



# *SALITER – CIVIL*

## *INSIGHTS*



From Director's Desk

**Contents**

From Director's Desk	1
H.O.D.'s Message	2
Departmental Events (Seminar/Webinar organized)	4
Departmental life at a glance	8
Faculty Achievements	9
Expert talk delivered	10
Paper published/ presented	10
Webinar Attended	12
Student Achievements	23
Student Placements	23



I am pleased to congratulate Civil Department for issuing third issue of Departmental eNewsletter "SALITER-CIVIL INSIGHTS". Huge congrats to the editorial team. A wide number of readers are welcomed by the newsletter "SALITER-CIVIL INSIGHTS" perspectives from the Department of Civil Engineering. The faculty's job is to develop students' talents and skills for their future. Let this be a forum for professors and students to show their creative abilities and revolutionary ideas. The outside world will come to know about the achievements and extraordinary performances of the students and faculties through this online medium. My best wishes will always be with this type of good efforts of the Civil Department.

**Editorial Team**

**Prof. V. G. Patel, H.O.D.**  
**Prof. C. N. Patel**  
**Prof. Bibhabasu Mohanty**

**Dr. Rupesh P. Vasani**

Ph.D. Engg (WRM-Civil Engg),  
 Ph.D. Mgt, Post Doctoral,  
 Diploma in Bus. Entrepreneurship  
 PGDIRPM, MBA

Message from Head of the Department



I hereby very much happy with the third issue of department newsletter “SALITER-CIVIL INSIGHTS” & congratulations indeed to editors team, faculties of Department & Students also. This will act as mirror of department & will provide the platform to appreciate faculties & students both for their extra ordinary achievements. Newsletter really show the talents of newcomers and I hope one enjoy reading about our success to become one of the best team.

Without conventional classroom teaching we are more focusing on lively & more interesting classroom by using models, animations & simulations with the PPT presentations and digital media which ultimately gives us higher university exam results. During the COVID – 19 pandemic time we have taken more than 200 very effective online lectures with live interaction with the students. Also, more focusing on practical teaching & laboratory work provides students sound technical knowhow with deep understanding of concept to built confidence cannot be denied. We are going through this to take department on new height with the support of Director Sir & Management as well.

**Prof. V. G. Patel**

Head, Dept of Civil Engineering  
SAL Inst. of Technology & Engineering Research

<b>Summary of Departmental Activity (Jan – June, 2021)</b>	
Seminar/Workshop/Webinar organized by Department	2
Expert Talk delivered by Faculties	2
Paper Published/Presented by Faculties	11
Webinar attended by Faculties	118

### VISION OF CIVIL DEPARTMENT

To achieve *Excellence in Technology, Innovation and Research* in higher education of civil engineering in ethical way to Lead and Serve the Nation with integrity and credibility

### MISION OF CIVIL DEPARTMENT

- ✚ Create and develop sustained environment of learning.
- ✚ To produce high caliber and dynamic Civil Engineers with due consideration of Economy, Ecology and Ethical issues of nation.
- ✚ To provide highly competent Civil Engineers to society and construction industry.
- ✚ To assist in developing nation capabilities globally with respect to Science, Technology and Research.

### PROGRAMME EDUCATIONAL OBJECTIVES

- ✚ Graduates will able to apply fundamental principles of science, mathematics and engineering using modern tools to solve the societal and environmental problems.
- ✚ Graduates are able to use their practical, field survey, computer and analytic skills to build industry ready engineers to solve multi-disciplinary sustainable projects.
- ✚ Graduate applies innovative ideas to improve the technical competency in engineering decisions, lifelong learning, to equip leadership qualities in diverse teams, promote and practice appropriate ethical moral to become professional engineers.

## Departmental Events (Webinar Organized)

- Prof. Bibhabasu Mohanty, Chirag Patel, Kunj Patel, Mitul Patel, Hiren Patel, Deep Patel, Jay M. Patel and Mittal Shah coordinated two days national seminar on “Modern approaches in civil engineering” organized by Department of Civil Engineering on date 15<sup>th</sup> and 16<sup>th</sup> April, 2021 sponsored by GUJCOST. Dr. Vishal A. Arekar (BVM Engineering College) (Chief Guest) and Prof. V.G. Patel (HOD, SAL Institute of technology and engineering research) motivated the students and faculties from all over the Gujarat to participate in such events with enthusiasm. Faculty members of Civil Department and Management of SAL Technical campus fully supported the event.
- Prof. Rekha Patel and Darshan Shah coordinated an expert lecture by Dr. Deepak Sharma from California state university, Fullerton on “Construction Equipment Management” dated 24<sup>th</sup> February 2021 for final year students of civil engineering department.

