



PULSE

The Newsletter

Shantilal Shah Engineering College
Bhavnagar



PULSE

THE NEWSLETTER

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Shantilal Shah Engineering College

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VOLUME 1

JUNE 2019 to
DECEMBER 2020

Patron : Dr. M. G. Bhatt

Technology is the heart of a nation,
& engineers are its pulse...

Faculty Guide :

Prof. A. A. Pandya

Prof. D. N. Vaishnav

Edited By :

Stavan Bhatt

[3 E.C.] 2018-2022

Vishva Dave

[3 I.T.] 2018-2022

Words of Motivation from : The Principal's Desk



Dear SSEC family members,

It gives me immense joy as we bring out this edition of institute newsletter - PULSE. I earnestly believe that this newsletter will capture pulsating moments and activities of the Institute. This newsletter will be our endeavor to create a strong bond with the progressive professional world.

I admire the efforts made by students and faculty members in bringing this edition of newsletter to light.

With best wishes,
Dr. M. G. Bhatt

VISION

To be a leading engineering institute in the state, by developing excellent engineers capable of fulfilling needs of industry, society and nation at large.

MISSION

1. To provide conducive academic environment motivating the aspiring engineers to achieve excellence.
2. To impart ethics and core values in graduates.
3. To promote contemporary infrastructure and external linkages.

DEPARTMENTAL INFORMATION

APPLIED MECHANICS

PROF. H. S. TRIVEDI
(Block-B, Room No. 135)

MECHANICAL ENGG.

DR. R.K. JANI
(Block-E, Room No. 201/B)

ELECTRICAL ENGG.

DR. K. P. BADGUJAR
(Block-E, Room No. 121)

CIVIL ENGG.

DR. R. K. JAIN
(Block-C, Room No. 104)

ELECTRONICS & COMMUNICATION ENGG.

PROF. S.B. PARMAR
(Block-D, Room No. 121)

GENERAL

DR. A.A. PRAJAPATI
(LRC, Room No. 212)

INSTRUMENTATION & CONTROL ENGG.

PROF. M.R. JANI
(Block-B, Room No. 220)

INFORMATION & TECHNOLOGY ENGG.

PROF. S.B. PARMAR
(Block-D, Room No. 121)

PRODUCTION ENGG.

DR. A.V. GOHIL
(Block-B, Room No. 116)

NEWS FLASH

Celebrated 73rd Republic Day

The Institute celebrated 73rd Republic Day with great fervor and enthusiasm. Flag was hoisted by the Principal, Dr. M.G. Bhatt. It was followed by recitation of national anthem by the students, faculty members, and NCC cadets. The event also included speeches on contribution for the cause of motherland by students of the Institute.

Contribution towards Health Care



SSEC, Bhavnagar has always been committed to meaningful contribution towards social cause through channelizing technical intellect available. SSEC has donated 70 3D-Printed face-shields to Sir T. Hospital in the difficult times of COVID pandemic.

Prof. A.D. Kalani from Mechanical Engineering Department has been instrumental in coordinating and materializing resources available at the Institute to make these face-shields that would be used by health officials at Sir T. Hospital.

Principal Dr. M G. Bhatt, accompanied by Prof. Kalani, handed-over 70 3D-Printed face-shields to the Dean of Government Medical College, Bhavnagar, and Medical Superintendent of Sir T. Hospital, Bhavnagar.

ACTIVITIES UNDER SSIP

Awareness Seminar on Student Open Innovation Challenge 2020-21



Department of Civil Engineering organized a student sensitization and awareness program on “Student Open Innovation Challenge – 2020” under the SSIP cell, initiative by the Government of Gujarat on 3rd January, 2020.

The session was delivered by Dr. K. R. Trivedi, Associate Professor in Electronics and Communication Department and institute SSIP coordinator. He had explained all the fundamental resources and platform in detail, which students can use and register themselves for the competition. Prof. N. P. Soni had coordinated the program. Total 46 students from 3rd year and 4th year participated successfully in this program.

