

Volume II - Issue II 2019



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## EDITORIAL

As our country is celebrating the biggest festival of democracy, the 17th Lok Sabha Election, I take this opportunity to talk about our most significant responsibility as citizens of this country. In this capacity, the foremost privilege that we have is the right to select our leader.

It's important to know that the process of selection involves rejection. Only when we can decide whom to reject and on what ground, we can select.

It often happens that people do not exercise their right of voting as they feel none of the candidates on the list are suitable to be the leader of the country and thus reject all. Being left with no option to select, they don't vote. To help out citizens in this condition, the Election Commission of India has come out with NOTA (None of the above) option in the poll list. If anybody feels no one in the list is suitable, he/she can opt NOTA and exercises his/her right. All the provisions are made by the government so that people can cast vote. So now we have ample options in the ballot sheet, with diversified claims to serve the city and citizens, and it's on us to make the best out of it.

This 5-10 minutes process of casting a vote can change your entire life span. This small act of short duration can influence your life mentally, monetarily, culturally as well as spiritually. We all should understand this to the core and practice universal, adult, secret voting up to the best level of rationality.

Our rationality can only lead us to the future growth of the nation as well as individuals. Influences will be many, but a resolute decision based on knowledge can only lead us.

Happy Voting!

Editor – in – Chief.