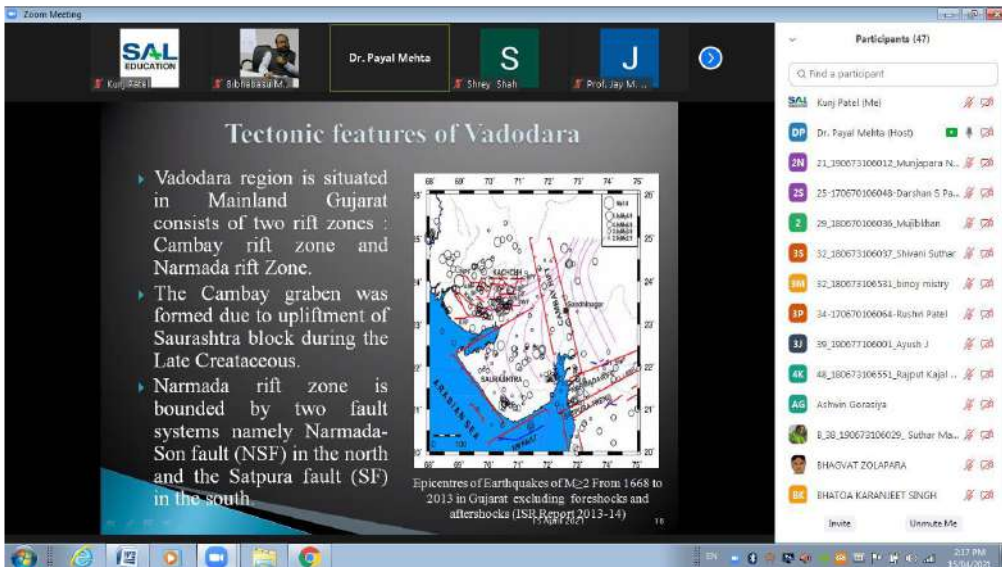
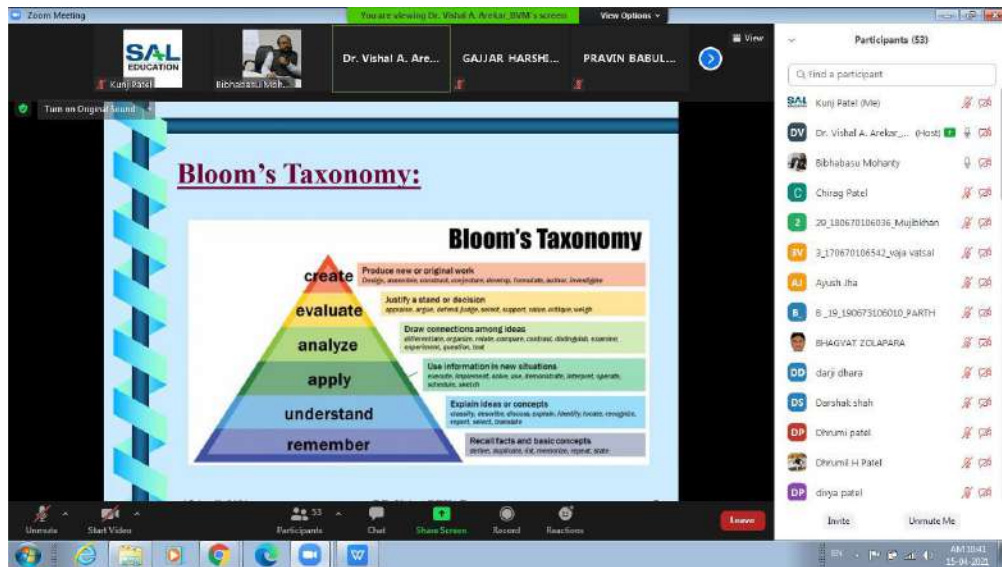
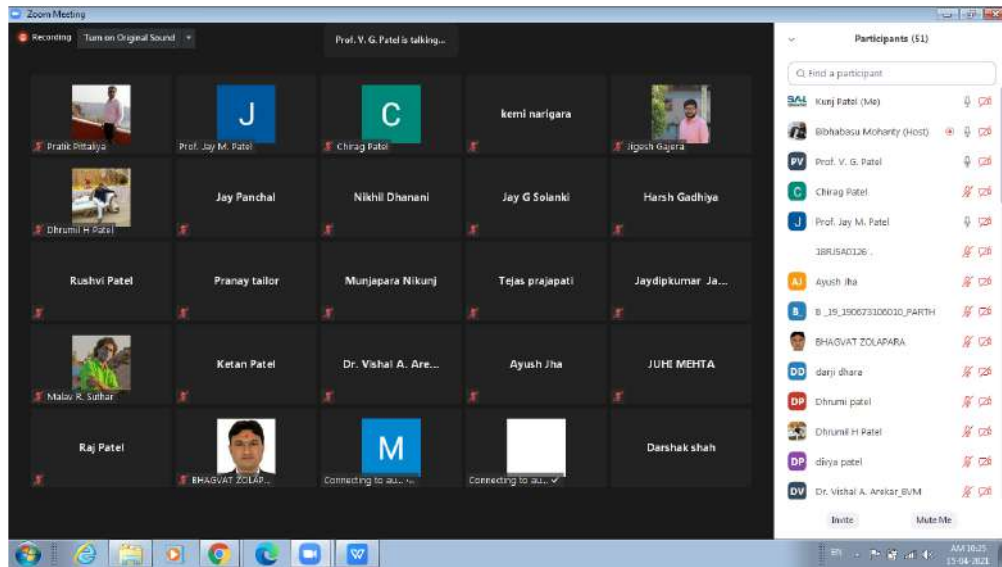
The poster features logos for the Gujarat Council of Science and Technology, SAL Education, and Dst (Department of Science & Technology, Government of Gujarat). The main text is in blue and green, with a blue and green curved background at the bottom.

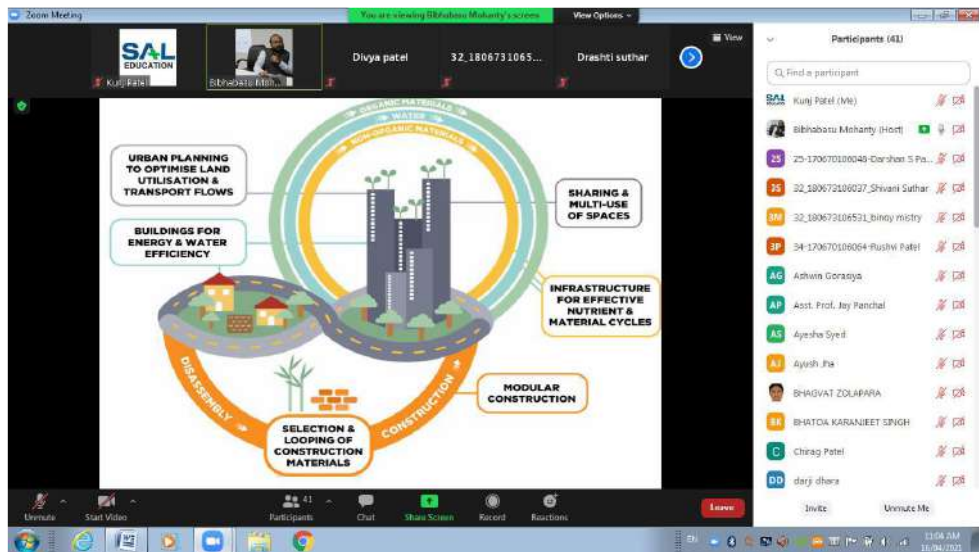
**SAL INSTITUTE OF TECHNOLOGY & ENGINEERING RESEARCH**  
**Civil Engineering Department**  
 is going to organize Two Day National level seminar  
**“MODERN APPROACHES IN CIVIL ENGINEERING”**  
**on 15<sup>th</sup> & 16<sup>th</sup> April, 2021**  
 In Association with  
**Gujarat Council of Science & Technology**

