

SARVAJANIK EDUCATION SOCIETY  
**SARVAJANIK COLLEGE OF ENGINEERING & TECHNOLOGY**  
DR. R. K. DESAI MARG, ATHWALINES, SURAT – 395001  
*Towards progressive civilization.....*

**NIRMAAN – 2K18**  
**Under the Banner of**  
**Kshitij -2018**

**Report on**

TWO DAYS EVENTS

***TECH FEST***

*14-09-2018 and 15-09-2018*

**Organised by:**  
**FACULTY OF CIVIL ENGINEERING**

**Faculty Convenors:**  
**Prof. (Dr.) Kamlesh Dalal**  
**Prof. (Dr.) Manisha Vashi**

**Students Convenors:**  
**Maitray Parikh**  
**Aaushi Doshi**

**Head of the Department:**  
**Prof. (Dr.) Jigar Sevalia**

## Introduction

In context of NIRMAAN 2K18 organized by Faculty of Civil Engineering at Sarvajani College of Engineering and Technology, two days Technical events were organised on 14<sup>th</sup> and 15<sup>th</sup> September, 2018 of under the banner of Kshitij-2018 for the under graduate and post graduate students in accordance with their co-curricular activities. The event included in sub events namely Quizader (Quiz Competition), Debate, Quagmire (Geo Technical Engineering Event), Abhisar (Poster Presentation), Aavishkar (Model Presentation), Abhivyakti (Paper Presentation), Cubo Mania (Structural Engineering Event), Spurt Saga (Water Resource Engineering Event) and Urbanisme (Town Planning Event).



### Brochure of NIRMAAN 2K18

Students from different departments of Sarvajani College of Engineering and Technology, Surat had participated in all these sub events. Total 633 students got registered in these events. First, second and third prizes were declared for all individual events.

### 14<sup>th</sup>September: NIRMAAN 2K18 1<sup>st</sup>day

The day one started with inaugural function which included ribbon cutting ceremony by the student co coordinators, honourable Head of the Department Prof. (Dr) Jigar Sevalia and faculties of civil engineering and followed by blessings from lord Ganesha.

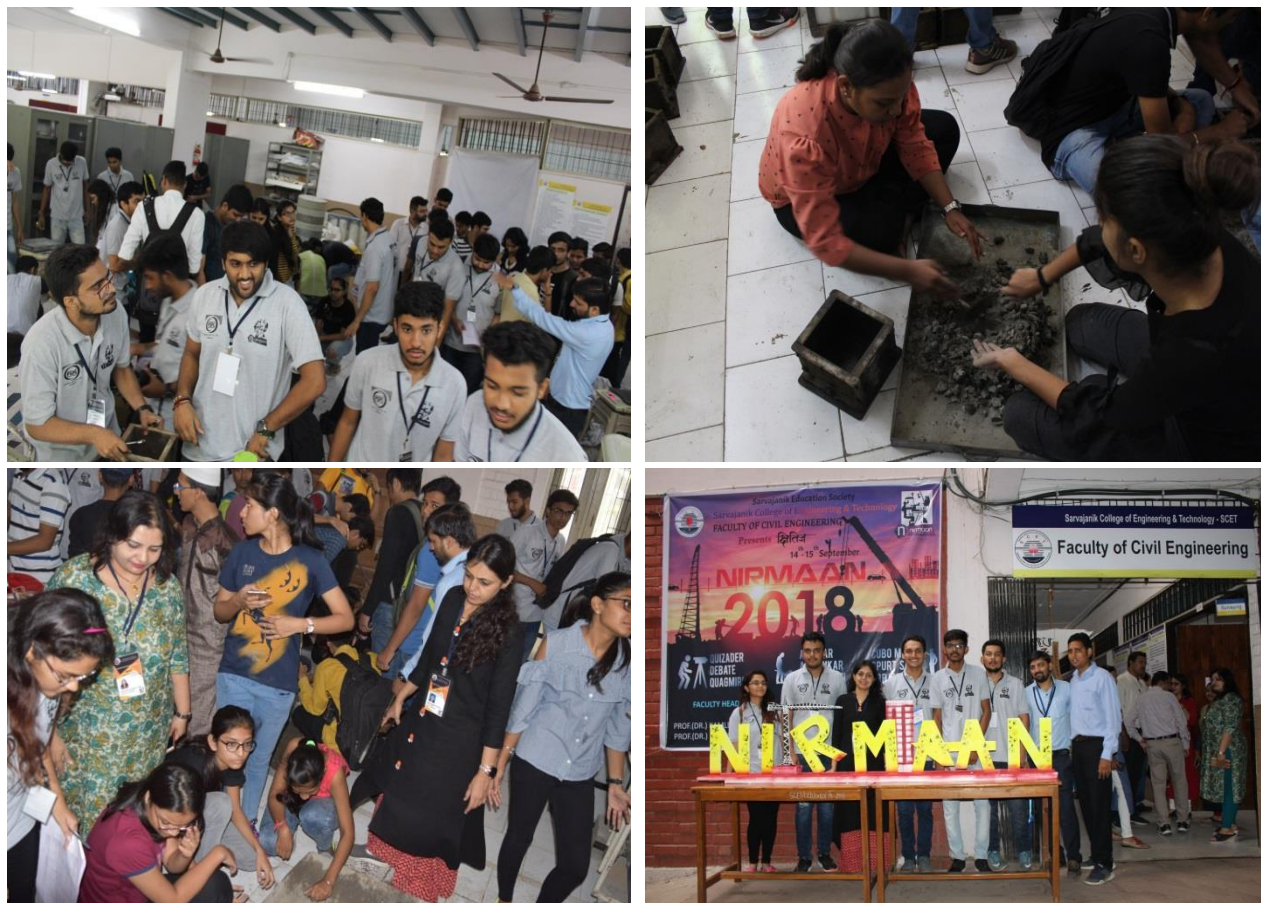


**Inaugural Function and prayer of Shreeji**

### Cubo Mania:

This event is based on one day compressive strength of concrete cube. Total 30 groups (120 students) participated in this event. The material for the event (cement, sand, aggregate) was provided by the department; Participants had to give the ratio for concrete mix and estimated strength before 15 minutes of the event. The result was declared after testing of compressive strength. The event was carried out under the guidance of faculty event head person Prof. (Dr.) Minakshi Vaghani.