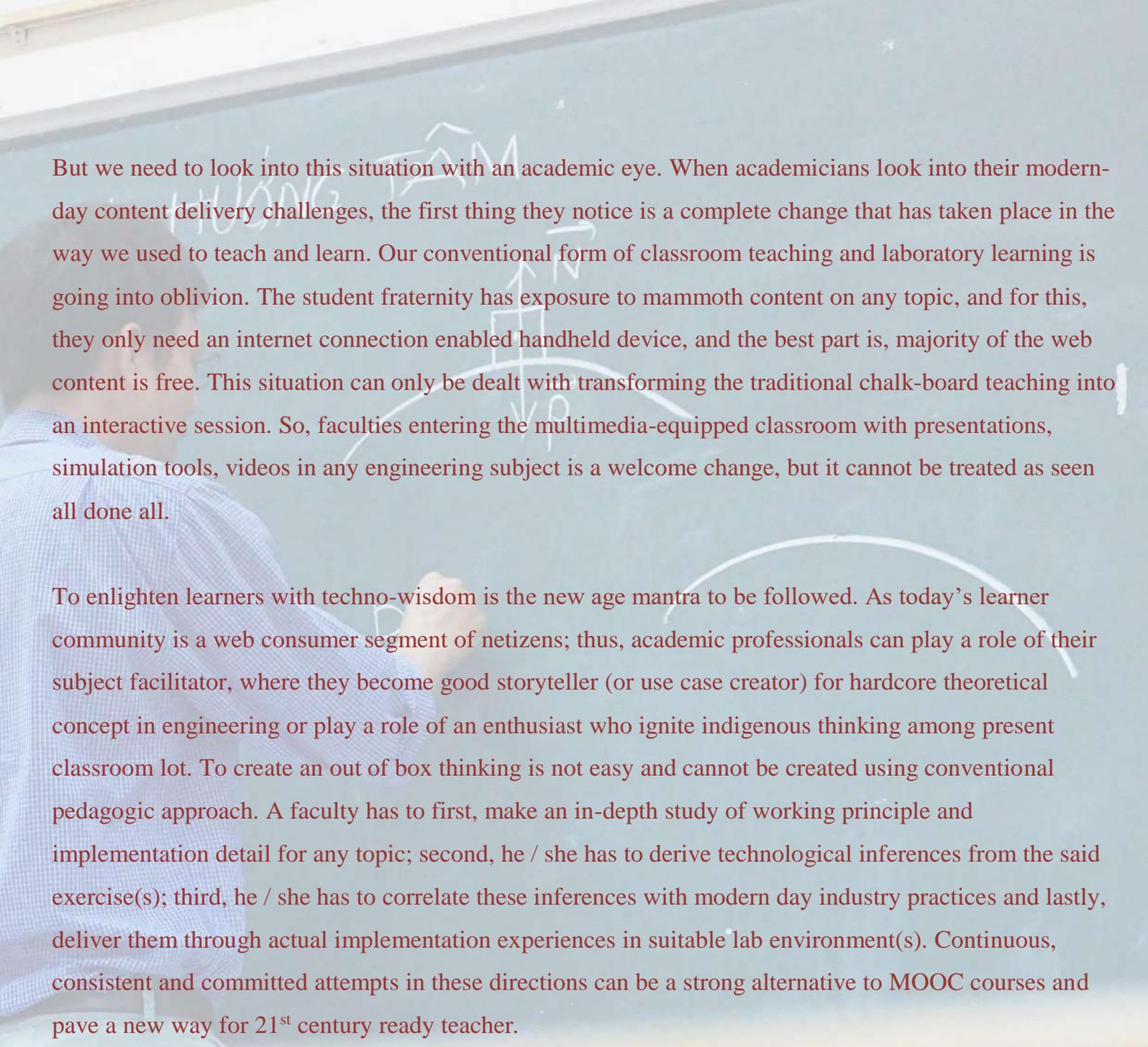
## **From Faculty Members**

### **Engineering Education: Contemporary Challenges and Amicable Solutions**

Engineering and engineering education dates back to one hundred fifty or two hundred years. Industrial Revolution was preceded by Agriculture revolution, and the Industrial revolution was incomplete without mass production with a clear motive of increasing production and profit. And thus, engineering education was targeting a problem-solving approach and devising mechanisms and processes to fulfill their industrial needs. It has brought a new eco-system that was demand driven and consumer-centric. The above-said industry and academia practices set the new norms of skill-driven society. These trends have made new working ethos in communities.

But in the 50s and 60s of the 20<sup>th</sup> century, an unexpected event took place, and the large size machine named Computer got invented. Initially, it was a powerful calculating machine for large size number crunching operations and industry applications. As time went by, the size of computers reduced drastically, and the power of computing-storage increased exponentially. Later on, Computers Manufacturing as an industry witnessed unprecedented growth in the history of humankind. Then after computerization of almost everything took place and it made in-roads to every sector of industry vertical. It made computers an inevitable part of our day to day life. Computers did not remain as desktop systems only but propelled the dawn of new age devices like laptops, tablets and mobile devices. These devices and the Internet revolution have touched every aspect of human life and their digital existence.

The present-day population of internet users is known to be technology consumers whose bandwidth appetite is increasing day by day. It is the result of the proliferation of social networking sites that has transformed web consumers into web contributors. At an increasing rate, Internet data is multiplying, and the size of data generation is in Zettabytes (billion X terabytes OR trillion X gigabytes). It will bring a new big wave of Industrial revolution. Present day industry experts' term this next industrial revolution as Industry 4.0 and the role of Internet of Things (IoT), Cloud Technology, Industrial IoT (IIoT), and big data analytics will influence it in a massive way. It is estimated that these mentioned next-gen technologies are going to be very destructive in nature and will destroy many set world standards & practices and will create a new world order. It will impact the education sector also.

A person in a blue shirt is writing on a chalkboard. The board has some technical diagrams and text written on it, including the word 'HUNG' and some arrows. The person is standing on the left side of the board, facing right.

But we need to look into this situation with an academic eye. When academicians look into their modern-day content delivery challenges, the first thing they notice is a complete change that has taken place in the way we used to teach and learn. Our conventional form of classroom teaching and laboratory learning is going into oblivion. The student fraternity has exposure to mammoth content on any topic, and for this, they only need an internet connection enabled handheld device, and the best part is, majority of the web content is free. This situation can only be dealt with transforming the traditional chalk-board teaching into an interactive session. So, faculties entering the multimedia-equipped classroom with presentations, simulation tools, videos in any engineering subject is a welcome change, but it cannot be treated as seen all done all.

To enlighten learners with techno-wisdom is the new age mantra to be followed. As today's learner community is a web consumer segment of netizens; thus, academic professionals can play a role of their subject facilitator, where they become good storyteller (or use case creator) for hardcore theoretical concept in engineering or play a role of an enthusiast who ignite indigenous thinking among present classroom lot. To create an out of box thinking is not easy and cannot be created using conventional pedagogic approach. A faculty has to first, make an in-depth study of working principle and implementation detail for any topic; second, he / she has to derive technological inferences from the said exercise(s); third, he / she has to correlate these inferences with modern day industry practices and lastly, deliver them through actual implementation experiences in suitable lab environment(s). Continuous, consistent and committed attempts in these directions can be a strong alternative to MOOC courses and pave a new way for 21<sup>st</sup> century ready teacher.

