

Bhartiya Vidya Bhavan's
Sardar Patel College of Engineering

DISHA' 22

Aakaar

Shaping your thoughts | An inspiration from nature

Edition 41st

“

In a world full of unending problems, we human beings have tried very hard to find solutions to many of them, often in vain. However, what we fail to recognise is the potential plethora of solutions that already exist in the world before us, simply hiding in plain sight. We don't need to invent new solutions to our existing problems, because nature has already done that for us. Humans, like all other things, are born from mother earth, from nature. It's high time we “mimic” some of her methods, to adopt them as our solutions.

Biomimicry is the emulation of the models, systems, and elements of nature to solve complex human problems. It is one type of bio-inspired design, the process of using technology to help us achieve things that plants and animals do naturally. There are many instances where biomimicry has solved problems and mother nature has come up with some pretty cool innovations. Owls can fly in almost total silence as they want to evade their predators, bears. Spiders can set alarms to catch their prey and even produce strings of some of the world's strongest fibres.

The human equivalents for solutions using biomimicry are far and wide. When ships were invented, turbines were invented to propel them forward against the force of gushing water. The inspiration for the turbine blades came from the structure of the flippers of humpback whales, whose unique irregularities increased efficiency by 8% and this concept was also used in windmills

Biomimicry is a well of untapped potential.

In today's times, human beings are succumbing to the effects of their actions, caused by a constant irreverence and disregard towards nature. But Mother Earth sees us all as her children, and even when we abuse her, she is providing us with innumerable ways to solve our problems. All we as humans must do is align ourselves with nature and listen to her wisdom.

”



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Disclaimer: All the views expressed in the subsequent articles and poems are individual opinions of writers and not of the institution. The institution does not hold any responsibility regarding any content given by students.

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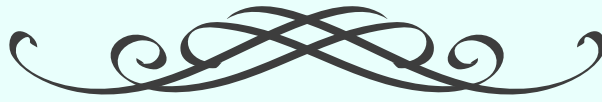
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Shri Sardar Vallabhbhai Patel Kulpati Shri Dr. K.M. Munshi

Vision

- Sardar Patel College of Engineering (SPCE) aspires to be an institution of national repute that will create professionals with competence and motivate research for the progress of the nation.

Mission

- To impart quality education through time relevant curriculum in academic programs
- To enhance career opportunities for students through industry institute interaction and value added courses
- To promote excellence by encouraging innovative ideas and lateral thinking
- To inculcate sense of discipline and responsibility towards society



From Principal's Desk

Sardar Patel College of Engineering (SPCE) was established in 1962 under the management of Bhartiya Vidya Bhavan. SPCE was granted autonomy in 2010, and the college has achieved numerous milestones since then. SPCE has always strived for meeting the growing demand for engineering talent, and for onward growth and betterment. The Civil Engineering and Mechanical Engineering undergraduate programmes have been accredited by the National Board of Accreditation (NBA) up to June 2022. The PG programs in Construction Management, Machine design and Thermal Engineering have also been accredited by NBA up to June 2022. The institute has also been accredited by NAAC Rank 'B' for the period of 5 years from 2021-22. SPCE is one of the 191 institutes in India and 11 institutes in Maharashtra selected for the third phase of the Technical Education Quality Improvement Programme (TEQIP – III) and has also undertaken to mentor Rewa Engineering College, Rewa, Madhya Pradesh under TEQIP III. SPCE is now entering its 12th year of autonomy, and the institute has successfully completed the academic year 2021-22 partly via the online teaching-learning mode in light of the Covid-19 pandemic and from January 2022, offline mode teaching-learning happened. We have implemented various teaching tools to ensure that our students receive a seamless education in the online mode. The institute completes 60 years (Diamond Jubilee years) on 19th August 2022. On this occasion, the institute has planned several activities including International conference SPICON which will be held on 22nd and 23rd December 2022. In the curricular reforms, the Institute has implemented minor and honours certification programs and credit-based internships. Provision to earn credit through NPTEL courses has also been implemented.

Our professors and the supporting teaching staff of SPCE have worked hard toward implementing courses and programs which play a major role in improving the technical skills and also, in the overall development of the students. Our faculty members Dr Kiran Bhole, Dr Anil Ghadge, and Prof. Sharad Valvi have received a research grant of Rs. 32 lakhs, 45 lakhs and 18.3 lakhs respectively from SERB-DST. Our faculty members are also involved in collaborative research work with reputed institutes such as IIT Bombay, InSTEN, and Bangalore. Our professors have attended international conferences, participated in various webinars and workshops, and have also engaged in research projects to broaden the scope of their knowledge and published research papers. The Institute has conducted four AICTE's ATAL sponsored national level workshops.

Eight student projects were shortlisted for the final rounds of the 16th AVISKAR research convention organized by the University of Mumbai. The supporting staff engages in several developmental courses and strives to implement better practices amongst the students and professors alike. Eight supporting staff have been promoted in this academic years. The institute has always prioritised the overall development of its students. Our students have participated in various national-level competitions and emerged successful. The students have also organized the technical and social events - like SPECTRA, SPACE, SPIRIT, Annual Debate competition, in the offline mode this academic year. Students are playing a vital role in various government schemes like Unnat Bharat Abhiyan (UBA) and Unnat Maharashtra Abhiyan (UMA) acting as enablers to execute project objectives. The SPCE alumni association is active and has several plans to contribute to the growth of the Institute. This year's Alumni meet was held on 9th April 2022.

Faculty Admin



Dr. M. M. Murudi

I/C Principal, Head -
Civil Engineering Dept.



Dr. Anupa Sabnis

Head - Electrical
Engineering Dept.



Dr. Sudhakar Umale

Head - Mechanical
Engineering Dept.

FACULTY

CIVIL



Left to Right - Ms Akshata Despande, Prof. K.A Nadgaouda, Dr Reshma Raskar, Dr Hansa Jeswani, Mr Ankit M. Asher, Dr A.N. Ghadge, Dr A.R Kambekar, Dr. M.M Murudi, Dr. Prashant Nagrale, Dr P.G. Gaikwad, Missing - Dr.A.A Bage, Prof. S.J. Kumbhar, Dr. Unati Agarwal, Prof. Shweta Patil, Prof. Supriya S. Chavaan

ELECTRICAL



Left to Right - Mrs. Prajakta Joshi, Mrs. Ushma Shah, Mrs. Matilda J., Dr.(Mrs.) Sangeeta Daingade, Mrs. V. P. Joshi, Dr.(Mrs.) Anupa Sabnis, Ms. Remadevi C., Mrs. Sumbul Abidi, Missing - Dr. B. B. Pimple, Dr. Rahul T. Dahatonde, Dr. Nandkishor W. Kinhekar, Mr. N. G. Bhitre, Dr. (Mrs.) Swati A. Lavand, Mr. Vishal Dake, Mr. Rahul Chavhan

MECHANICAL



Left to right -Shri. Sachin Vankar, Dr.B.N Bhasme, Shri. Kunal Bhavsar, Dr. Rajesh buktar, Dr. R.S Maurya, Prof. D.N.Jadhav,Dr Sudhakar Umale, Dr. Santosh Rane, Dr Nilesh Raykar
Missing - Mr. Haseen Sheikh, Mr Sharad Valvi, Dr.Kiran S. Bhole, Prof, Parag, K. Muley, Dr. Megha Janbandhu, Mr. Arvind Raghavan,

FIRST YEAR



Lest to Rlght - Dr Shyamlee Solanki, MR. Vinodkumar Sharma, Dr M. M. Murudi, Dr A.A Bage, Mr Satishkumar Barot, Dr Jairam Gholave Missing in the photo - Ms.Divya T.A

FOREWORD



*"And I think to myself
What a wonderful world"*

-Bob Thiele & George David Weis
Recorded By - Louis Armstrong

It's been a wonderful journey, with immense joy and pride, we present to you Disha 2022, 41st Edition. In this, we have tried to curate all the highlights of this academic year from all the clubs, events, committees and the talent under our SPCE roof. This edition named 'AAKAAR' aims to shape your thoughts to look out for inspiration from nature. The theme encompasses biomimetics '**biom**' which means 'life' and '**memis**' which means 'to imitate' i.e observing "what works" in nature and mimicking it to solve problems, create, and innovate. We aim to encourage our readers to look up from their phones and look around to get inspired by nature as it provides solutions to many of our problems and try to implement biomimicry somewhere ahead in their lives.

As half of our academic year was online due to the pandemic crisis, it played a major role in shaping us. Consequently, we have not failed to mention the events that were conducted on the online platform. Pictures from the other various events conducted in college this year have been added to give a chance to look back at the good times. . Two new posts are also added to our committee, the photography and technical section head to make the magazine more personalised. This magazine is dedicated to Mahesh Magalprasadgound Sir who has attended all the Annual Days & college events since his childhood and has read all the 40 magazines.

We are extremely thankful to our Respected Principal. Our utmost gratitude to Dr Shyamlee Solanki, Chairperson, Student's Welfare Committee, and all the members, for being constant pillars of support and encouragement. Also, would like to thank the students, and the faculty for co-operating with us for all the reports and photographs, and to our fellow and ex-council members, friends and family for believing and motivating us. We are grateful to our committee without whom this magazine would have been merely imagination, special mention to Sujit, Aryan, Atharva, and Rhutam who shared the vision of the theme and helped us put that into pages and a special thanks to Dr Hansa Jeswani for proofreading the magazine.

This magazine was once a little dream of ours which has come into reality and everything has fallen into place so perfectly that we hope every reader takes something home from it.

-Shruti Sheth & Vedant Singh



Annual Report 2021-2022

DEPARTMENT OF CIVIL ENGINEERING

The Civil engineering department has been in existence since the establishment of this institute. The department has an excellent infrastructure and is AICTE-approved. Apart from the undergraduate course, postgraduate courses are offered in construction management and structural engineering. The department is approved by the University of Mumbai for the Ph. D. program with an intake capacity of 45. In addition, the department is selected as a QIP Centre by the AICTE. AICTE provides a full financial assistantship for three years to the research scholars registered under QIP. Also, the department can conduct many short-term courses in the area of civil engineering and a complete financial assistantship will be provided by AICTE.

Dr. M.M.Murudi took charge as Head of the Department of Civil Engineering on 27 Feb.

NBA Accreditation

Sr. No.	Course	Accreditation
1	UG (CIVIL)	1 UG (CIVIL) Accredited for the period from 2017-20 and received an extension of accreditation till 30-06-2022. For further accreditation, the pre-qualifier has been approved and SAR is in progress
2	PG (Construction Management)	Accredited for the period from 2017-20 and received an extension of accreditation till 30-06-2022. For further accreditation, the pre-qualifier has been approved and SAR is in progress
3	PG (Structural Engineering)	Applied for accreditation, SAR is approved and a visit by the NBA team is expected soon

Guest Lectures by Experts from Industry/Institute Organized.

1. IGBC introduction (By Mr. Bhavesh Mehta and Ar. Mala Singh)
2. INODE seminar (wastewater treatment software)
3. Expert lecture (Webinar) organized for UG/PG students on “Applications of GIS” by Dr. G. Venkatachalam on 19th April 2021.
4. Guest Lecture on “Probability Distributions applications in Civil Engineering” by Dr. AKHILESH CHEPURI on 17th February 2022
5. Guest lecture on “Work-Study and work measurement in construction organization and safety management” by Dr. Unnati Agarwal on 19th February 2022

Guest Lectures delivered by faculty members at other institutes:

1. Dr. A. R. Kambekar Delivered a talk on “Open Channel Flow” and “Introduction to Offshore Engineering” as an invited speaker during the faculty orientation program organized by SSJCTE (on behalf of the University of Mumbai) Thane, Maharashtra India on 17 July 2021.
2. Dr. A. R. Kambekar was invited as a panel member for FY admission counseling of prospective students and parents, SPIT Online Katta, to solve doubts of aspiring students related to engineering courses and the actual admission process on 29-10-2021 by SPIT Mumbai, India.
3. Dr. A. R. Kambekar was invited as an academic expert for the academic audit of the Civil Engineering department on 29th October 2021, of Dr. Babasaheb Ambedkar Technological University, the State Technical University of Maharashtra at Lonere, Dist. Raigad.
4. Dr. A. R. Kambekar delivered a talk on "Overview of Civil Engineering and Infrastructure Development" organized by Bhagwant Institute of Technology at Barshi Dist. Oshmanabad on 16-12-2021 (Affiliated to BATU University Lonere Raigad Maharashtra)

5. Dr. A. R. Kambekar Delivered an invited lecture on “Rural water supply and Infrastructure – Case studies” on 30 -12-2021 during AICTE-ISTE sponsored Induction/Refresher Program on “Recent Advancement in Environmental and Water Resources Engineering” organized by AIKTCE Panvel (Mumbai University).
6. Dr. A. R. Kambekar Delivered an invited lecture on “National Education Policy NEP2020” on 31 -12-2021 during AICTE-ISTE sponsored Induction/Refresher Program on “Recent Advancement in Environmental and Water Resources Engineering” organized by AIKTCE Panvel (Mumbai University).
7. Dr. A. R. Kambekar delivered a talk on “Unnant Maharashtra Abhiyan and Role of Engineering colleges in Rural development” organized by Marathi Bhasha Mandal Sardar Patel College of Engineering Mumbai India on 24-01-2022.
8. Dr. A. R. Kambekar Delivered an invited lecture on “ Introduction to Offshore Engineering at AP Shah Institute of Technology, Thane, Mumbai University.
9. Dr. H.S. Jesawni Delivered an invited talk on Environmental Audits for sustainability on 16th October 2021 organized by IIT Bombay and SAGE.
10. Dr. H.S. Jesawni Delivered an invited talk on Water Management by Reuse of wastewater on 24th October 2021 organized by Akone Services Ltd.
11. Dr. H.S. Jesawni Delivered an invited talk on Affordable technology solutions for sustainable agriculture on 26th March 2022 organized by BIRAC Assam University.
12. Dr. H.S. Jesawni Delivered an invited talk on Affordable technology solutions for sustainable agriculture on 26th March 2022 organized by BIRAC Assam University.

Faculty Achievements

1. Dr. Kshitija Nadgouda completed their Ph.D. from Civil Engineering Department at IIT Bombay under QIP.
2. Dr. A. N. Ghadge Received a research grant of Rs. 45.88 Lacs from the Science and Engineering Research Board (SERB - A statutory body of the Department of Science and Technology, Government of India) funded the research project (File No. EEQ/2021/001115).
3. Dr. A. R. Kambekar signed MOU for Collaborative research/Guidance/Research Projects on the Prediction of the durability of concrete with sustainability in the coastal region in association with Monash College Monash University, 49 Rainforest Walk Clayton VIC 3800 Australia
4. Dr. A. R. Kambekar (Edited and preface): For a book titled “Sea Level Rise, Are we Ready” authored by Chakraborty Sudipta published on Kindle and Amazon (e-Book). <https://www.amazon.in/Sea-Level-Rise-Are-Ready-ebook/dp/B08KYKH2NB>
5. Dr. A. R. Kambekar Advisory Board member on Meteorology Hydrology and Water Management MHWB Editorial Office: Institute of Meteorology and Water Management – National Research Institute Podlesna 61, 01-673 Warsaw, Poland (www.mhwm.pl/Advisory-Board,660.html)
6. Dr. A. R. Kambekar Technical advisory board member: Online International Conference Sustainable Water Resources Development and Management (SWARDAM-2021 at GCOE Aurangabad Maharashtra India, Technical Education Quality Improvement Programme, (TEQIP- Phase III), In Association With Ujjain Engineering College, Ujjain, (M.P.), (Under TEQIP-III-Twinning Activity). Indian Society for Hydraulics (Aurangabad Local Centre) Indian Water Resources Society, (Aurangabad Local Centre). Aurangabad Maharashtra India, Technical Education Quality Improvement Programme, (TEQIP- Phase III), In Association With Ujjain Engineering College, Ujjain, (M.P.), (Under TEQIP-III-Twinning Activity). Indian Society for Hydraulics (Aurangabad Local Centre) Indian Water Resources Society, (Aurangabad Local Centre).
7. Dr. A. R. Kambekar is selected as an Editorial Board member: International Journal on "Sustainable Marine Structures" published by Nan Yang Academy of Sciences (NASS), Singapore. ISSN: 2661-3158, (Online), <http://ojs.nassg.org/index.php/sms/about/editorialTeam>, <http://ojs.nassg.org/index.php/sms/index>
8. Dr. A. R. Kambekar Chairman Ph.D. Examination panel University of Mumbai
9. Dr. A. R. Kambekar Member faculty selection committee in UG and PG in Civil Engineering at Walchand College of Engineering Sangli, (Shivaji University Kolhapur), Maharashtra, India (04th and 5th July 2021).