SOIC Achievement

Prof. N. P. Soni guided the student team for the Summer Open Innovation Challenge (SOIC) under SSIP.

SOIC Team ID : SOIC2021_000140

Project Title : “PlaFic (New Age Of Interlocking Plastic Brick)”

Student Team: Dipen N. Solanki,
Purohit Bhargav Bhaveshbhai,
Gohil Pranavkumar Naranbhai
Rathod Amit Ghanshyambhai,

Sanction Amount Rs. 30,000.00 /-

Sanction Date: 26-03-2020.



The Electrical Engineering Department organized an introductory lecture on “STUDENT OPEN INNOVATION CHALLENGE 2019-20” on 08/01/2020, and was conducted by Prof. K. R. Trivedi. It was attended by approximately 50 students.

The objective of this lecture was to create awareness amongst students about innovation and so as to create a unique environment across academia in the State. This program aimed to involve innovative teams in short to medium term and develop innovative solutions.

DEPARTMENTAL ACTIVITIES

Mechanical Department

Faculty Activities

- 1.) Prof. R. K. Jani delivered an expert talk at Gyanmanjari Institute of Technology, Bhavnagar on “Industry - Institute Interaction Seeing Current Challenges” on 17-01-2020.
- 2.) Prof. R. K. Jani and Prof. A. D. Kalani published “PROBING LOW PRODUCTIVE AREA IN STEEL RE-ROLLING MILLS” in International Journal of Innovative Technology and Exploring Engineering (IJITEE) (SCOPUS INDEXED), Volume-8 Issue-11 on September 2019.

Electrical Department

Visit to Malanka under Rural Electrification

The Electrical Engineering Department organized an industrial visit for “Rural Electrification of Malanka village” on 21st December 2019, as a part of curriculum for 8th semester subject “Power System Practice and Design”. Total 43 (04 girls and 39 boys) students participated in this tracing activity. This rural electrification tracing activity for students was guided and accompanied by Dr. Ketan P. Badgujar and Prof. Ajit A. Rathod.



The main objective of this visit was to make students aware about the rural electrification process. This visit was carried out under the major activity head of “Technical/Research Skill”.

NBA Mentor Visit

AICTE has made NBA accreditation mandatory for technical education institutes across the nation. Shantilal Shah Engineering College is also gearing up for accreditation of various programmes offered. Electrical Engineering Department is planning to apply for accreditation of our UG Programme in academic year 2020-21, the first among seven UG programmes in the Institute.

As a part of preparation for NBA accreditation, Prof. K. F. Bhetariya of L.E. College, Morbi is appointed as mentor of SSEC, Bhavnagar. Prof. Bhetariya visits the Institute on regular basis to review the progress of various activities undertaken. During each visit he goes through preparations for any one criterion including all the necessary documents. He also prefers to meet various stake holders, visit laboratories and class rooms, interact with students during his visits.



On 7th November, 2019, Prof. Bhetariya visited Electrical Engineering Department. He expressed a feeling of satisfaction and appreciated the efforts of faculty members in the Department. He also made some valuable suggestions for further improvement from accreditation point of view.

Celebration of Engineer's Day - 2020

The Department organized a webinar titled, "Role of Electrical Engineers in Changing Socio-Economic Environments" on 15th September, 2020.

Shri P V Mehta (Deputy Engineer, GETCO) was invited as the expert to deliver speech. This webinar was coordinated by Prof. J. K. Parmar.

Patron : Dr. M G Bhatt (Principal, SSEC Bhavnagar)

Convener : Prof. K P Badgujar (Head, Electrical Dept.)

Student Coordinator : Zankhana Tandel (ME -3 Electrical Dept.)