Prof. Dr. Chirag Suryakant Thaker  
Professor, Computer Engineering Department  
Government Engineering College Rajkot

## “Brizingr 2019” 6<sup>th</sup>&7<sup>th</sup> March 2019

Government Engineering College, Rajkot conducts an annual state-level techno-cultural event “Brizingr” since 2012. Young aspirants of various engineering colleges assemble with a very highly competitive spirit. This year it was organized during 6<sup>th</sup> and 7<sup>th</sup> March 2019. Well, known motivational speaker, Shri Shailesh Sagpariya Inaugurated the event. Presence of the principals of colleges like AVPTI, Government Polytechnic Rajkot, VVP College, Atmiya Engineering College, B. H. Gardi Engineering College, and SLTIET motivated students for their performance.

The event aimed to create a healthy competitive environment to show one’s engineering skills. Brizingr19 enhanced various technical, logical, analytical, management and problem-solving skills of the students. In this event total 20 technical and 23 nontechnical competitions were organized and are followed by a one-day cultural event named Euphoria, which witnessed 25 various performances by students.

The event received a tremendous response and attracted as many as 4500 participants from more than 20 engineering colleges from all over Gujarat. Around 10,000 spectators and supporters visited the event. Many well-known personalities from industries, academics, and other government sectors encouraged the students by their valuable inputs during the event.

For the decoration and other requirements of the event, student coordinators focused on the “Go Green” concept. Eco-friendly components were used for various purposes. To contribute towards society, a blood donation camp was organized, and almost 100-unit blood was donated by the students and faculty members.

Brizingr’19 was a complete package which provided lifetime memories and learning lessons not only for participants but also for visitors. Total 750 student coordinators worked day night to set up all the necessities of the event under the guidance of the Principal, Prof. C H Vithalani, Coordinator of the event, Prof. K B Rathod and other faculty members. Following the success of the previous event, Brizingr’19 has set a new benchmark.





## NSS

NSS unit of GEC Rajkot organized a state level programme named WOW (Wisdom on Wheels) on 16<sup>th</sup> of February 2019. 42 Student participated in this event. A specially designed bus 'Wisdom on Wheel' (WoW) equipped with the state-of-the art facilities such as laptops, projector, magnetic whiteboard, electronic toys and colors for painting, visited those areas that were marked to have underprivileged children. "The main objective of the WoW project, conceptualized by Narendra Modi when he was the chief minister of the state is to bring knowledge to the doorsteps of underprivileged children.



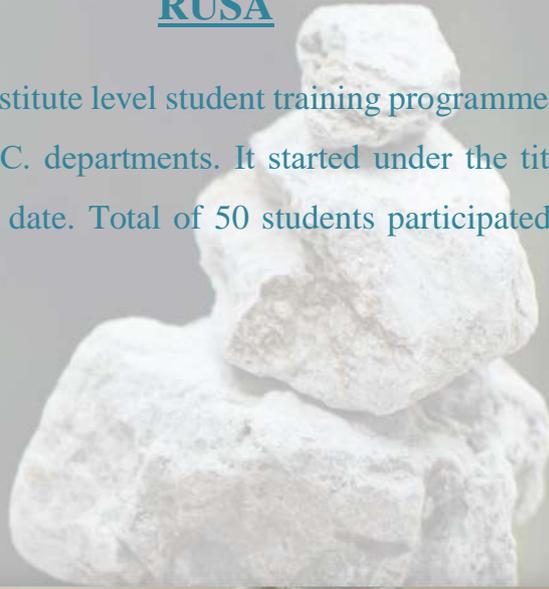
During these various activities were performed by different teams viz. giving information about different schemes of the government for the welfare of people, Awareness Programme on Life Insurance, Government Schemes, Scholarships for girls, Banking, an awareness programme had been conducted on the government schemes especially for women, government scholarship and employment opportunities.



On 27<sup>th</sup> February 2019, a tree plantation programme was organized by the Civil Engineering Department of GECE under NSS. 25 students of the department actively took part in this event.

## RUSA

Under RUSA component no. 12, an institute level student training programme of 240 hrs. has been arranged for final year students of I.C. and E.C. departments. It started under the title of 'DRAFTSMAN' on 1<sup>st</sup> February 2019 and is in progress till date. Total of 50 students participated in this programme with full interest.





