

NEOTECH INSTITUTE OF TECHNOLOGY, VIROD

BRIDGE COURSE REPORT

Numerous activities were taken place in Neotech Institute of Technology, Virod as a part of the bridge course 2015 as per Gujarat Technological University guidance. The bridge course was held to break the ice among first year students and encourage them to develop companionship among each other.

TECHNICAL MOVIES :

Technical movies and documentaries were shown to all students of first year to inspire them. The movies shown were I Robot, Megastructures : Burj Khalifa, Megafactories : Ferrari , Tron Legacy and The Internship Two short documentaries of bottle and toothbrush manufacturing were also shown. The students were all motivated to bring out the inner Einstein in them!



VILLAGE VISIT :

The students also visited the village Virod & Pilol near NH-8. The main motto of this visit was to bring out the problems faced by the people in their daily routine.

All the Students had conducted the first visit in the village's primary school. There they discussed about the education given to the children of the village. The major problem found in their education was that the students are not studying at their home, no parental support is given to their child in most of cases. Most of the people living there are unemployed, less educated so the people are not aware about the benefits of education .Since the government is taking necessary steps and action for the education system, they have provided books , stationary items ,free primary education to both girls and boys, uniforms, nutritious food etc.

SOME GLIMPSE OF STUDENTS WITH VILLAGE SCHOOL STUDENTS



All the students of the Neotech had given their views and ideas for the development of the students' economic status and their academics carriers. The conclusion to this primary school visit is that the government is providing all the facilities to the children but their parents are not supporting for studies .The solution to this that government should conduct parents meeting and make them aware about the benefits which they will get after the completion their child's education.

Next they started visiting the residence of the villagers to know their difficulties. The major problems to the people was:

- They are not getting transportation facilities from the village to the city areas.
- The people are not updated with modern irrigation facilities and machines.
- No adequate water for irrigation purpose is available to the farmers because of workshops, private institutes and other private estates.
- They only depend on the canal water and seasonal rainfall for their crops .No alternate route is available.
- Garbage is collected near the canal, due to which people are falling ill.



Here in this village water treatment plants are setup to provide clean water to all the people living in this village.

LIFE SKILLS :

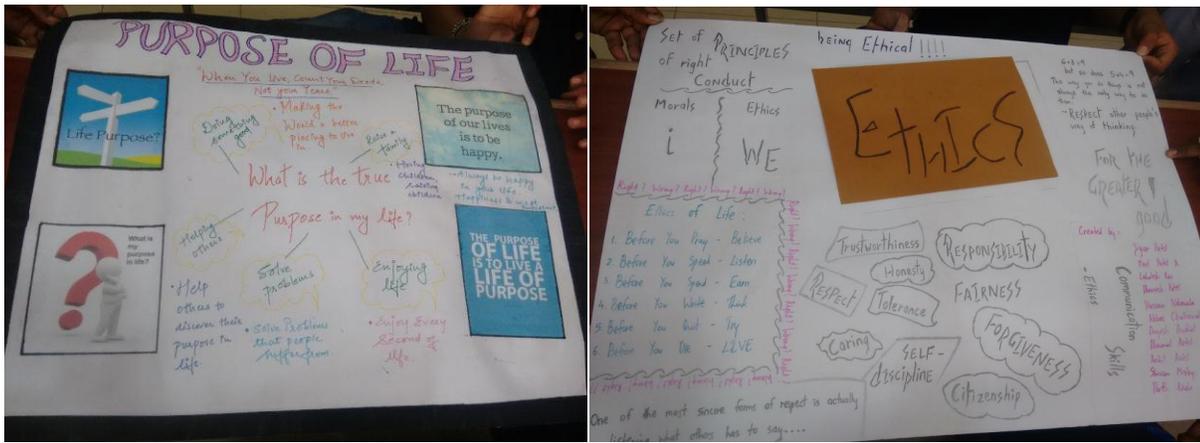
In bridge-course, 2015 there were 2 important topics that students contemplated upon and deeply observed life regarding those topics. The topics were

1. What is the ultimate purpose of life?

Students prepared charts and also explained them in great detail. They believed that life is not just getting job, getting married, having children and ultimately die. Life is a daring adventure or nothing. Life is a game which should be played with full enthusiasm. The ultimate goal of life should not be only materialistic but also having caring relationship, making someone happy and getting what you like and liking what you get.

2. Anger Management

Another topic that students pondered on was Anger management like other emotions , Anger is also one of the basic emotions of human beings, getting angry is natural but being a human being we can manage our anger and we can do certain activity like breathing deeply, listening to favorite music etc. Anger is a kind of wild justice. Anger is harmful for those who get angry. Getting angry doesn't get you anywhere .It is not the situation which makes someone angry. Anger is your reaction to the situation.



