

**SHREE SWAMINARAYAN INSTITUTE OF  
TECHNOLOGY**

**Shree Swaminarayan Gurukul Campus Near EDI  
&Sardar Patel Ring Road, Bhat circle,**

**Gandhinagar Phone No:079-2396941**

**Web:www.ssit.co.in**

**Degree Engineering College (125)**



**INDUCTION PROGRAM REPORT:2025**

## **Detailed Activity Report**

**With the objective to acquaint new entrants with classroom atmosphere and to enhance various capabilities in them, the Induction Program was conducted in Shree Swaminarayan Institute of Technology as per the syllabus designed by Gujarat Technological University. The Induction Program was executed for the period of four weeks; The Induction Program is aimed to act as a buffer for the new entrants, with an objective to provide adequate time for the transition to hard-core engineering courses. The toughest task for any learner ranging all fields of academia is to enter into the new body of knowledge leaving the dated ideas behind. In order to bridge this gap, one requires a paradigm shift from leading to the newer and better realm of knowledge. It provides the learners an opportunity to enter into the domain of engineering with a swift move, by helping them understand the educational environment of the current trend. During this interaction of 4 weeks with the faculty and their classmates, the students equipped with the knowledge and the confidence needed to take on bigger challenges as future engineers of this country.**

**The Induction Program was specifically designed with an objective of providing a suitable platform to switch over from high school to college life. It was a perfect amalgamation of activities which would certainly benefit the students to identify their inner skills and talents. During this 4 week interactions and activities, students were equipped with knowledge and confidence which would help them to tackle superior challenges of real world. It had been emphasizing basically on 4 occurrences. Village Visit, Engineering Learning, Life Skills, History of Science & Technology.**

## **Report on VILLAGE VISIT-BHAT**

**Date:11/07/2025**

The entrants at SSIT,have visited some surrounding villages like Bhat Village on 26/06/2025 and made visit to the Gram Panchayat primary schools,aganwadis,water tanks and further existing facilities. They also interacted with some villagers and prepared a list of their plights and how can an engineer be catalyst for bringing betterment of village. points of view were put by students for the betterment of the life. The students worked in groups and discussed what help can be provided for and how the people can be educated. students were motive to towards ultimate society as a whole.



**Village visit:Bhat**

Report on  
History of Science & Technology

Finding the Value of  $\pi$  (Pi)

With the objective to establish a bridge between the things taught in the school and its usefulness in the field of engineering and in its application in daily life and in various fields, a bridge course activity was conducted in Gandhinagar institute of technology as per the syllabus designed by the GTU. In the Finding the value of pi, every class of each branch were divided into a group of 5-6 students. For each activity 2 hours were allotted. During this 2 hours activity in the 1st hour the students were explained the history of each activity and during the 2nd hour the students performed the activity and after the activity students got the importance and usefulness of Mathematics in real life as well as in engineering.

Topic-

“History of Pi and finding the value of pi” The Main objective of this activity is to make the students aware of the brief history of pi, finding its value and its application in various fields. It also includes how the value of pi is being used in finding circumference and area of circle. The value of pi is 3.1416.

The value of pi was determined by the famous Indian mathematician and astronomer Aryabhata (476 A.D.). Archimedes’ results rested upon approximating the area of a circle based on the area of a regular polygon inscribed within the circle and the area of a regular polygon within which the circle was circumscribed.

The apparatus used by the students were: String, Pencil, Cutter, White paper Sheets





Each group of students was given the string of different length and was asked to draw the circles of radius equal to the length of the string. Based on this the students came to know that pi is the ratio of Circumference and the diameter. By taking the circles of different radius the value of pi obtained was the same. At the end of the activity the students came to know the real-life applications of pi among which the some of them were:

- The double helix DNA revolves around pi
- Pi is rainbow
- Pi appears in colours and music.
- In studying the structure of pi the current record of the decimal expansion of pi, if verified stands at 5 trillion digits.

