Best Practice No.1:

1.**Title : Career Mentoring**

2**. Objective:** The objective of this program is to prepare the students to compete with the cutting edge technologies with industry expected standards. Guidance for opting higher education. To make students confident enough along with soft skill and technical skill empowerment. Increasing the percentage of employability.

3. **Context:** Post covid -19 Industry wishes and will to have skilled employees who strive for technical competency. This program perfectly analyzes, prepares and makes students ready through a mentoring mechanism by teachers along with Training and placement activities. Students are interacted, analyzed and targeted as per his or her skill sets.

4. **The Practice-** Career mentoring helps the students to pursue higher education and to increase student recruitment where TPO (Training and Placement officer), TPC (Training and Placement coordinator from department) and students are involved. Each faculty from the department is assigned with a group of students. In this practice faculty mentor interacts with the students and tries to analyze their interests about skill sets.

Goal setting sessions are arranged by TPO just to inform students about the skill sets requirements and company expectations and students register their personal details, academic details along with their choices of career plan/higher education.

Student Evaluation: Through Mock interviews, technical test, Group discussion students are evaluated, who are then counseled by the faculties. Such sessions are to make students confident and make the josh high.

Resume Building: Students are asked to prepare their resume and guided about preparation of video resumes. Expert sessions are planned to prepare resumes.

Career guidance sessions are also planned based on the preferences given by students. Aptitude skills, soft skills sessions along with technical sessions are organized. College has signed an MOU with MNC like Zensar ESD, Rubicon, GTT Foundation for skill training to students.

Placement activities: Based on above practice college is observed to have a good placement record, with higher packages companies offering placements to students.

5. **Evidence of Success**Past years average placement is around 80% and is increasing year by year. It also strengthened college academics. It has transformed from the student mentor being a mere figurehead to the career mentor making more outcome based. Our placement ratio is increasing each year with college also been visited by new companies every year.

6. **Problems Encountered and Resources Required-** Convincing the companies about students' strength and quality. meeting the companies criteria, finding best fit for student companies as many students struggle with company criteria and enhancing student technical concepts to meet company expectations.

Best Practice No.2:

1.Title : Student Training Program (STP) and Value-added Programs (VAP)

1.Objective:

- The student training program and values added program makes the students placement ready or ready to go entrepreneurship.
- It is one of the important objectives of the institute to develop the students to get placed in good companies in their field of specialization. Thus the college carries on activities like practicing aptitude, group discussion, general knowledge, current affairs, etc.
- To enhance employability and the quality of the students by empowering them with all required skills to make them globally competent.

1.Context: The aim of "STP" and "VAP" is to improve the employability level of students by enhancement of technical and soft skills so that they can serve the industry better. In the second year itself, students are trained in soft skills and communication skills which are vital from an employability point of view. STP is conducted in Final year of the course.

1.**The practice**

Aptitude Enhancement: aptitude tests are of paramount importance to prospective job seekers in today's competitive job market. employers use aptitude tests to distinguish between candidates and a poor score on a numerical or verbal reasoning aptitude tests could be the difference between getting an interview or not..

Awareness about current affairs: It refers to the important incidents that have occurred and hold social importance in the world. The important role of current affairs can be evident with the various eligibility criteria adopted by the job sector.

Developing domain knowledge: domain knowledge is the basis of the job the students will be acquiring in the organization.

Technical skills: many companies today hire employees by looking at their computer literacy. All the activities of the student training program are conducted by faculty who has their expertise in respective areas. Personal and Career Goal Setting, Presentation Skills, Report Writing, Letter/ Application Writing, Signal Processing , Programming Language, Electronic Circuit Design, Embedded System and disassembly of Mechanical system like I/C engine and M/C Tool System, Skills in varies processes involved in mechanical system like RAC equipment, Hydraulic Pneumatic system these programs have been conducted by various department.

5. Success Story : Two teams from Trinity Academy of Engineering. Pune comprising students of Electronics & Telecommunication and Civil Engineering have been selected for final round at Smart India Hackathon (SIH)-2022 for Hardware and Software edition. The Smart India Hackathon is organized every year by the Ministry of HRD. Government of India.

Baja SAE is a Collegiate Design Series competition run by the Society of Automotive Engineers International. The goal in Baja SAE is to design, build and race off-road vehicles that can withstand the harshest elements of rough terrain. The vehicles used in Baja SAE racing are often similar in appearance to dune buggies. Team Invictus Racing, K.J.E.I's Trinity Academy of Engineering SAE

INDIA COLLEGIATE CLUB BAJA TEAM participated in SAEINDIA BAJA 2022 competition that was held from 06th April, 2022 to 10th April, 2022 at Pithampur, Indore.