Faculty Activities

1. Dr. K P Badgujar delivered an expert talk on "Open Source FEM Software" held by GEC, Karad, Maharashtra on 10/05/2020 and 11/05/2020. More than 300 faculty across India participated in the Session.
2. Dr. K P Badgujar got appreciation for the reviewer work at IEEE Transactions on Power delivery for the year 2019. He is doing this work since last six years.
3. Dr. K P Badgujar is working as secretary of the NBA Mentor Committee constituted at Commissioner of Technical Education, Gandhinagar since last one year. He is guiding government institutes for the NBA.
4. Dr. K P Badgujar has delivered expert lectures at BIT Baroda, GEC Surat, GP Kheda, GEC Modasa & VGEC Chandkheda. He also did Mock NBA for LDCE Ahmedabad.

Civil Department

Departmental Activities



Civil Engineering Department organized one day workshop on Patent Awareness on 18th February, 2020. The program was coordinated by Prof. N. P. Soni.

A technical tour for the final year students was arranged on 23rd and 24th January, 2020. Places visited were Karjan Dam at Rajpipla, Statue of Unity, Sardar Sarovar, Narmada Dam and Orsang Aqueduct. The Tour was organized by Prof. N. P. Soni.



Prof. N. P. Soni and student team presented a research paper on "Recent Innovations in the Manufacturing of Bricks Using Waste Plastic: A Critical Review" in National Conference on 'Start-up Ventures Technology Development and Future Strategies with ISBN Number 978-93-5396-443-6. Paper ID: 'ENVT2' on 15th February, 2020 organized by SSIP Cell, D.G. Government Engineering College, Surat.

Industrial & Soft Skill Training



Dr. Chhaya Parekh conducted Finishing School Training Program from 8-19 July, 2019 for 48 students (7th Sem only).



Ms. Pooja Raval conducted Finishing School Training Program from 17-20 and 24-29 February, 2020 for 45 students (7th Sem only).



Students of Civil Engineering Department secured 3rd rank in Ultratech Sparkling Star Competition for consecutive second year in the whole Saurashtra region under the guidance of Prof. N. P. Soni. Student team was comprised of Rakshit Patel, Pal Shah and Soham Shah.

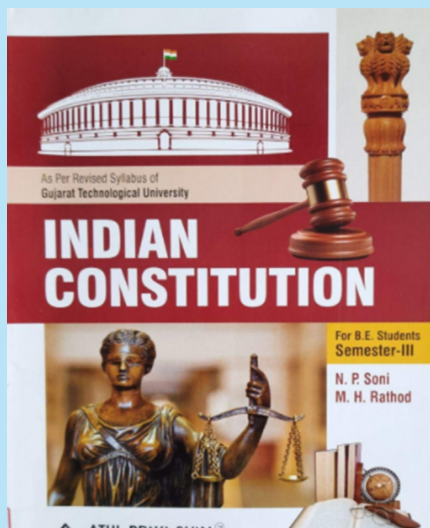
Faculty Activities

Sr. No.	CBR Number	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	975	ORDINARY APPLICATION Pages:-7, Claims:-2, Drawings:-4, Abstract:-1, Claims pages:-1	20201001668	INTERLOCKING TRI LEGGED-BRICK.	8800	8800
2		E-01032020-MUM	20201001668	Correspondence	0	0
3		E-01032020-MUM	20201001668	Form2	0	0
4		E-0552020-MUM	20201001668	Form3	0	0
5		E-0822020-MUM	20201001668	Form5	0	0
Total Amount					8800	8800

Received a sum of Rs. 8800 (Rupees Eight Thousand Eight Hundred only) as under

Payment Mode	Bank Name	Cheque/ Draft Number	Cheque/ Draft Date	Amount in Rs
Draft	HDFC BANK	073068	24/01/2020	8800

A Patent was filed by Prof. N. P. Soni with the student team on INTERLOCKING TRI LEGGED-BRICK on 04-01-2020



Prof. N. P. Soni had written a book titled Indian Constitution for the students of B.E. Semester-3 of all branches.