Glimpses of event (Cubo Mania)

### Abhisar (Poster Presentation)

In this event, participants had to prepare a poster based on the theme of disaster and give the presentation based on the concept adopted. Total 10 groups (20 students) participated. Evaluation of the event was carried out keeping three stages of disaster (ie. pre, on-site and post) in mind. Students presented their individual posters in front of the jury **Prof. Sahita Waihkorn (Associate Professor) from GEC, Surat**. The event was carried out under the guidance of Faculty event head Prof. Ankita Parmar.



Glimpses of event

### Quagmire (Geotechnical engineering based Event)

Event designed based on concept of liquefaction of sand due to seismic waves. Participants had to make cone of sand by compacting sand at optimum water content. Testing was carried out using vibrating machine to check the stability of structure held on top of the cone during vibration and quick sand condition. Total 50 groups included 100 students participated. The event was carried out under the guidance of Faculty event head Prof. Khushbu Berawala.







**Glimpses of event**

### **Abhivyakti (Paper Presentation)**

The Technical Paper Presentation (ABHIVYAKTI) event NIRMAAN-2018 under KSHITIJ hosted a total of 11 teams from varied engineering backgrounds, with an emphasis on various branches. The event was carried out under the guidance of Faculty event head Prof. Siddharth Shah (FCE). The judge Prof. Krishnaraj Khatri was from BAPIT, Umrakh, Bardoli. The event commenced at 1.30 p.m. after the felicitation of the judge, with the participating teams eager to present their innovative ideas. It was indeed a sea of brilliance, as team after another came forward armed with incredible, original prototypes, research papers and advancements.





Glimpses of event

## Debate

Debate had been organised under the able guidance of Prof. Himanshu Padhya. The topics of debate were very interesting, included current affairs like **Section 377, "Are girls safe in independent India", "L.A. (Less Attendance) should be there?"** etc. Students participated with great enthusiasm and represented their thoughts and made the event successful. Winners are declared as per the attitude and ability to express their views effectively.



Glimpses of event



## 15th September: NIRMAAN 2K18 2nd day

### Sprut Saga (Fluid Mechanics)

The winner team had maximum horizontal distance of jet through orifice in a single attempt using plastic sheets. Plastic sheet and adhesive were given to the students. Total 78 Team and 156 students participated with highest no of entry in Nirmaan 2K18.



Glimpses of event

### Aavishkar (Model Presentation)

**Model presentation** is a three dimensional representation resulting from the logical and innovative ideas. Model is prepared using variety of materials and fabrication techniques. In this way every person is a **model maker** by mixing a unique combination of art and science into their work of replicating, creating mock-ups, volume studies, and scale reproductions of anything from a building to an automobile. The event was carried out under the guidance of Faculty head Prof. Mitali shah wherein **total 11 teams** got **registered** in which **9 teams participated and** presented their individual models under the expert review and comments of Prof. **Vipin Yadav from GEC, Surat** and 2 winner teams were declared.





**Glimpses of event**

### **Urbanism (Town Planning)**

The event “Urbanism” was planning based event. The meaning of Urbanism is the development and planning of cities and towns and it is the study of how inhabitants of urban areas, such as towns and cities, interact with the built environment.

The event was conducted on 15th September, 2018. The main task of the event was to plan 1.5 square kilometre area in A2 size drawing sheet with appropriate “Vision” in 1 hour 15 minutes. In this event it was compulsory to include one lake at centre and also the river in the plan.

The other tasks for the participants were as follows:

- 1) To provide appropriate road network and road pattern.
- 2) To provide zoning regulations according to the vision.
- 3) To provide best suitable location of basic infrastructure facility.

Best Planning with all above criteria was given first and second rank and the ranking was given by Prof. Tanuj Parmar, Assistant Professor, and Dr. S & S. S. Gandhi Govt. Engg. College, Surat.



Glimpses of event

### Quizader (Quiz competition)

Under the banner of **NIRMAAN- 2K18**, the event **Quizader** was organized on 15<sup>th</sup> September, 2018. It was organized by faculty head **Prof. Hemali Jardosh**. Total 125 students had registered in this event which was divided in 3 rounds. Out of 125, total 120 students had successfully attended the first round. In first round, total 25 multiple choice questions were asked in 15mins. Out of 120 participants, 20 participants were selected for second round. Second round was totally based on general knowledge. Some famous structures were shown to the participants. At last, the time came for the last round and to finalize the winners based on the 3<sup>rd</sup> round. In this round, again 10 multiple choice question were asked and 10 minutes were given to solve the questions.



Glimpses of event

### Valedictory Function

The chief guest of valedictory function was Mr. (Er.) M. P. Mithaiwala. He is Government consultant of environment and water resource engineering as well



founder of Green Design & Engineering Services Pvt. Ltd. He delivered expert talk on principles and criteria on design of STP. After guest lecture, prizes distributed to winners of all events by the chief guest and head of department collectively. Nirmaan 2K18 were concluded by National anthem.



**Glimpses of Valedictory Function**





**Team Nirmaan 2K18**



