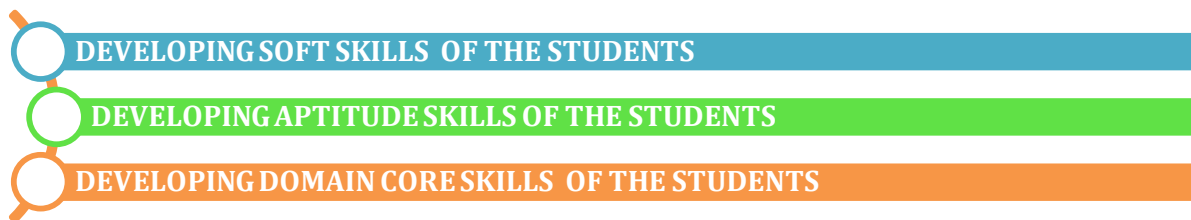


7.2.1 Describe two best practices successfully implemented by the Institution

7.2.1 BEST PRACTICE -I

Title of the Practice- - Integrated approach for Holistic development inclusive of Employability Skills.

➤ Objectives of the Practice



➤ The Context



➤ The Practice

1. SOFT SKILLS TRAINING MODULE

- Inhouse Soft Skills Training included in Regular Timetable
- Experiential learning through a Structured curriculum delivery for the development of domain specific abilities.
- Developing Interpersonal Skills and Verbal Ability of the Students

- Students are profiled based on their performance during the sessions and feedback is provided

2. APTITUDE TRAINING MODULE

- Inhouse Aptitude Trainer
- Systematic and outcome-based curriculum delivery
- 2 hours per week sessions included in the regular timetable for Second Year and Third Year students

3. PRE-PLACEMENT WORKSHOP MODULE

- Pre-placement workshop on Aptitude in which includes Quantitative, Logical aptitude and reasoning.
- Pre-placement workshop on C, C++ programming training develops application-oriented programming skills which are useful for placement perspectives.
- Pre-Placement workshop on Verbal Ability, Writing Skills, Group Discussion, Interview Skills, Resume Writing and Extempore.

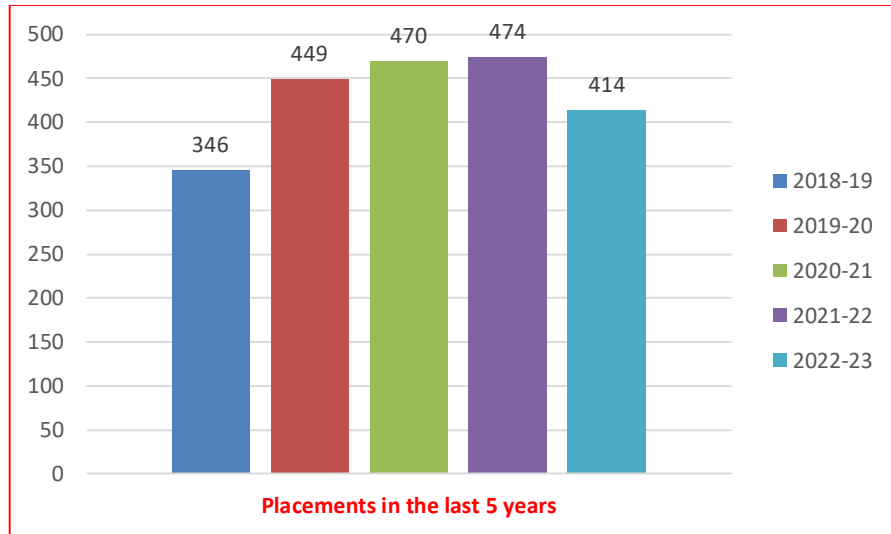
4. COMPANY SPECIFIC TRAINING MODULE

- Campus Specific Training is conducted before the students appear for the drive
- Sessions on Verbal Ability, Aptitude, Mock Technical Interviews, Mock HR interviews, Mock Group Discussions, Extempore Speech practice sessions and Resume building



Evidence of Success

Because of consistent efforts by the institute this practice has resulted in remarkable increase in the placements of the students in the last five years.