Prof. N.P. Soni was awarded with the certificate of gratitude for outstanding contribution towards empowering student fraternity during Tech-Manjari 2020, at Gyanmanjari Groups of Colleges, Campus from 16th to 19th Jan 2020



Prof. N. P. Soni delivered an expert session to the staff of SVMIT, Bharuch on NBA accreditation on 1st January 2020.

Prof. N. P. Soni delivered an expert seminar on “Student Startup Innovation Policy-2019” for the final year students of Shri SadVidya Mandal Institute of Technology, Bharuch on 1st January 2020.

Total 5 teams were guided by Prof. N. P. Soni for participation in Regional Smart Gujarat for New India Hackathon 2019-20 which was organized at Atmiya University on 24th and 25th Feb, 2020. Two teams were from first year out of which one is from Electrical Engineering branch.

Electronics and Communication Department

Faculty Activities

- 1.) Prof. M. P. Patel published paper in international journal test of engineering titled as “Review Paper on Metamaterial based Superstrate Antenna” July – August 2020.
ISSN: 0193-4120 Page No. 554 - 557
- 2.) Prof N.B. Gohil published paper in international journal test of engineering titled as “Design of Wheelchair for Physically Challenged People Based on Eye Movement Detection Using Image Processing” July – August 2020.
ISSN: 0193-4120 Page No. 524 - 529

General Department

Faculty Activities

1.) Prof. Keyur Khatsuriya published 4 books in the course of December 2019 to June 2020.

A.) MCQ Physics (Part-1)

ISBN: 978-81-943469-1-3

B.) MCQ Physics (Part-2)

ISBN: 978-81-945729-0-9

C.) Bhautik Vigyaan Std-11 (Part-2)

ISBN: 978-81-940133-7-2

D.) Bhautik Vigyaan Std-11 (Part 1& 2)

ISBN: 978-81-945729-3-0

2.) Prof. Dhvani Vaishnav

A.) Prof. Dhvani Vaishnav delivered an Expert Talk on “Travel Narratives” on 7th May, 2020 to students of Nandkuvarba Mahila College, Bhavnagar and interested group across India.

B.) Prof. Dhvani Vaishnav presented a paper titled “The Madness’ of a Woman: 19th Century and After” at National Seminar on “The Impact on Nineteenth Century Women Novelists on Women’s Writing” on 29 February & 1 March, 2020 organised by and at the Department of English & CLS, Saurashtra University, Rajkot.

C.) Prof. Dhvani Vaishnav published a paper titled “Can the Hypnotized Subaltern Speak? Assessing 19th Century Gujarati Travelogues to England” in *Rupkatha Journal on Interdisciplinary Studies in Humanities*, Volume-12, Issue-3, June, 2020. ISSN : 0975-2935.

D.) Prof. Dhvani Vaishnav published a paper titled “Travel as Introspection and Formation of Principles: Examining Thoreau’s *Walden*” in *Henry David Thoreau and Indian Thought*, Book Ed. Dr. Anupam R. Nagar, Creative Books, New Delhi, 2019. ISBN 978-81-8043-142-5. pp. 120-125.