<b>Chief Patron :</b> Dr. Rajendra Shah Chairman, SAL Education	<b>Coordinator :</b> Prof. B. Mohanty Prof. Kunj Patel
<b>Patron :</b> Dr. Rupesh Vasani, Director, SAL Education Ms. Nileema Shah, GM, SAL Education	<b>Co-Coordinators :</b> Prof. Mitul Patel Prof. Deep Patel Prof. Hiren Patel
<b>Convener :</b> Prof. V.G. Patel (HOD, Civil) Prof. Chirag Patel	

**ADDRESS FOR CORRESPONDENCE**

<b>Prof. Jay M. Patel</b> Contact : +919426352198 Email : jay.patel@sal.edu.in	<b>Prof. Mittal Shah</b> Contact : +917600057819 Email : mittal.shah@sal.edu.in
--	---









Department at a glance

**ACADEMIC EMOTION::::: WE, ALL ..MISSING OUR STUDENTS.....**

**ONE DAY ALL PLACES ARE FULL WITH OUR STUDENTS**



Picture Courtesy : Prof. Alpesh Adesara :Assistant Professor :Civil Department, SALITER

## Faculty Achievements

### **Prof. Bibhabasu Mohanty**

- Currently joined as reviewer for Global Journal of Civil and Environmental Engineering (RAFT publications, Sweden) from January-2021.
- Currently joined as Life member of Institute of scholars (InSc2021BD88).

### **Prof. Chirag Patel**

- Completed EDx course on “Drinking water Treatment” offered by Delft University of Technology on 13<sup>th</sup> January 2021.

### **Prof. Rekha Patel**

- Working on “EngInnes” ERASMUS+ project as project co-ordinator on behalf of SALITER. EngInnes Project is of 3 year tenure from jan 2020 to dec 2022, with an objective to develop innovative Systems linking Academic Education in Engineering and Informatics with Labour Market's Needs (Co-funded by European union).
- Completed a course in 13 jan 2021 on “Drinking water treatment” a study offered by Delftx, an online learning initiative of Delft University of technology.

### **Prof. Rinki Mishra**

- Completed a course in 13 jan 2021 on “Drinking water treatment” a study offered by Delftx, an online learning initiative of Delft University of technology.

### **Prof. Kunj Patel**

- Currently joined as life time member of Indian Concrete Institute from April-2021.
- Currently joined as associate member of Indian Association of Structural Engineers from April-2021.

### **Prof. Jigar Zala**

- Appointed as a Member of Editorial Board of the “International Journal of Advanced Research in Science, Communication and Technology”, Peer-Reviewed Journal (Lambert Publication's, India, Asia-Pacific) from February-2021.
- Successfully completed STTP on “Structural Design and Analysis using Software Application” Training, Certified by Bentley Institute from 3<sup>rd</sup> to 7<sup>th</sup> May, 2021.

**Expert Talk Delivered****Prof. Bibhabasu Mohanty**

- Delivered an expert talk (Online) on “Circular economy for sustainable development” organized by Department of Civil Engineering, SAL Institute of technology and engineering research, 16<sup>th</sup> April, 2021.

**Dr. Sejal Desai**

- Dr. Sejal Desai has delivered an expert lecture on “Application of Optimization and Computing Techniques in Engineering” on 20/1/21 in 5 days STTP, approved by Directorate of Technical Education (DTE) and sponsored by Gujarat Knowledge Society (GKS), at L. D. College of Engineering.

**Paper Published/presented****Prof. Bibhabasu Mohanty**

- Published a research paper “Heavy metals in soils and in vegetations from wastewater irrigated croplands near Ahmedabad, Gujarat, India: Risk to human health”, Nature Environment and Pollution Technology, Vol. 20, No. 1 2021. (ISSN: 2395.3454).
- Published a conference paper “Substrate optimization for generation of electricity from wastewater by using microbial fuel cell”, Department of Chemical Engineering, Faculty of Technology, Dharmsinh Desai University. (ISBN: 978-93-5457-142-8).
- Presented a paper “Removal of color from wastewater by using alum as coagulant and Sodium dithionite ( $\text{Na}_2\text{S}_2\text{O}_4$ ) as reducing agent” in three days e- Conference on “A Current Scenario of research in the field of Civil Engineering”, organized by Department of Civil Engineering, Sankalchand Patel College of Engineering, Visnagar, Gujarat during 27th - 29th January 2021.
- Presented paper “Substrate optimization for generation of electricity from wastewater by using microbial fuel cell” in an international conference on “Green technologies for sustainable development”, organized by DDIT, Nadiad, 9<sup>th</sup> to 11<sup>th</sup> march 2021.

**Prof. Kunj Patel**

- Published a conference paper “Substrate optimization for generation of electricity from wastewater by using microbial fuel cell”, Department of Chemical Engineering, Faculty of Technology, Dharmsinh Desai University. (ISBN: 978-93-5457-142-8).
- Presented a paper “Removal of color from wastewater by using alum as coagulant and Sodium dithionite ( $\text{Na}_2\text{S}_2\text{O}_4$ ) as reducing agent” in three days e- Conference on “A Current Scenario of research in the field of Civil Engineering”, organized by Department of Civil Engineering, Sankalchand Patel College of Engineering, Visnagar, Gujarat during 27th - 29th January 2021.
- Presented paper “Substrate optimization for generation of electricity from wastewater by using microbial fuel cell” in an international conference on “Green technologies for sustainable development”, organized by DDIT, Nadiad, 9<sup>th</sup> to 11<sup>th</sup> march 2021.