10. Dr A. R. Kambekar Expert on evaluation of question paper/paper setting in Civil Engineering at Maharashtra Public Service Commission, (MPSC) Maharashtra

11. Dr. H. S. Jeswani conducted a workshop on appreciation for Infrastructure (6 days) under the TEQIP II Coordinator

Faculty members attended seminars/workshops. (Total=14)

- o No. of Faculty registered/completed SWAYAM courses: 08
- o No. of ATAL FDP courses completed by Faculty: 06

No. of Publications by faculty members: (Total=24)

Sr. No	Name of the faculty	Total
1.	Dr. M. M. Murudi	01
2.	Dr. A. A. Bage	00
3.	Dr. Prashant P. Nagrale	00
4.	Dr. A. R. Kambekar	09
5.	Dr. P. G. Gaikwad	01
6.	Dr. H. S. Jeswani	4 (2 UG, 2 PG)
7.	Dr. Reshma Raskar Phule	06
8.	Dr. A. N. Ghadge	02
9.	Dr. K. Nadgouda	-
10.	Prof. S. J. Kumbhar	01
11.	Prof. Akshata Deshpande	00
12.	Prof. Ankit Asher	00

Revenue generated by the department through consultancy & Testing

Sr. No.	Description	2021-22
1	Consultancy & Testing	66,41,130/-

Student Achievements

No. of Final year students passed for GATE-2022: 17

No. of students got Placement to campus (2021-22): 20

No. of Final year students passed GRE: 01

No. of Final year students passed CAT: 00

No. of Paper Publications in Journals & Conferences: 04

Workshop organized Through CEA: 02

Expert Talk organized through CEA: 01

Site Visit organized through CEA: 01

Result Analysis

1. S. Y. B. Tech (Civil) - 80.28%

2. T. Y. B. Tech (Civil) - 94.44%

3. B. Tech (Civil) - 85.36%

Annual Report 2021-2022

DEPARTMENT OF ELECTRICAL ENGINEERING

The Department of Electrical Engineering was established in 1962 with an undergraduate programme in Electrical Engineering. In the academic year 2014-2015, we started the postgraduate programme in Power Electronics and Power Systems and in the year 2018-2019 our Ph. D. programme has been approved by the University of Mumbai. The intake for these programmes is sixty, eighteen and ten respectively.

The department has an excellent infrastructure. The strength of the Department of Electrical Engineering is its faculty, students, supporting staff and alumni. The faculty of the department are motivated by their goal to transform young engineering students into skilled and proficient Electrical Engineers. The department has expertise in the field of power systems, electrical machines and drives, electronics, communication engineering and control systems.

Academic Activities:

Curriculum:

The department has a curriculum which is in alignment with the AICTE model curriculum. We are offering a variety of courses under Professional and Open Electives. The professional electives cover the advanced courses of Electrical Engineering whereas open electives cover interdisciplinary courses. We have a history of an excellent placement and this curriculum will definitely further improve graduate employability. Apart from the core, professional and open elective courses, technical or non-technical value added courses are included in the syllabus. The technical value added courses include an introduction to various software like MATLAB, SCILAB, Python, ETAP etc and courses such as PLC and numerical techniques.

The elective courses are useful for the students continuing higher studies whereas value added courses are helpful to them while implementing B. Tech. projects. Soft computing courses offered for S. Y. and T. Y. students are useful for understanding many Electrical Engineering concepts. Apart from regular experiments, many of our laboratory courses require us to execute mini projects for the completion of courses. This gives hands on experience to students which help them to complete final year projects.

Due to pandemic situations, teaching in the academic year 2020-2021 has been completed in online mode with various innovative ideas implemented for conducting theory/laboratory/ tutorial classes.

Guest Lectures:

The following guest lectures were arranged for students and faculty during AY 2021-2022. These lectures were delivered by experts from industry and reputed academic institutes to update students with advances in technology:

- Machine learning and Artificial intelligence
- WAMS
- To learn Importance of simulation
- Introduction to advanced processors

Few laboratory sessions in BEE I, Power Electronics and Power System II were conducted by research scholars pursuing Ph. D. from IIT Bombay which helped students to learn new simulation techniques.

The visit to JNPT and the gas power plant at Uran is scheduled in April 2022 for T.Y and final year B. Tech students.

One day training on DSP processors was arranged for faculty members.

Department faculty participated in audit of oxygen plants at various hospitals during pandemic and Third Party verification assignments with Bhiwandi Municipal corporation.

Students Achievements:

Electrical Engineering Students Association (EESA) is active throughout the year. The students conducted and participated in many online/offline technical and extra-curricular activities like SPECTRA, IPL Keeda, EESA cup etc. under the guidance of department faculty Mr. Rahul Chavan and Mr. Vishal Dake.

The following workshops are conducted by EESA

- Calculator
 - Electrical Software 1_2_3
 - Laboratory Safety
 - Innovative Project Presentation
-
- Twenty five students appeared for the GATE examination and Eight are qualified in the same.
 - PG students have published papers in various international conferences.
 - Department started ELITE Coder's Club. The club is active in arranging workshops/competitions/training to inculcate coding culture among students. Prof. Ushma Shah is the faculty coordinator for the same
 - Department students are participating in various activities/ competitions via ROBOCON, WAVE, Car racing teams.

Result Analysis:

Sr.no	Electrical Class Academic Year 2021-2022	Passing %
1	F.Y.B.Tech	84.59
2	S.Y.B.Tech	83.13
3	T.Y.B.Tech	93.15
4	B.Tech	97.06
5	M.Tech First Year	100
6	M.Tech Second Year	100

Annual Report 2021-2022

DEPARTMENT OF MECHANICAL ENGINEERING

Department wise Achievements (April 2021 to March 2022)

Mechanical Engineering Department:

- The department faculty obtained/filed following Patents/Intellectual Property certification during the mentioned period.
 - a. Patent application no. 202121019588, certificate of registration of design dated 27/04/2021 issued by The Patent Office, GOI, for "A Machine for Sowing of Sugarcane utilising Ring Pit Method" in the name of Dr. S. B. Rane (SPCE) and Team.
 - b. Patent application no. 342821-001, certificate of registration of design dated 27/04/2021 issued by The Patent Office, GOI, for "Sugaromatic Machine for Sowing of Sugarcane Stems inside pits" in the name of Dr. S. B. Rane (SPCE) and Team.
 - c. Patent application no. 342820-001 dated 27/04/2021 for "Sugaromatic Machine for Drilling Pits" in the name of Dr. S. B. Rane (SPCE) and Team.
 - d. Patent application no. 342388-001 dated 14/04/2021, for "Data Processing Equipment as well as Peripheral Apparatus and Devices" in the name of Dr. S. B. Rane (SPCE) and Team.
 - e. Patent application no. 201921015361 dated 04/08/2021, for "A system guide user to repair machine using Augmented Reality" in the name of Dr. Kiran Bhole.
- Department faculty attended a total of **12 faculty** development programs and training seminars/workshops during the period.

Faculty Achievements:

1) Dr. S. S. Umale :

- Received third rank in poster presentation completion under SAFE Category at SIAT 2021(Symposium on International Automotive Technology 2021) on 5th October, 2021.
- Delivered 40 Expert Talks in International /national conferences as a keynote speaker, Resource person in AICTE /ISTE /FDP/STTP and in the institution innovation council in different technical institutes.
- Organized and coordinated national level webinar in Sardar Patel College of Engineering or supporting and faculty.
- Published paper in Scopus index journal.
- Published one technical paper.
- Participated in an industrial webinar arranged by Society of Indian Automobile Manufactures on Electrical Vehicles in India.
- SAE India Inaugurated Mumbai Chapter in SPCE Andheri ,07 March,2022.

2) Dr. R. B. Buktar:

- Publish 03 papers in the International Journal
- Delivered 03 expert talk in the one day/two day workshop
- Delivered 06 lectures in various national institutes

3) Dr. N. R. Raykar

- 04 FDP participated

4) Prof. D. N. Jadhav

- SPCE ROBOCON received overall ranking 19 his faculty.

5) Dr. K. S. Bhole

- Received grant of Rs 3180921 for research project “Investigation of Fractal Growth on the Curved Surfaces in Hele Shaw Flow” from Science and Engineering Board, Department of Science and Technology, Government of India.
- Received grant of Rs 17374192 for collaborative research project “Development of machine for rapid fabrication of the biocompatible microneedles, followed by clinical testing” from Science and Engineering Board, Department of Science and Technology, Government of India. The research project is in collaboration with Indian Institute of Technology Bombay and Institute for Stem Cell Science and Regenerative Medicine (InSTEM) Bangalore.
- Published 5 papers in the international journals
- Presented 3 papers in the international conferences
- Reviewer of ASME Journal of Micro and Nano Manufacturing.
- Reviewer of ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference 2022 (IDETC-CIE 2022) and Manufacturing Science and Engineering Conference 2022 (MSEC 2022).
- Reviewer of Inderscience International Journal of Environment and Waste Management.
- Reviewer of Inderscience International Journal of Computer Aided Engineering and Technology.
- Five numbers of Expert Talk in FDP, Workshop and STTP
- Five Coordinator of FDP, STTP

6) Dr. R. S. Maurya

- Published one paper in International Journal
- Participated in 2 FDPs

7) Dr. S. B. Rane

- 23 nos. student development/faculty development/institute development activities
- Delivered 12 Expert Talks in International /national conferences as a keynote speakers, Resource person in AICTE /ISTE /FDP/STTP and in institution innovation council in different technical institutes.
- As an advisor of SPCE Racing won 2nd Rank in Business plan across India.
- Established SAE Collegiate club in SPCE
- Conducted 3 sessions for the International Institute
- Jury for CII MILCA Award

8) Prof. P. K. Muley

- Coordinated and organized online Marathi Bhasha Samvardhan Program One Week approved by DTE on 20-28 January, 2022.
- Participated in 01 FDP
- 01 paper presented in the international conference.

9) Dr. Megha Janbandhu

- Successfully completed Ph.D. from VJTI, Mumbai
- Participated in two FDPs
- Organized 4 Webinar and 1 Research symposium
- Organized blood donation camp and woman's Day under MESA

10) Prof. S. R. Vankar

- Two manuscripts under review in the International journal of Composite: part C and Materials Today Communications.
- Two abstracts accepted to 37 The University of Arizona, American Society for Composites (ASC) 37th Annual Technical Conference on September 19-21, 2022 in Tucson, AZ.
- Two Conference papers presented in the International conference at Portugal and IIT Kharagpur.
- One FDP participated at College of Engineering Pune
- Two value addition courses are done on R-programming and Interactive Dashboard using Google sheets.

11) Prof. Sharad Valvi

- Received grant of 18.30 Lakh from SERB science and engineering research board government of India.

FIRST YEAR ENGINEERING DEPARTMENT

Annual Report 2021-22

The department helps the students learn basic science courses, which lays the foundation for them to study the professional courses in their Engineering program. The department also helps the students to learn and enhance their communication and interpersonal skills and develop a fine overall personality. As a result, the students are better prepared to face the interviews for in campus as well as off-campus placements and also perform well in their professional life. Thus, the department creates a bridge between the Basic Sciences, Humanities and Engineering, a prerequisite for a good engineering programme.

Dr. Shyamlee Solanki, took charge as a head of the Department of First Year Engineering since 2nd May 2022 .

Department Activities:

- Organized workshop by Experts from Industry.
- ATAL FDP (Developing Interpersonal Skills and Effective Communication Intelligence) by Dr. Shyamlee Solanki from 6th December 2021-10th December 2021.

Guest Lectures by Experts from Industry/Institute Organized :

- Introduction to Quantum Mechanics 17th March 2021 (Conducted Online on google meet)
- Courses attended by Faculty members (2021-22)
- Dr. Shyamlee Solanki attended Inculcating Universal Human Values in Technical Education by AICTE.
- Prof. Divya T.A. attended Inculcating Universal Human Values in Technical Education by AICTE.

Faculty Achievements

- Dr. Shyamlee Solanki got selected as a member of Board of Studies, NMIMS Mukesh Patel College of Engineering.
- Dr. Shyamlee Solanki has research publication to her credit: Conducting Short-Term Technical Interdisciplinary Courses with Better Outcomes with Taylor and Francis online.
- Prof. Divya T.A. got selected for doing PhD of Physics under QIP at IIT Bombay for the year 2021-22.
- Prof. Divya T.A. got selected as a member of Board of Studies, Bhavan's College Andheri (West).
- Dr. Jayram Gholave has two research publications to his credit:
 - i. Enantioselective high performance new solid contact ion-selective electrode potentiometric sensor based on sulphated γ -cyclodextrin-carbon nanofiber composite for determination ...
 - ii. Review on Banana Fibre-Reinforced Composites

NS Gadhari, JV Gholave, SS Patil, VR Patil, SS Upadhyay

Journal of Electroanalytical Chemistry 882, 114981

<https://www.sciencedirect.com/science/article/abs/pii/S1572665721000072>

- CP Chaudhari, K Bhole, J Gholave

Advances in Manufacturing Processes, 359-379

https://link.springer.com/chapter/10.1007/978-981-15-9117-4_27

Students' Council



Student Welfare Committee

- Dr. Shyamlee D. Solanki - Chairperson
- Dr. Jayram Gholave
- Dr. Anil N. Ghadge
- Dr. NandaKishor Kinhekar
- Prof. Megha Janbandhu
- Mr. Kishor Joshi
- Mr. Darshan C. Nawale

Student Council 2021-22

General Secretary :-

- Ms. Samiksha Tupe

Technical Secretary :-

- Mr. Aniruddha Deshpande
- Ms. Pranita Mahajan
- Ms. Vaibhavi Patil

Cultural Secretary :-

- Ms. Akanksha Wadile
- Mr. Raj Choudhary

Magazine Secretary :-

- Ms. Shruti Sheth
- Mr. Vedant Singh

Literary Secretary :-

- Ms. Pallavi Ghevade

Sports Secretary :-

- Ms. Shraddha Shinde
- Mr. Ayush Jaiswal
- Mr. Swarup Khode
- Mr. Vedant Chavan

Ladies Representative :-

- Ms. Shreya Shete
- Ms. Sneha Pisal

Finance Secretary :-

- Mr. Divy Ladhani
- Ms. Sadhvi Chaubey

Creative Head :-

- Mr. Burhanuddin Saiffee
- Mr. Sujit Bhoye

GENERAL SECRETARY'S ADDRESS

The academic year 2021-22 was a rollercoaster ride, filled with fun activities, fests and the transition from online to offline learning again. On 29th August, 21 final elections took place and Student Council was formed. I was privileged to be elected as the General Secretary of this prestigious college.

