by the program.

He has covered data, data science, usage of data, how data is useful for industry, introduction of AI and ML. The session was interactive one. Students resolved their queries related to emerging technologies.




*Milind*  
Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Samstha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.

**Geotag Photographs**



**Sukali, Maharashtra, India**  
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 441110, India  
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 Long 78.981493°  
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*Prasanna*

**Resource Person:**

**SIP Coordinator**

**HoD(A.S)**

**Dean Academics**



*Khind*  
**Dr. Milind Khanapurkar**  
 Principal  
 Maharshi Karve Stree Shikshan Samstha's  
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 Hingna, Nagpur-441110.



## Mechanical Engineering Department

Session 2023-24 Odd

Skill Development Report

ANSYS Training & Workshop

### ABOUT THE PROGRAMME:

ANSYS Basic Mech & CFD training was conducted at **Cummins college of Engineering for Women** campus from 10th to 11th Oct 2023. The Program was attended by third- and fourth-year students of Mechanical Department of Cummins college of Engineering for Women, Nagpur.

### RESOURCE PERSON:

The technical sessions and hands on training were handled by **Mr. Rohit Sangwan** ANSYS Senior Application Engineer, ARK Infosolutions Pvt Ltd. The activities conducted during the program are as follows:

### TOPICS COVERED:

#### Day 1 (10/11/2023)

9.00 am to 9.30 am

1. Introduction to Ansys GUI (Ansys Workbench)

9.30 am to 11.00 am

2. Geometry Creation, Repair & Preparation Techniques with hands on

11.15 to 12.30 noon

3. Geometry Creation, Preparation for complete analysis in CFD

1.15 pm to 1.45 pm

4. Introduction to Workbench Meshing, Different Meshing Techniques Workshop

2.00 to 4.00 pm

Workbench Meshing



*Milind*  
Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Samstha's  
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**Day 2 ( 11/10/2023)**

9.00 am to 10.00 am

**6. Introduction to CFD**

10.00 am to 11.15 am

**7. Flow in Elbow pipe, Simple Pipe- Laminar & Turbulent Flow**

11.30am to 12.30 pm

**8. Fluid flow and heat transfer in mixing Tee**

1.15 pm to 2.00 pm

**9. Basic structure Analysis for Beam**

2.00 pm to 3.00 pm

**10. Steady and Transient Thermal Analysis**

3.15 pm to 3.45 pm

**11. ANSYS innovation Courses Overview**

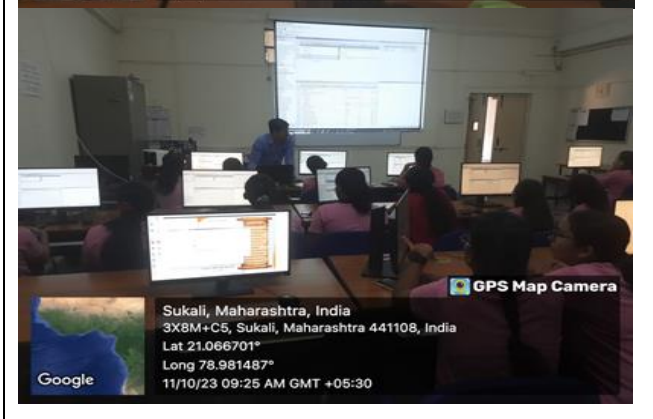
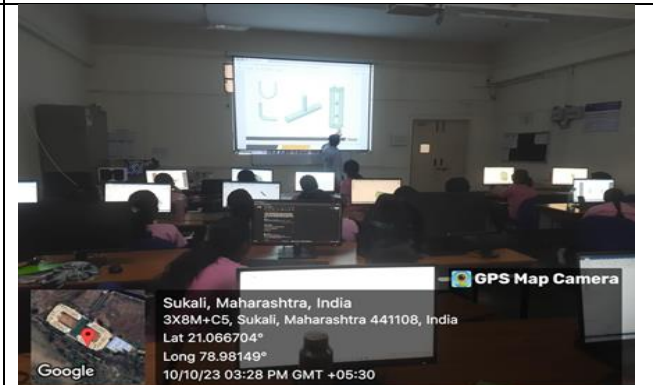
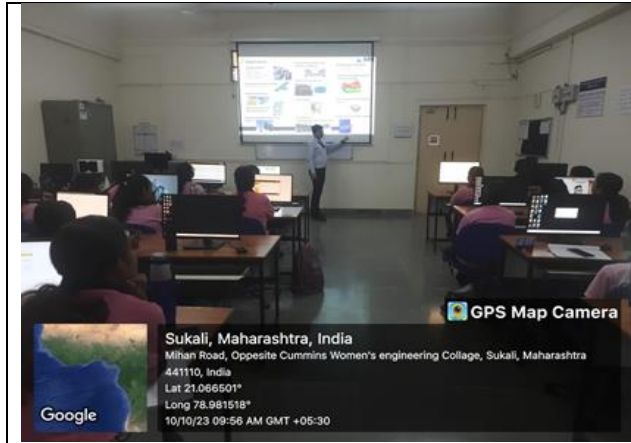
The event was highly successful in terms of attendance as well as quality of training. 34 students out of 37 students attended all sessions on both days from 9.00 am to 4.00 pm.