**Dr. Sejal Desai**

- Published a book chapter “Artificial Replenishment of Ground Water by Rain Water Harvesting-A Case Study” in Groundwater Resources Development and Planning in the Semi-Arid Region, Book Published in Springer Nature by 27<sup>th</sup> May 2021, E book ISBN 978-3-030-68124-1, DOI: 10.1007/978-3-030-68124-1.
- Presented paper on “Leakage Optimization of Water Distribution Network Using Artificial Intelligence”, in the National Conference on Advanced Modeling and Innovations in Water Resources Engineering AMIWRE-2021, National Institute of Technology (NIT), Jamshedpur, Jharkhand, India, on 20-21 February 2021.

**Prof. Jigar Zala**

- Published a research paper entitled “Seismic Assessment of RC Frame Building with Different Location of Flag Wall”, in IJARST, Volume 3, Issue 2, March 2021.
- Published a research paper entitled “An Experimental Impact on Strength Enhancement and Properties of Concrete Using Magnetized Water”, in IJARST, Volume 3, Issue 2, March 2021.

**Prof. Darshan Shah**

- Published a paper on “Causes of cost overrun in construction projects in Ahmedabad”, in International Journal of Scientific Research and Development, Volume 8, Issue 12, February 2021.

**Prof. Noopur Shah**

- Published a paper on “Seismic performance of steel framed building with mass irregularity with the use of different combination of Base isolaters and Dampers” in International journal of advanced research in science, communication and technology, Volume 5, Issue 2, May 2021.

**Prof. Deep Patel**

- Published a paper “Experimental Study on Hemp Fibre Usability for BC Grade 1” in International journal of science and advance research in technology. (ISSN: 2395.1052).

**Prof. Mitul Patel**

- Published a conference paper “Substrate optimization for generation of electricity from wastewater by using microbial fuel cell”, Department of Chemical Engineering, Faculty of Technology, Dharmsinh Desai University. (ISBN: 978-93-5457-142-8).
- Presented a paper “Removal of color from wastewater by using alum as coagulant and Sodium dithionite ( $\text{Na}_2\text{S}_2\text{O}_4$ ) as reducing agent” in three days e- Conference on “A Current Scenario of research in the field of Civil Engineering”, organized by Department of Civil Engineering, Sankalchand Patel College of Engineering, Visnagar, Gujarat during 27th - 29th January 2021.
- Presented paper “Substrate optimization for generation of electricity from wastewater by using microbial fuel cell” in an international conference on “Green technologies for sustainable development”, organized by DDIT, Nadiad, 9<sup>th</sup> to 11<sup>th</sup> march 2021.

**Seminar/Webinar/Conference attended**

**Prof. Bibhabasu Mohanty**

- Two days webinar on “Advances in Urban Water and Sewerage Management Practices (AUWSMP-2021)” during 12th-13th February, 2021 organized by Department of Civil Engineering, Sankalchand Patel College of Engineering, Visnagar and sponsored by Gujarat Council on Science and Technology, Gujarat.

- Four days FDP “Green Chemistry and Technology for Sustainable Engineering” during 18<sup>th</sup> to 21<sup>st</sup> January, 2021 organized by School of Engineering, P.P. Savani University and sponsored by Gujarat Council on Science and Technology, Gujarat.
- One day national webinar on “Recent Advances in Civil Engineering” on 24<sup>th</sup> March, 2021 organized by Civil Engineering Department, Sal Engineering and Technical Institute, Ahmedabad and sponsored by Gujarat Council on Science and Technology, Gujarat.
- One day webinar on “Application and use of optimization and soft computing techniques in Civil Engineering” organized by Department of civil engineering, SAL college of engineering, Ahmedabad on 12<sup>th</sup> February 2021.
- Five days webinar series of “Sustainable Approach towards Rurbanisation” during January 4 to 8, 2021 organized by Gujarat Technological University.
- A session on “Method for publish research work in reputed journal” by Dr. Abhijit Parmar, civil dept from Sakalchand Patel university on dated 27<sup>th</sup> April 2021.
- A webinar on “design of water distribution Network by EPANET & branch” by Purvang Pandya, civil dept. from SAL College of Engineering dated 30<sup>th</sup> April 2021.

### **Prof. Mitul Patel**

- Two days webinar on “Advances in Urban Water and Sewerage Management Practices (AUWSMP-2021)” during 12<sup>th</sup>-13<sup>th</sup> February, 2021 organized by Department of Civil Engineering, Sankalchand Patel College of Engineering, Visnagar and sponsored by Gujarat Council on Science and Technology, Gujarat.
- Four days FDP “Green Chemistry and Technology for Sustainable Engineering” during 18<sup>th</sup> to 21<sup>st</sup> January, 2021 organized by School of Engineering, P.P. Savani University and sponsored by Gujarat Council on Science and Technology, Gujarat.
- One day national webinar on “Recent Advances in Civil Engineering” on 24<sup>th</sup> March, 2021 organized by Civil Engineering Department, Sal Engineering and Technical Institute, Ahmedabad and sponsored by Gujarat Council on Science and Technology, Gujarat.
- Webinar on “Application and use of optimization and soft computing techniques in Civil Engineering” organized by Department of civil engineering, SAL college of engineering, Ahmedabad on 12<sup>th</sup> February 2021.
- Five days webinar series of “Sustainable Approach towards Rurbanisation” during January 4 to 8, 2021 organized by Gujarat Technological University.