## SSIP workshop on “Innovation in structural *analysis* using computer software.”

A one-day SSIP workshop was jointly organized by Applied Mechanics Department, Civil Engineering Department and Khodiyar group Rajkot on 25<sup>th</sup> Feb 2019. The program was inaugurated by Prof. P. I. Bhatt. The speakers of the event Er. Chetanbhai Dave and Er. Gaurang Goswami of Khodiyar Group, Rajkot were introduced by Prof. K. B. Vaghela. HODs of both the departments and our honorable SSIP coordinator Prof. K. B. Rathod were present on this occasion.

In his speech, Mr. Gaurang Goswami explained about the structural analysis using Staad pro software. According to him, staad pro is structural analysis software. He also explained about the various applications of staad pro software; like analysis of beam, column, slab, etc. He described shear force and bending moment diagrams in various structural members and also explained the methods and techniques used in the software.

This workshop was attended by 60 students. During this session, they worked on the structural analysis of beams, columns, and frames under the guidance of Er Gaurang Goswami on the “Staad pro” software. Students enjoyed the session very much. The event was concluded by a certificate distribution ceremony.

## URJA 2019

Government engineering college Rajkot organized a sport event named 'Urja 2019' during 1<sup>st</sup> and 2<sup>nd</sup> March 2019. Students and Faculty members participated in different indoor and outdoor sports like Cricket, Volleyball, Badminton, Chess, Carom and Table Tennis. This energetic event was coordinated by the Sports committee of the college headed by Prof. M.D. Khediya & Prof. R.D. Mehta with the support of student coordinators. The winners of various games are:

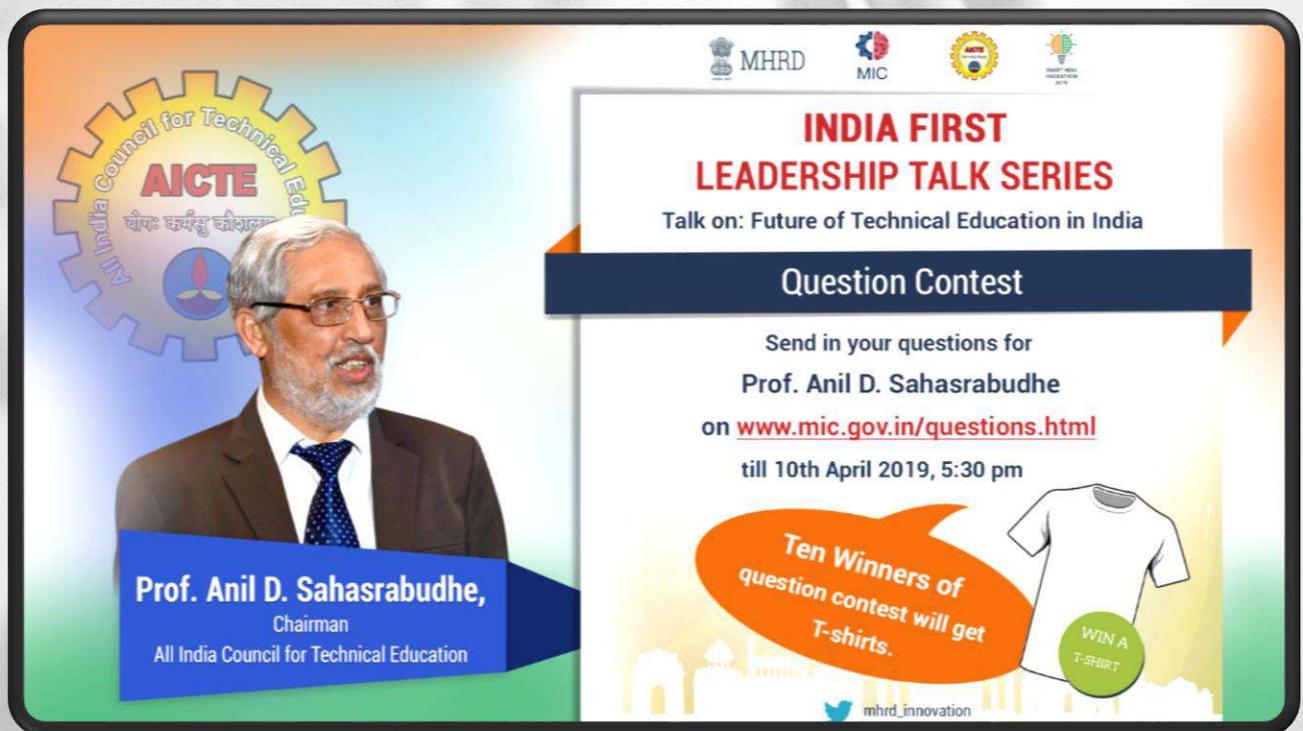
Game	Result
Cricket	Winner – IC 4 <sup>th</sup> Sem Team
Volly Ball	Winner – Civil 6 <sup>th</sup> Team
Table Tennis	Winner – Rhythm Patel
Badminton (Boys Doubles)	Winner - Raj Bhope(IC 8 <sup>th</sup> ), Maulik Dhorajiya ( Civil 4 <sup>th</sup> )
Badminton (Girls Doubles)	Winner – Prof.Shweta Parmar (Faculty IC), Prof. Deepali Bavlecha(Faculty Elec.)
Badminton (Faculty members)	Winner – Prof. Jay Pandya (EC), Prof. Rahul Mehta (EC)
Badminton (Mix Doubles)	Winner – Raj Bhope (IC 8 <sup>th</sup> ), Siddhi Sonraj (EC 6 <sup>th</sup> )
Chess	Girls Winner – Abhilasha Singh (EC 8 <sup>th</sup> ) Boys Winner - Raj Patel (IC 6 <sup>th</sup> )
Carom	Winner - Abhilasha Singh (EC 8 <sup>th</sup> )