Since 2018-19 placements have been incredibly good like in TIAA – 49 students have been placed with an average package of 10.48 LPA

- The institute monitors** student's performance and profile them as Excellent, Good and Average category. The profiling helps the students to work on their grey areas that resulted in good placements.
- E.g. Mr. Akash Tegampalle (Btech. CSE) branch was in Good category in Third Year. He improved his Communication Skills through these sessions and in Btech. Final year he got a job offer in TIAA with the package of 7 LPA.
- Mr. Soujanya Gujar (Btech. Mech) and Mr. Jakirhusen Mattu Nadaf (Btech. Mech) were in Average category in Third Year. After the training they were able to overcome their weaknesses and got placed in Wipro.

➤ Problems Encountered and Resources Required

- There was lack of awareness among the students about Soft Skills. Also, the subject did not have any theory exam due to which students were not serious about developing their Soft Skills and Aptitude.
- Consistent efforts and good placements resulted in a positive response from the students
- Students from Mechanical and Electrical Engineering department showed lack of interest in learning C & C++. However, after proper counselling on the importance of programming languages in their career, the students were interested to learn programming.
- During Soft Skills sessions students were hesitant to perform during mock Group Discussion and Personal Interview practices. However, through counselling, interaction and the use of modern Teaching pedagogies and teaching aids like mobile applications, online platforms and Video mirroring students were motivated and proactive participation increased.

➤ Notes

According to NASSCOM survey, only 25% of Indian Engineers are employable in the MNCs reason being the lack of Soft Skills in the Engineering Graduates. The growth and expansion of Engineering industry and Engineers working in multi-cultural world have made communication skills the focal point in the selection procedure.

This best practice of our institute has led into boosting the confidence of the students during the campus drives leading into exceptional placements.

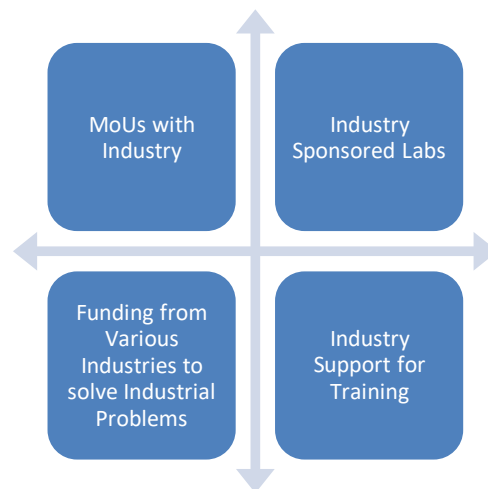
7.2.1 BEST PRACTICE –II

Title of the Practice- Development of Research and Work culture with Industry Collaboration