Prof. Sushil Lanjewar, Prof. Aditya Kawadskar, & Shri. Nikhil Sengar from the department assisted training and workshop on both days



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Principal  
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**PHOTOS**



**Mr. Rohit Sangwan ANSYS Senior Application Engineer demonstrating the software**

*Rohit Sangwan*

H.O.D

Mechanical Engineering Department



*Milind*

Dr. Milind Khanapurkar  
Principal

Maharshi Karve Stree Shikshan Samstha's  
Cummins College of Engineering for Women  
Hingna, Nagpur-441110.

## SCHEDULE SKILL DEVELOPMENT WEEK- 8/01/2024 to 13/01/2024

### B.TECH -IV SEM (Mechanical Engineering)

Day	date	Topic	Time	faculty
Monday	8/1/24	Inauguration , Introduction of faculty	9.00 am to 9.30	Dr. Mahesh Shukla
		Introduction of subjects/ streams and importance of Mechanical Engineering	9.30 to 10.00	Dr. Mahesh Shukla
		Assignment of Tasks ( in groups of 4) Total 14 groups	10.00 to 10.30	All faculties
		Machines/types/identification/use	11.00 to 12.20	Dr. Khekale/Prof. V. Dandekar/ Dr. S Aloni
		Machines/types/identification/use	1.00 to 2.00	Dr. Khekale/ Availability of faculty/ Dr. S Aloni
		Hands on Identification of tools, equipment	2.30 to 4.00	A .Kawadaskar / V. Dandekar
		Literature on Tools , Equipment, machines (reading )	2.30 to 4.00	A .Kawadaskar/ V. Dandekar
Tuesday	9/1/24	Machines/types/identification/use	9.00 to 12.20	Prof. Y.Dandekar/Prof. Prasanna Mahankar / Dr. Dr. S Aloni
		Machines/types/identification/use	1.00 to 2.00	Dr. Khekale/ Availability of faculty/ Dr. S Aloni
		Hands on Identification of tools, equipment	2.30 to 4.00	A .Kawadaskar / V. Dandekar
		Literature on Tools , Equipment, machines (reading )	2.30 to 4.00	A .Kawadaskar/ V. Dandekar
Wednesday	10/01/24	Machines/types/identification/use	9.00 to 12.20	Prof. Y.Dandekar/Prof. Prasanna Mahankar / Dr. Dr. S Aloni
		Machines/types/identification/use	1.00 to 2.00	Dr. Khekale/ Availability of faculty/ Dr. S Aloni
		Hands on Identification of tools, equipment	2.30 to 4.00	A .Kawadaskar / V. Dandekar
		Literature on Tools , Equipment, machines (reading )	2.30 to 4.00	A .Kawadaskar/ V. Dandekar