Series of Webinar Organised under Dig-In @SSEC

Sr. No.	Title	Speaker	Date
1	The Digital Initiative SSEC	Prof M.P. Jani & Prof. N.P. Soni @SSEC	2020-05-05
2	A Jourey of a Successful Entrepreneur	Mr. Ashish Dhakan, MD & CEO, Prama Hikvision India Pvt. Ltd.	2020-05-08
3	Arduino for Beginners	Mr. Sanjay Mistry, Assistant Manager, Yokogawa India Pvt. Ltd.	2020-05-09
4	COVID-19, Role and Contribution of Youth	Dr. Bhartiben D. Shyal, MOP, Bhavnagar	2020-05-09
5	Awareness on Innovation and Patent Filing	Mr. Anil K Pandey, Department Director and Head, CII-IPFC, Ahmedabad	2020-05-11
6	Applications of GIS in Civil Engineering	Dr. Mahendra Gadhvi Assistant Professor, LDCE, Ahmedabad	2020-05-12
7	TEDTALK on Career Opportunities in Public Sector	Mr. Shubham Pandey Founder Vashishtha Group	2020-05-13
8	Ideathon 2020	Dr. M. D. Vadhwani, Assistant Professor Shantilal Shah Engineering College	2020-05-14
9	Group Discussion Skills for Headstart in Professional Career	Dr. U. K. Chhaya Assistant Professor Shantilal Shah Engineering College	2020-05-15
10	Realm of Transformers and Design Philosophy	Mr. Dhruvesh Mehta Assistant Manager - Technology Transformers and Rectifiers India Limited	2020-05-16
11	Future Scope of Automation	Mr. Dharmesh Kavaiya IIOT Analyst Infosys	2020-05-17
12	Know Your Electricity Bill (KYEB)	Prof. M. U. Ghanchi, Assistant Professor Shantilal Shah Engineering College	2020-05-18
13	Cyber Security : Issues and Career Opportunities	Mr. Hasit Mankad Founder & CEO Dhruv Netsol Pvt. Ltd. and TAC Global Network	2020-05-19

Sr No.	Title	Speaker	Date
14	Nano Technology in Water and Waste Water Treatment	Dr. Komal Mehta Professor and Head Civil Engineering Department, ITM - SLS Baroda University, Vadodara	2020-05-20
15	Fluvial Hydraulics : Principles and Applications	Prof. R. K. Jain Professor and Head, Civil Engineering Department Shantilal Shah Engineering College	2020-05-22
16	Robotics : An Opportunity for All.	Mr. Rameshchandra Bhorania Vice President, Robotics & FA Division Prama Hikvision India Pvt. Ltd.	2020-05-26
17	Applications of Satellite Communication in Navigation.	Prof. K. G. Bhuva Associate Professor GEC Surat	2020-05-09

CULTURAL ACTIVITIES

Youth Festival - 2019 Ahmedabad Zone

First Rank - 7 Events
Second Rank - 7 Events
Third Rank - 6 Events

Champion in Dance Category

The Cultural Team of Shantilal Shah Engineering College was Overall 2nd Runners up at the Zonal Youth Festival organised by Government Polytechnic College, Ahmedabad.



Interzone

First Rank - 3 Events
Second Rank - 7 Events
Third Rank - 2 Events

The Cultural Team of Shantilal Shah Engineering College was Overall Runners up at the Interzonal Youth Festival organised by HN Shukla College, Rajkot.



West Zone - Youth Festival

First Rank - 1 Event
Second Rank - 3 Events
Third Rank - 2 Events

Students from our Institute were part of GTU Team in Folk Dance, Theatre and Fine Arts in the West Zone Youth Festival organised by Uka Tarsadia University, Surat, Gujarat.

National - Youth Festival

First Rank :

- Chintan Joshi, Mech. Engg. [Skit]
- Harshil Bhandari, E.C. Engg. [Fine Arts Accompanist]
- Bhargav Desai, Alumnus, I.T. Engg. [Folk Dance Accompanist]

Students from our Institute represented GTU in the National Youth Festival organised by Amity University, New Delhi.

Kala Mahakumbh - 2019

First Rank : 2 Events (Regional)

First Rank : 2 Events (Zone)

First Rank : 2 Events (State Level)

Excel Expression - 2019

SSEC College was Overall Champion at The Excel Experssion 2019.

First rank – 4 events

Second rank – 4 events

Third Rank -1 event



Annual Day

Annual Day of the College was organized on 31-1-2020 and 1-2-2020 in which total 52 students participated as performers from the College.



Students who achieve first two ranks in B.E. and M.E. course of all branches are felicitated with Medal and Certificate by IPCL, Bhavnagar and HiMac Company, Vadodara every year during Annual Day.



Group of students have been performing a Skit on Save Water in Bhavnagar city under Amrutam Yojana, initiative by Rotary Club of Bhavnagar. As of March, 2020 this Skit has been performed 4-times at different locations like Himalaya Mall, Rotary Club Hall, Railway Station, Bhavnagar and Gurukul School, Shampara, Bhavnagar.