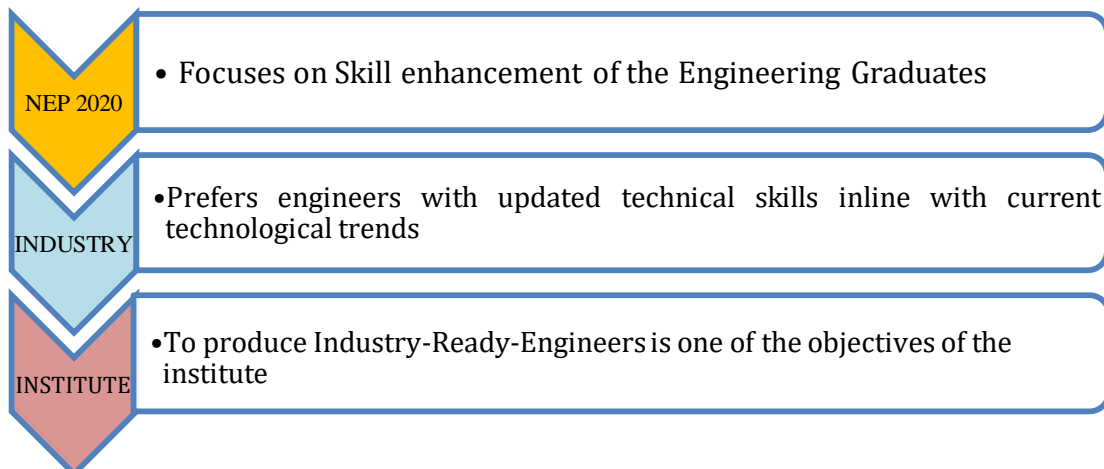
➤ Objectives of the Practice

- Preparing Industry Ready Engineers
- Gaining Industry Projects
- Receiving grants from industry
- Creating opportunities for testing and consultancy

In this regard, a unique ‘**Square Theory to achieve Academic Excellence**’ was designed and implemented in the structured manner in the following domains



➤ Context:



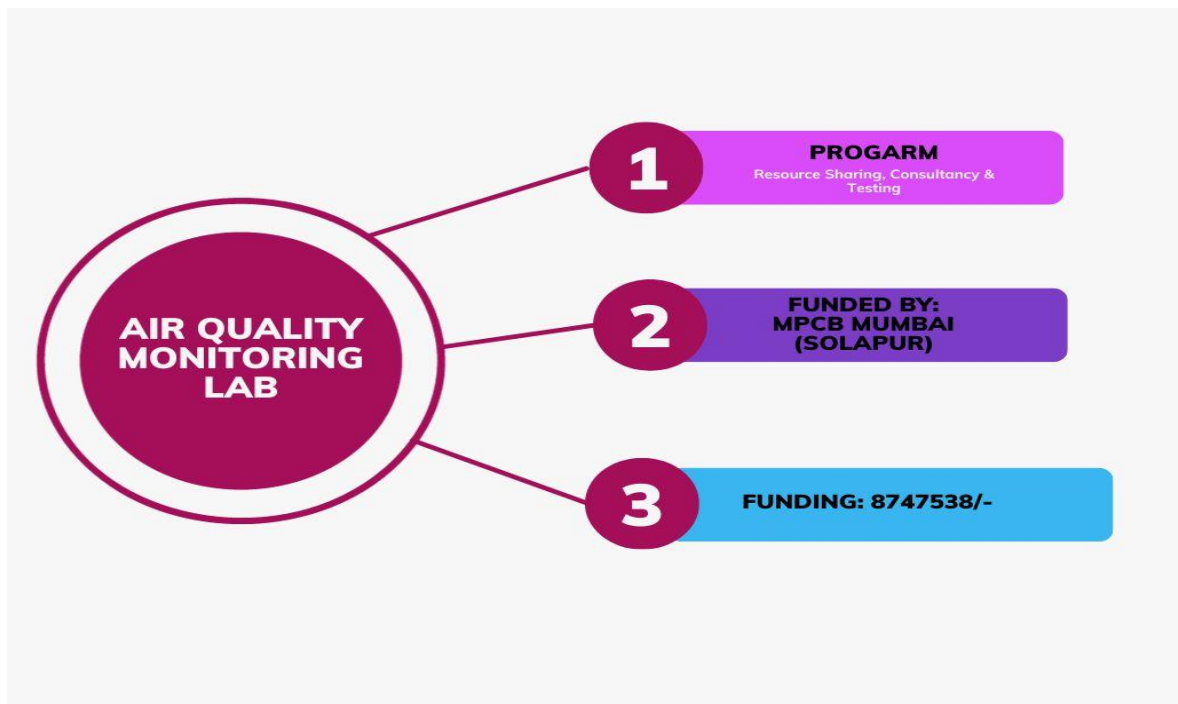
➤ Practice

1. MOU's with Industry

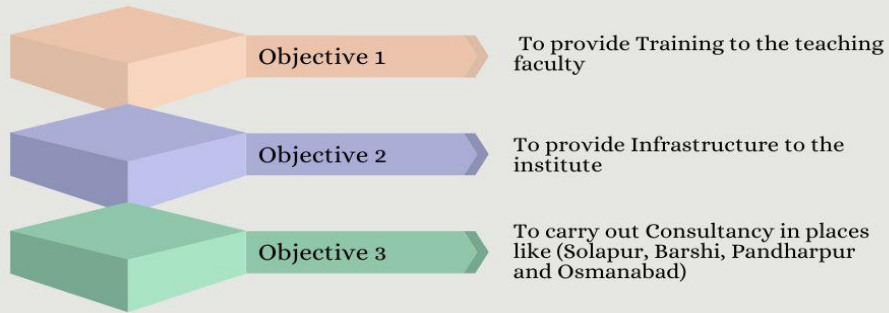
- MoU with Tata Technologies has resulted in Distance Ready Engineers Program, where in students are imparted training by the industry experts.
- MoU with Thermax Ltd. Pune has led into training and placements
- MoU with Dassault Systems Limited has resulted in receiving grant of 70 lakh grant
- MoU of Civil department with (MPCB) Maharashtra Pollution Control Board for Ambient Air Monitoring System for Solapur, Barshi, Pandharpur and Osmanabad
- MoU with Zensar Technologies Ltd., has resulted making students placement ready under the umbrella of Zensar Employability Skill Development program.