## Pythagoras Theorem

The activity started with the statement of the theorem which is “The sum of squares of two sides of a right angled triangle is equal to the square of its hypotenuse.” Students came to know that before Pythagoras gave the proof this theorem in 800 BC it was indirectly used by the Greeks and Indian mathematician Baudhayana had given a geometric expression of the same by drawing the squares on each side of a right triangle which is mentioned in the verse stated below:

## Life Skills Session

**Course Execution and outcomes :**

**Life skills have been defined as “the abilities for adaptive and positive behaviour that enable individuals to deal effectively with the demands and challenges of everyday life” (WHO). ‘Adaptive’ means that a person is flexible in approach and is able to adjust in different circumstances. ‘Positive behaviour’ implies that a person is forward looking and even in difficult situations, can find a ray of hope and opportunities to find solutions.**

**Life skills include psychosocial competencies and interpersonal skills that help people make informed decisions, solve problems, think critically and creatively, communicate effectively, build healthy relationships, empathize with others, and cope with managing their lives in a healthy and productive manner. Essentially, there are two kinds of skills - those related to thinking termed as "thinking skills"; and skills related to dealing with others termed as "social skills". While thinking skills relate to reflection at a personal level, social skills include interpersonal skills and do not necessarily depend on logical thinking. It is the combination of these two types of skills that are needed for achieving assertive behavior and negotiating effectively. “Emotional” can be perceived as a skill not only in making rational decisions but also in being able to make others agree to one's point of view. To do that, coming to terms first with oneself is important. Thus, self-management is an important skill including managing/coping with feelings, emotions, stress and resisting peer and family pressure. Young people as advocates need both thinking and social skills for consensus building and advocacy on issues of concern.**

**The objectives of the domain will be achieved through the following strands:**

- 1. Movement and Personal Growth**
- 2. History and Heritage**
- 3. Values and citizenship**
- 4. Interpersonal Skills, Conflict Resolution and Emotion Management**
- 5. Wellness and Self Care**

**The aims of Life Skills are to:**

- Ensure that students understand the importance of a healthy and active lifestyle.**
- Develop a range of movement and motor skills for a healthy and active life.**
- Develop a range of interpersonal and social skills through games and activities**

- **Develop an awareness of the past so as to understand the evolution of society to its present state.**
- **Inform students of their rights and responsibilities as active citizens for a sustainable development.**
- **Develop knowledge, skills and attitudes needed to preserve, appreciate and share our multiple cultural heritages.**
- **Develop skills to deter behaviours and lifestyles associated with crime, drugs and violence.**
- **Develop an atmosphere of peace and a sense of shared humanity. Demonstrate basic assertiveness strategies to manage interaction with others.**
- **Develop an understanding of the functioning of the human body.**
- **Develop action competence to reduce vulnerability to health problems.**
- **Through Life Skills learners are exposed to a range of knowledge, skills and values that strengthen their physical, social, personal, emotional and cognitive development**
- **Creative and aesthetic skills and knowledge through engaging in dance, music, drama and visual art activities**
- **Knowledge of personal health and safety**
- **Understanding of the relationship between people and the environment** □  
Awareness of social relationships, technological processes and elementary science

**(Lecture By Eminent People Mr. Sagar Jasani)**



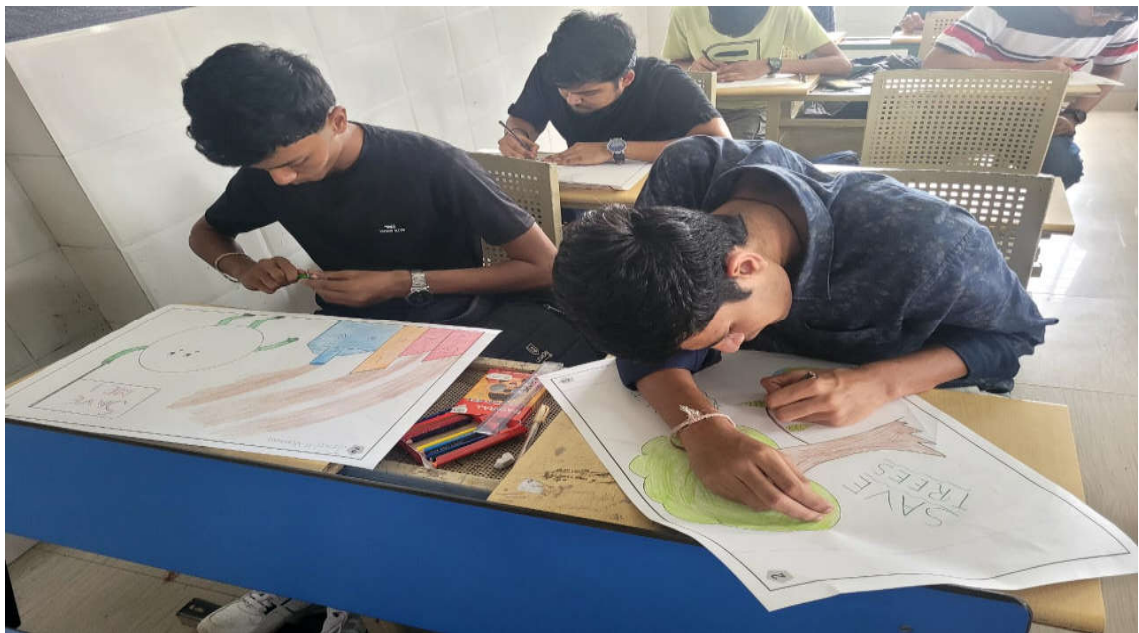
**(Lecture By Eminent People Mr. Dharmesh Vandra)**