**SKILL DEVELOPMENT WEEK- 8/01/2024 to 13/01/2024**

**B.TECH -IV SEM (Mechanical Engineering)**

Thursday	11/01/24	1. Compact onion cutting Machine	9.00 to 4.00	1 Dr. S.Khekale
Friday	12/01/24	2. Cooling Apparatus for heat treatment process		2 Prof. Y.Dandekar
Saturday	13/01/24	3. Design & Fabricate a boat to sustain specific load in certain flow		3 Prof. P Mahankar
		4. Compact carrot cutting machine		4 Dr. S.Khekale
		5. Automatic opening & closing of gate using microcontroller & sensors		5 Prof. S. Lanjewar
		6. Mechanical spider using linkages & without using electric circuit		6 Prof V. Dandekar
		7. Garlic peeling machine		7 Dr. S.Khekale
		8. Waste to Models		8 A .Kawadaskar



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**SKILL DEVELOPMENT WEEK- 8/01/2024 to 13/01/2024**

**B.TECH -VI SEM & VIII SEM (Mechanical Engineering)**

Sr. No.	Details	Software/ Hardware	Faculty	Time
1	AutoCAD 2023	Software	Prof. A. Kawdaskar Prof. S. Lanjewar Prof. Y.Dandekar	9.00 am to 12.00 noon 1.00 pm to 4.00 pm (All days )
2	Ansys 2023 R1	Software		
3	Creo 2.0	Software		
4	KISS-Slicer (3D Printing Software)	Software		
5	Dobot Studio 1.5 (robot Software)	Software		
6	Dobot Magician 4-DOF Robot	Hardware		
7	3D Printing Machine	Hardware		



Dr. Mahesh R. Shukla

Head of Department



*Kmilind*  
Dr. Milind Khanapurkar  
Principal  
Maharshi Karve Stree Shikshan Samstha's  
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Hingna, Nagpur-441110.

## REPORT OF SKILL DEVELOPMENT WEEK

Mechanical Engineering department of Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women, Nagpur successfully conducted Skill Development Week from 8<sup>th</sup> January to 12<sup>th</sup> January 2024 second year, third year and final year students. Objective of skill development week is to inculcate soft and hard skills for overall technical development of the students. Dr. Mahesh R. Shukla, HOD, emphasized on the importance of Skill Development for the filling up of Industry Institute gap.

Prof. Sushil Lanjewar conducted the different session on Ansys 23 software, CAD software, Robot etc. The Ansys is simulation software that can be important for students because it helps them develop skills that are in demand in the engineering, science, and design fields. Computer-aided design (CAD) software is important to students because it can help them develop skills that are useful in many industries, including architecture, engineering, construction, interior design, and manufacturing.

Prof. Aditya kawadskar explain and demonstrate Identification of tools, equipment. Prof. Vikram Dandekar and Prof. Yogesh Dandekar elaborated the importance of the various parts of the four strokes, six and eight cylinder diesel engine as well as the performance of these engines at various working conditions at workshop of the college. They also take hand omn of dierent machines used for sthenth of materials. Dr. Shailesh khekale and Dr. Snajy Aloni focused on the working of two wheelers and different foundry tools for making different sand molds at foundry shop of the college as well as different Machines its types, identification and use. Prof. Prasanna Mahankar explained various measuring units applicable in solving numerical problems and theorem. He conducted student activity in terms of measuring volume of some class rooms for practical understanding the calculation of volume of the air.

The students also gave some problem statements to conduct group activities like Design & Fabricate a boat to sustain specific load in certain flow, Waste to Models, Garlic peeling machine etc. Prof. Aditya Kawadaskar explained various mechanical linkages and mechanism in 4 stroke diesel engines at work shop. He conducted student activity to find the type of mechanism in lathe, drilling and shaper machine.



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**Department of Mechanical Engineering**