Mahima Sharma (6-IT) participated and secured 1st rank in Lt. Savjibhai Nagibhai Running Shield Elocution Competition on 7 January, 2020.



A team of students from the College performed Folk Orchestra on 22 February, 2020 at Iscon Club as a part of 75 years celebration of Rotary Club establishment.



7 students from IT, EC, IC, and Mechanical engineering branch of the Institute got an opportunity to perform folk dance during the National level program of Namaste Trump.



NSS



International Yoga Day was celebrated on 21st June, 2019 to bring peace, harmony, happiness and success to every soul in the world. This was a great opportunity to imbibe the value of discipline. Yoga is a mental, physical and spiritual practice that needs to be carried out every day. All staff members and students learned different Yogasans, Pranayam, Suryanamaskara, Niyams and Dhyan. Tree plantation program was organized on the Campus under National Service Scheme (NSS) on World Yoga Day. More than 50 different saplings were planted near Civil Engineering building.



A tree plantation program was arranged in association with the State Bank of India, Bhavnagar on 1st July, 2019.

The NSS unit organized tree plantation event for newly admitted students of the Institute. This event sensitized the new students about “Green Campus” initiative of the Institute.

SPORTS

Kabaddi

Zonal level Kabaddi tournament for Girls was held at GTU, Ahmedabad on 25th September, 2019 and Shantilal Shah Engineering College won championship title.

Inter-zonal level Kabaddi tournament for Girls was held at Amreli and two players, Dod Jinal and Kakadiya Ridhdhi were selected for National level Kabaddi tournament.



Swimming

Ritik Bhatiya from 3rd semester, Civil participated in different level of swimming and won 2 gold medals and 1 bronze medal. Also he was selected in National level swimming competition.

Kho-Kho

Inter-zonal level Kho-Kho tournament for Girls was held at Amreli and participants from this college won Inter-Zonal championship title.

Five players, Dhaval Anjali, Mehta Nandnini, Jadav Aditi, Bhoja Sejal and Dessai Krinal were selected for National level Kho-Kho tournament.

Four players, Dhaval Anjali, Mehta Nandnini, Jadav Aditi and Bhoja Sejal played National Kho-Kho event on 19th November,

શાંતિલાલ શાહ એન્જિનીયરીંગ કોલેજનો રમત-ગમત ક્ષેત્રે ઉત્કૃષ્ટ દેખાવ



તાજેતરમાં અમરેલી ખાતે વિદ્યાર્થીનીઓની ખો-ખોની ઇન્ટર ઝોનલ કક્ષાની ટૂર્નામેન્ટ યોજાયેલ જેમાં વિદ્યાર્થીનીઓની ટીમ ઇન્ટર ઝોનલ કક્ષાએ ચેમ્પીયન થયેલ અને સંસ્થાની પાંચ વિદ્યાર્થીની ઓઘવલ અંજલી, મહેતા નંદિની, જાદવ અદિતિ, ભોયા સેજલ અને દેસાઈ ક્રિનલ નેશનલ લેવલની ટીમમાં પસંદગી પામેલ છે. આ ઝળહળતી સફળતા કેપ્ટન ઘવલ અંજલી અને ટીમના ખેલાડીઓની અચાગ મેહનત તેમજ સંસ્થાનાં આચાર્ય ડો. એમ. જી. ભટ્ટ, સ્પોર્ટ્સ ઇન્ચાર્જ પ્રોફે. એસ. બી. પરમાર અને રમતના કો-ઓર્ડીનેટર પ્રોફેસર ભાવિક ઉપાધ્યાય, પ્રોફેસર દેવાંગ રેગાણી, પ્રોફેસર વિશાલ પંડ્યા, પ્રોફેસર મકબૂલ ઘાંચી દ્વારા સતત માર્ગદર્શન આપવામાં આવેલ હતું.