We assiduously revived our clubs and embolden them to be the jewel in the crown in this new era of google meets. 3 new chapters Start-Up Cell (IIC), Institute of Electrical and Electronics Engineers (IEEE), Sustainability & Green Chapter (SPSGIC) and 1 new Elite coders club were established during our tenure.

We began our endeavour of organizing events with “Garba raas” – our Navratri event followed by the Diwali event. Our Ladies’ representatives worked for the welfare of women.

Our literary event “SPCE – Annual Debate” was the next in line on 23rd – 24th October. With first-ever international participation, we had brilliant minds in front of us. To impart the importance of physical fitness, our sports Secretaries organized “SPIRIT” our Sports Fest.

With the world returning to its new normal, we welcomed our beloved first-year students with an Induction Program and campus tour. SPCE Rotarians guided students on being a responsible voter on Voters Day. Republic day witnessed the hoisting of our National Flag in the Institute along with a poetry and artistic performance. Following this was “Prarambh”, our first-year students showcased their talents on 22nd February, 22. All these events were conducted with maintaining the COVID guidelines.

With a “Better late than never” attitude, we planned a ray of festivities in March. 5th-6th of March marked the celebration of the 3rd largest technical fest of Mumbai “SPECTRA”. On 8th March - International Women’s Day with the motto “Break the bias”, a Treasure hunt was organised for female students. Our extravagant Cultural Fest “SPACE” was conducted from 11th–13th March.

We welcomed our prestigious alumni back to their alma matter on 9th April, 22. To keep the festivities rolling Traditional week was celebrated. Lastly, we bid our goodbyes to final year students.

I would like to express my sincere gratitude to our Principal Dr M.M. Murudi, our lovely Chairperson Dr Shyamlee Solanki, the entire Student’s Welfare Committee, and teaching and non-teaching members for supporting us in this journey. Last but definitely not least all my fellow council members without whom this ride would’ve been incomplete. I wish all the very best to the next Student Council and wish glory upon SPCE in the future years.

-Samiksha Tupe

TECHNICAL SECRETARY'S ADDRESS

Sharpening the technical skills of a student is of utmost importance in any engineering college. Being in the Student Council gives an insight into the way things are done, the backstage work for the activities, and the handling of student affairs as a whole. Our role, as a Technical Secretaries, entails coordinating the activities of all the technical clubs like SPCE Robocon, Racing and Wave, the student projects, and the successful execution of SPECTRA the fest. It is also essential to provide students with the opportunity to attend workshops and conferences in collaboration with the top colleges and companies in the country.

As contingent leaders, our role is also to make students aware of fests in other colleges and guide them through the participation process. A part of our job is also to generate a favorable response towards technical activities among the students to make the learning process more enjoyable. We also serve as a medium of communication between the students and administration by voicing their concerns.

Our experience as Technical Secretaries has been exceptional for the academic year 2021-22. Our predecessors have helped give this post a very prominent name across the campus and to further the impact, we plan to create a more student-friendly interface to improve our reach. A 'Technical Fest' is the face of an engineering college and it should be as grand as possible. So, we aimed to make SPECTRA 2022 a grand success by uniting students across various disciplines to take part in our national-level competitions. Thus, the planning for 'SPECTRA 2022- Enlightening Minds' started from the day we held our positions.

Keeping in mind the heights we had to reach in a short period we started working day and night. Every day, we used to have a meeting with our core team so that we were updated with the ongoing tasks and this daily ritual really helped to make spectra successful even during times when the pandemic was the biggest barrier. The team coordinated through platforms like google meet and executed the plans excellently. Our masterminds of the web design team and the creative team gave us their full potential in the form of an official website and posters which were circulated all over respectively.

We also had some strategies planned out like - maintaining public relations with various colleges nationwide, wherein we communicated with every college in Mumbai. Along with this, we also cracked some barter and monetary deals. In the initial days, we launched an event on our social media page "Tech week" and "Tech Cup", which excited our viewers and increased their enthusiasm for the fest. And finally, SPECTRA was held on 5th March and 6th March 2022 in a full-fledged hybrid mode which was the only annual technical festival held across Maharashtra in an offline mode with the participation of 500+ students in total.

To close this address, we would like to acknowledge the persistent efforts taken by all the students of our college, the Students' Council, Chairperson of the Student Welfare Committee, the faculty, the supporting staff, and our Principal Sir for constantly guiding us. Thus, we look forward to the successive Students' Council to build upon what we have achieved and reach greater heights.

-Pranita Mahajan

-Vaibhavi Patil

-Aniruddha Deshpande

CULTURAL SECRETARY'S ADDRESS

Among all uncertainties due to pandemics, we hustled to rejuvenate the atmosphere with the most awaited offline celebrations of the year after a gap of 2 long years. We began with the first festival after the council was formed i.e. Ganesh Chaturthi and we pulled our first online event Lens Lord in collaboration with pixel vision (photography club) where a great response was seen by the students of our college and it was a motivation for us to go further.

We were thinking a lot about the theme for the biggest extravaganza- SPACE 2k22 and finally, got Colors Of Culture, the intro video of the theme was the most mind-blowing start of the journey to SPACE. Because of the online mode, our all cultural clubs were very inactive and many of them were about to close, so we thought of waking them up which was the first challenge for me and Akanksha as we had to select the heads of cultural clubs who could lead and guide the team in the right way. So we were done with selecting and appointing the heads of cultural clubs i.e. SPANDAN (music club), SPLASH (Dance club), SPARKLE (Fashion Club), and Drama Club. As the season passed we were excited to come to college as soon as possible, I and my few friends were there back in college just after Diwali. Before that, we conducted a dance competition named Garba Raas in collaboration with our dance club splash on the occasion of Navratri and after that some amazing videos by our drama club and Spandan on the occasion of Diwali. Since we were back to college but still covid period was on, we were planning to pull out our first offline event in December itself but the situation was a bit unlucky then and we had to get ready for the 1st year induction program where we gave a brief idea about space to everyone present there.

We could see the excitement on the new faces during the presentation of all the cultural events. Also, we got the hope to do the entire fest offline and we started the preparation accordingly.

On 26th Jan 2022 on the occasion of Republic Day, we revived a sense of patriotism through our first offline performance in college. Though fewer students were working on the ground with us, still we managed to conduct it in a successful way as we witnessed many happy faces that day. Unfortunately again lockdown was imposed unexpectedly due to the omicron variant but this time it didn't last for much time and by 1st week of Feb whole college was seen on the campus.

The main issue we faced this year was the lack of free slots and we had to fix a permanent date for each and every fest from 11th to 13th of march reserved for the most-awaited bash of the year-

SPACE 2k22. After freshers, (1st successful official offline event) we were preparing for the prom night which was just 2 days ahead. We launched a new event for Pre-SPACE part 2 i.e. OPEN STAGE and it turned out to be an exciting eve for all the students since the variety of talents shown by the students on the platform was amazing. Then we were in the week of SPACE the fest, we tried to do it the same way as it was 2 years ago in offline mode by crossing numerous hurdles and challenges. Various popular personalities were invited to judge our events like Ruchira Jadhav and Revati Palshetkar for Vogue, Anup Gaikwad as a beatboxer, Sanjana Sharma, Aakriti Mehra, and many more. During a span of 3 days, 200+ participants, band, and DJ night were like the cherry on the cake. Prashant Salvadi, the artist, won the hearts of the whole crowd including the faculties with his stunning voice and marked the end of the grand fest on a high note.

Lastly, I would like to extend my regards to the entire core committee for their valuable contribution during the fest and more importantly to the chairman, the student welfare committee, who guided us throughout the entire course. All this wouldn't have been possible without these helping hands and we are grateful to each and everyone for the same.

-Akanksha Wadile

-Raj Choudhary

SPORTS SECRETARAY'S ADDRESS

We are obliged to present you with a summary of our sports-related conquests during the academic year 2021-22.

As we resumed offline college after a 2-year gap of being at home bored and there was a lack of physical activities. So we have enthusiastically increased the sports activities for students joining college after the hit of the pandemic.

We conducted the induction program for the new first-year students, filling them with zeal and eagerness to learn sports like volleyball, throwball, cricket, and football. They were motivated to showcase their role in the various sports to join the official college teams which represent SPCE in tournaments conducted all over Mumbai.

Due to the pandemic and the covid restrictions many team sports were difficult to practice and we could not participate in the very few tournaments that were conducted. SO we have promoted individual sports like Table tennis, badminton, athletics, etc., and participated in the intercollege competitions. We are proud of **Mr Pratik Bhosle**, **Mr Kaif Badshah**, and **Mr Rickson Arasan** who missed the semi-finals closely in the intercollege table tennis tournament. Also, **Mr Pratik Thokal** secured 6th position in 40+ participants in athletics (100m). Mr Yash Dhange represented SPCE in an inter-college badminton tournament by clearing the milestone of competing in round 3 and performing as an amazing opponent.

This has been possible after daily practice in the fully equipped gymkhana that we established this year after a 2-year hiatus.

We conducted the SPIRIT Challenge in online mode on our Instagram social media handle to involve students in fitness-related activities while they were at home. In the challenge, students were expected to perform various yoga poses and motivate their friends and family by challenging them.

We re-established our very own sports club **SPIKE**, led by MR. Ayush Jaiswal. The motto of the club is to keep students of SPCE involved in sports activity and showcase their talents and get a chance to represent SPCE on higher levels. We also encouraged students to showcase their interest in their favourite sports while at home like football, karate, boxing, cricket, swimming, yoga, hurdles, etc. Official teams of SPCE are formed for Football, Cricket, and Throwball (Girls), to represent SPCE in inter-college tournaments.

We conducted our annual sports fest SPIRIT in the second week of February in online mode with games like IPL auction, Battleground Mobile India, etc. with Participants from all over India. We aim to keep students of SPCE to be engaged in sports activities throughout the year and focus on their individual performance and overall fitness.

We would especially like to thank Dr Jayram Gholave sir and Dr Shyamlee Solanki ma'am for constantly motivating and guiding us in organizing sports activities in the college and helping us through difficult periods.

We would also like to thank the campus coordinator, Mr Jagtap, for maintaining the grounds on the campus and coordinating with us to organize our events. And finally, the non-teaching staff who helped us organize our events.

-Shraddha Shinde

-Ayush Jaiswal

-Swarup Khode

-Vedant Chavan

Merit Students

LIST OF PRICE AWARDED		
C/M/E 2020-21		
Sr.No.	Name of the Award	PRIZE AWARDED
1	KULPATI'S GOLD MEDAL	For securing First Rank in First Attempt amongst students of this college in following Programs. B.TECH. (CIVIL) BHANGALE HEMAL VIJAY CPI -9.67 B.TECH. (MECHANICAL) VERMA ANJALI RAJESHKUMAR 9.76 B.TECH. (ELECTRICAL) BAVISHI TARANG KANUBHAI 9.72
2	KULPATI'S SILVER MEDAL	For securing Second Rank in First Attempt amongst students of this college in following Programs. B.TECH. (CIVIL) BHOSALE RUTUJA SHIVAJI CPI -9.61 B.TECH. (MECHANICAL) HASE SWAPNIL BALASAHEB 9.50 B.TECH. (ELECTRICAL) DIVYA SHAH 9.47
3	SHRI PRUTUVISH NARAYANDAS KILLAWALLA PRIZE	For securing highest scores in first attempt amongst students of this college at F.Y B.TECH. (ELECTRICAL) Examination held in previous academic year and joined in S.Y B.TECH. (ELECTRICAL) RICKSON IRUDAYAKANI ARASAN 9.73 For securing highest scores in first attempt amongst students of this college at S.Y B.TECH. (ELECTRICAL) Examination held in previous academic year and joined in T.Y B.TECH. (ELECTRICAL) SURVE RAJEEV VISHWAJEET 9.68 For securing highest scores in first attempt amongst students of this college at T.Y B.TECH. (ELECTRICAL) Examination held in previous academic year and joined in B.TECH. (ELECTRICAL) PHONDKE SIDDHI RAMCHANDRA 9.61 For securing highest scores in first attempt amongst students of this college at B.TECH. (ELECTRICAL) Examination held in previous academic year BAVISHI TARANG KANUBHAI 9.72
4	SHRIPAD RAO DUBHASHI PRIZE	For securing highest scores amongst our successful college students in the subject of "Building Drawing with CAD" in S.Y B.TECH. (CIVIL) Sem. III examination held in previous academic year DHALKARI YASH NANDKUMAR -94/100
5	SMT. AHILYABHAI TEMBE PRIZE	For standing first in the subject of "Design of RCC Elements" in T.Y.B.TECH. (CIVIL) Sem. VI examination held in previous academic year DALVI ATHARV MAHESH 116/125
6	SHRI R. M. JOSHI PRIZE	Has been awarded Prof. R. N. Joshi prize for securing highest scores in Sem. VII and Sem. VIII (CIVIL) taken together and passing separately during previous academic year BHOSALE RUTUJA SHIVAJI
7	Dr. PRANLALA PATEL FOUNDATION PRIZE	Has been awarded Dr. PRANLALA PATEL prize for securing highest CPI in F.Y.B.TECH. (MECHANICAL) examination at the first attempt during the previous academic year KHASBAGE ANSHUMAN ANIL 9.78 Has been awarded Dr. PRANLALA PATEL prize for securing highest CPI in S.Y.B.TECH. (MECHANICAL) examination at the first attempt during the previous academic year MOHD IRFAN MOHD ISMAIL 9.67 Has been awarded Dr. PRANLALA PATEL prize for securing highest CPI in T.Y.B.TECH. (MECHANICAL) examination at the first attempt during the previous academic year NATHAN THEOFFY ANTHONY DSOUZA 9.81
8	SHRI JAYANTI SATYANARAYNA MEMORIAL PRIZE	For securing highest CPI in the subject of "Structural Engineering" Sem. V at the T.Y. B.TECH. (CIVIL) examination held in previous academic year WANKHEDE PRATIK PRADIP 119/125
9	SHRI MARATHE MEMORIAL PRIZE	For securing highest CPI in the subject of "ENGINEERING MECHANICS" Sem. I at the F.Y.B.TECH. examination held in previous academic year JADHAV SARVESH DHANRAJ (84) MARKS (Mechanical)
10	SHRI MARATHE MEMORIAL PRIZE	For securing highest CPI in the subject of "Mechanics of Materials" Sem. III at the S.Y.B.TECH. (CIVIL) examination held in previous academic year TANYA RAVINDRA SINGH 96/100 For securing highest CPI in the subject of "STRENGTH OF MATERIALS" Sem. III at the S.Y.B.TECH. (MECHANICAL) examination held in previous academic year PRAJAPATI DEEPESH RAMDAYAL (90) MARKS (Mechanical)
11	COMMUNICATION SKILL PRIZE AWARDED BY STRUCTURAL DEPARTMENT FOR F.Y.B.TECH. CLASS.	FOR GETTING MAX. SCORES IN C.S. SUBJECT Sem. II at the F.Y.B.TECH. examination held in previous academic year SHI ARUNDHATI RAJESH (110) MARKS (Mechanical)