**SKILL DEVELOPMENT WEEK (2023-24)**

**Attendance**

**4<sup>th</sup> Sem**

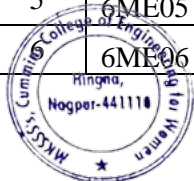
Sr. No.	Roll No.	Name of Students	08/01/24	09/01/24	10/01/24	11/01/24	12/01/24
1	4ME01	Achal D Pote	P	P	P	P	P
2	4ME02	Adhiti Dhokane	P	P	P	P	P
3	4ME03	Akshita R Mohite	P	P	P	P	P
4	4ME04	Alisha A Madavi	P	P	P	P	P
5	4ME05	Anjali P Kadam	P	P	P	P	P
6	4ME06	Avantika R Mohare	P	P	P	P	P
7	4ME07	Bhagyashri A. Gatade	P	P	P	P	P
8	4ME08	Damini G. Parse	P	P	P	P	P
9	4ME09	Diya Y. Bhotmange	P	P	P	P	P
10	4ME10	Dnyandipika V. Chikate	P	P	P	P	P
11	4ME11	Gauri R. Gawande	P	P	P	P	P
12	4ME12	Gayatri P. Fulbandhe	P	P	P	P	P
13	4ME13	Harshita N. Mankar	P	P	P	P	P
14	4ME14	Himani Vilas Paunkar	P	P	P	P	P
15	4ME15	Kiran R. Gotmare	P	P	P	P	P
16	4ME16	Kirti L. Rahangdale	P	P	P	P	P
17	4ME17	Kritika Choudhari	P	P	P	P	P
18	4ME18	Krupa A. Vinchurkar	P	P	P	P	P
19	4ME19	Mansi Gore	P	P	P	P	P
20	4ME20	Mansi Sanjay Satpute	P	P	P	P	P
21	4ME21	Mansvi Mahajan	P	P	P	P	P
22	4ME22	Mayuri R Nagalwade	P	P	P	P	P
23	4ME23	Nidhi Arvind Borkar	P	P	P	P	P
24	4ME24	Palak C Bondre	P	P	P	P	P
25	4ME25	Pallavi Rukesh Nighot	P	P	P	P	P
26	4ME26	Payal J Yadav	P	P	P	P	P
27	4ME27	Payal S Mekratwar	P	P	P	P	P
28	4ME28	Prachi R Kalambhe	P	P	P	P	P
29	4ME29	Prakruti N Mowade	P	P	P	P	P
30	4ME30	Prerna Raju Kanhere	P	P	P	P	P



31	4ME31	Riddhi N Kawale	P	P	P	P	P
32	4ME32	Rucha Sushant Ingle	P	P	P	P	P
33	4ME33	Sakshi B Bhiwapurkar	P	P	P	P	P
34	4ME34	Sakshi S Chakole	P	P	P	P	P
35	4ME35	Saloni Vikas Kamble	P	P	P	P	P
36	4ME36	Samruddhi P Bhaiswar	P	P	P	P	P
37	4ME37	Sanskriti R Dhote	P	P	P	P	P
38	4ME38	Sanskriti S Kukekar	P	P	P	P	P
39	4ME39	Shrawani Shrikhande	P	P	P	P	P
40	4ME40	Shrawani V Tabhane	P	P	P	P	P
41	4ME41	Shreeya J Chikhalkar	P	P	P	P	P
42	4ME42	Shrija G Lanjewar	P	P	P	P	P
43	4ME43	Shruti B Raut	P	P	P	P	P
44	4ME44	Shruti Sachin Anjankar	P	P	P	P	P
45	4ME45	Shrutika A Gedam	P	P	P	P	P
46	4ME46	Simran Shekh	P	P	P	P	P
47	4ME47	Sneha Vilas Kore	P	P	P	P	P
48	4ME48	Sneha V Kumbhare	P	P	P	P	P
49	4ME49	Snehal Rajesh Saurkar	P	P	P	P	P
50	4ME50	Suhani Kishor Dhapke	P	P	P	P	P
51	4ME51	Surbhi Nagar	P	P	P	P	P
52	4ME52	Tejaswini Verma	P	P	P	P	P
53	4ME53	Trupti Ramavtar Zade	P	P	P	P	P
54	4ME54	Utpreksha R Halmare	P	P	P	P	P
55	4ME55	Vaishnavi S Yewale	P	P	P	P	P
56	4ME56	Vedika Singh	P	P	P	P	P

### 6<sup>th</sup> sem

Sr. No.	Roll No.	Name of Students	08/01/24	09/01/24	10/01/24	11/01/24	12/01/24
1	6ME01	Aditi Narayan Ragit	P	P	P	P	P
2	6ME02	Annu Pramod Shukla	P	P	P	P	P
3	6ME03	Apurva Uday Malode	P	P	P	P	P
4	6ME04	Ayushka Yewale	P	P	P	P	P
5	6ME05	Gunjan Sahstrabuddhe	P	P	P	P	P
	6ME06	Kalpna Amarsing Rathod	P	P	P	P	P