2. Industry Sponsored Labs

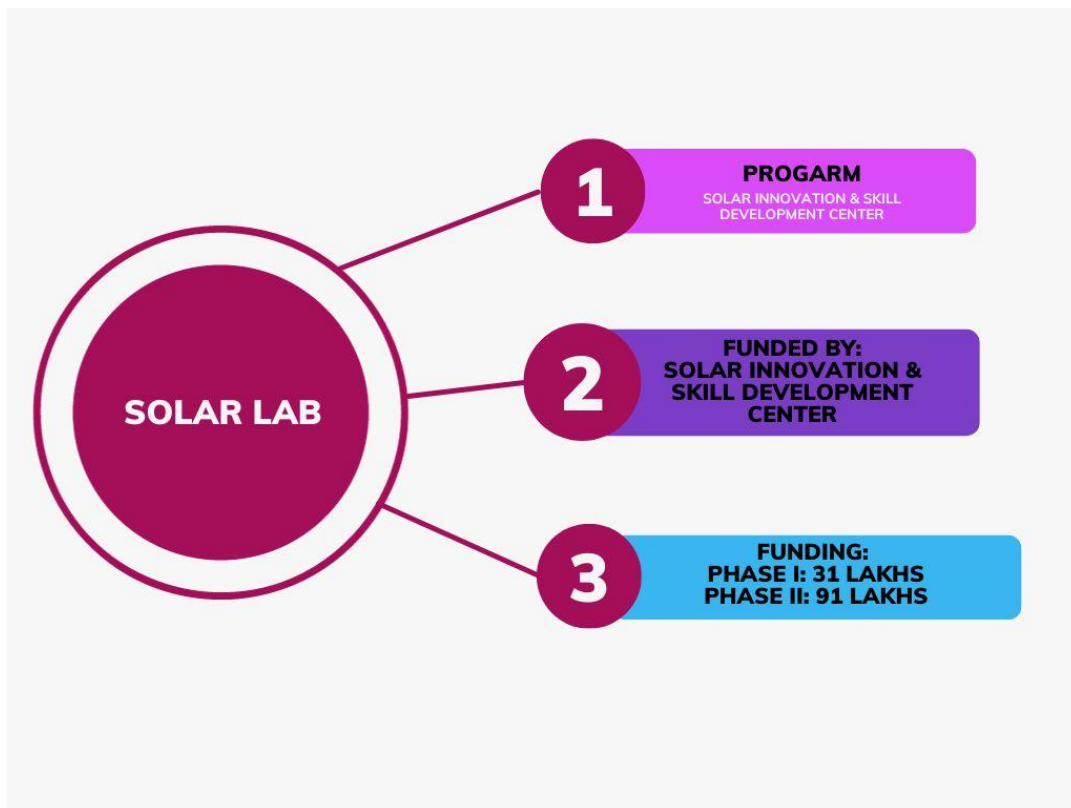
- **Air Quality Monitoring Lab**



Air Quality Monitoring Lab Objectives



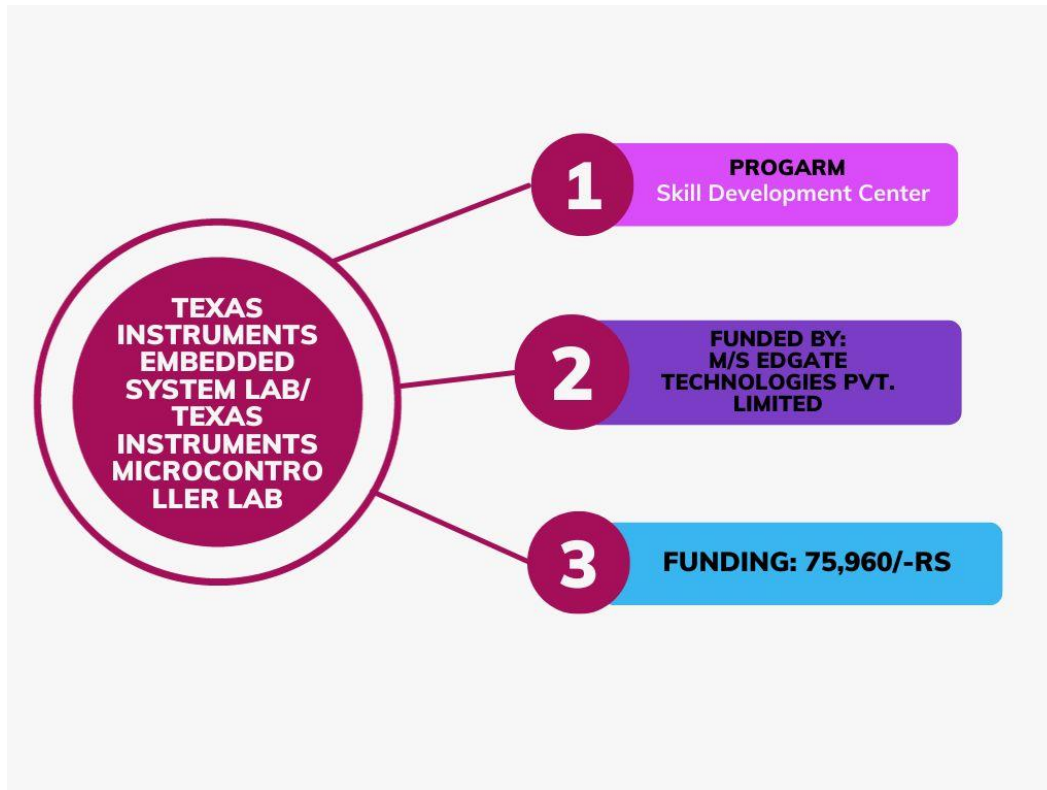
- **Solar Lab**



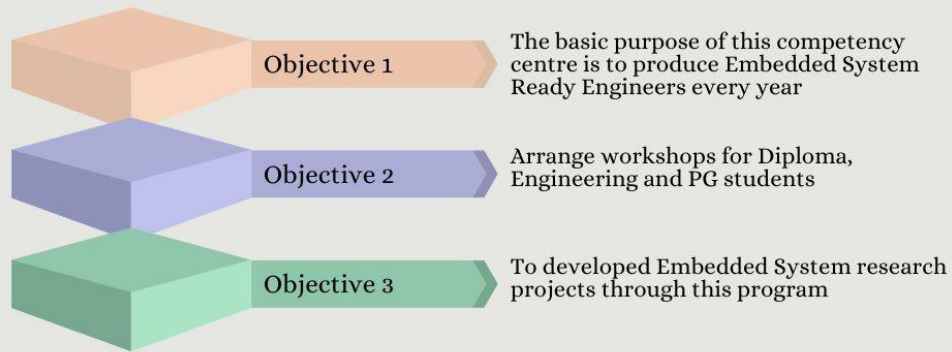
Solar Lab Objectives