**(Group Discussion Activity)**



## Creative Arts



## Yoga

Under the visionary leadership of Prime Minister Mr. Narendra Modi SSIT actively organized International Yoga Day .This yoga session was conduct by Ms. Suman

**Sharma, Professional Yoga Trainer He performed different style of yoga such as kapalbhati, anulom vilom and faculty members and students also understand what is the importance of Yoga in our daily lives.**



## Karate

Karate activity is very important for Students health and safety so we arrange one day Karate training program in our institute .



## Tree Plantation

Afforestation is the best way to contribute towards green and pollutant-free environment of our country. So, a small contribution was made by our students in this direction as well during the tree plantation activity of bridge course.

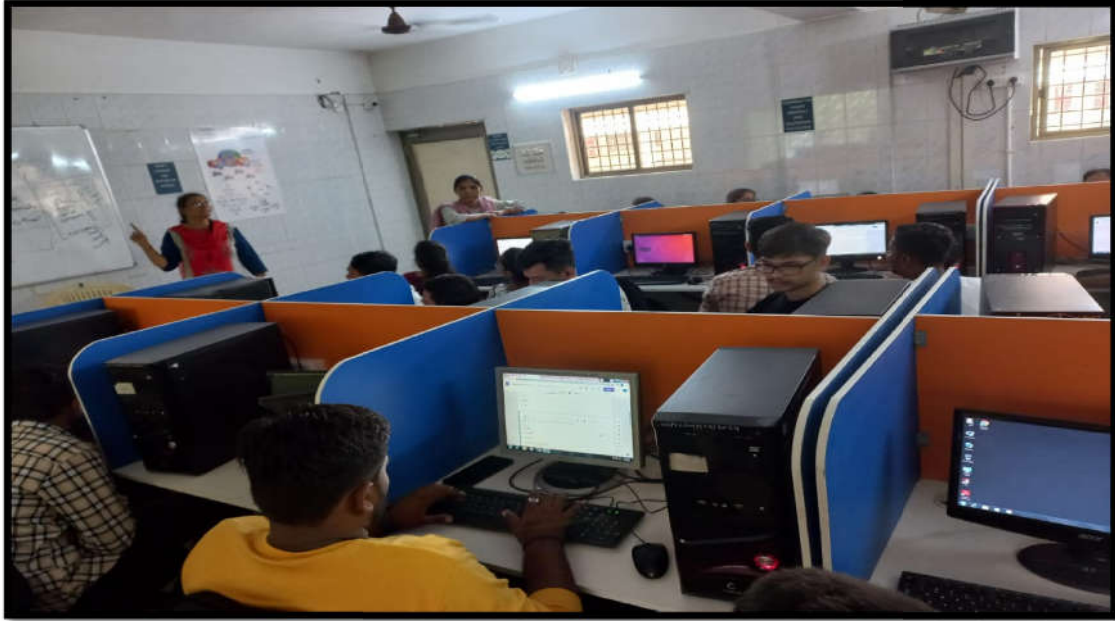


## Industry Visit

As the Part of Induction Program we visited Institute of Plasma Research centre(IPR). At Morning bus come to the college to pick the students then after at IPR different field scientist explain about plasma and how it's affect our life to the group of students. In afternoon they provide lunch to the students then after we gathered at seminar hall and on Video conference students see live plasma working project. All day is full of knowledge and fun.



## Computer Workshop



## Electrical Workshop



## Electrical Safety Awareness



## Sports





#### **Student Feedback:**

**It was a kind of lifeline in our initial days of college which helped us in all aspects. Though it was enhancing our physical strengths and inner stamina by practising physical activities, learning 3D drawing, making newspaper bags in our creative arts classes or it might be our fierce debates and knowledge imparting elocution sessions during our literary classes. Having to be from any branch Induction Programme proved to be one of the most acquainted thing to be include in our initial days and the efforts put up by our respectable faculty member for the same from all Inter disciplinary departments gave their 100% efforts to make each and every sessions as interactive as much as possible which also helped us to get into interacting with our colleagues helping us get to know about their skills at a better level. During this Induction programme the gap between the students and the faculty members was also vanished in few days only, by looking onto their inclination towards our interest and knowledge.**