



## Shri Sant Gajanan Maharaj College of Engineering, Shegaon

|   |   |
|---|---|
| Name of the event:  | Field Visit to V. R. Jamdar Siemens Center of Excellence Nagpur   |
| Academic year   | 2023-2024   |
| Program Theme   | Innovation  |
| Start date & End Date (DD/MM/YYYY)                                    | 23/01/2024  |
| Duration of the activity(in hours)                                    | 5 Hours (11.00AM – 4.00PM)  |
| No. Participants (Student / Faculty/If any External participants)     | Students 58 & faculty 2   |
| Mode of session(online/offline)                                       | Offline   |
| Program driven by   | Innovation  |
| Session link / Offline venue<br><br>All Social Media Link (Promotion) | <p>Facebook:<br/><a href="https://www.facebook.com/ssgmceofficialpage/">https://www.facebook.com/ssgmceofficialpage/</a></p> <p>Instagram:<br/><a href="https://www.instagram.com/ssgmceshegaon/">https://www.instagram.com/ssgmceshegaon/</a></p> <p>LinkedIn:<br/><a href="https://www.linkedin.com/school/71648478/admin/feed/posts/">https://www.linkedin.com/school/71648478/admin/feed/posts/</a></p> <p>Twitter: <a href="https://twitter.com/AlumniSsgmce">https://twitter.com/AlumniSsgmce</a></p> |
| Event Coordinator<br>Faculty Name/Department /Designation             | Dr .R. A. Zamare<br>Assistant Professor<br>Computer Science and Engineering Department  |

|  |   |
|--|---|
|  |   |
| Target Participants  | All third year Students & faculties of SSGMCE Shegaon   |
| <b>Objective: -</b><br><br>Benefit-<br>in term of learning/skill/knowledge<br>obtained (benefit in term field is required) | <b>Objective: -</b><br><ul style="list-style-type: none"> <li>-Evaluate the technological infrastructure and resources available at the Center of Excellence.</li> <li>-Explore the feasibility of adopting certain technologies or methodologies observed during the visit.</li> <li>-Discuss and brainstorm with experts to find innovative approaches to overcome obstacles.</li> <li>-Gain insights into emerging trends and future directions in the field</li> </ul><br><b>Outcome: -</b><br><ul style="list-style-type: none"> <li>-Evaluate the feasibility of adopting new technologies or methodologies observed at the Center of Excellence.</li> <li>-Establish valuable connections with professionals, experts, and practitioners within the Center of Excellence.</li> <li>-Identify opportunities for improving the organization's technological infrastructure based on the Center of Excellence's practices</li> <li>-Share findings through comprehensive reports and presentations with relevant stakeholders to disseminate knowledge within the organization</li> </ul> |

# Poster:

  
**SSGMCE**  
SHEGAON

  
**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

**DEPT OF COMPUTER SCIENCE & ENGG.**  
**INSTITUTION'S INNOVATION COUNCIL (IIC)**  
ORGANIZES

**" Field Visit To V.R Jamdar Siemens Center Of Excellence & RMCOE  
Technology Business Incubators Foundation Center  
Under IIC Quarter II Activity "**



**Date & Day :** 23rd January 2024, Tuesday  
**Time :** 11:00 AM Onwards  
**Venue :** VNIT & RMCOE Nagpur

**Dr. A. S. Manekar**  
President IIC

**Prof. P. G. Angaitkar**  
Convener IIC

**Dr. R. A. Zamare**  
Dept.Coordinator ,IIC

**Dr. J. M. Patil**  
HOD, CSE

**Dr. S. B. Somani**  
Principal, SSGMCE, Shegaon

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## **Overview of the program:**

Shri Sant Gajanan Maharaj College of Engineering Shegaon & Institution's Innovation Council (IIC 6.0), Computer Science and Engineering Department had organized a field visit to V. R. Jamdar Siemens Center of Excellence on 23<sup>rd</sup> January 2024 at 11.00 AM at VNIT Nagpur for 58 Third year Computer Engineering students coordinated by Dr. J. M. Patil (Head of Department, Computer Science and Engineering) & Dr. R. A. Zamare (IIC Departmental Coordinator) Computer Science and Engineering Department SSGMCE, Shegaon, Dr. A. S. Manekar (President IIC), Prof. P. G. Angaitkar (Convener IIC) and Dr. S. B. Somani Principal SSGMCE Shegaon.