### **Prof. Chirag Patel**

- Three days online workshop on “Capacity Building in GIS and ITS Application” during 7<sup>th</sup> to 9<sup>st</sup> January, 2021 organized by Department of Civil Engineering, IITE, Indus University, Ahmedabad and sponsored by Gujarat Council on Science and Technology, Gujarat.
- Four days FDP “Green Chemistry and Technology for Sustainable Engineering” during 18<sup>th</sup> to 21<sup>st</sup> January, 2021 organized by School of Engineering, P.P. Savani University and sponsored by Gujarat Council on Science and Technology, Gujarat.
- Webinar on “Remedial Waterproofing for Building on 22<sup>th</sup> January, 2021 organized by Ultratech Cement LTD.
- One day national webinar on “Recent Advances in Civil Engineering” on 24<sup>th</sup> March, 2021 organized by Civil Engineering Department, Sal Engineering and Technical Institute, Ahmedabad and sponsored by Gujarat Council on Science and Technology, Gujarat.
- One – week FDP on “Recent development in Concrete technology : Sustainability of modern and hybrid composite” conducted from 1<sup>st</sup> to 5<sup>th</sup> March 2021 by Marwadi University and sponsored by Gujarat Council on Science and Technology, Gujarat.
- Webinar on “National Education Policy – 2020” on 11<sup>th</sup> February 2021 organized by GTU.
- Webinar on “Application and use of optimization and soft computing techniques in Civil Engineering” organized by Department of civil engineering, SAL college of engineering, Ahmedabad on 12<sup>th</sup> February 2021.

### **Prof. Alpesh Adesara**

- On Efficiency and effectiveness curing process of concrete by Ultratech Cement Pvt Ltd on dated 1<sup>st</sup> January, 2021.
- On Engineering and heritage structures by Ultratech Cement Pvt Ltd on dated 8<sup>th</sup> January, 2021.
- On Climate Change: Imperative concrete understanding and practice by Ultratech Cement Pvt Ltd on dated 15<sup>th</sup> January, 2021.
- National Level Virtual Quiz competition on topic “Civil brain” scoring 100% marks, organized by Parul University, Baroda on dated 21<sup>st</sup> January, 2021.
- On Precast Infrastructure for developed India by Wonder Cement Pvt Ltd on dated 22<sup>nd</sup> January, 2021.

- On Interpretation of NDT results for acceptance of concrete by Ultratech Cement Pvt Ltd on dated 29<sup>th</sup> January, 2021.
- On 6 light house projects for affordable housing by Ultratech Cement Pvt Ltd on dated 5<sup>th</sup> February, 2021.
- On Technocrats forum on 3s prefabricated construction practices by Ultratech Cement Pvt Ltd on dated 5<sup>th</sup> February, 2021.
- On Concrete sustainability by Ultratech Cement Pvt Ltd on dated 12<sup>th</sup> February, 2021.
- eFDP on Recent Developments in concrete technology: sustainability of modern and hybrid structures by Marvadi University from 1<sup>st</sup> March to 5<sup>th</sup> March, 2021.
- On Application of 3d printing technology in civil engineering by JAYPEE University of engineering and technology, Guna on dated 6th March, 2021.
- On Advancement in Concrete Technology by Dr.N.G.P.Institute of Technology, Coimbatore on dated 19th March, 2021.
- On Recent advances in civil engineering by Sal engineering and Technical Institute, Sal education campus on dated 24<sup>th</sup> March, 2021.
- On Case study on road and buildings construction in rann of kutch by Ultratech Cement Pvt Ltd on dated 27<sup>th</sup> March, 2021.
- On Smart Cities GOI: A Multidisciplinary Aspects of Civil Engineering by JAYPEE University of engineering and technology, Guna dated 27th March, 2021.
- On Cement Plasticizer compatibility by Ultratech Cement Pvt Ltd on dated 3<sup>rd</sup> April, 2021.
- On Myths of Vaastu by Wonder Cement Pvt Ltd on dated 21<sup>st</sup> May, 2021.
- On Infrastructure development and opportunity for engineering graduates by Ultratech Cement Pvt Ltd on dated 22<sup>nd</sup> May, 2021.
- On From Ready mix concrete (RMC) to Readymade buildings (RMB) by Ultratech Cement Pvt Ltd on dated 29<sup>th</sup> May, 2021.
- On Basic Fundamental of Vaastu shastra in context of civil engineering by Wonder Cement Pvt Ltd on dated 7<sup>th</sup> June, 2021.

### **Prof. Rekha Patel**

- One-week online short term training programme (STTP) on “outcome-based education and NBA accreditation process” organized by Department of Civil Engineering, L.D. College of Engineering, Ahmadabad from 28 Dec 2020 to 02 Jan 2021.



- Session on world IP Day “Why IP is important in academic?” “Organised by ministry of education (GOI) dated 26 April 2021.
- Session on “Method for publish research work in reputed journal” by Dr. Abhijit Parmar, civil dept from Sakalchand Patel university on dated 27<sup>th</sup> April 2021.
- On “design of water distribution Network by EPANET & branch” by Purvang Pandya, civil dept. from SAL College of Engineering dated 30<sup>th</sup> April 2021.

### **Prof. Rinki Mishra**

- One-week online short term training programme (STTP) on “outcome-based education and NBA accreditation process” organized by Department of Civil Engineering, L.D. College of Engineering, Ahmadabad from 28 dec 2020 to 02 jan 2021.
- A webinar on “Application and Use of Optimization and Soft Computing techniques in Civil Engineering” organized by SAL College of Engineering dated 12<sup>th</sup> Feb 2021.
- Session on world IP Day “why IP is important in academic?” “Organised by ministry of education (government of India) dated 26 April 2021.
- On “Method for publish research work in reputed journal” by Dr. Abhijit Parmar, civil dept from Sakalchand Patel university on dated 27<sup>th</sup> April 2021.
- On “design of water distribution Network by Epanet & branch” by Purvang Pandya, civil dept from SAL College of Engineering dated 30<sup>th</sup> April 2021.
- On “AIR POLLUTION: NEW CHALLENGES AND ISSUES” organised by Ultra Tech Cement Ltd. dated 5<sup>th</sup> June 2021.

