Nutan Maharashtra Vidya Prasarak Mandal's
NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING & TECHNOLOGY
ESTD : 1906

Approved by AICTE	Accredited by NAAC &NBA	Affiliated to SPPU
"Samarth Vidya Sankul", Vishnupuri, Talegaon Dabhade, Pune - 410507		
Tel. No. 02114 – 231666	E-mail: nmiettalegaon@gmail.com	Web : www.nmiet.edu.in

BEST PRACTICE-1 (2022-23)

1. TITLE OF THE PRACTICE1:

Cooperation, Collaboration, and Co-creation (C3) for engagement, efficiency, and effectiveness (E3) through Industry Institute Interaction (I3)

2. OBJECTIVES OF THE PRACTICE:

The institution hopes to produce entrepreneurs and skilled engineers who are competitive on a worldwide scale. Understanding the demands outside of the academic system requires an industry relationship. The institution works hard to engage in close industrial interaction at three levels: cooperation, collaboration, and co-creation, with co-creation being the highest level. The practice's goals are as follows:

- Through a variety of forums and events, learn about the industry from professionals.
- Collaborate with industries to set up centers and manage specialized programs.
- Design, Implement, and Evaluate programs that benefit various stakeholders in collaboration with the industry.
- To develop educational programs that are in line with the industry's broad requirements and that can produce engineering personnel able to keep up with the rapid pace of technological advancement;
- To establish sufficient facilities for professional engineers and technologists to update their knowledge to meet the industry's growing and developing needs.
- To coordinate the research and development activities.

3. THE CONTEXT:

The industrial landscape is rapidly evolving in the wake of the government of India's recent adoption of a liberal economic and industrial strategy. Industries are forced to compete with

multinationals for the domestic market and export a portion of their output. To generate high-quality goods, skilled manpower has become more important. Industries now rely more than ever on technical institutes for R&D and the provision of highly skilled and qualified engineers. Retraining the employee has grown to be a significant undertaking for all sectors of the economy.

4. THE PRACTICE:

There is a significant chance for institutes to engage with industry for mutual gain by considering their demands.A symbiotic link between the two systems would improve the Industry-Institute Interaction on both sides.The ultimate goal of this partnership will be for the Institute to create confidence in the sector, leading other sectors to willingly collaborate with the Institute at different phases of their growth.The development of such a symbiotic relationship requires, firstly, a careful understanding of the industry needs such as relevant R&D, cost-effectiveness, time-bound programs, technology upgradation, etc. by the Institute and, in turn, understanding the capabilities and limitations of the institute by the Industry. The institute actively seeks to:

- Professional competence development of students and faculty.
- Placements, internships, and events involving industry/industry bodies.
- Learning and development with industry/industry body as partners and government schemes
- Startup ecosystem-related events and promoting entrepreneurship.
- Alumni interactions, support, and networking.

The institute deploys the C3 (cooperate, collaborate, co-create) for (industry, institute,

interaction) I3 model at 3E (engagement, efficiency, and effectiveness) levels. As part of

the cooperation, the institute engages with industry for invited talks, internships, placement drives, curriculum review in the department advisory board, regulation formulation in the academic council, and similar activities. In collaboration the engagement extends to, the efficiency of relationships through consultancy and research projects, implementation ofinternships, the establishment of centres, training for specific needs, execution of activities as part of corporate social responsibility, and similar. In co-creation, both industry and institute jointly develop and deploy programs for the benefit of learners either at the institute or at the industry with high effectiveness. These programs, especially related to skills

identified by the sector skills councils in the country areeasily benchmarked or aligned to the national skill qualification framework thereby making it contextual at the national level.

5. EVIDENCE OF SUCCESS:

Linkages Established (MoU) 2022-23

Following Linkages have been established with the following prominent industries in the region.

Sr. No.	Name of the Company
1	Sai Info Solution
2	Flaoting Minds
3	Rubrixx IT Solutions
4	Jalgi Technologies pvt. Ltd
5	Rajavi Technologies Pvt. Ltd
6	Bug Battlers Pvt. Ltd
7	Handwriting University Interntional
8	Pioneer Automation Services Pune and Prolific Systems Technologies Pvt. Ltd, Pune
9	LI Pvt.Ltd
10	Bompanda
11	Proazure Solutions Pvt. Ltd
12	Mask Ploymers Pvt. Ltd
13	GN Solutions Pvt Ltd
14	Anifilms College of Art And Design
15	RB Tech Services
16	Anudip Foundation
17	Edu Plus
18	IOTians Global Innovations PVT LTD ,Pune
19	Top Harness Pvt Ltd
20	ExcelR Solution
21	Shree Aasaan tech
22	Mask Polymer Privet Limited