The Field visit journey started at 05.00 AM in morning from Shri Sant Gajanan Maharaj College of Engineering Campus Shegaon by College bus. We reached at V. R. Jamdar Siemens Center of Excellence at 10.45 AM where Dr. Shital Chiddarwar, Program Director welcomed us and guided for the visit execution. The Center is equipped with state-of-the-art laboratories and research facilities catering to various engineering disciplines.

The V. R. Jamdar Siemens Center of Excellence (VRJSCOE), established in 2020 at Visvesvaraya National Institute of Technology, Nagpur, operates with a primary focus on creating a robust technical education eco-system through its experience in industrial products and services. The CoE established in collaboration with Siemens and 3D Engineering Automation LLP is equipped with software and hardware necessary for Industry 4.0 and Digitalization. The infrastructure is spanned over 11 state of the art laboratories.

The infrastructure is modern and well-maintained, providing a conducive environment for research and innovation. Engaging activities and demonstrations were conducted, showcasing the practical applications of theoretical concepts. The collaborative atmosphere among students and faculty members was evident, promoting interdisciplinary learning and knowledge exchange. During the visit, prominent facilities such as the Smart Factory Lab, Robotics Lab, Process Instrumentation Lab, and Reverse Engineering Lab were observed, highlighting the diverse array of technological advancements available at VNIT V. R. Jamdar Siemens Center of Excellence.

Students asked questions regarding working and maintenance of respective technologies used. Staff at VNIT Center of excellence have explained each and every concept and answered with demonstrations effectively at individual labs.

Following are the V. R. Jamdar Siemens Center of Excellence laboratories visited by all the students & staff of SSGMCE, Shegaon:-

| Sr. No. | Name of Laboratory                  | Machines and equipment at VRJS COE   | Professional Software Suits at VRJS COE   |
|---------|-------------------------------------|--|---|
| 1       | Production design & validation lab  | Integrat with Smart Manufacturing ed System  | Siemens NX, FeMap, Teamcenter, Fibersim, Mastertrim, Syncrofit, Solidedge   |
| 2       | Test & Optimization lab/SIEMENS PLM | SCADAS SCM Mobile, SCM-V8-E, SCM Slot frame, Triaxial PCB Prepol Mic, Impulse hammer, Miniature shaker kit, ICP Force sensor, Motor assembly, Airplane scaled model, Lasertech kit   | Simcenter Test Lab, 3D, Simcenter Simcenter Amesim, Academic Bundle Imagine.Lab (Heavy equipment) Virtual.Lab (Aerospace) |
| 3       | Advanced Manufacturing Lab          | Integrat with Smart Manufacturing ed System  | Technomatrix (JACK, Robcad, PlantSimulation, Process Stimulation), Preactor, Opcenter APS.                                |
| 4       | Reverse Engineering Lab             | Carl Zeiss 3D Scanner and Calibration plate (CP_P_300_1320)  | Colin3D Software GOM Inspect 2019 Software, Zeiss Reverse Engineering Software  |
| 5       | Internet of Things (IOT) Lab        | Siemens IPC Nano Box   | Siemens IIoT MindSphere Software build on Mendix Application platform.  |
| 6       | Automation Lab                      | S7 1200 PLC with HMI (6 Kits Package), S7 1500 PLC with HMI (1 kit Package)  | Totally Integrated Automation Portal SIMATIC Manager V15.1  |
| 7       | Mechatronics Lab                    | SIMATIC S7-1200 PLC, Modular Automation Production System (MAPS 6S2)   | Totally Integrated Automation Portal V16  |
| 8       | Process Instrumentation Lab         | SIMATIC PCS 7 Training Kits, SIMATICS Process Instrument Racks with Pressure Sensors, Temperature Sensor, Level Sensors (RADAR, Ultrasonic & Capacitive), Flow Sensors (Electro-magnetic, Coriolis Mass flow, Ultrasonic) & Electro-pneumatic Valve Positioner               | Process Control System 7 V8.2   |
| 9       | Smart Factory Lab                   | Maxturn Plus with Siemens 828D, MaxMill Plus+ 3 Axes with Siemens 828D, Tooling package, AR-900 robots for Loading and Unloading, Automated Guided Vehicle (AGV), Automated Storage and Retrieval System (ASRS) with RFID and RFID Tracker, KUKA iiwa LBR Cobot for Assembly | Sinumerik Simulation Software, Digital Twin, KUKA Sunrise Workbench, TouchFinder, CIM                                     |
| 10      | CNC Lab                             | CNC Vertical Machining Center – 5 Axes with Siemens 840D Controller  | Sinumerik Simulation Software   |
| 11      | Robotics Lab                        | Robotic Spot Welding Cell, Robotic Pulse MIG Welding Cell Tool Set for Standard and Safety   | RobCAD, ABB Robot Studio  |