### **Prof. Bansri Jethwa**

- One day webinar on “Application and Use of Optimization and Soft Computing Techniques in Civil Engineering” held on 12<sup>th</sup> February, 2021 organized by Department of civil engineering, SAL College of engineering, Ahmedabad.
- One day webinar on “Recent Advance In Civil Engineering” held on 24<sup>th</sup> March, 2021 organized by Department of civil engineering, SAL Engineering & Technical Institute, Ahmedabad.
- One day webinar on “Myths of Vastu” held on 21<sup>st</sup> May, 2021 organized by Wonder Cement Limited Ahmedabad.

### **Prof. Hiren Patel**

- Four days faculty development programme on the Theme “Green Chemistry & Technology for Sustainable Engineering” during January 18-21, 2021 organized by School of Engineering, P. P. Savani University.
- Five days webinar series of “Sustainable Approach Towards Rurbanization” during January 4 to 8, 2021 organized by Gujarat Technological University.
- One day webinar series of “Efficiency and Effectiveness of Curing Process of Concrete” on January 1, 2021 organized by UltraTech Cement Ltd.
- One day webinar series of “Climate Change Imperative Concrete Understanding and Practice” on January 15, 2021 organized by UltraTech Cement Ltd.
- One day webinar series of “Remedial Waterproofing for Buildings” on January 22, 2021 organized by UltraTech Cement Ltd.
- One day webinar series of “Interpretation of NDT Results for Acceptance of Concrete” on January 29, 2021 organized by UltraTech Cement Ltd.
- One day webinar series of “Construction of Baha’i House of Worship Lotus Temple” on May 22, 2021 organized by UltraTech Cement Ltd.
- One day webinar series of “Creating Major Maintenance Free RCC Bridges for India” on June 5, 2021 organized by UltraTech Cement Ltd.
- One day webinar series of “Variability and Factors affecting the interpretation of Concrete Strength” on June 12, 2021 organized by UltraTech Cement Ltd.

### **Prof. Jay Patel**

- On “Imperative Concrete understanding & Practice” at 15<sup>th</sup> January, 2021, organized by Ultratech Cement Ltd.
- On “Remedial Water Proofing Buildings” at 22<sup>th</sup> January, 2021, organized by Ultratech Cement Ltd
- On “Precast Infrastructure for Developed India” at 22<sup>th</sup> January, 2021, organized by Wonder Cement
- On “Interpretation of NDT Results” at 29<sup>th</sup> January, 2021, organized by Ultratech Cement Ltd.
- On “6House Projects-for affordable Housing” at 5<sup>th</sup> February, 2021, organized by Ultratech Cement Ltd.
- On “Concrete Sustainability” at 12<sup>th</sup> February, 2021, organized by Ultratech Cement Ltd.

- On “Application and Use of Optimization and Soft Computing techniques in Civil Engineering” at 12<sup>th</sup> February, 2021, organized by Department of Civil Engineering, SAL College of Engineering, SAL Education, Ahmadabad
- On “Advances in Urban Water and Sewerage Management Practices (AUWSMP-2021)” during 12th-13th February, 2021 organized by Department of Civil Engineering, Sankalchand Patel College of Engineering, Visnagar and sponsored by Gujarat Council on Science and Technology, Gujarat.
- On “Innovative Well Foundation of Signature Bridge” at 26<sup>th</sup> February, 2021, organized by Ultratech Cement Ltd
- On “Sustainable Construction a code-based Approach” at 24<sup>th</sup> April, 2021, organized by Ultratech Cement Ltd.
- On “Testing Technique for Self-Compacting Concrete” at 6<sup>th</sup> May, 2021, organized by Ultratech Cement Ltd.
- On “Durability of Concrete and its Evaluations” at 8<sup>th</sup> May, 2021, organized by Ultratech Cement Ltd.
- On “Building Geometries and structural systems for Earthquake Resistance Building” at 15<sup>th</sup> May, 2021, organized by Ultratech Cement Ltd.
- On “Ready Mix Concrete (RMC) to Ready Made Buildings (RMB)” at 29<sup>th</sup> May, 2021, organized by Ultratech Cement Ltd.
- On “Creating Major Maintenance Free RCC Bridges for India” at 5<sup>th</sup> June, 2021, organized by Ultratech Cement Ltd.
- On “Variability and factors affecting the interpretation of Concrete Strength” at 12<sup>th</sup> June, 2021, organized by Ultratech Cement Ltd.
- GUJCOST Sponsored Three Days Online Workshop on “CAPACITY BUILDING IN GIS & ITS APPLICATIONS” during 7<sup>th</sup> to 9<sup>th</sup> January, 2021 organized by Department of Civil Engineering, IITE, Indus University, Ahmedabad.
- AICTE Sponsored one-week short term training program on "Utilization of E-Waste in Construction Industry" during 18<sup>th</sup>- 23<sup>rd</sup> January, 2021 organized by Department of Civil Engineering, Dr.N.G.P. IT, Coimbatore.
- AICTE - ISTE Sponsored 06 days online Hands-on Training Program on “Analysis & Design of Structures using STAAD.Pro” during 15<sup>th</sup>-20<sup>th</sup> February, 2021 organized by organized by Department of Civil Engineering, IITE, Indus University, Ahmedabad.