12	BENGAL ENGINEERING COLLEGE ALUMNI ASSOCIATION (BOMBAY BRANCH) TRUST SCHOLARSHIP	For securing highest scores in first attempt amongst students of this college of T.Y.B.TECH. (CIVIL) Examination held in previous academic year DEO SONAL SACHIN
		For securing highest scores in first attempt amongst students of this college of T.Y.B.TECH. (MECHANICAL) Examination held in previous academic year NATHAN THEOFFY ANTHONY DSOUZA
		For securing highest scores in first attempt amongst students of this college of T.Y.B.TECH. (ELECTRICAL) Examination held in previous academic year PHONDKE SIDDHI RAMCHANDRA 9.61
13	INDIAN WATER WORK ASSOCIATION (BOMBAY CENTRE) CASH PRIZE	For securing highest scores in SUBJECT "Environmental Engineering-II" T.Y.B.TECH. (CIVIL) Sem. VI Examination held in previous academic year JADHAV SHRIKANT SUBHASH 93/100
14	DR. G.A.MHASKAR & DR. B.M.JOSHI PRIZE	For securing 1st rank in B.TECH. (ELECTRICAL) Class. BAVISHI TARANG KANUBHAI
15	LATE SHRI NAMDEO B. DAHATONDE MEMORIAL AWARD	For securing highest Scores in the subject of "Digital Signal Processing" at T.Y. B.TECH. Sem V examination NANKAR KETAN SANJAY 106
16	MERIT PRIZE (OR BOOKS) AWARDED BY STRUCTURAL ENGINEERING DEPARTMENT TO THE STUDENTS OBTAINING THE FIRST CLASS AND GETTING HIGHEST NUMBERS OF MARKS IN ALL STRUCTURAL ENGINEERING SUBJECTS	Design of concrete structures - BHANGALE HEMAL VIJAY 117/125
17	MERIT PRIZE ON THE BASIS OF MERIT IN THE PRECEDING EXAMINATION	F.Y.B.TECH. Electrical RICKSON IRUDAYAKANI ARASAN
		F.Y.B.TECH. Civil ESHA JAGDISH BARAPATRE
		F.Y.B.TECH. Mechanical KHASBAGE ANSHUMAN ANIL 9.78
		S.Y.B.TECH. Electrical SURVE RAJEEV VISHWAJEET
		S.Y.B.TECH. Civil LIMAYE PRASHANT SUYASH
		S.Y.B.TECH. Mechanical MOHD IRFAN MOHD ISMAIL 9.67
18	MERIT PRIZE ON THE BASIS OF MERIT IN THE PRECEDING EXAMINATION HELD IN MAY – JUNE	T.Y.B.TECH. Electrical PHONDKE SIDDHI RAMCHANDRA
		T.Y.B.TECH. Civil DEO SONAL SACHIN
		T.Y.B.TECH. Mechanical NATHAN THEOFFY ANTHONY DSOUZA 9.75
		B.TECH. Electrical BAVISHI TARANG KANUBHAI
		B.TECH. Civil BHANGALE HEMAL VIJAY
		B.TECH. Mechanical VERMA ANJALI RAJESHKUMAR 9.76
19	MERIT PRIZE ON THE BASIS OF MERIT IN THE PRECEDING EXAMINATION HELD IN MAY – JUNE	M.TECH. (CIVIL) – CONSTRUCTION MANAGEMENT RAHIM SAYYED CPI 9.66
		M. TECH. (CIVIL) – STRUCTURAL ENGINEERING CHAUDHARI SEJAL KALPESH CPI 9.81
		M. TECH. (MECHANICAL) – THERMAL ENGINEERING BHOSALE SHEKHAR RAMESHRAO 9.57
		M. TECH. (MECHANICAL) – MACHINE DESIGN BHAD PRASAD UMAKANT 9.93
		M. TECH. (ELECTRICAL) – POWER ELECTRONICS & POWER SYSTEM CHAURASIYA POOJA ANILKUMAR 9.64

Placement Report 2020-2021

Sr. No.	Company Name	Job Profile	Criteria	Total Placed	Civil	Mechanical	Electrical	Salary in Rs. Lac. per annum
Total				92	26	22	44	
1	GEP	Senior Analyst (Consulting)		0	0	0	0	
2	Hindustan Unilever Ltd.	Executive Trainee-Supply Chain	60% or more marks in standard 12th & Graduation (till their last term)	1	0	1	0	
3	Axxella Advisory Services	Trainee Analyst(Trading)	50% and above throughout	0	0	0	0	11 CTC (8.6 +2.4 Performance Based)
4	Infosys	Systems Engineer	60% agg. in B.tech,10th,12th, Diploma No LKT	18	4	4	10	
5	Burns and McDonnell	GET	No Criteria	4	3	1	0	4L + bonus
6	L & T Technology Services	Engineering Trainees	60% in 10th and 12th 6.75 CPI Not more than 4 Re or dead KTS No live KT	8			8	4 LPA
7	Cognizant	GenC	Minimum 60% in 10th 12th, Diploma, UG (all subjects considered) No Live KT Maximum 2 year's gap allowed					
		GenC Next						
8	Axis Bank	Digital Product Owner Analytics Technology	60% or equivalent aggregate marks SSC onwards in all semesters of Engineering, No Live	7	0	2	5	7.54 CTC
9	Siemens Industry Software	GTE (genuine temporary entrant)	7.00 pointer and above, No Live KT	0	0	0	0	9 LPA
10	Chegg India	Subject Matter Expert	No Criteria					
	L & T Engineering	GET	More than 65% All subjects should be cleared in first attempt 10th and 12th - More than 75%	5	2	2	1	6LPA CTC
11	TCS Ninja	Assistant System Engineer	60% or equivalent aggregate marks SSC onwards, 1 Live backlog allowed during process, Max 2 years gap allowed, No backlog while joining	4	0	0	4	3.36 LPA
12	TCS Digital	Digital Technology Domain	60% or equivalent aggregate marks SSC onwards, 1 Live backlog allowed during process, Max 2 years gap allowed, No backlog while joining	0	0	0	0	6.5LPA
13	Nexdigm (SKP)	Business Consulting Executive		1	0	0	1	INR 4 to 6 LPA
14	ICICI Securities Limited							
16	Kotak Life Insurance	Management Trainee	No Live Backlog	3	0	0	3	5.25 LPA + Bonus
17	Neilsoft, Pune	GET	Candidates with 60% (minimum) academics percentage in X,XII and BE (without gap & live backlogs) shall be eligible to participate in the recruitment process.					2.5 LPA
18	Tata Power Co. Ltd.	GET	Candidates with 60% (minimum) academics percentage in X,XII and BTech all semesters with no active backlog or year gap shall be eligible to participate in the recruitment process.	5	0	0	5	6.06 LPA
19	GlobalEdge Software	Junior Software Engineer	A minimum academic score of 60% in 10th and 12th, A min score of 65% in BE/BTech					Offered C.T.C – 3.25 to 3.5LPA Service Agreement/Bond - 3 years
20	Atomberg	GET		2	0	2	0	4.5 LPA
21	Amazon	RME Coordinator	Aggregate % till 6th or 7th Semester to be greater than CGPA -7 or 70% , Degree in Electrical and Mechanical only					4.5 LPA
22	Capgemini		Should be PWD candidate with 55% through out in Engineering					
23	Feedback Infra	GET		1	0	1	0	4LPA
24	Polycab	GET Sales Support	50% in 10th and 12th . 6.75 CPI	1	0	0	1	3.25 LPA CTC
25	Reliance Retail	GET		1	1	0	0	4.4 LPA CTC
26	Technip Energies	GET	Min 70%/ CGPA- 7 throughout SSC, HSC & B.E. / B.Tech	3	2	1		6.2 LPA CTC
27	Intellipaat	Inside Sales Manager		1	1	0	0	5.3 LPA CTC
28	Mahindra & Mahindra	GAT (Graduate Apprentice Trainee)	6.75 aggregate without any year drop during engineering	3	0	1	2	Stipend – Rs. 25000/- per month.
29	Toyo Engineering	GET	1. Passing out year 2021 2. 60% (For graduation and aggregate) 3. No Live ATKT	3	2	1		
30	Galaxy Surfactants	GET		2	0	0	2	5.7 CTC
31	Afcons Infrastructure	GET	1. Min 60% throughout academics 2. Dead Kts are allowed	1	1	NA	NA	3.9 CTC
32	Chryso India	GET	Min 60% in Btech	1	1	NA	NA	3.03CTC
33	Lodha	GET		7	4	2	1	5.1 LPA CTC
34	JMC Projects	GET		4	2	2		2.64 LPA
35	Technocraft	GET		1	1			
36	Emergy Enviro	Project Assistant		2	2			4LPA
37	Upgrad	Associate Delivery		1	0	0	1	4.75 LPA
38	IDEX Corp.Ltd	GET	7 CGPA	1		1		4.5 CTC
39	BOE Consulting	GET		1		1		30000 per month

STUDENTS ACHIEVEMENT

Name	Class	Achievements
Jash Amit Saraiya	F.Y. Mechanica 1	<ul style="list-style-type: none"> • International Mathematics Olympiad (IMO) Class Rank: 2 • National Cyber Olympiad (NCO) Class Rank: 3 • Bronze Medal in Kata- All India Shokotan Karate Championship 2016 • Bronze Medal in Kata- All India Shokotan Karate Championship 2017 • Bronze Medal in Kumite- All India Shokotan Karate Championship 2017
Shivam Shailendrakumar Bhangale	F.Y. Civil	Participated in "Dr.APJ Adbul Kalam Space Research Payload Cubes Challenge – 2021" - an event of launching 100 Femto satellites in a single high altitude scientific balloon which includes 4 world records. Acknowledged by the India Book of Records, World Book of Records, Asia Book of Records.



Sanskar Jain Bedmutha from TY Civil is like any other young boy studying in class X. What makes him different from others his age, however, is his collection of currency notes, coins and stamps. In the three years that Sanskar started his collection, he amassed 1,678 coins from 286 different countries, 533 notes from 182 countries and 10,136 stamps from 161 countries. His efforts have even been acknowledged by the **Golden Book of World Records**, Online World Records. Sanskar has also displayed his collection at an exhibition organized by the Numismatic Society of Maharashtra, held in Pune in May 2015.

It all started when Sanskar had gone to Aurangabad to attend a lifestyle coaching programme in 2013. "The programme ended on January 26 and I was at a restaurant having lunch with my parents when I saw some foreigners across the table. During the programme, the friends I made told me that some of them were

collecting stamps and coins. I was fascinated by the idea and when I saw the foreigners, I thought about whether I, too, could collect some foreign coins," Sanskar recalls.

Having asked his parents for permission, he approached the foreigners, who were Polish citizens. Hearing his request, they gave him some Polish coins to encourage the child. Sanskar's father offered to buy the coins, but the foreigners refused and gave them to Sanskar as a gift. "The Polish coins were the first in my collection. I was then motivated to collect more. In the process, I acquired some notes and thus my collection of notes began," he says.

In fact, so motivated was Sanskar about his collection that he would not let go of any opportunity to add to it.

He adds that he was even selected by his school for a tour of the NASA headquarters in the US and he completed the Astronaut Training Experience at The Kennedy Space Centre in Florida on November 1, 2015.

Sanskar's stamp collection also happened thanks to a stroke of luck. He had gone to Mumbai for an exhibition. There, he met an elderly person who asked Sanskar if he would give him his collected notes for Rs1,000.

Sanskar refused. "That uncle then raised his offer to Rs5,000. My father asked me if I wanted to give my notes, but I still refused — I was not ready to part with them at any cost. That uncle then opened his bag and took out a collection of stamps and handed it over to me," Sanskar says. The man — whose name was Dhirubhai — told Sanskar that he had collected the stamps as a hobby but had no one to hand over the collection to, and was searching for someone who could take care of it. Convinced that the young boy was the right person, he handed over his collection to him. Sanskar then added his own stamps to that collection and, today, he has 10,136 stamps from 161 countries.

So what has his collection given him? "Recognition, happiness, persistence and a sense of responsibility," Sanskar signs off.



INTERVIEW

with

Mr. Umesh Nayak

B.E. ELECTRICAL, SPCE (1994-1998)

Umesh Nayak pursued B.Tech in EE in 1998 from Sardar Patel College of Engineering & MBA from SP Jain Institute of Management & Research in 2004 where he was a part of the IT Committee. He is a real estate professional for projects with 17 years' experience in multiple sectors at senior management positions, including CxO positions. He is currently a Chief Executive Officer at Kalzen Contech Private Limited and has Led diverse teams of architects/CAs/MBAs/engineers, across businesses, work cultures in India, USA.

1. Where are you currently located and what is your line of work?

Currently, I am located in Hyderabad, working as the CEO of Kaizen Contech, a new age construction company set up with the aim of bringing tech-driven efficiencies in the construction

2. What was your main aim after 4 years of Bachelor's in Electrical Engineering at SPCE?

I wouldn't say I had full clarity of thought on future plans however like most batch mates, I was focused on gaining good work experience and preparing for CAT. I was however well-advised that India would be the destination of the future and hence did not pursue studies or a prolonged career abroad. That was a personal choice which I am glad for but to each his own!

3. What inspired you to apply for an MBA after completing your graduation? How different from mainstream engineering?

Various influences- some of it from the herd mentality of seeing most engineers using MBA as a finishing school (FOMO- Fear Of Missing Out as is popularly known). After working some years as an engineer, it was important to understand larger aspects of business which helps make sense to why decisions are made the way they are. Continuing in mainstream engineering would

have helped in specializing in technical functions while an MBA helps in understanding the business side of a company. I am not in any way suggesting one is better than the other, it's a personal choice on where one wants to focus.

4. In what sense has your background in electrical engineering helped you in business school? How did your work experience in this field shape you?

I have not worked directly in the field of electrical engineering; however, engineering per se does help develop critical thinking, analytical abilities, certain clarity of thought and practical thinking. These are important skills which contribute to professional success as well as personal life

5. Tell us about your life while you were working and how it was different from college life?

As a great man once said- if you think your teacher is tough, wait till you get a boss. Work life will be a lot about accountability for your performance, while learning to balance your finances and time for future plans. A wider perspective will enlighten one, on how as an employee you are part of a much larger system and your role in it, unlike your time in college.

6. You are the Chief Executive Officer at Kalzen Contech Pvt. Ltd. Share with us your experience of working as CEO.

As a CEO of a construction technology start-up and an entrepreneur, I am continually exposed to the evolving business environment. The notion that learning is never static has only been reinforced here. Challenges in various forms (pandemic, rising costs of construction, etc.) have made us tweak our business strategies on an ongoing basis. The sheer number of dependencies compels one to work with a 360-degree perspective on all actions. Being clued into the policy environment, compliance requirements and market demands brings its own set of challenges.

I would go so far as to say that in many ways, 3 years as an entrepreneur/CEO has been more enlightening than 20 years as an employee, boss and a senior management executive. One thing I must add here though- Entrepreneurship is not for everyone and it is certainly not for the weak-hearted!

7. Please share with us some fond memories of your time in SPCE, and how your years here have shaped you.

Being a hostility all through my college days exposed many of us to certain independence from a family with good as well as not-so-good consequences at times. It did a world of good to me personally though, in building self-discipline.

The years I studied at SPCE (1994-1998) were among the tumultuous years for Indian politics. In a just liberalized India but yet in a pre-internet/laptop/mobile/satellite TV scenario- newspapers and long discussions on then unstable Indian political scenario were commonplace among hostelites (something I realized was preciously missing only when I went in for my MBA years later in a laptop-internet environment). During my years there I witnessed the revival of EESA and MESA after many years. Mine was the last batch with 3 streams (Civil, Mechanical, and Electrical). From the next batch two new streams- Computer and Electronics commenced.

8. Any advice for future electrical engineers? How can they be better prepared to face the real world and put to use their theoretical knowledge?

All branches of engineering are evolving fast. New technologies for automation and the use of artificial intelligence are becoming commonplace before we realize it. Concepts such as renewable energy and green fuels are gaining rapid acceptance. Government policies are oriented increasingly towards achieving a net-zero carbon status. Graduating engineers (not just electrical but from any field) would be well advised to adhere to the following:

Learn and improve continuously- the day learning stops you will be obsolete in the industry.