## Event Gallery:





Nagpur, Maharashtra, India  
42FX+9V5, VNIT Main Rd, Ambazari, Nagpur, Maharashtra 440033, India  
Lat 21.123402°  
Long 79.049597°  
23/01/24 11:14 AM GMT +05:30



Nagpur, Maharashtra, India  
42FX+9V5, VNIT Main Rd, Ambazari, Nagpur, Maharashtra 440033, India  
Lat 21.123288°  
Long 79.049843°  
23/01/24 11:09 AM GMT +05:30



Nagpur, Maharashtra, India  
42FX+9V5, VNIT Main Rd, Ambazari, Nagpur, Maharashtra 440033, India  
Lat 21.123288°  
Long 79.049843°  
23/01/24 11:09 AM GMT +05:30



Nagpur, Maharashtra, India  
42FX+9V5, VNIT Main Rd, Ambazari, Nagpur, Maharashtra 440033, India  
Lat 21.123044°  
Long 79.049805°  
23/01/24 11:07 AM GMT +05:30



Nagpur, Maharashtra, India  
Mechanical Workshop, S Ambazari Rd, Ambazari, Nagpur, Maharashtra 440033, India  
Lat 21.123472°  
Long 79.049428°  
23/01/24 10:49 AM GMT +05:30



Nagpur, Maharashtra, India  
42FX+9V5, VNIT Main Rd, Ambazari, Nagpur, Maharashtra 440033, India  
Lat 21.123395°  
Long 79.049872°  
23/01/24 12:30 PM GMT +05:30



Nagpur, Maharashtra, India  
42FX+9V5, VNIT Main Rd, Ambazari, Nagpur, Maharashtra 440033, India  
Lat 21.123288°  
Long 79.049843°  
23/01/24 11:11 AM GMT +05:30



Nagpur, Maharashtra, India  
42FX+9V5, VNIT Main Rd, Ambazari, Nagpur, Maharashtra 440033, India  
Lat 21.12343°  
Long 79.049892°  
23/01/24 12:31 PM GMT +05:30



**Shri Sant Gajanan Maharaj College of Engineering, Shegaon**  
**Student Attendance for Field Visit on Date 23.01.2024**