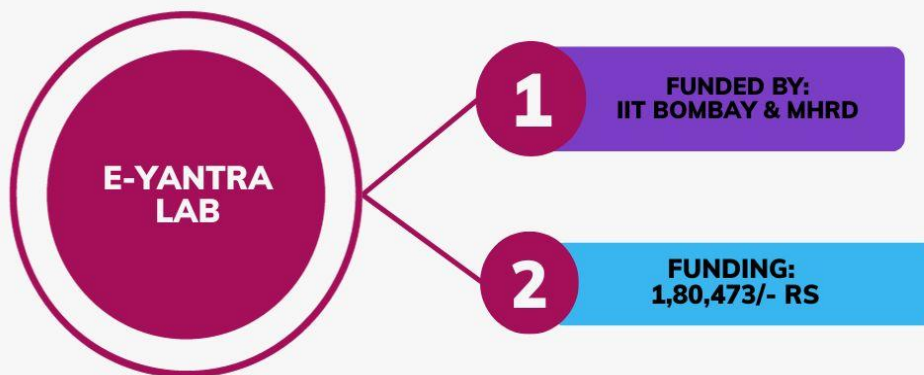
- **Texas Instruments Embedded System Lab/ Texas Instruments Microcontroller Lab**



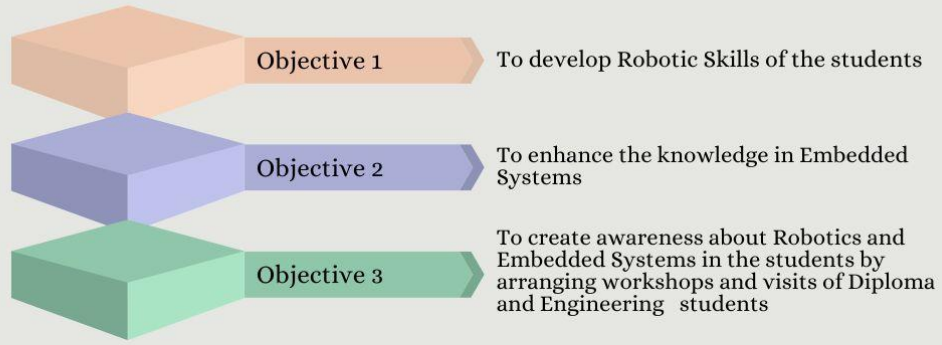
Texas Instruments Embedded System Lab/ Texas Instruments Microcontroller Lab Objectives