- Gain some understanding of government policies and the external environment which shapes your industry. That will help appreciate the business dynamics better and help you grow faster professionally.
- Be open to exploring, understanding and experimenting with new opportunities. A closed mind will result in stagnation in job and career. Remember- a person with 30 years of experience could have done the same thing for 30 years or he/she could have done 30 different things across the years. No prizes for guessing which is better for your growth.
- Life skills are seldom taught in educational institutions- people management, financial management, career management. These will be learnt more by doing and learning.
- Learnings in life are not always structured. Network well, and being a member of different associations in your field of study/work/interests, are some of the things that can contribute to your growth.
- Be well-read on current affairs and make it a habit to read books regularly. There is immense knowledge to be gained from reading books regularly.



INTERVIEW

with

Mr. Anand Bhatia

B.E. CIVIL, SPCE (1992-1996)

Mr. Anand Bhatia is a Chief Marketing Officer at Fino Payments Bank Ltd. He is an alumnus of IIM-L and SPCE. He reminisces about his student life and experiences in SPCE.

1. How has spending 4 years at SPCE shaped your life? What are some of your fondest memories in your time here?

Perhaps the best years of academic life! To me SPCE was not so much about the technical skills learnt (yes, I can still explain a ski jump when water cascades down a slope or P, S waves in an earthquake) as about the learning outside the classroom. Furthermore, organising events like SPACE, redesigning the intra fest (called Technobreak), cricket, and other college fests were great learning grounds. The can-do spirit inculcated has really helped me in my professional career.

The list of memories is endless. From eccentric vivas to our prof (name withheld to protect privacy) inviting us to watch cricket in his office (over maggi sandwiches), to close fought cricket games. My fondest memory still would be making and installing a windmill on the terrace as a part of our BE project. And yes, it rotated and generated just that bit of power to light up a tiny bulb!

2. What were Your favourite subjects? Did any professors have a valuable impact on your life/any professors you admire the most?

I was rather partial to geology, soil mech / foundation engineering, fluid mechanics. Somehow I didn't agree with Structural Engineering! Even today if Prof Mahiskar Or Prof PVP calls for a lecture at 3 am on a rainy morning, I will attend!

3. How did you spend a typical afternoon after college on campus?

We were very active on the extra curricular front. So college fests, organising stuff really took up a lot of time. Idle afternoons if any were spent at the large marble step at the entrance or in the sports room.

4. What was your goal in life after 4 years of Bachelor's in civil engineering at SPCE?

When I joined SPCE I aspired for the civil services. Over the 4 yrs it changed towards taking a degree in management. So as I was graduating I had my eyes set on a management degree.

I needed to get the money for the program and enhance my profile, so a year or 2 of work experience was important. Simple and clear goals!

5: What was your first job after graduation? How did you get it?

I worked with Tata Housing for a year before going for my post-graduation in management (IIML). Civil was often chastised for not having good placements. Our super seniors would joke - rehne ko ghar nahi, sone ko bistar nahi. (civil guys don't get anything!!). We were clear that this will not befall us. We scouted for firms, gave them a little prospectus about our batch (handwritten!), reached out to alumni (pre-internet it was tough) and we placed everyone!

I think the guys at Tata Housing liked this and hired me for project management!

6: What inspired you to apply for an MBA after completing your graduation? How different is it from mainstream engineering?

I realized in the 2nd year that some of the stuff in engineering (structures! and I didn't get along well! Management was a good choice (no regrets).

Engineering gives you the framework to handle complexity. And it gives you the confidence to manage unstructured situations. In some way, it is a great aid when studying management or working as a management guy. What management does is that it helps you convert this skill to more relatable actions, taking people together. At a fundamental level, it's the same - it's all about managing material, money, and manpower.

7: How has your experience in studying at IIM-L been? Please tell us about the academic environment, peers, internships, placements, extra-curricular activities or any other noteworthy events.

'Snapshots from hell' the book was an early insight into the rigorous 2 yrs that waited for us. You got a textbook along with your fee payment acknowledgement. And were expected to come prepared for an exam on day 1. (the exam did happen on day 2). The dean welcomed us (a batch of 180) by saying that he has a budget to print only 120 graduation certificates. So 1 in 3 will fail. This gives you a sense of the competition and rigour involved.

At an IIM, you live, work and play with some of the brightest minds in India. The learning in the hostel, mess, library and playgrounds is immense. The intense project work (you work on live cases, live business problems) really builds you up for the future.

Internships along with the program were not thought of then. But one picked up extra skills by taking additional courses, reading etc. There is tremendous freedom to learn (or not). The most notable event would be placements. Getting into a "start-up" (the word was not coined yet) was one of the most incredible things to happen. It set the tone for things to come.

8: You are the Chief Marketing Officer at Fino Payments Bank Ltd. What is your workday like, what are some things you really enjoy about your work?

It's a day packed with meetings and the need to disassociate and think differently. A marketing guy is a consumer in the boardroom. And hence wears great responsibility. The ability to make an impact on the consumer's life is a great high. And that is what motivates marketing managers.

It's important for one to now and then step outside the routine and - listen to what everyone says, see what everyone sees, and read what others read but think differently. Always push the barriers.

9: What motivated you to take up a career in this domain?

With stints in sales and distribution, product management and being an entrepreneur, being the CMO of India's most profitable fintech with a bank license only feels logical!

10: In which way has your background in civil engineering prepared you for your career?

The ability to handle complex concepts, and data, and build a factor of safety into work done (analysis campaigns) is a reflection of my civil engineer roots. Like a civil engineer, I build my marketing to have a lasting impact



INTERVIEW

with

Mr. Shashi Banka

B.E. MECHANICAL, SPCE (1992-1996)

1. What are you currently pursuing? Where are you located?

- Currently, I run an Investment Banking Firm and am the Founder and CEO of a Software Development Company. I am based out of Mumbai.

2. What inspired you to take a master of business administration (MBA) after completing your graduation? How was it different from mainstream engineering?

I believed to pursue my entire education in a single Go, before I get into any Job, thinking that it may be difficult to come back. The choice of MBA was since I always liked Finance as a subject, and I used to interact with Seniors from S.P. Jain while in Engineering and developed a keen interest in Finance.

3. How does having a Btech degree in mech help you to get into one of the premier institutes for management?

- While doing my B. Tech in Mechanical, I could groom some of the key personal attributes which helped me to get into an MBA institute, including Focus, Time Management and overall Personality Development. This life stage of Graduation is the transition period, wherein you change over from a student to a responsible Adult. During this life stage,

Mr. Shashi is a Founder and CEO of a software development company, and an alumni of SPCE. In this conversation he looks back on his days as a B.Tech Mechanical student, and also his days in S.P. Jain as a management student.

the B.Tech (Mech) gave me immense opportunities to learn, explore and evolve. At a more operational level, getting trained by the best of the faculty on subjects like Mathematics, Machine Design, Industrial Engineering, etc helped me gain knowledge and confidence to make the most complex machinery and solve problems. This course helped me change my mindset from a user (of machines and components) to a creator (of machines and components).

4. Tell us about your life while you were interning or working and how it was different from college life?

- I have always felt that my college and work-life were similar in regard to Learning Opportunities. Few difference between the two includes, that at your workplace you need to identify, learn and pursue such learning opportunities, all by yourself, without being driven and guided by a set curriculum. Further, Work-life has accountability and resource constraints, which was not the case while in college. College life provided you with like-minded friends, while at work you work with an extremely diverse set of people.

5. Any advice for future mechanical engineers? How can they be more ready to face the real world and put to use their theoretical knowledge?

- In my opinion, theoretical knowledge assists to learn the tools and techniques of the subject. I would encourage students to develop skills to diagnose and solve problems. Also, keep benchmarking yourself against the best, and always be passionate to do things better and better.

6.. As a youngster pursuing MBA from one of the best colleges for an MBA, could you lend some wisdom to the students of SPCE.

- Practice is the only way to succeed, and there is no shortcut to the same.

7. Please share with us some fond memories from your student life in SPCE. How did these years shape you?

- The 4 years of B.E. graduation were among the best period of my life, and I have lots of fond memories from my student life at the Engineering College. When I look back now, I remember the workshop activities, wherein we learnt to sweat in the Foundry, work on the lathe machines, and work with various materials like iron, wood, etc. The large number of factory visits that we could do, gave us insight into the functioning of factories which manufactured things, like automobiles, textiles, etc. This exposure makes me feel like an Engineer, who can create solutions for problems.



प्रवास आत्तापर्यंतचा



-Mr. Mahesh Gound
(Asst. Librarian)



अगदी लहानगा होतो, माझे वडील SPCE मध्ये Machine Attendant म्हणून काम करत होते. लहानपणापासून SPCE Staff Quarters मध्ये राहायला होतो. अवघ्या वयाच्या पाच वर्षापासून SPCE च्या सानिध्यात आहे. विश्वास बसणार नाही पण १९७५ पासूनचा हा प्रवास ... गोष्टी कळत नव्हत्या तरी ही वळवून घ्यायची भारी होस. मला आज ही ते पूर्वीचे दिवस आठवतात.... College Festival, Annual day..... पण खर सांगायचं झालं तर तेव्हा आणि आत्ताच्या परिस्थितीत जमीन-आसमानचा फरक आहे. तेव्हा आत्ता सारखी technology नव्हती, ना ही झगमगाट पण सगळं काही साधेपणात नटत आणि भलतच आकर्षण ते.

पूर्वी College Festival ३-४ दिवसांसाठी असत, विद्यार्थ्यांचे ऑर्केस्ट्रा, नाटक कलाकारांचे सादरीकरण, गाणी, नृत्य, एकपात्री नाटिका, पडद्या वरचे ते चित्रपट आणि बरच काही...तेव्हाची गोष्टच निराळी होती, बहुतेक शिक्षक, शिक्षकेतर कर्मचारी Hostel मध्येच राहायचे. सगळे एका कुटुंबाप्रमाणे बांधले गेले होते, त्यामुळे कधी कोणत्या गोष्टींची कमतरता वाटलीच नाही.

पण आत्ता बऱ्याच गोष्टी बदल्या, बहुतेक College staff तसेच विद्यार्थी २ ते ३ तास लांबून प्रवास करून येतात. परतीच्या प्रवासाची सोय संध्याकाळी अवघड होऊन जाते, म्हणून नाईलाजाने त्यांना Annual day ला मुकावं लागत. वेळेची बंधने, घरी वेळेत पोहचण्याची चिंता, train सुटेल या गोष्टीची भीती, त्यामुळे कोणाला या कार्यक्रमांनासाठी थांबणे शक्य होत नाही.रेडिओ सोडले तर आधी मनोरंजनाची साधने नव्हती, त्यामुळे या सांस्कृतिक कार्यक्रमांकाचे लोकांना वेड होते आत्ता Mobile आल्यामुळे सगळ्यांच्या आवडी निवडी बदलल्या.

कार्यक्रमाच्या निमित्ताने विद्यार्थ्यांचे पालक कॉलेज ला भेट द्यायचे, कॉलेज च्या प्राध्यापकांना भेटायचे. आत्ता मात्र Engineering ची ४ वर्षे होऊन जातात पण पालकांना आपल्या पाल्याच्या कॉलेज ला भेट द्यायला वेळच नसतो.

त्याचप्रमाणे आधी कोणती बंधने नव्हती, जास्त धाक नाही त्यामुळे बऱ्याच लोकांना या कार्यक्रमांची मज्जा लुटता यायची. आत्ता कॉलेज मधल्याच लोकांना Campus मध्ये ID Card शिवाय येता येत नाही.खरंच आत्ता ना सहवास राहिला ना सहभाग.....

थोडं आत्ता माझ्या बदल सांगायचं झालं तर माझं सगळं शिक्षण याच वातावरणात झालं, BMC शाळेत शिकलो ५वी ते ७वी पर्यंत तर SPCE च्या विद्यार्थ्यांनी मला शिकवलं. गुरु ही तेच आणि मित्र ही तेच. त्यांच्या सोबत खेळ, अभ्यास आणि खूप काही....

८वी नंतर च शिक्षण मोफत नसल्याकारने बाबा म्हणाले पुरे आता ... खरतर परिस्थिती चे बोल होते बाबांचे नाही.पण याच संस्थेतील एका निवृत्त झालेल्या साहेबांनी माझी फी भरली आणि त्यांच्या मदतीमुळे मी माझं १२वी पर्यंत च शिक्षण पूर्ण केलं. मला त्यांचं नाव देखील माहित नाही फक्त माझ्या बाबांना माहित होत....

८वी, ९वी, १०वी मध्ये इथे माजी प्राचार्य. Dr. R.S.Mate होते त्यांनी मला इंग्रजी व गणित हे विषय शिकवले कारण तेव्हा शिकवणी नावाची गोष्टच नव्हती, Mechanical Department मध्ये बसून मी अभ्यास करायचो.

१०वी झाली त्यानंतर मला काय करायचं हे कळेनाच, Science काय ? Commerce काय? Arts काय? काहीच माहित नव्हतं. कारण घरी कोणीच शिकलेलं नव्हतं. आपल्या कॉलेज मध्ये तेव्हा प्रबंधक होते श्री. बी. एम. गांधी त्यांच्या मुलाने commerce घेतलं होत म्हणून बाबा म्हणाले तू देखील तेच घे... जेणेकरून पुस्तकांची सोय होईल. शिक्षण घेताना एकमात्र भीती होती कि आज अभ्यास करतोय उद्या करायला मिळेल ना ... फीस भरल्या जातील ना जणू काही अंधार वाट आहे आणि हातात कंदील पुढे अंधार मागे अंधार जिथे उभा आहे तिथेच फक्त प्रकाश ... पाऊले पुढे पडत गेली प्रकाशाने ही साथ दिली.

शिक्षण पूर्ण केलं आणि इथेच नोकरीला लागलो, मग मिळकत येऊ लागली कुटुंबाची आर्थिक परिस्थिती सुधारली. अभ्यासात हुशार होतो म्हणून पुढे शिकायची इच्छा व्यक्त केली, पण बाबा नाही म्हणाले मग या संस्थेतील लोकांनीच माझा B.com चा form भरला. First Year ला असताना बाबा सोडून गेले. बाबा आजारी असताना treatment चा सगळा खर्च इथल्या लोकांनी केला मला कुठे ही खूब दिल नाही. पुढे बाबांची जागा या संस्थेतील लोकांनी घेतली. त्यांची उणीव कधी भासू दिली नाही.अशी मदत आणि हा जिवाळा पाहायला आणि अनुभवायला मिळणं अशक्य. त्या करिता मी कॉलेज साठी सदैव ऋणी राहील.

B.com च्या पहिल्या वर्षला असताना मला गणित हा विषय अगदी कठीण वाटत होता तेव्हा प्राध्यापक Dr. A. N. Bambole व Dr. G. T. Thampi यांनी Matrices, Differentiation, Integration चा पाया मजबूत केला. कुठे ही काहीही अडलं कि मी लगेच कोणत्या ही विद्यार्थ्याला विचारं, कोणी कधी तक्रार नाही केली, उलट त्यांना माझी अभ्यासाबद्दल ची जिज्ञासा आवडे. पुढील Career च्या वाटचालीत Librarian श्री. संजय सावंत सरांनी मार्गदर्शन व प्रोत्साहन दिल.

आज जी काही शैक्षणिक मालमत्ता मी कामवाली आहे त्यात उपरोक्त नमूद केलेल्या लोकांचा मोठा हातभार आहे. या लेखातून त्यांच्या पर्यंत माझी ही कृतज्ञता पोहोचावी ही भाबडी इच्छा.