7	6ME07	Kamna Rahul Tapase	P	P	P	P	P
8	6ME08	Poonam Narendra Mishra	P	P	P	P	P
9	6ME09	Prasanna Kumari Kantipudi	P	P	P	P	P
10	6ME10	Sneha Tembburne	P	P	P	P	P
11	6ME11	Vaibhavi Sanjayrao Naik	A	A	P	P	P
12	6ME12	Vaishnavi Dilip Bibekar	A	A	P	P	A
13	6ME13	Vishakha Vijay Ingole	A	A	A	A	A

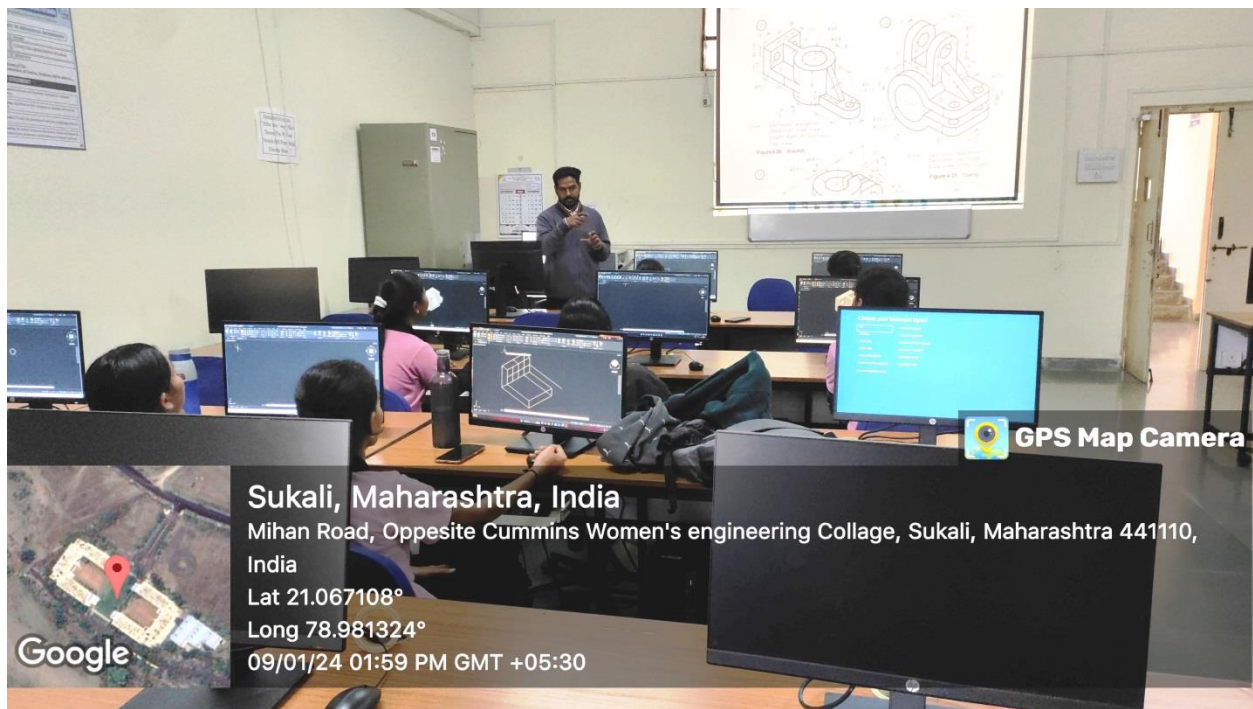
### 8<sup>th</sup> sem

Sr. No.	Roll No.	Name of Students	08/01/24	09/01/24	10/01/24	11/01/24	12/01/24
1	8ME01	Achal Giradkar	P	P	P	P	P
2	8ME02	Dhanshri Nirwan	P	P	P	P	P
3	8ME03	Gayatri Deshpande	P	P	P	P	P
4	8ME04	Leena Walke	P	P	P	P	P
5	8ME05	Mahima Dubey	P	P	P	P	P
6	8ME06	Mimanshi Tembburne	P	P	P	P	P
7	8ME07	Minal Gajbhiye	P	P	P	P	P
8	8ME08	Pragati Murskar	P	P	P	P	P