| Sr | Student Name                  | Contact Number | Sign |
|----|-------------------------------|----------------|------|
| 1  | Abhishek Sunil Patil          | 9765405564     |      |
| 2  | Abhishek Vinod Dhoran         | 9075926454     |      |
| 3  | Ajinkya Jagannath Nagare      | 9420043409     |      |
| 4  | Aman Rajpure                  | 9637541220     |      |
| 5  | Aniket Sanjay Gazalwar        | 8767089229     |      |
| 6  | Aniket Vishnu Rajguru         | 8208257318     |      |
| 7  | Ankush Deepak Bhonde          | 7249700781     |      |
| 8  | Apeksha Sanjay Mankhair       | 9322143019     |      |
| 9  | Virendra Janrao Pawar         | 8308592307     |      |
| 10 | Bhumika Narendra Pimpalshende | 9172986562     |      |
| 11 | Bhuvnesh Hariom Kale          | 7499553500     |      |
| 12 | Chaitali Sanjay Nakhate       | 9022860737     |      |
| 13 | Devashish Surendra Ugale      | 8275285038     |      |
| 14 | Dnyaneshwari Prashant Ugale   | 9284723244     |      |
| 15 | Dnyaneshwari R Mhaisne        | 8668306639     |      |
| 16 | Eisha Gopal Nikam             | 8669876136     |      |
| 17 | Gaurav Rajendra Dhale         | 7507216007     |      |
| 18 | Gaurav Vijay Kaple            | 8767329349     |      |
| 19 | Gaurav Wankhade               | 9322107472     |      |
| 20 | Gayatri Pradip Deshmukh       | 8805763934     |      |
| 21 | Gitesh V Uttarwar             | 9359799867     |      |
| 22 | Sanika Dose                   | 9850339976     |      |
| 23 | Janhavi Mangesh Nakat         | 7057134857     |      |
| 24 | Khushbu Dipak Chavhan         | 7350567168     |      |
| 25 | Krishna Manoj Kashikar        | 9175565031     |      |
| 26 | Kunal Tryambak Bhende         | 8080994426     |      |
| 27 | Kunjan Katore                 | 7058644046     |      |
| 28 | Vaishnavi Avadhut             | 9689181675     |      |
| 29 | Nikhil Kiran Kulkarni         | 7385917247     |      |

|    |                          |             |  |
|----|--------------------------|-------------|--|
| 30 | Niraj Milind Saraf       | 9307651711  |  |
| 31 | Nitish Eknath Sonone     | 8080273029  |  |
| 32 | Palak Yogesh Jasani      | 7276737443  |  |
| 33 | Pavan Daulatrao Lakkas   | 8669098672  |  |
| 34 | Payal Nannaware          | 7666605193  |  |
| 35 | Prajwal Ghusalikar       | 8788583509  |  |
| 36 | Pranita Jayesh Tondre    | 7066090772  |  |
| 37 | Prashik Tejrao Ingle     | 9359504931  |  |
| 38 | Punam Ratnakarao Motewar | 9307153047  |  |
| 39 | Punam Solanke            | 7249762576  |  |
| 40 | Radhika Manish Kapoor    | 8080829048  |  |
| 41 | Rahul Gajanan Agarkar    | 8767926675  |  |
| 42 | Rasika Dhanraj Lahane    | 9022337590  |  |
| 43 | Rohit Sanjiv Tap         | 7066190835  |  |
| 44 | Saad Khan Abutlib Khan   | 7972938030  |  |
| 45 | Sahil Pankaj Tawari      | 9370080680  |  |
| 46 | Samarth Vidhyadas Zamre  | 9309216717  |  |
| 47 | Samruddhi Jivan Katole   | 7666392039  |  |
| 48 | Sandeep Sanjay Daberao   | 8767122075  |  |
| 49 | Sankalp Sanjay Jumale    | 7620943863  |  |
| 50 | Krishna Kolekar          | 8767052828  |  |
| 51 | Sejal Atul Patil         | 9322132595  |  |
| 52 | Shamli Sharad Titirmare  | 86259 58249 |  |
| 53 | Shivani Gopal Digole     | 7083552591  |  |
| 54 | Shrishailly Dinesh Wagh  | 8010541247  |  |
| 55 | Suhas Sanjay Karanjkar   | 8767261483  |  |
| 56 | Tejal Vilas Raut         | 9359303551  |  |
| 57 | Ujwal Gajanan Deshmukh   | 7498143131  |  |
| 58 | Vaishnavi Dhiraj Waikar  | 9518357948  |  |

  
**Dr. J. M. Patil**  
**HOD, CSE**

  
**Prof. P. G. Angaitkar**  
**HIC Convener**

  
**Dr. A. S. Manekar**  
**HIC President**

  
**Dr. S. B. Somani**  
**Principal, SSGMCE**