अश्या बऱ्याच छोट्या छोट्या गोष्टीतून आनंद मिळत राहिला. अनेक उन्हाळे, पावसाळे मी व SPCE ने एकत्र पहिले आमचा हा प्रवास शब्दात मांडणे कठीणच पण हा छोट्यासा प्रयत्न

TESA Committee

2021~22

TESA-SPCE took the initiative for the academic benefit of SPCE students for the National level One Week online course “Operation & Maintenance Best Practices: Heavy-Duty Machinery” organized by ADANI Dahanu Thermal Power Station (ADTPS), Dahanu and Adani Institute of Infrastructure Engg. (AIIE), Ahmedabad from 21-25 June 2021. A total of 110 students of SPCE participated in this Industry based course.



Certificate of Participation was awarded to all 110 students of SPCE for successful completion of the course. Certificate of Merit was awarded to 70 out of the total 110 SPCE students based on their performance in MCQ Test conducted by ADTPS. 08 students of SPCE secured Top 12 Ranks in this test and will be admitted for Four Week FREE Internship at Adani Dahanu Thermal Power Station. Prof. Parag K. Muley, TESA-SPCE co-ordinated for this course.

TESA-SPCE organised an online program to celebrate Teacher's Day-2021 on Sunday, 05 September 2021. The program was enthusiastically attended by 85 students of SPCE.

Dr M.M. Murudi, I/c. Principal, SPCE addressed the students and faculty on 'Changing scenarios in engineering education.' Dr. N.V. Deshpande, Former Director, NIT Silchar delivered his keynote address to the students and faculty on 'Role of Teachers and Students for Quality Education in Modern India'. Dr. S.S. Umale, Head (Mech.), Dr. A. A. Bage, Head (F.Y.), and Prof. Parag K. Muley, TESA-SPCE shared their valuable thoughts for students.

TESA-SPCE organized an online program to celebrate the 146th Birth Anniversary of Sardar Vallabhbhai Patel on Sunday, 31 October 2021. The program was enthusiastically attended by 140 students of SPCE.

Dr. S. B. Rane, Dean-Academic, Dr. R.B. Buktar, Professor, Mech. Engg. Dept. and Prof. Parag K. Muley, TESA-SPCE addressed the students about the great contributions of Sardar Patel.

TESA-SPCE was incepted on 31 October, the birth anniversary of Sardar Patel in the year 2017. Students Samyak and Mandar shared a presentation and video of activities by TESA-SPCE for SPCE students.

CEA Committee 2021~22



Civil Engineering Association {CEA} is a committee consisting of Third Year students, supported by a Coordinator Team from the Second Year students and Faculty Members of the Civil Engineering Department. We work with a vision for the welfare of students. The committee works hard to fulfil the co-curricular requirements of students throughout their academics with the help of the CEA committee advisor and Ex-officio Prof. S. J. KUMBHAR and under the guidance of Dr. M. M. MURUDI, Head of Department.

It involves organizing various activities which enhance the knowledge of students and also improve technical, communication, and managerial skills, apart from the curriculum and academics of the college.

MEMBERS OF CEA COMMITTEE 2021-22:

- Vaibhav Gawande (General Secretary)
- Janhavi Patil (Site Visit & Creative Head)
- Chetan Rokade (Site Visit & Creative Head)
- Sudhir Deore (Social Event Head)
- Ayush Jaiswal (Social Event Head)
- Vyanktesh Shukla (Sports Secretary)
- Sayyed Tallha (Sport Secretary)

VARIOUS ACTIVITIES ORGANIZED BY CEA COMMITTEE 2021-22 ARE AS FOLLOWS:

AAGAZ - Introductory session was organized for the students of the first year as well as the direct second year to get acquainted with the civil engineering department and to build the interaction between each other.

AUTOCAD WORKSHOP - The workshop was conducted to enhance the technical knowledge of students regarding AutoCAD with hands-on experience of the actual software.

NISARGVEDH - Trek was organized to KOHOJ FORT to take a short break from the busy schedule of college to get some thrilling and adventurous experience.

SHIVJAYANTI - Shivaji Jayanti was celebrated to mark the glorious journey of Chhatrapati Shivaji Maharaj

CEA CUP - Annual Sportsfest of Civil Engineering Department was organized wherein various sports were held for all the year from 1st to 4th year. Various sports like cricket, volleyball, football, tug of war, throwball, table tennis, carrom, chess etc were organized.

The committee is and will always be determined to organize various events and activities to enrich the knowledge of students that will contribute to overall development of students.

EESA Committee 2021~22



The Electrical Engineering Association {EESA} is a committee consisting of Third Year students, supported by a Coordinator Team from the Second Year students and Faculty Members of the Electrical Engineering Department. We work with a vision for the welfare of students.

MEMBERS OF EESA COMMITTEE 2021-22:

1. General secretary - Yash Khiste
2. Technical Secretary - Aparna Pathak (Reporting Authority) Sagar Patil, Shravan Sutar
3. Financial Secretary - Sameer Kurkure (Reporting Authority), Aditya Prakash, Sourabh Mhetre
4. Non Technical Secretary - Aditi Chemburkar (Reporting Authority), Akshad Ganachari
5. Sports Secretary - Pralhad Jadhav (Reporting Authority), Nikhil Dhage, Sneha Dagade
6. Magazine Secretary - Gaurav Meshram (Reporting Authority), Ruchira Jadhav

VARIOUS ACTIVITIES ORGANISED BY EESA COMMITTEE 2021-22 ARE AS FOLLOWS:

EESA CUP SPORTS EVENT:

The EESA Committee 2021-22 conducted an online IPL quiz from 21st September to 15th October, that is, during the second phase of the ongoing IPL 2021 for all cricket enthusiasts. The event was conducted on our official EESA Instagram account (@eesa_2021_22). Lucky winners were decided by consistency throughout the whole event. There were various events in the EESA Cup, outdoor as well as indoor! Events like cricket, volleyball, football, table tennis, chess, carrom, etc. were organised by the EESA Sports Secretaries under the EESA Cup.

ELECTRICAL SOFTWARE WORKSHOP:

The EESA Committee held an Electrical Workshop for second-year students on 25th September 2021. It was hosted in the online mode on Google Meet. The aim was to make students aware of the basic software which will be essential for them as an Electrical Engineer. A total of 55 students participated in the event. Students were taught about various essential software like LTSpice, Circuitverse, SEQUEL, PROTEUS, Matlab Etc.

MEME COMPETITION 2021-22

The Meme competition was a 5-Day event, from 15th October to 19th October 2021. Participants submitted their memes which were posted on EESA's Instagram account. A winner was selected each day based on the number of likes and judgement by the EESA Committee.

EESA 2021-22 INTRODUCTORY MEET FOR FIRST YEAR STUDENTS: EESA 2021-22 organised an introductory meet for First Year Students of Electrical Engineering on 16th January 2022, on Google Meet. They explained the importance and meaning of EESA. They introduced the faculty and committee members to freshers and gave a quick overview of events conducted by the committee, technical workshops and fun events, and explained about the Industrial visits conducted by EESA. The members of EESA Committee gave a brief introduction to the upcoming events that would be organised for electrical students like technical workshops, non-technical events, webinars, sports events and explained about this year's EESA magazine.

CALCULATOR WORKSHOP:

The EESA Committee conducted an online calculator workshop on 23rd January 2022, hosted by the Technical Secretaries. A total of 45 students participated in the event. The main aim of the event was to let the students get a know-how of ways to use the scientific calculator. They were taught about different applications present in a calculator, like Matrix calculation, Hexadecimal to Binary conversions, etc. The overall event was a huge success.

EESA also conducts various types of social activities.

MESA

Committee

2021~22



MESA is a collegiate organization which stands for Mechanical Engineering Students Association. MESA is among the most active student bodies in the institute. Every Mechanical Engineering student beginning from the first year to the final year in the program at SARDAR PATEL COLLEGE OF ENGINEERING (SPCE), MUMBAI is a member of MESA. Mentored by Prof. Megha Janbhandu (Faculty Head, MESA) and Dr. Sudhakar Umale (Head of Department, Mechanical) experienced faculty members of the Mechanical Engineering department, students take upon many initiatives that prepare them to face the challenges of the future. The department newsletter also sees significant contributions from MESA.

• OBJECTIVES OF MESA

To promote interaction between academia and Industry by providing industrial visits, special lectures and facilities in industry training
Promoting interest of students in various technical areas pertaining to mechanical engineering
To bring about the technical development of students by organising seminars, workshops and other activities.

MEMBERS OF MESA COMMITTEE 2021-22:

- Ashish Patil (General Secretary)
- Piyush Dhattrak (Co-General Secretary)
- Aditya Akhegaonkar (Head Of Events)
- Aniruddha Sankhe (Co-Head Of Events)
- Aniruddh Nangare (Treasurer)
- Shivam Jha (Treasurer)
- Harikishan Patil (Sport Secretary)
- Vrushali Ranadive (Sport Secretary)
- Abhishek Rathod (Magazine Secretary)
- Aditi Lohar (Magazine Secretary)

• Various activities and events held by MESA (2021-22) :-

- 1) Webinar on technical paper writing : Guest speaker DR. AJAZ AHMED DELIWALA guided everyone about understanding and correctly writing the technical paper which is mandatory in future.
- 2) Blood donation camp:- Legacy of donating blood was continued to make students aware of its importance
- 3) Women's Day Celebration:- Along with the ladies representative of student council, the committee was also involved in celebration of women's day. Various games and events were held.
- 4) Trek:- Apart from the college busy schedule, trek was held as a fun and adventurous activity to Karnala bird sanctuary.
- 5) Research symposium:- The final year project plays a very crucial part in a student's life. A lot of things depend on it, and it will be used as a benchmark by job recruiters too. During the course of your project, there will be many crossroads that students might face. So every faculty of the department guided the students about research study.

SPCE AD 2021

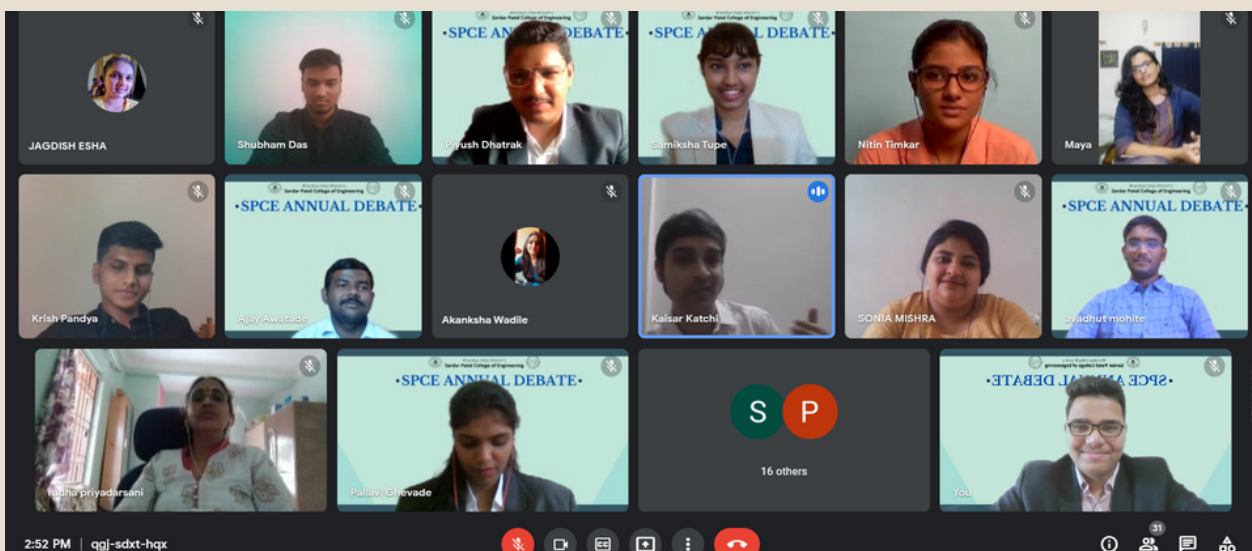
"It is better to debate a question without settling it than to settle a question without debating it"

With this note, Sardar Patel College of Engineering hosted its Annual Debate on the 23rd and 24th of October 2021 via online mode.

Even in such unfavourable and unpredictable conditions, the SPCE Annual Debate received a huge as well as positive response from the students and debaters all over the country. Not only this, it would be a great pleasure to mention that this year we had two debaters, each from USA and Dubai. We were happy to host 32 teams who competed against each other in this two-day event.

Day 1 started off by conducting the lamp lighting ceremony. We were overwhelmed to have such adjudicators for the Annual Debate. Further, the preliminary rounds took place wherein the participating teams had to face each other in back-to-back debates. The highlight of the event was the refutation round, as a volley of questions were answered confidently by both sides, inviting counter questions which were aptly answered by witty and vivacious speakers. The session was a kaleidoscope of opinions, thoughts, ideas, and perspectives that definitely enhanced the knowledge and understanding of the topic among students. By the end of day 1, we got our 8 teams that were set to compete in the quarterfinals.

Day 2 was scheduled to witness the quarterfinals, semifinals, and finals. We had the debates lined up for the same. The competition was worth enjoying for the audience. Every debater was cheered and clapped up for their pleasing presentation and sharp arguments. The top two teams paved their way to the finals with their amazing debating skills. The most nerve-racking yet important task of judging the finals and declaring the winner was done by our esteemed adjudicators – Kaisar Katchi Sir and Soniya Ma'am. The winners were announced by our esteemed adjudicators in the virtual meet. The adjudicators and the participants who were a part of the SPCE Annual Debate 2021 shared their appreciation for the organization as well as the execution of such a thought-provoking event. This competition was conducted to bring out the talent within the students with an aim to provide a platform where they can put their oratory skills to use. With a vote of thanks by one of the organizers, we drew curtains to the SPCE Annual Debate 2021.



BIOMIM

- Biomimicry brings relief
- Biomimicry changes our lens on the world.



AIRPLANE

Airplanes began to use biomimicry as a concept. Engineers looked at eagles and mimicked their wings, shape and mode of flying. After some time, men were able to form airplane wings and bodies that looked almost like a bird. problem that had existed in the world. Human beings needed a way to move from continent to continent, and he used the shape of an animal to inspire.



VELCRO

While hunting in the Swiss Alps with his dog, George de Mestral noticed that burs in the woods stuck onto his clothes and his dog's fur. After further examining the burs, he noticed that its surface was made up of many tiny hooks. They stick to things by intertwining these hooks into the loose makeup of surfaces like fabric and animal fur.



WIND TURBINE

The turbine is equipped with a pair of flapping wings that are over five feet long and move in a figure-eight motion – just as a hummingbird flaps its wings while hovering. The design allows the turbines to generate energy on both the upstroke and the down stroke. It is a Tunisian startup that has pulled inspiration from hummingbird wings for a new wind turbine design.



THE
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The chief engineer
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BIOMIMICRY

- Biomimicry helps us design generously.
- Biomimicry gets us to sustainable solutions faster.

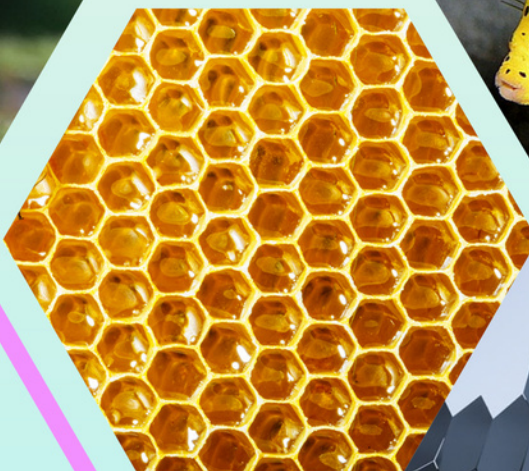
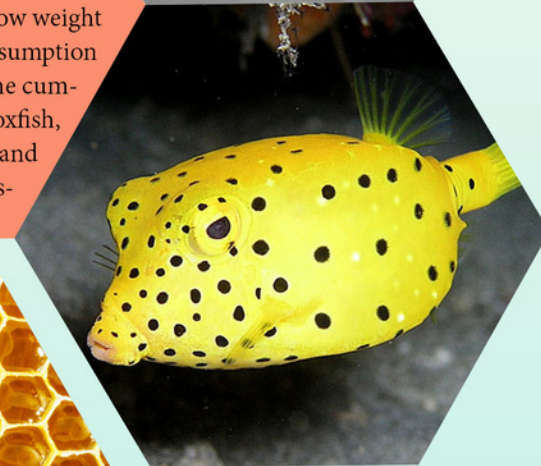
SHINKANSEN

In the 1990s Japan used biomimicry to design a new type of train. The Shinkansen had been using a tremendous booming sound when it exited the tunnel. Engineers were able to solve this problem by looking at one of their favorite birds: the kingfisher. The kingfisher is a small bird with a long, sharp beak that dives into the water to catch its prey.