HISTORY OF SCIENCE AND TECHNOLOGY :

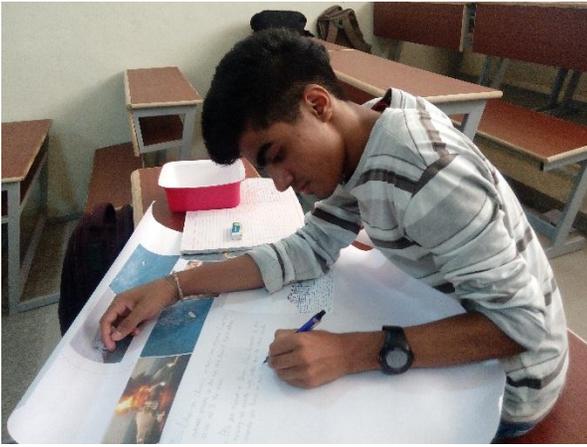
As the GTU recommended bridge course, an activity of cryptography was arranged.

The activity had begun with the introduction of cryptography and its importance. Then the further explanation was given by the professor. They showed different specimens of the cryptography. These specimens were consisting of different word, the simple words which were encrypted in different codes. Initially the students try to read the encrypted code and tried to break the codes. Many were successful even breaking codes, overall the session was interactive not only few but almost whole class was keenly paying attention. All the students seemed to be interested and did their best. Further, the event was participative; the students themselves came by making their own codes and shared with the rest of them. Many came out with very good knowledge of cryptography; they shared their ideas of encrypting different messages through numbers n sequences. Almost every student was engaged in the same activity, making their own codes and then asking the rest to break it.

This event proved to be important, interesting and enjoyable at the same time. The main purpose of the encryption was realized by the students. Thus this bridge course activity was accomplished successfully, with full patience and participation of students as well.

As a part of Bridge course an activity to Make a working model and demonstrate the functioning was organized. In this activity students prepared different models depending upon their basic knowledge.





PRESENTATION ON TECHNICAL DISASTER MANAGEMENT AND INNOVATION :

As a part of Bridge Course, the students of 1st year B.E. were assigned to prepare a group-wise presentation regarding the projects given by the faculty members.

For providing guidance and information regarding the preparation of presentation, a demo session was organized by the faculty members.



The students were divided into 9 groups according to which they were given topics regarding the disasters and innovation in science and technology.

The topics included the past natural and man-made disasters that took place in India and the latest equipment's and facilities which can be introduced to facilitate the current lifestyle.



Thus, this activity helped the students in enhancing their knowledge about the respective topics given to them and further improving their communication skills.

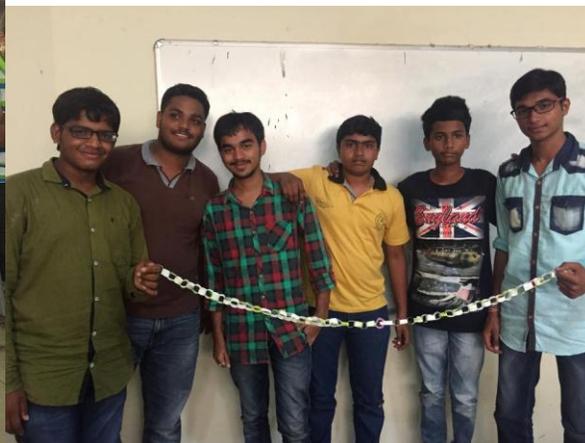
BLOOM’S TAXONOMY:

Another activity aimed at introducing the concept of Bloom’s Taxonomy – Learning. Engineering and its learning domains like analyzing, evaluation and creativity. Application of Bloom’s Taxonomy that is transformation from lower order thinking. Skills to higher order thinking skills, was also the key focus of this activity. It was conducted department wise.

All it began with introduction of building components and their functions in detail. The significance of quantity survey, estimation and methodology by visualization about when to find area and volume for given quantity in quantity sheet were the key topics covered.

Students have to visualize and remember the building construction and materials used in it. They were given a chart of material required for m³ of construction of brick work with R.C.C. work rates and with the help of it, students were about to get quantity of materials like cement, sand, water, aggregate, paints, wood etc.

Outcome: Students were made aware with fundamental concepts like estimation and costing as well as developing the consultancy etiquette. They were qualified to apply the knowledge of mathematics in civil engineering.



PLANE MAKING :

As a part of Bridge course an activity to prepare paper airplane and demonstrate the functioning was organised. In this activity students prepared air plane from colored paper and measure the distance covered by air plane while flying in the air.



By the end of the program, all the students were gelled in with each other and had interacted with all the senior faculties giving them idea about the campus, teachers and overall life around Neotech Technical Campus. The budding engineers were more than excited about their journey!