Institutional Distinctiveness

Empowering academics towards holistic development of students

Trinity Academy of Engineering aims to impart an excellent quality education in engineering at affordable fees, towards the holistic development of the students. The institutional distinctiveness is to excel in the overall academics of the students and making them competitive towards pursuing their goals. The institute commits for overall development of the enrolled students from rural as well as urban areas and empowerment of their academics as the institute is closely surrounded by both rural and urban areas. As per TIMES engineering ranking 2022 the institutes holds 109th rank in top private engineering institutes of the country. The integrated character building and holistic development through rigorous training and innumerable activities in the academics at the institute makes every student enough competitive to face various challenges of the globe.

TAE has been striving towards excellence in offering the best quality education to all its students. Achieving excellence in the education is long-run continuous procedure. This excellence in education is being achieved through rigorous academics at the institute by the following ways:

Enjoyable learning activity: Faculty at institute prefers to adopt innovative ways that can make learning enjoyable and interesting. For instance, quiz competition, virtual demonstrations using ICT tools and live demonstrations after visiting the actual happening sites. For instance, to learn the multi-media and Dolby systems, visiting nearby multiplex cinema theatre.

Project based seminars: This activity is organised for the students to present their project work, share innovative ideas, and discuss outcomes of their work with the audience that adds value to their communication skills, leadership's quality, and creativity / innovation ability.

Problem based learning: In this activity students can select a specific task of their choice and a group of students (5 or 6) can work on a project/model/assignment for a complete semester and outcome of the work can be submitted as a report at the end.

Hands on training: Learning by doing science and technology. Attending classes and watching video demonstrations may not always sufficient and direct hands on training can give better understanding and newer learning experience. Industrial visits are organised on regular basis for that. Institute has research and development cell for the implementation of the experimentation on innovative ideas of the students.

Employability skills enhancement: The aim of many students is to get employable after their graduation. Various activities are organised at the institutes that enable students to get ready

for the job. The career counselling sessions are conducted regularly through a Training and Placement Cell (TPC).

Skill development and value additions: The institute arranges skill development and value addition programs to facilitate students to enrich themselves for the entrepreneurship, employability and soft skills development.

Enhanced teaching-learning techniques: TAE use various ICT enabled tools to enhance the quality of teaching- learning like Video Conferencing platforms such as Microsoft Teams, ZOOM, Google Meet, Google Classroom, Google Docs Microsoft Power-point, and Google Slides, Virtual Lab etc., specifically used on extensive scale in COVID pandemic.

Posters/students seminars/group discussions: This is an important activity to nurture various abilities of the students such as communication, creativity, group workability, presentations, innovation, critical analysis, reviewing, knowledge gaining etc.

Online courses offered such as by NPTEL: Institute continuously encourages students to opt for the online courses offered by NPTEL that provide quality education to everyone who is interested in learning from IITs through web and video courses.

Collaborations and MoUs: The institute believes, in collaboration and working with multiple partners, including international universities and research organisations, NGOs, industries, other foundations, corporate, public, and the government, hence formally joined through the MoUs (Memorandum of Understandings) with various institute & industries.

Expert lectures/guidance: The lectures to students by scientists, technologists, entrepreneurs and eminent academicians are organised on regular basis. We believe that this activity can encourage students to think out of box and get courage to opt for the challenging career pathways.

Entrepreneurship development: The institute has full-fledged Entrepreneur Development Cell (EDC) that aims to keep encouraging budding entrepreneurs for the start-ups or own business ventures. This is the today's real need of the nation. We often practice to import technologies in part or full from developed world that keeps our productivity (GDP) low. The ultimate solution is to orient our students in such a way that they can aim to develop own science and technology to make the truly independent nation in 21st century. Importing science and technology is not affordable to the densely populated country like us that keeps our nation poor at the world forum.

Future generation of innovation & leadership: To create next gen leaders in science and technology, patriotism and hard work along with the critical awareness about today's social, techno-economic issues in the country are essential and these qualities can imbibed in the students and relevant awareness can be achieved through rigorous activities mentioned above.

Overall character building of any student includes development in its intellectual, psychological, physical, social, ethical, cultural human values and so on. These can be further included or supported by sports, cocurricular, extra-curricular activities etc.

In this way the institutional distinctiveness is clearly seen through above various activities in striving excellence in engineering education by empowering academics and implementing innovation practices towards holistic development and integrated character building of the students.