BIONIC CAR

In 2005, inspired by the great structural strength and low mass of the boxfish, Mercedes Benz developed the Bionic Car, which reported to reduce drag, have great rigidity, low weight and a significantly lower fuel consumption than traditional cars. Despite the cumbersome appearance of the boxfish, it has a low flow resistance and a drag coefficient of an astounding 0.06.



HEXAGONAL BUILDING

The ancient Greeks understood that modular hexagonal honeycomb makes the most storage possible with the least amount of material. Architects and designers are tapping this for all sorts of applications. A hexagonal honeycomb is the way to fit the most area with the least perimeter." From a bee's perspective, that means storing more honey in a larger volume.



SPCE RACING



Evolving Day-by-day

The official formula student team of Sardar Patel College of Engineering, SPCE RACING is one of the three prestigious technical clubs of SPCE Mumbai. The team researches, designs, manufactures and tests life-size Formula-style race cars, all by college students across all four years and our faculty advisor. This club was initiated by a group of motorsports enthusiasts in 2010, united by a common passion and steered ahead with one goal - to make a name for the team and start a legacy, revered to date. The team participated in BAJA - the dune buggy competition and has been going from strength to strength since then by winning laurels in BAJA, SUPRA, and the most recent being Formula Bharat.

Formula Bharat (FB) is a part of Formula Student competitions held globally in the UK, Austria, Germany, and more. The event witnessed over 80 student-run teams proving their mettle in design methodology, manufacturing feasibility, and business mindset along with the dynamic performance of the car over 5 days.

Since their advent, the team has had numerous successes in the competitions they have participated in and yet, irrefutably, are hungry for more. A few notable mentions are: winning the 1st overall INDIA at Formula Green Concept 2021, Ather Energy System intelligence awards Runner up at FB22, 2nd in Procurement 3rd in Management at FSEV 2020 Runner-ups in Business Plan at FB 2021, and Fuel Economy Award at SUPRA 2016.

“Our vision has always been to look down the road, and we are very keen to do our part in the worldwide switch to Green Mobility for combating global warming”, says Pushkar Raut, the Team Captain ‘2021-22. The team is now working tirelessly to get the first EV prototype ready for the track for 2023.

Our Achievements

FORMULA GREEN 1ST OVERALL

COST EVENT FG 2021 WINNERS

ENGINEERING DESIGN FG 2021 WINNERS

BUSINESS PLAN FB 2022 EV FOURTH

BUSINESS PLAN FG 2021 WINNERS

SYSTEM INTELLIGENCE FB 2022 EV
SECOND



SPCE ROBOCON

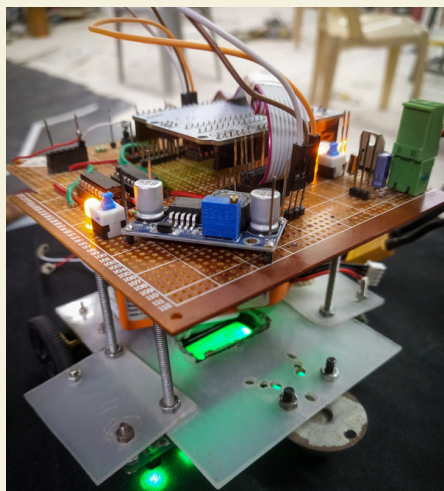


Making Intelligent Innovations



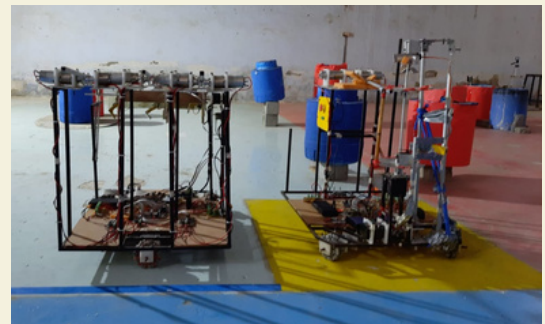
The Sardar Patel Automation and Robotics K'lub has been fabricating fantastic and innovative mechanisms by students according to the theme of various robotics competitions. SPARK provides a platform for students to emerge in the field of robotics. The club participates and represents the college in various national-level competitions like DD Robocon India, IIT Bombay Techfest, VJTI Technovanza, SPCE technical fest (SPECTRA) etc.

This year, the club's work resumed in October 2021, with necessary permission from the college, along with utmost vigilance to follow the COVID-19 safety protocols. The club, even during the pandemic, has achieved remarkable accomplishments.



Meshmerize

- AIR 19 in DD Robocon 2021, held online this year. In this, the robots compete to throw arrows into pots. The game is between two teams- red and blue. Each team has the luxury of using two bots namely- defensive robot(DR) and throwing robot(TR).



DD ROBOCON 2021

The collective task of the two robots of the teams is throwing arrows into pots placed on the tables and restricting the opponent's bots from doing the same.

- 2nd and 3rd prize winners in Arm-a-Bot under SPECTRA 2022

In which a robot of specific dimension was tasked to pick and place specific objects after overcoming hurdles.

- 1st prize winners in Circuit Verse under SPECTRA 2022. In which a problem statement was given and students had to design a solution circuit and develop a prototype to provide a solution.

This year the club is set to participate in DD ROBOCON 2022, the theme for which is Lagori and the competition method will be Preliminary League and Final Tournament. We will continue to provide a healthy environment for students to pursue their interest in mechanical, circuitry and programming through various ingenious and innovative projects in robotics.



SPCE WAVE

#Together we fly

The academic year 2021-22 started off in the online mode as a result of lockdown, but soon everything returned to normal with the restart of offline activities. SPCE W.A.V.E. (Wing of Aerial Vehicle Engineers) had been actively participating despite the lockdown; continuously improving designs and learning advanced techniques.

SPCE W.A.V.E. participated in the Aero Modelling competition of IIT Bombay's Techfest, the mission objective of which was to conceptually design an Aerially Launched – Vertical Take-off and Landing Aircraft (AL-VTOLA). Round 1 of the competition was to submit an abstract of the design which ended on 19th December and we are proud to announce that all of our teams qualified for the final round.

Currently, the club is working on the SAE Aero Design Challenge competition that will be held in July 2022. Preparations began in November 2021 and 2 teams, AeroRangers and AeroTrails comprising of 2nd and 3rd year students are participating in the Regular Class of the competition. The mission objective is to design and manufacture an aircraft that would lift maximum payload while being within the dimensional constraints.

The procedure involves preliminary analyses followed by CAD modelling and finally the manufacturing of the actual plane itself. The teams attended the SAE workshops that were held in the online mode on February 5th and 12th, and we were able to learn a lot.



Simultaneously, the club continuously participated actively in competitions and events like the Air Crash Investigation event of MIT. The participating teams would be given a fictional air crash scenario and would be asked to submit a report and deliver a presentation, justifying their theory. Our team qualified till the final round and we were among the top 6 teams out of 27.

Our aim for the upcoming year is to perform well in the SAE competition and our vision for the future is to represent India at an international level. SPCE W.A.V.E. will continue working and flying higher so that we can achieve success for our members and our college.

The club is thankful to our faculty advisor, Dr. R. S. Maurya, who has been instrumental in our success, by providing us technical as well as moral support throughout our journey and has motivated us when times were tough.



“What is the use of a house if you haven't got a tolerable planet to put it on?”

“ Sustainability is imperative”

Green Chapter was revived and inaugurated as Sardar Patel Sustainability and Green Initiative Chapter (SPSGIC) on 21st November 2021 by Shruti Sheth and under the guidance of the Chief Coordinator of the chapter, Dr Hansa Jeswani, and constructive contributions from the faculty coordinators, Dr Reshma Raskar Phule, Dr Swati and Mr Haseen Sheikh.



Students of the chapter regularly participate in the Beach cleanup drives in collaboration with Mr. Afroz Shah at Versova Beach. Along with physical actions, SPSGIC has also been actively conducting seminars, where distinguished personalities in the sustainability space, interact with the members of the chapter. The committee did a session on the “Introduction to Sustainability”, where we elaborated on tips about how to be more sustainable as college students and apply them in our day to day lives. Also an Introductory Session of the Indian Green Building Council “IGBC Student’s Chapter” was held on 27th Jan 2022.

SPSGIC has also collaborated with other committees in SPCE, in one instance collaborating with the Rotaract club of SPCE in a clothes donation drive, where the used clothes were either donated to the needy or others were sent for recycling.

The E-Waste drive was conducted from 5th April till 19th April 2022. The students and the staff were encouraged to donate their E-waste to the designated pickup point arranged by the chapter. The inventory of the college E-waste has also been cleared and the e-waste was recycled by an MPCB-certified E-waste recycler. Sardar Patel College of Engineering is the **first engineering college** to conduct an E-waste



drive and obtain a green certificate from MPCB for the same.

SPSGIC constantly interacts with the community on social media platforms and informs the students about how students can change their everyday conduct to achieve a sustainable lifestyle.

SPSGIC is conceived with a vision to spread awareness in regards to sustainability and green living among the students, this is being transformed into actions by the activities that the chapter is carrying out regularly. We aim to make this college more green and promote students to incorporate sustainability in their respective fields.

IIIE-SPCE Student Chapter

IIIE-SPCE Student Chapter, since its formation on 13th January 2020 has strived hard to create excellence in the all the best possible ways. IIIE-SPCE, in the past event has collaborated with esteemed organisations like SAEINDIA WS, ARAI, Elite Consulting Engineers.

Facutly advisor of IIIE SPCE Student Chapter is Dr. Santosh Rane,Dean Academics SPCE. He works relentlessly for the development of the students and the institute. Dr Santosh Rane had put in lot of efforts to make every program under IIIE-SPCE Student Chapter successful.IIIE SPCE Student Chapter has always deployed Think Big Strategy! and also further proved the motto with perfect execution. Few Programs including the transfer of knowledge in terms of technology, not only had a theoretical background, but the Student Chapter ensured that things were practically done. Covid didn't stop the Student Chapter to transfer practical knowledge to the audience/participants. No one was restricted to acquire knowledge and skills through programs organized by the Student Chapter. Everyone has access to all the sessions through You-tube, anytime as and when desired. Thus, the Student Chapter has made it sure that the sessions not only during the workshop tenure but for lifetime would be available to everyone.

Mr. Mayank Bhaleroa (Chairperson 2021) elected Ms. Gayatri Patil as Chairperson of year 2022. Under her leadership IIIE SPCE Student Chapter has conducted 6 webinars on diverse fields along with 2 major national level workshops and 2 FDPs. IIIE SPCE Student Chapter also played a vital role in the inauguration of SAE INDIA Mumbai Chapter. The details of the Programs is listed below

SR.NO	Name of the Program	Date	Collaborators
1	National Level Webinar on Unlocking the Industrial Potential of Digital Twin	26th June 2021	SAEINDIA WS
2	National Level Webinar on Need of human Value in Present Scenario	6th September 2021	IEEE SPIT
3	FDP on 3D Printing and Design	20th-24th September 2021	SAEINDIA WS
4	National Level Webinar on Intelligent Condition Monitoring using AI	19th October 2021	ATAL
5	National Level Webinar on Composite Materials for 3D Printing	27th October 2021	SAEINDIA WS
6	FDP on Excellence in Higher Education: Perspective of NEP	18th – 22nd Dec 2021	SAEINDIA WS
7	FDP on 3D Printing and Design	20th-24th Dec 2021	FELA
8	National Level Webinar on New Product Development	24th Feb 22	SAEINDIA WS
9	SAE INDIA Mumbai Chapter Inauguration	7th March 22	ATAL
10	Program on Static and Fatigue Analysis of Engineering Systems using ANSYS	14th – 19th March 22	SAEINDIA WS

The Indian Institution of Industrial Engineering Mumbai Chapter had organised Award Ceremony on 2nd October 2021.The motive behind the function was mainly to appreciate the efforts put in by all the IIIE Student Chapter in Mumbai.The award function was successful in motivating the Student Chapters to work with more zest and enthusiasm. The Program witnessed the presence of dignitaries like Dr Sanajay Bokade, Dr. D.V.Bhagat along the faculty members of all the active Student Chapters in Mumbai.

IIIE-SPCE Student Chapter was successful in achieving three awards,

- Excellent Award Faculty advisor
- Best Flagship Event Award
- Excellent Award Student Chapter





THE INTERNSHIP CELL

“We aspire to encourage every student to venture beyond classroom learning, propelling them forward on their path to be exemplary ‘Engineers of the Future’”

Dr. Santosh Rane serves as the Founder of The Internship Cell & Dr Rahul T. Dahatonde serves as a faculty advisor for all the activities of The Internship Cell in SPCE. Sejal Dangi and Sharada Gavade envisioned the Internship Cell in March 2020 - in their final year of studies at the Mechanical Engineering Department of Sardar Patel College of Engineering. Having completed five internships between the two - within the academic and the industrial sector - they appreciated the role played by internships in developing a student's overall profile. They brainstormed an action plan that will not only make fellow SPCEians aware of the value of internships but also assist them in acquiring internships at national and international levels. Guided by the mission to set SPCEians at par with engineers graduating from other nationally acclaimed universities and with enthusiastic support from students at SPCE, they started The Internship Cell. The Internship Cell currently constitutes of 14 dedicated committee members which are led by Ms Aparna Pathak from Third Year B.Tech Electrical Engineering Department & managed by Mr. Aryan Pawar from Second Year B.Tech Electrical Engineering Department.

Remarkable Activities by The Internship Cell:-

- Developed a dynamic database of about 100+ national and international internships.
- Guided about 700+ students on Resume, CV, Networking, LinkedIn, Cold Emailing and Profile building in just a span of just 2 years.
- Weekly sharing of Career Resources articles covering all aspects of student life - ranging from writing cold emails to managing your finances, preparing for competitive exams & much more via LinkedIn & Instagram Page.
- Developed a comprehensive guide to finding undergrad internships, after spending approximately a year curating articles & resources to help students find internships.
- Conducted 17+ Bi-Monthly Webinars featuring SPCE Alumni to guide students on placement procedures of different companies, applying for master's, PhD preparations, Careers in R&D, GATE preparations (IIT & IISc), MBA-GRE-GMAT-TOEFL Preparations, etc.
- The Internship Cell in association with ‘Spectra- The Fest’ organized a two-day workshop to gear up the profile of all technocrats on “Making Internship Search Easier” with the Experts of the Talent Acquisition Team of TVS Motors.
- Developed the official website of The Internship Cell (<https://www.spceinternshipcell.in>) so students can take advantage of all career resources, and internship guides, and learn from the experiences of industry professionals through this one platform!