- One-week Online Faculty Development Programme titled “Recent Developments in The Concrete Technology: Sustainability of Modern and Hybrid Composites” during 1<sup>st</sup> March to 5<sup>th</sup> March, 2021 organized by Department of Civil Engineering, Marwadi University, Rajkot.
- One-week short term training program on "Novel Advances in Ingredients of Sustainable Construction Materials" under Institute of Engineers(India) Student chapter Civil Engineering, L.D. College of Engineering Approved by Directorate of Technical Education (DTE) & Indian Society for Technical Education (ISTE) and Sponsored by Gujarat Council on Science & Technology (GUJCOST) & L.D.C.E Alumni Association (LAA) during June 1-5 , 2021 organized by Applied Mechanics Department, L.D. College of Engineering, Ahmedabad.
- AICTE Training and Learning (ATAL) Academy Sponsored Online FDP on " “Earthquake Resistant Structural Systems and Design for Buildings and Structures during 7<sup>th</sup> June to 11<sup>th</sup> June 2021 organized by Department of Civil Engineering Sri Venkateswara College of Engineering, Tamilnadu.
- Two days webinar on “Recent Advances in Civil Engineering” during 24<sup>th</sup> March, 2021 organized by Department of Civil Engineering, SAL Engineering & Technical Institute, Ahmedabad and sponsored by Gujarat Council on Science and Technology, Gujarat.

### **Prof. Jay Panchal**

- Two days webinar on “Modern Approaches In Civil Engineering” during 15<sup>th</sup> April, 2021 organized by Department of Civil Engineering, SAL Institute of Technology & Engineering Research, Ahmedabad and sponsored by Gujarat Council on Science and Technology, Gujarat.
- Two days webinar on “Self-Motivation Human Competences and Problem Solving” during 3<sup>rd</sup> June, 2021 organized by SAL Education Campus, Ahmedabad and sponsored by The Centre For Entrepreneurship Development-Govt. of Gujarat.
- Two days webinar on “Recent Advances In Civil Engineering” during 24<sup>th</sup> March, 2021 organized by Department of Civil Engineering, SAL Engineering & Technical Institute, Ahmedabad and sponsored by Gujarat Council on Science and Technology, Gujarat.

### **Prof. Jerome Jose**

- One day webinar on "Geotechnics of Challenging Soils" Organised by IGS Student Chapter SVNIT in association with IGS Surat Chapter on 13<sup>th</sup> June 2021;
- One day webinar on “High Tensile Threaded Rods for Post- Tensioning, Lifting, Marine/ Waterways Application, Roof & Façade/Suspended Structures” Organized by Indian Institution of Bridge Engineers on 21<sup>st</sup> May, 2021.
- On "Geotechnical Engineering Using Mind Map" Organized by IGS Student Chapter SVNIT in association with IGS Surat Chapter on 25th April 2021.

### **Prof. Jigar Zala**

- One day webinar on “Structural Engineering for Sustainable Development” dated on Jan 23, 2021 organized by IAStructE.
- One day webinar on "Roles and Scope of Geotechnical Engineer" Jointly Organized by the Civil Engineering Department, Marwadi University, Rajkot and Indian Geotechnical Society, Ahmedabad Chapter, on 23<sup>rd</sup> January, 2021.
- One day online Expert Lecture on “Climate Change Actions in the State of Gujarat” jointly organized by Civil Engineering Department, Dr. S. & S. S. Ghandhy Government Engineering College, Surat & Institution of Engineers (IEI), India, SGLC, Surat on 28<sup>th</sup> February 2021.
- One day webinar on "Case Study on Roads & Buildings Construction in Rann of Kutch, Gujarat - Meeting Durability Challenges at Design, Construction & Maintenance phases" Jointly Organized by UltraTech Cement Ltd. & Indian Concrete Institute on March 27, 2021.
- One day webinar on "Recent Advance in Civil Engineering” Organized by Civil Engineering Department, SAL Engineering & Technical Institute on March 24, 2021.
- Three Day's Online Workshop on “Capacity Building in GIS & Its Applications” sponsored by DST - GUJCOST during 7<sup>th</sup> - 9<sup>th</sup> January, 2021 organized by the Civil Engineering Department, IITE, Indus University.
- 3 days e-Conference on "A Current Scenario of research in the field of Civil Engineering" organized by Department of Civil Engineering, Sankalchand Patel College of Engineering, Visnagar and sponsored by Gujarat Council on Science and Technology (GUJCOST), Dept. of Science and Technology, Government of Gujarat during 27th-29th January 2021.

- 5 Days STTP on Ansys FEA 25th - 29th January 2021 organized by Design Innovation Centre, GTU (DIC-HUB) in Association with Autodesk & Khodiyar CAD Centre.
- Three Days (3 Days) National Level Online Workshop on “Research Methodology & Writing Your Research Proposal” organized by exceed academy held during 09<sup>th</sup> to 11<sup>th</sup> January, 2021.
- Attended International Conference on Applied Mathematics & Civil Structures (ICAMCS-2021) Department of Civil Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai during 12th and 13th February 2021.
- Online FDP entitled “Recent Developments in The Concrete Technology: Sustainability of Modern and Hybrid Composites” 1st March to 5th March, 2021 organized by Department of Civil Engineering, Marwadi University, Rajkot.
- Online FDP entitled “Approaches Towards Earthquake and Wind Resistant Structural Designs” organized by Civil Engineering Department, IITE, Indus University & sponsored by AICTE-ISTE during 15<sup>th</sup> - 20<sup>th</sup> March, 2021.
- On “Efficiency & effectiveness of curing process of concrete” on 1st January, 2021 organized by Ultratech cements Ltd.
- 5 days webinar series on “Sustainable approach towards urbanization” between 4<sup>th</sup> January to 8<sup>th</sup> January, 2021 organized by Gujarat Technological University.
- On “Climate change-Imperative concrete understanding & Practice” on 15th January, 2021 organized by Ultratech cements Ltd.

### **Prof. Kunj Patel**

- Four days Faculty Development Program on “Green chemistry and technology for sustainable engineering” between 18th January to 21<sup>st</sup> January, 2021 organized by PP Savani University & GUJCOST.
- On “Remedial waterproofing for buildings” on 22nd January, 2021 organized by Ultratech cements Ltd.
- On “Precast Infrastructure for developed India” on 22nd January, 2021 organized by Wonder cements.
- On “Interpretation of NDT results for acceptance of concrete” on 29th January, 2021 organized by Ultratech cements Ltd.
- Two days webinar on “Advances in urban water & sewerage management practices (AUWSMP-2021) on 12<sup>th</sup> and 13<sup>th</sup> February, 2021 organized by Sakalchand Patel University & GUJCOST.