9	8ME09	Prajakta Gedam	P	P	P	P	P
10	8ME10	Pratiksha Munde	P	P	P	P	P
11	8ME11	Priyanka Choudhari	P	P	P	P	P
12	8ME12	Rajia Biswas	P	P	P	P	P
13	8ME13	Rina Kshirsagar	P	P	P	P	P
14	8ME14	Riya Khaparde	P	P	P	P	P
15	8ME15	Rutuja Chaudhari	P	P	P	P	P
16	8ME16	Sakshi Chawhare	P	P	P	P	P
17	8ME17	Samruddhi Patil	P	P	P	P	P

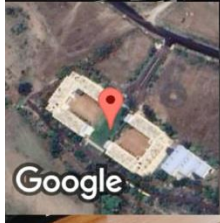


18	8ME18	Shreeya Khobragade	P	P	P	P	P
19	8ME19	Shruti Suryawanshi	P	P	P	P	P
20	8ME20	Shunalika Walke	P	P	P	P	P
21	8ME21	Swara Tupe	P	P	P	P	P
22	8ME22	Tannu Gaikwad	P	P	P	P	P
23	8ME23	Tanvi Mahankar	P	P	P	P	P
24	8ME24	Tejaswini Kinhikar	P	P	P	P	P

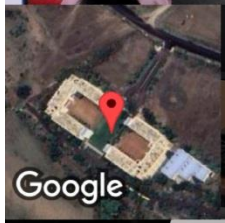
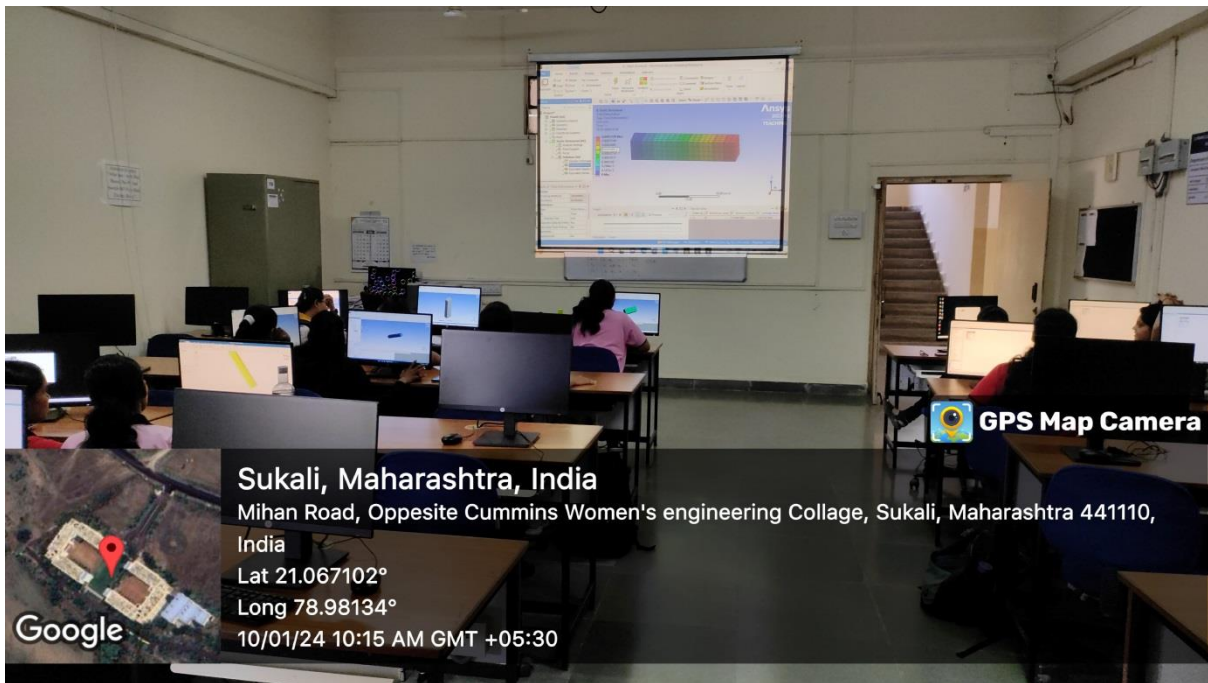
### Photos of the Skill Development Week



