



GUJARAT TECHNOLOGICAL UNIVERSITY

**A
Report
on**

INDUCTION PROGRAMME

Academic Year – 2023-24

First Year DIPLOMA Students

Physics (4300004)



**APOLLO INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

**SNME Campus, Near S.P. Ring Road Circle, GJ SH 68, Nava Naroda, Enasan,
Gujarat 382330**

Subject: Physics (4300004)

Name of the faculty: Patel Nidhi

- From 25/07/2023 to 31/70/2023 , an induction program was conducted for the Diploma Physics students with a specific focus on introducing them to the concept of catapults. The objective of the program was to provide hands-on experience and practical understanding of the principles of physics through the construction and operation of a catapult.

The induction program included a series of sessions designed to engage the students in the learning process and enhance their understanding of physics concepts related to catapults. The following topics were covered during the program:

Introduction to Catapults:

The first session provided an overview of catapults, their historical significance, and their application in various fields. The students were introduced to the basic components of a catapult and the underlying physics principles that govern its operation.



Construction of Catapults:

In the subsequent sessions, the students were guided through the construction process of their own catapults. They were provided with materials such as pen, rubber bands, and spoon, and were given instructions on how to assemble the catapults. This hands-on activity allowed them to apply their theoretical knowledge of physics to practical construction.

Understanding Physics Principles:

Once the catapults were constructed, the students were guided through a comprehensive explanation of the physics principles at play. Concepts such as potential and kinetic energy, projectile motion, forces, and torque were discussed in detail, emphasizing their relevance to the operation of the catapults.



Catapult Testing and Analysis:

After completing the construction and understanding the physics principles, the students were given the opportunity to test their catapults. They were encouraged to make adjustments and modifications to optimize the performance of their devices. This testing phase allowed them to observe firsthand the impact of different variables on the trajectory and range of the projectiles launched by the catapults.

Conclusion:

The induction program concluded with a reflection session, where the students shared their experiences, challenges faced, and lessons learned throughout the program. They were encouraged to connect their newfound knowledge of catapults to real-world applications and discuss the broader implications of physics principles in various fields.



IPDC – Integrated Personality Development Course

Name of the faculty member:

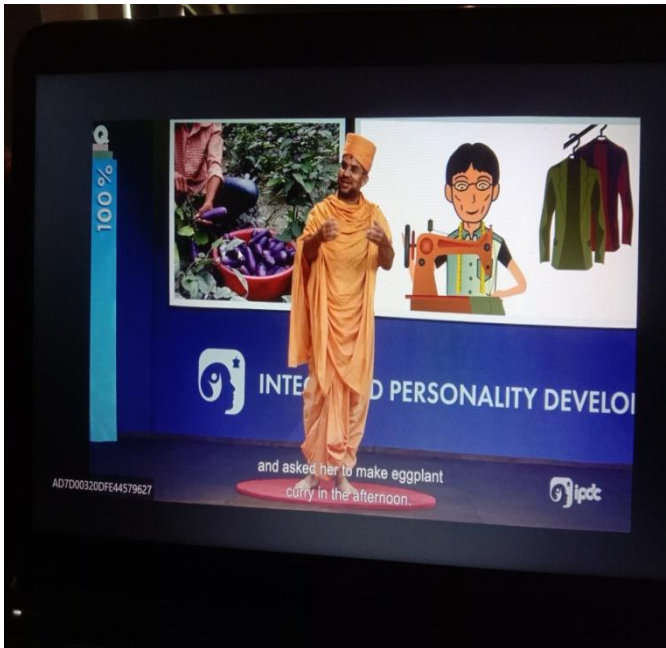
- 1. Prof. Dipavali Parekh**
- 2. Prof. Priya Chodvadiya**



IPDC aims to prepare students for the modern challenges they face in their daily lives. Promoting fortitude in the face of failures, unity amongst family discord, self-discipline amidst distractions, and many more priceless lessons. The course focuses on morality and character development at the core of student growth, to enable students to become self-aware, sincere, and successful in their many roles - as an ambitious student, reliable employee, caring family member, and considerate citizen.

Each lecture can be taken in a continuous two-hour session, or in two separate one-hour sessions. In addition to the core lectures, an induction and concluding lectures are recommended as shown in the below table.

Lecture No.	Module -Lecture	Lecture Description
Induction	The Need for Values	Students will learn about the need for values as part of their holistic development to become successful in their many roles - as ambitious students, reliable employees, caring family members, and considerate citizens.
1	Power of Habit	Students will undergo a study of how habits work, the habits of successful professionals, and the practical techniques that can be used to develop good habits in their life.
2	Listening & Understanding	<p>Students will learn from the inspirational lives of India's two legends, Sachin Tendulkar and Ratan Tata. They will implement these lessons through relatable case studies.</p> <p>Active listening is an essential part of academic progress and communications. Students will learn to listen with their eyes, ears, mind, and heart.</p>
3	Welcoming Challenges	This lecture enables students to revisit the way in which they approach challenges. Through the study of successful figures such as Disney, Lincoln and Bachchan, students will learn to face difficulties through a positive perspective.
4	Handling Social Media	Students will learn how social media can become addictive and they will imbibe simple methods to take back control.



Induction Programme Outcomes:

- To provide students with soft skills that complement their hard skills, making them more marketable when entering the workforce.
- To enhance awareness of India's glory and global values, and to create considerate citizens who strive for the betterment of their family, college, workforce, and nation.
- To inspire students to strive for a higher sense of character by learning from role models who have lived principled, disciplined, and value-based lives.



CSE – Communication Skills in English (4300002)

Name of the faculty member:

1. Prof. Dipavali Parekh
2. Prof. Priya Chodvadiya
3. Prof. Sweta Barot

This was an important session for the students to enrich their employability skills. For a student to embrace true professional values.

We explained the requisite communication skills, body language, and presentation format one needs to live by for a successful interview. They were taught how to introduce themselves in an improved and professional manner. Students learned the basic etiquette followed in a group discussion as well. They were taught how to work in a team with the help of a game. They were taught the story of famous one of the finest Indian authors R.K. NARAYAN of his generation writing in English.



In this session, students gather knowledge through **different vocabulary and Grammar games like the**

1. Word Ladder game
2. Word Chain Game.

