



**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  All Social Media Link (Promotion)	Facebook: <a href="https://www.facebook.com/ssgmceofficialpage/">https://www.facebook.com/ssgmceofficialpage/</a> Instagram: <a href="https://www.instagram.com/ssgmceshegaon/">https://www.instagram.com/ssgmceshegaon/</a> LinkedIn: <a href="https://www.linkedin.com/school/71648478/admin/feed/posts/">https://www.linkedin.com/school/71648478/admin/feed/posts/</a> Twitter: <a href="https://twitter.com/AlumniSsgmce">https://twitter.com/AlumniSsgmce</a>
Event Coordinator Faculty Name/Department /Designation	Dr .R. A. Zamare Assistant Professor Computer Science and Engineering Department

Target Participants	All third year Students & faculties of SSGMCE Shegaon
<p>Objective: -</p> <p>Benefit- in term of learning/skill/knowledge obtained (benefit in term field is required)</p>	<p><b>Objective: -</b></p> <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> <p><b>Outcome: -</b></p> <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 "**



विन्नेस्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान, नागपुर.  
VISHVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, 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

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

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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 VRJSCOE	Professional Software Suits at VRJSCOE
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 Simcente Amesim, Academic Bundle Imagine.Lab (Heavy equipment) Virtual.Lab (Aerospace)
3	Advanced Manufacturing Lab	Integrat with Smart Manufacturing ed System	Technomatix (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, SIMATIC S 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:







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

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

  
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