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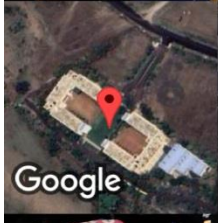
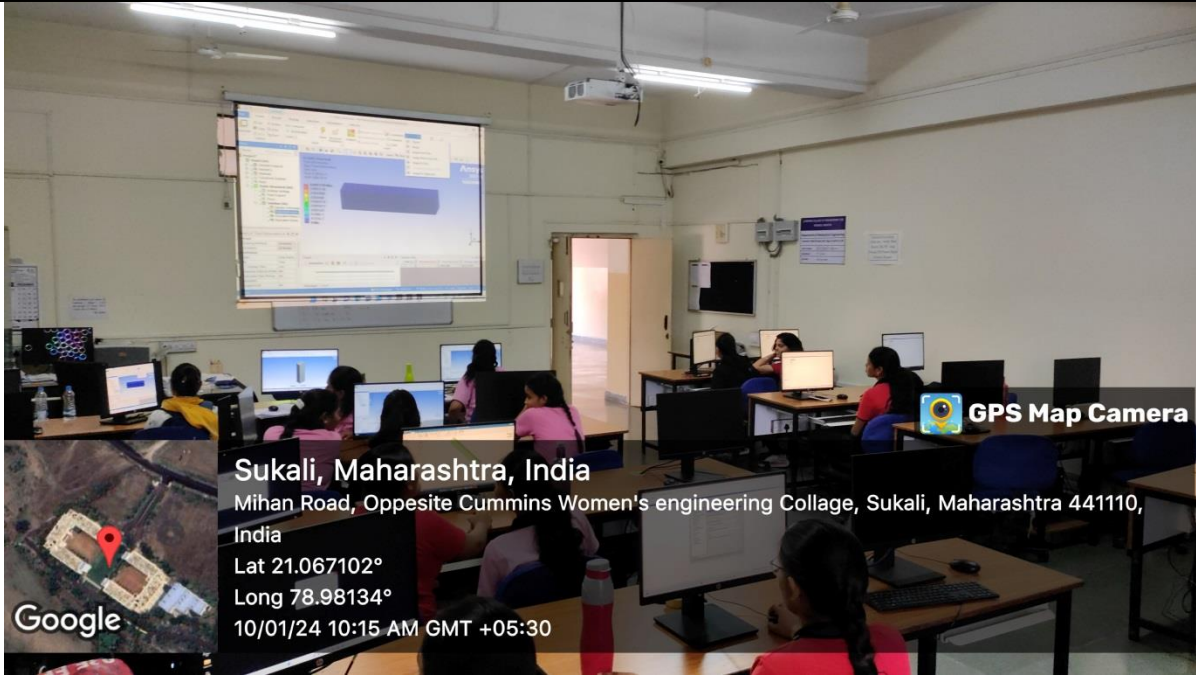
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 India  
 Lat 21.067108°  
 Long 78.981324°  
 09/01/24 01:58 PM GMT +05:30



**Sukali, Maharashtra, India**  
 Mihan Road, Opposite Cummins Women's engineering Collage, Sukali, Maharashtra 441110,  
 India  
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 Long 78.98134°  
 10/01/24 10:15 AM GMT +05:30

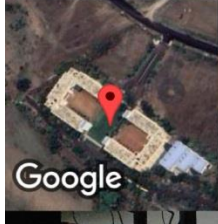


  
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 **GPS Map Camera**



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 **GPS Map Camera**

  
**Dr. Milind Khanapurkar**  
 Principal  
 Maharshi Karve Stree Shikshan Sanatha's  
 Cummins College of Engineering for Women  
 Hingna, Nagpur-441110.



**Dr. Mahesh R. Shukla**  
 Head of Department