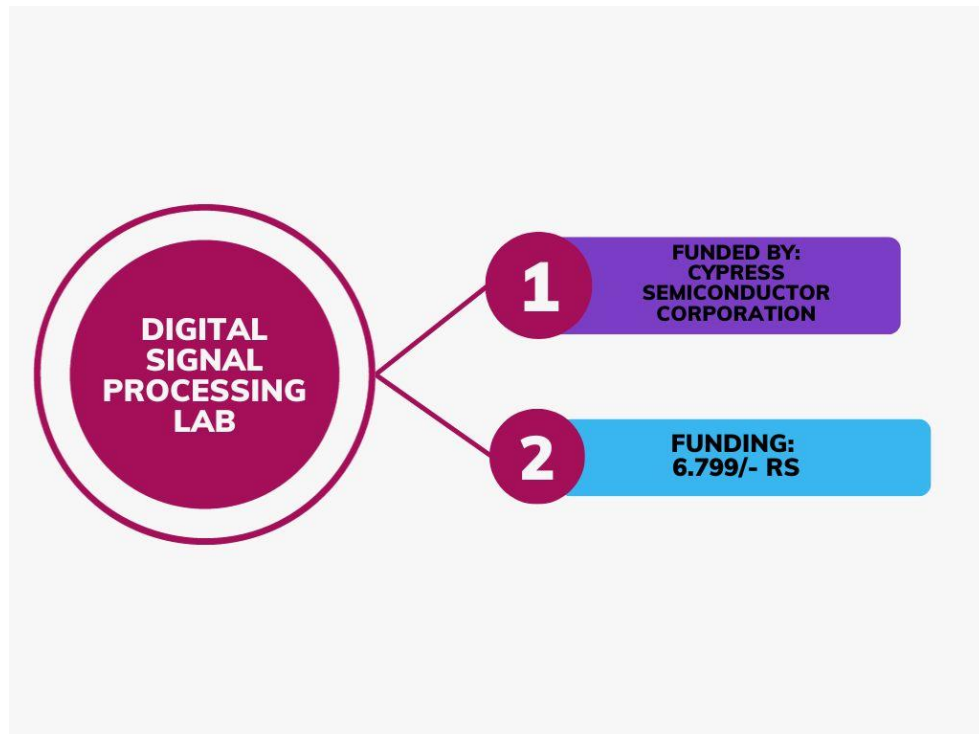
- **E-Yantra Lab**



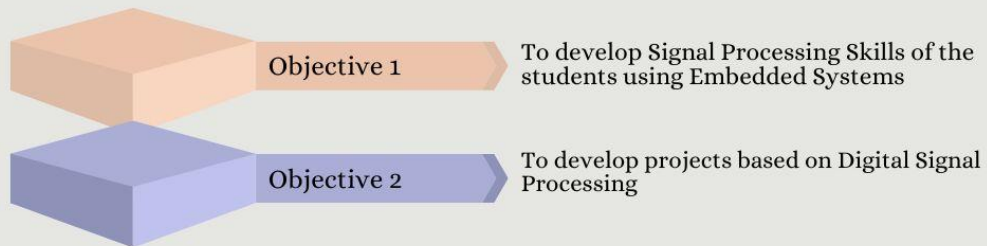
E-Yantra Lab Objectives



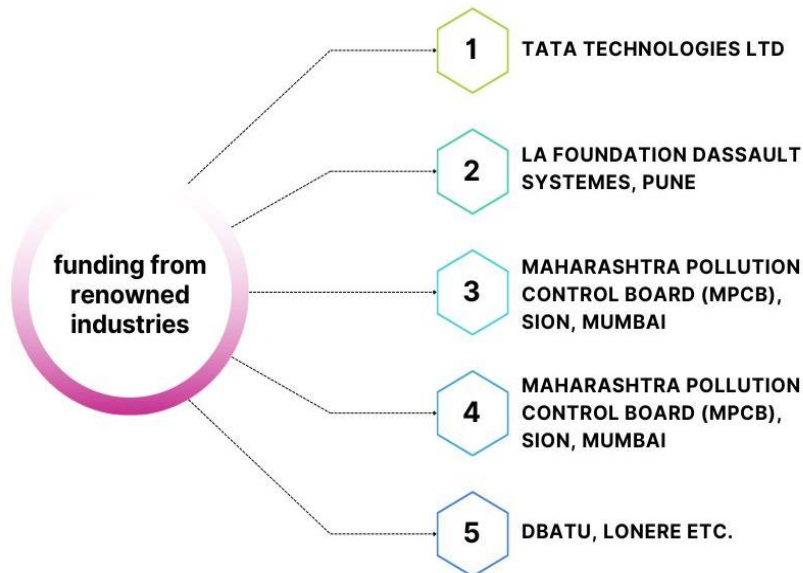
- Digital Signal Processing Lab**



Digital Signal Processing Lab Objectives



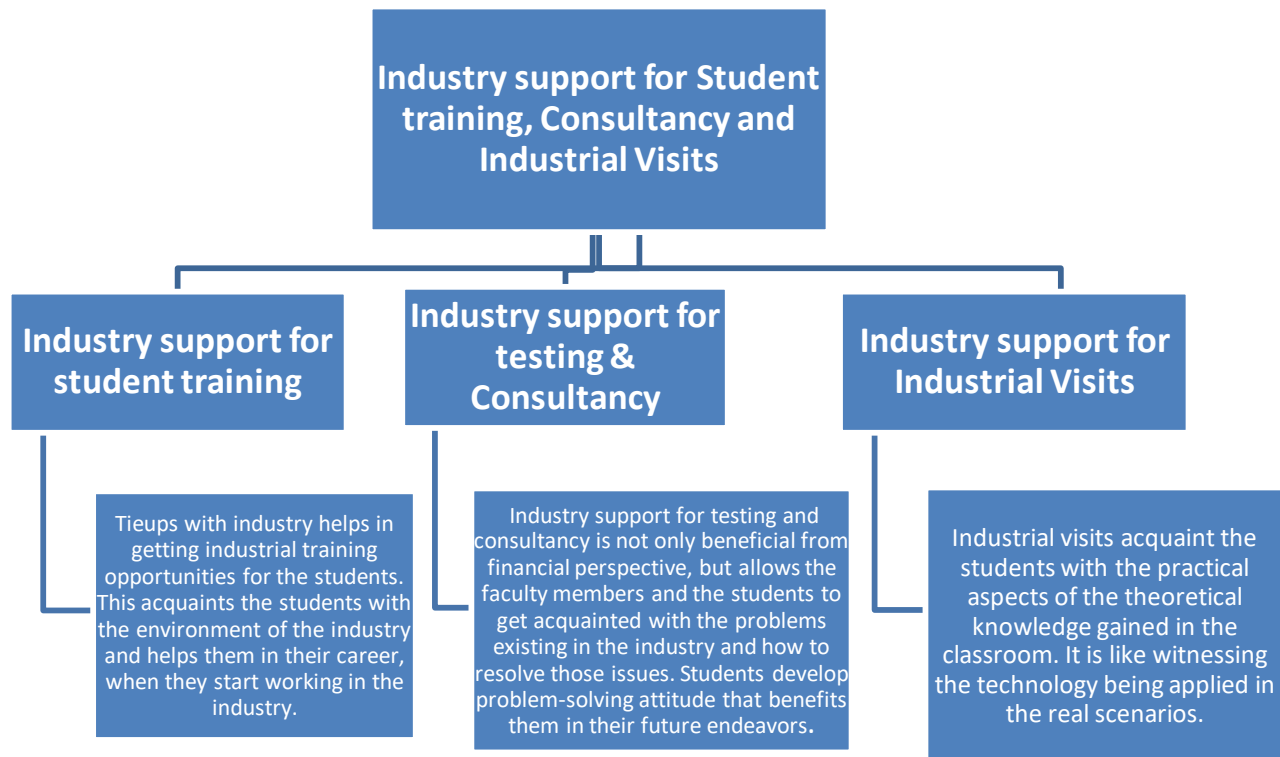
3. Funding from various Industries to solve Industrial Problems



We have received funding of about 1.7 crores in the last five years.

4. Industry Support for Training

Industry collaboration brings numerous benefits to both the engineering institutes and the industries involved, ultimately contributing to the growth and development of skilled professionals and the overall technological landscape. This collaboration prepares students for the professional world, enhances their employability, and fosters a thriving ecosystem of innovation and research



➤ Evidence of Success

- The dedicated efforts of the institute towards maintaining strong industry connect has led into enriching the academic excellence of the students.
- The institute has MOU's with renowned industries resulting in internship, project sponsorship and skill upgradation
- Industry sponsored labs proved a platform to the students to exhibit their experiential learning.

➤ Problems Encountered and Resources Required

- To receive funding, institute has to fulfill many criteria's and if it fails in doing so, the funding is cancelled
- It is an exhaustive process to bring an industry delegate to the institute to initiate the MOU process
- Multiple interactions with the industry are required to initiate the MOU process, which is a herculean task

➤ **Notes**

- The institute has enriched its culture by incorporating industry feedback and training in its academics. The students are not only imparted knowledge from the curriculum, but they are also made familiar with the industry practices, that lead into making them industry ready engineers.