- Five days Faculty Development Program on “Recent developments in concrete technology: sustainability of modern & hybrid composites” between 1<sup>st</sup> March to 5<sup>th</sup> March, 2021 organized by Marwadi University, GUJCOST & Americal Concrete Institute.
- On “Durability of concrete & its evaluation” on 8<sup>th</sup> May, 2021 organized by Ultratech cements Ltd.
- On “Construction of Bahai house of worship lotus temple” on 22<sup>nd</sup> May, 2021 organized by Ultratech cements Ltd & Indian Concrete Institute.
- On “Creating major maintenance free RCC bridges for india” on 5<sup>th</sup> June, 2021 organized by Ultratech cements Ltd & Indian Concrete Institute.

### **Prof. Mittal Shah**

- One day national level webinar on “Recent Advances in Civil Engineering” on 24<sup>th</sup> February, 2021 organized by Department of Civil Engineering, Sal Engineering and technical institute, and sponsored by Gujarat Council on Science and Technology, Gujarat
- One day webinar on “Application and Use of Optimization and Soft Computing techniques in Civil Engineering” on 12<sup>th</sup> February 2021 organized by Department of Civil Engineering, SAL College of Engineering, SAL Education Campus, Ahmadabad.

### **Prof. Noopur Shah**

- On "Modern Approaches in Civil Engineering" organized by Civil Engineering Department, SAL Institute of Technology & Engineering Research, Ahmedabad, Gujarat, & organized in collaboration with, Department Of Science & Technology (GUJCOST), Govt. Of Gujarat on date 15<sup>th</sup> and 16<sup>th</sup> April, 2021.
- On Recent Advances in Civil Engineering” hosted by Civil Engineering Department, SAL Engineering & Technical Institute, Ahmedabad, Gujarat on date 24<sup>th</sup> March, 2021.
- One week F.D.P. on “Recent Developments in The Concrete Technology: Sustainability of Modern and Hybrid Composites” hosted by the Department of Civil Engineering, Marwadi University – Rajkot on date 1<sup>st</sup> to 5<sup>th</sup> March, 2021.

## Student Achievement

- Puthawala Mohd.Yamin has presented research paper on “A Design of Four-Court Hall Indoor Stadium with Retractable Roof and Supporting Structure Design” in International Conference on Applied Mathematics & Civil Structures (ICAMCS 2021) on February, 2021.
- Dhattiwala Vadid Ariz has presented a research paper on “An Experimental Impact on Workability and Compressive Strength of Concrete Using Magnetized Water” in e-Conference on “A Current Scenario of research in the field of Civil Engineering” on January, 2021.
- Gor Shreya Anilkumar has presented a research paper on “Seismic Assessment of Multi Storey RC Frame Structure Building with Variation in Flag Wall Location” in e-Conference on “A Current Scenario of research in the field of Civil Engineering” on January, 2021.

## Student Placement

Name of the Student	Company Name	Package
Acharya Milind Hitendrabhai	TOUJOURS PERITUS	3.65 LPA
Undaviya Dhruv Dipakbhai	INNOLABZ VENTURE	3.6 LPA
Akshat Shah	Evercrest Projects Pvt. Ltd	1.8 LPA
Aayushi Radadiya	Evercrest Projects Pvt. Ltd	1.8 LPA
Patni mohmmad asad mohmmad ishak	M K Soil Testing Laboratory	1.8 LPA
Desai Ishan Paraskumar	M K Soil Testing Laboratory	1.8 LPA
Sathavara Harshad Nareshbhai	M K Soil Testing Laboratory	1.8 LPA
Parth Manharbhai Bhavsar	M K Soil Testing Laboratory	1.8 LPA
Gohel Hiren Mukeshkumar	M K Soil Testing Laboratory	1.8 LPA
Vadia Zeeshan Mehbubhai	AIS Technolabs	1.5 LPA



## Student Paper

*IJSRD - International Journal for Scientific Research & Development | Vol. 8, Issue 12, 2021 | ISSN (online): 2321-0613*

## Causes of Cost Overrun in Construction Projects in Ahmedabad

Hardey A Contractor<sup>1</sup> Darshan Shah<sup>2</sup>

<sup>1</sup>BE Student <sup>2</sup>Assistant Professor

<sup>1,2</sup>Department of Civil Engineering

<sup>1,2</sup>SAL Institute of Technology & Engineering Research, Ahmedabad, India

**Abstract**— A lot of research & studies have been done to identify the major causes of cost overruns in construction project of Ahmedabad. However, cost overrun is ubiquitous occurrence in construction project & no construction project can be exempted from cost overrun. Many project managers and contractors from the construction industry participated in the questionnaire survey. This paper aims to assemble major factors affecting cost overrun in Ahmedabad. The progressive factors for construction cost overrun based on the current literature will help the construction practitioners to focus on them & reduce the loss of profit due to cost overrun in construction project.

**Keywords:** Construction Project, Cost Overrun, Questionnaire Survey, Influencing Factors

materials and equipment to site, lack of cost plan, monopoly by some suppliers in materials, deficiency of coordination at design stage, and re-measurement of provisional sum.

- 2) Mulenga mukuka et al. (2015) discussed the effect of construction schedule overrun in Gauteng construction projects in South Africa. The data was derived from both primary and secondary sources. The primary was well prepared questionnaire and the secondary data includes detailed literature survey. MIS method was used for data analysis. The study concluded that extension of time, loss of profit, dispute, poor quality of work, claims, delays are the major criteria for project schedule overrun. Extension of time ranked 1 (SD=0.829) and the last rank goes to loss of skilled employees (SD=1.077)