## MIC- IIC Leadership Talk Ep. 04 – Question contest

In a series of bringing best leaders to address the young minds of the country, MHRD Innovation Cell has invited **Prof. Anil D. Sahasrabudhe, Chairman, AICTE**. In these questions from the students of different institutes were invited on the topic “**Future of Technical Education in India.**” **The last date of sending the questions is April 10, 2019 (by 5.30 P.M.). The students of all departments of GECR participated in the talk.**



MHRD MIC

**INDIA FIRST LEADERSHIP TALK SERIES**  
Talk on: Future of Technical Education in India

**Question Contest**

Send in your questions for  
**Prof. Anil D. Sahasrabudhe**  
on [www.mic.gov.in/questions.html](http://www.mic.gov.in/questions.html)  
till 10th April 2019, 5:30 pm

Ten Winners of question contest will get T-shirts.

WIN A T-SHIRT

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**Prof. Anil D. Sahasrabudhe,**  
Chairman  
All India Council for Technical Education

## Student's Corner

### **GECR, MY Alma Mater**

My Name is Vishal, and I am a 2018 pass out from GEC Rajkot. For me, engineering was one hell of the journey, being a student of a government college often people look you with a different perspective, even I used to think the same when I joined GECR back in 2014. But as time passed, I realized that GECR is different from other government colleges. According to me, this is the only institute that makes you capable enough to stand in the competitive job scenario of engineering. Unlike the other institutes, it not only sharpens your technical but also non-technical skills, even though it is a government institution, you have to go through many assignments, submissions, exams but the result of all these endeavors is fruitful. It's been a while working with Tata Chemicals, and I must say the knowledge provided by the faculty members of GECR has helped me a lot in the growing engineering environment. So, if you dare to dream, dreams do come true with GECR.

By Vishal Parmar

## Virtual LAB



An MHRD Govt of India Initiative

Virtual lab experiments are being widely used by students of various departments of GEGR, approximately 100 students participated during 25/3 to 26/3 /19 sessions of the lab. Based on the concepts of Electronics & Communication Engineering, Mechanical Engineering, and Physics.

## **Faculty Training**

- One faculty member of Mechanical Engineering attended one week programme at LDCE, Ahmedabad.
- A training programme of one week was attended by five faculty members of the Civil Engineering Department, at GP, Rajkot, SVNIT, Surat, LDCE, Ahmedabad.
- Two faculty members of Computer Engineering Dept. attended one-week programme at LDCE, Ahmedabad and one participated in the Induction Phase- I at NITTTR, Ahmedabad.
- Two faculty members of Electrical Engineering Dept. attended one-week programme at LDCE, Ahmedabad.

## **Research Publication**

- Dr. Sanghamitra S Bhatt, published a research paper on I Follow After: A Narrative of Protest was published in March 19 issue of the Biannual, Peer Reviewed International Journal of English, Re-Markings