23	Kedar Engineers
24	Manas Automotive System
25	Engineering Cluster
26	Pinacle Dies and Moulds
27	Geoclid 3D Printing Solutions
28	Dayla Precisions
29	Matchwell Engineering Pvt. Ltd.
30	CAD Center
31	SantTukaram Sugar Factory
32	Badve Engineering Limited
33	Shiv NDT
34	Horizon Packtech
35	Y-Grene India Pvt. Ltd.
36	Kalpita Solar Systems
37	Sid Electric Pvt. Ltd.
38	Technology Transfer Solutions Pvt. Ltd.
39	Versa Controls
40	Amar Transformers, Pimpri
41	Akash Electronics, Pimpri
42	Sofcon India Pvt. Ltd.
43	Meltek
44	RND Products
45	OrbittalElectromech Engineering Projects Pvt. Ltd.
46	SKADA Technology Solutions Pvt. Ltd.
47	Telecom Sector Skill Councile
48	I CAP
49	UBT Technology
50	A Square Electro Engineering Lab
51	ThuseElektronics Pvt. Ltd
52	Trigensoft Solutions Pvt. Ltd.
53	Elliot Systems Pune

54	Technoin Engineering Solutions
55	ToshniwalPvt Ltd.
56	PTPL

STUDENTS' PROJECTS (2022-23)

Several student projects have been offered in the recent past as a result of interaction activities. Some of the industries and organizations that offered the projects are listed below:

Sr. No.	Name of the Company	Department
1	Horizon Packtech	Mechanical
2	Mask Polymers Pvt Ltd.	Mechanical
3	Kedar Engineers	Mechanical
4	Bericap India Pvt. Ltd	Mechanical
5	Bitmap Technology, Narhe	E&TC
6	Jagdamba Tours & Travels, Akurdi	E&TC
7	Emerson Process Management	E&TC
8	ASV Enterprises, Bhosari	E&TC
9	Bitmap Technology, Narhe	E&TC
10	Jagdamba Tours & Travels, Akurdi	E&TC
11	Bitmap Technology, Narhe	E&TC
12	Bitmap Technology, Narhe	E&TC
13	AtulHampe& Associates, Talegaon	E&TC
14	Bitmap Technology, Narhe	E&TC

Highlights of Industry Institute Interaction Activities (2022-23)

Participation of Industry Experts in the academic development of the Department

Various Departments have inducted experts from the Industry as Members of the DAB. Details are given below. These members have been providing their valuable input in the academic development of the Department.

Sr. No.	Name of Expert	Department
1	Mr. Ganesh Mandale	E&TC
2	Mr. Pushkar R. Parale	E&TC
3	Mr. SiddheshHazare Mask Polymer Pune	Mechanical

Following Guest Lectures were delivered by Industry Personnel in the recent past (2022-23)

Sr. No.	Name of Speaker	Topic of Guest Lecture
1	Mr. Kiran Godse	Seminar on "Project-Based Learning"
2	Mr. PareshGugale	Seminar on "IPR"
3	Mr. Yogesh Kulkarni	Seminar on "Industrial Projects & IPR"
4	Mr. Vinay raykar	Training Program by Campus Credential module 5
5	Vishvjeet Kulkarni	Hands On Workshop “Code Genesis: OOP in C++ and Java”

Following Industrial Visits have been undertaken by Students (2022-23)

Sr. No.	Name of the Company	Department
1	Sukhakarta General Engineering Cluster Private Limited, Pune.	Mechanical
2	Pawana Hydro Power Plant, Pawana Dam, Pune	Mechanical
3	Pinnacle Dies and Moulds Pvt. Ltd., Bhosari	Mechanical
4	Katraj Milk Dairy, Katraj, Pune	Mechanical
5	Matchwell Engineering Pvt. Ltd., Pune	Mechanical
6	Giant Metrewave Radio Telescope - National Centre for Radio Astrophysics - Tata Institute of Fundamental Research, Naryangoan, Tal - Junnar,Dist - Pune	E&TC

To enhance Industry - Institute Interaction following activities are undertaken throughout the year:

- Appointing Industry persons on the governing body of the Departmental Advisory Board (DAB).
- Encouraging engineers from industry to visit our institution to deliver guest lectures
- Arranging industrial visits.
- Collaborative hands-on workshops in association with industries.
- Project Exhibitions assessed by industry experts in association with professional societies.
- Organizing Workshops and seminars with joint participation of the faculty and the industries.
- Visits of industry executives and practicing engineers to the Institute for discussions and delivering lectures on industrial practices, trends, and experiences.
- Memoranda of Understanding between the institute and industries to bring the two sides strategically closer.

6. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

Convincing the industry to collaborate with institutes, particularly at the upper echelons of the model, has never been easy. However, partnerships with industries typically move to greater levels when activities are executed with rigor. The resilience of connections is determined by the learner's mindset. Often the relationship suffers due to the lack of proper attitude of the learner in the industry environment. Careful monitoring and coaching by faculty members are essential to alleviate this problem.

Depending on the level, different resources are needed for the exercise. Higher levels correspond to higher resources in terms of people, money, and time. Additionally, at higher levels, the industry's devotion to the same grows. The findings show that the institute and industry both find the resources invested to be worthwhile.