Alumni Discussion Series #8: Preparing for MBA Admissions

Rishabh Somani: IIM Indore
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A glimpse of SPORTS at SPCE

MESA Cup



EESA Cup



CEA Cup



Sports remain an integral part of college life here at SPCE, as we organize numerous tournaments like SPIRIT, EESA, MESA, and CEA-CUP, this year-round. This year, SPIRIT was conducted online due to COVID situation. Many students also represented the college in various sports.

-Sports Secretaries

Indoor



Outdoor



Spirit

1	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals
	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals
	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals
2	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals
	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals
	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals
3	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals
	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals
	Team 1: HUNTER	0 Goals	Team 2: HUNTER	0 Goals

Induction





Speakers Club

Speakers club of Sardar Patel College Of Engineering is a Club where people are taught how to Communicate Effectively, have different approaches to things, Former President of the Speakers club, elected Mr. Jeet Upadhyay as the President to continue the journey of this club so that and it can continue to do the welfare of all student of SPCE.

The Sessions which were taken by Mr. Jeet during the lockdown period for the first-year students were on the topics like Storytelling, Group discussions, Extempore, and Debate. There were roughly 25+ sessions that were conducted throughout the lockdown period. The task of telling mom & dad that you love them, Debate sessions of Oxford Style, as well as APD style, were conducted to help form a base for improving the structure of making better arguments which are widely helpful in many areas.

Speakers club conducts a wide range of sessions with unique and different topics. The topics are “Ghost Stories” which are conducted through online mode after 10 pm at night, “Roleplay” where everyone has to become a character from a movie/series and play their part in front of all other participants, Brain-storming discussion on random quotes and many more are conducted by Mr. Jeet under Speakers Club. Speakers club isn't just a club, it's an emotion.

The Speakers Club Committee was formed on 27th September 2021 by Mr. Jeet. The first-ever event organized under Speakers Club was on 5th February 2022 named “Extempore competition” which Mrs. Shyamlee Solanki Ma'am changed to “Annual Extempore Competition” looking at the number of participants and popularity it had gained. There were 92 participants in total from all over India in the event. The event was a great success and the Speakers Club Committee worked wonderfully to make it a hit.



मराठी भाषा संवर्धन पंधरवडा

भाषा विभाग, महाराष्ट्र राज्य आणि संचालक, तंत्रशिक्षण, महाराष्ट्र राज्य यांच्या आदेशानुसार, सरदार पटेल अभियांत्रिकी महाविद्यालयात मराठी भाषा संवर्धन पंधरवडा साजरा केला. या संदर्भात कृती समितीतर्फे प्र. प्राचार्य डॉ. एम. एम. मुरुडी यांच्या मार्गदर्शनाखाली महाविद्यालयात 20 ते 28 जानेवारी 2022 या कालावधीत विविध कार्यक्रमांचे आयोजन करण्यात आले होते. मराठी भाषा संवर्धन पंधरवडा या उपक्रमांतर्गत विद्यार्थ्यांसाठी निबंध लेखन, हस्ताक्षर आणि पोस्टर या विविध स्पर्धांचे आयोजन करण्यात आले होते. या स्पर्धा ऑनलाइन पद्धतीने घेण्यात आल्या.

निबंध लेखन. स्पर्धेत सहभागी झालेल्या २० विद्यार्थ्यांमधून खालील प्रमाणे तीन क्रमांक निवडण्यात आले-

- १) प्रथम क्रमांक - श्री ईश्वर निंबोरे
- २) द्वितीय क्रमांक - श्री अजय अवताडे
- ३) तृतीय क्रमांक - कुमारी सई शृंगारे आणि राम मोरलवार

हस्ताक्षर स्पर्धेत ३४ विद्यार्थ्यांनी सहभाग घेतला आणि सुंदर, सुवाच्य अक्षरात परिच्छेद लिहिले. सहभागी झालेल्या विद्यार्थ्यांमधून खालील प्रमाणे तीन क्रमांक निवडण्यात आले-

- १) प्रथम क्रमांक - श्री ईश्वर निंबोरे
- २) द्वितीय क्रमांक - कुमारी सुश्रुषा टकोणे
- ३) तृतीय क्रमांक - कुमारी समृद्धी घुले

पोस्टर स्पर्धेसाठी "मराठी असे आमची मायबोली " हा विषय देण्यात आला होता. श्री प्रणव जोशी, कुमारी आकांक्षा रेडेकर, श्री श्रेयस पाटील, श्री अजय अवताडे आणि कुमारी समृद्धी घुले या विद्यार्थ्यांनी अतिशय कल्पकतेने या विषयावर पोस्टर बनवली.

मराठी राजभाषा गौरव दिवस मराठी स्वाक्षरीचा कार्यक्रम

मा. प्राचार्य डॉ. एम. एम. मुरुडी यांच्या मार्गदर्शनाखाली कृती समितीतर्फे महाविद्यालयात मराठी राजभाषा गौरव दिवस मराठी स्वाक्षरीचा कार्यक्रम 4 मार्च 2022 रोजी पार पाडण्यात आला. उपस्थित मान्यवर आणि विद्यार्थ्यांनी फलकावर मराठी भाषेत स्वाक्षरी करून कार्यक्रमाची सुरुवात केली. . या दोन्ही कार्यक्रमांना संस्थेचे सर्व विद्यार्थी, कर्मचारी व प्राध्यापकांनी उत्स्फूर्त प्रतिसाद दिला |



Voter's day



Induction Program



Women's Day



Prom Night



Pre-Space Sparkle



Prarambh 2k22

Civil



Electrical



Mechanical



SPECTRA 2K22

With the shadows of successful spectra 2021 even during the most difficult strata of the pandemic, we embarked on our journey with the COLLECTIVE AIM of reaching another milestone - a successful SPECTRA 22-Enlightening Minds!

It all began with forming the core committee in the month of September. Setting the budget, chalking out the marketing strategies and managing finances was no less than a jig-saw puzzle, but our collective teamwork was the backbone that put all these pieces in order.

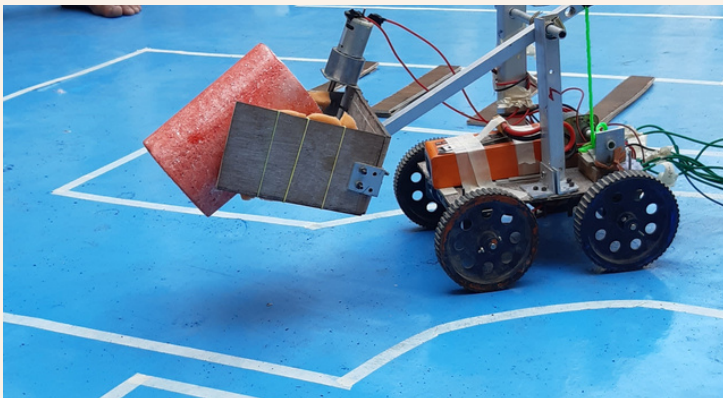
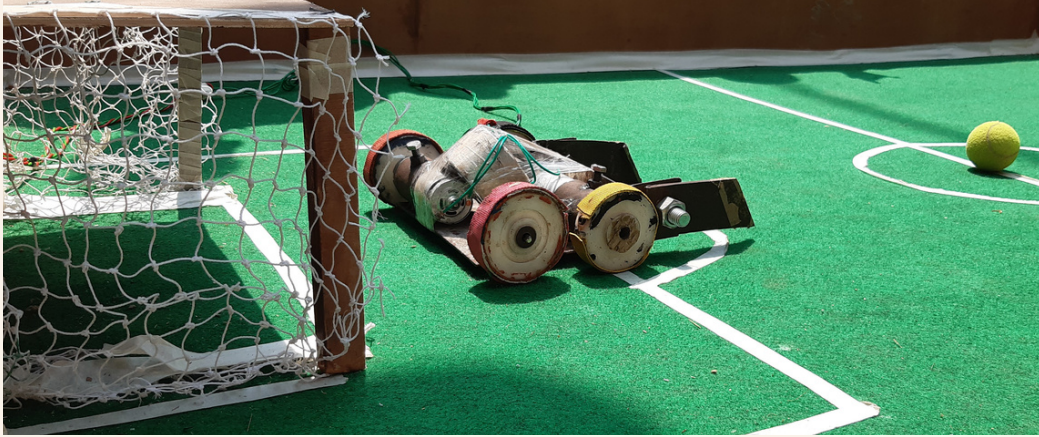
The creative and web design team soon started their work on the poster, rulebook, templates and the official website was launched. Spectra began way before the actual dates which we often call as Pre-Spectra. This is a huge collaborative approach to introduce newer competitions for students to develop and enhance their aptitude and skills to suit the co-operative society. Several events were organized for the very first time like Tech Cup and Tech week wherein 3 core branches fought for the title and individuals scored to showcase their knowledge respectively. A platform was provided to our technical clubs namely SPCE Robocon, SPCE Racing and SPCE Wave so that they could present their work and functioning to everyone.

Until the beginning of 2022, the team were caught in a dilemma of whether to conduct the fest in complete online or offline mode keeping in mind the constraints of Covid-19 but soon we came to decision of conducting it in hybrid mode.

Finally, the D-Day arrived on 5th March 2022 when Spectra started with a fun filled inauguration ceremony in the seminar hall and ended with a professional band night. First day featured major offline and online events from civil and mechanical departments like constructo, ICRC, Tech and ladder, AutoCAD/Cadventure to name a few. Common events like Mock interview, technical paper presentation along with auto-expo were a huge hit with the college.

Day 2 was full of super excitement as in the last 2 years it was for the first time that robotics events were being held in complete offline mode and tech enthusiasts had their best time during those 24 hours. Organizers had put in their 100% to successfully conduct our main events like Roborace, Arm-a-bot, Robosoccer etc which had gathered professional teams from all over India. Similarly food stalls just as others played the role of satisfying the hunger of all those who gave their priceless time by attending the activities going on throughout the day.

SPECTRA 2K22 was a big success as it reached a massive footfall of over 1000+ students which was only possible because of the team spirit shown by all the organizers, committee members and most importantly our guide Mrs Shyamlee Solanki who at every footstep corrected us. Our sponsors deserve gratitude from bottom of our heart for showing their extensive support and encouraging Technical festivals on such a grand scale. And lastly to our Principal, Vice Principal and faculty members who believed in us and gave this huge responsibility on our shoulders. TEAM SPECTRA has taken with it a lot of lessons and experiences which will always live within us and the SPECTRA spirit will keep getting stronger for years to come.



SPACE 2K22

According to the tradition of Sardar Patel College of Engineering, every academic year, the Student Council organizes the Annual Cultural Festival - SPACE.

It hosts aspiring artists in various fields to participate in a highly competitive atmosphere and showcase their talents. This year's edition of SPACE took place from 11th March 2022 to 13th March 2022, widely attended by crowds from across Maharashtra. There were 16 events, sub-categorized into Performing Arts, Literary Arts, and Informal Events. The events were decided by the Cultural Secretaries considering the needs and interests of young engineers, with a balance of fun SPACE 2022, back to college fest after the Covid hit of 2 years started with the lighting of the lamp by our Principal and our chief guest, Dr. Gopal Rai, CEO of one of India's most reputed construction companies - Dhirendra Group of Company. Followed by the inaugural speeches of our Principal and Chief Guest. Later on, the SPACE 2022 was announced to be open after the ribbon cutting at the entrance.

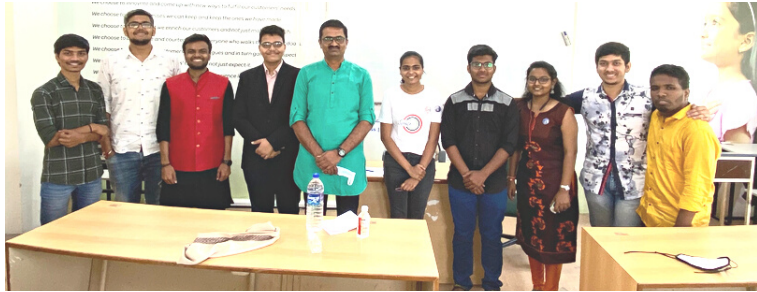
The first event of SPACE 2022 was the 'Vaad Vivaad - Marathi Debate'. Then next was 'Voice it out - English Debate'. The English debate and Marathi debate saw immense participation, with diplomatic speakers presenting their intellectual opinions and arguments on diverse topics. In the evening we had 'Alfaaz' - a monologue event highlighting hidden issues of our society. The night event was a full blockbuster. The first day of SPACE brought the rockstar of Sa Re Ga Ma Pa in collaboration with Ragtime Events. The name of the artist is Prashant.

Day 2 of SPACE started with the final round of Vaad Vivaad and Voice it out. The entrance of our college was full of small informal events like 7 Up 7 Down, Zorbing, and Arm wrestling. Next up was a beauty pageant styled contest 'Mr. and Miss SPACE', for participants from various colleges. It was judged by Marathi actress Sanjana Sharma. Then our fest's fabulous event, 'Vogue Fashion Show' saw fashionistas with vibrant outfits and themes. The judges were Revati Palshetkar, an editorial designer at Pernia's Pop Up show, and an Entrepreneur and Renowned Marathi Actress Ruchira Jadhav.

The third day began with 'Unmute - The Untold Stories', as the name suggests as a platform to share interesting experiences from one's life. Then we had 'Rhyme and Reason' - an open mic event for writers to recite their amazing poetry, shayaris, and stories. Then there was, 'Swaranjali', a singing contest uniting melodious singing talents, which was judged by Aakriti Mehra. Next was another vocal event called 'Beatboxing', judged by two premier beatboxers of India, a battle of vocal strength and beats. The big dance event 'Step Up' received wide participation. Loved by SPCEians - DJ night, was an energetic conclusion of SPACE 2022.

The Student Council, all the core committee members, and organizers were significant in making SPACE 2022 a success, laying an excellent platform for the upcoming editions.

We are thankful to our Principal, Dean Academics Dr. Rane, Chairperson of Student Welfare Committee Dr. Shyamalee Solanki, and all faculty members for their constant support.



Cultural clubs

Spandan

Is the official music club of Sardar Patel College of engineering. This club works as a band consisting of vocalists and instrumentalists.

The club was formed to find passionate musical talents, hone their skills in music and bring the best of their skills.

This club was specially made to develop a melodious and rhythmic environment in the college and was formed in the academic year 2018-2019. Enthusiasm for music laid the foundation of this club. SPANDAN posted videos on Instagram and gave every artist a chance to perform.

In the online mode, workshops were held on how to make individual videos on singing and playing instruments and then merging all the videos with efficient timings. Groups were formed for each and every event which included singers and instrumentalists along with the other members. SPANDAN has participated in almost every event like Navratri celebrations, Gandhi Jayanti, Valentine's day, etc. Every occasion was special for Spandan as it enhanced the club with new talents.

SPANDAN hosted an event, 'Open Mic' in which all the SPCE students were invited to perform. The event was graced by the presence of SPCEians in a large number. Students performed poetry, shayaris, songs, instrument playing, storytelling, etc and it was a feast for all.

Finally, on 6th February, college life began as it should have been, offline! All musicians and singers met each other and introduction sessions were held for all. Since that day, SPANDAN has not stopped. Members performed at events like Republic Day, Shivaji Jayanti, Prarambh, Pre SPACE, and SPACE inauguration. Members of SPANDAN have showcased their expertise in all genres of music, be it Indian Classical, Western, Rock, or Sufi.

SPANDAN aspires to do a lot more activities in college. Organizing workshops wherein audio editing, video editing, and basics of instrument playing and singing will be taught. More open mics will be hosted. Jamming sessions will be held where everyone can join in and sing and enjoy the taste of music, participating in competitions and the most important, SPANDAN Originals, which will be written, composed, sung, recorded, shot, and posted entirely by SPANDAN.

SPANDAN will be always there to deliver quality music content and will continue to entertain SPCE with its rhythmic and melodious performances

Sparkle

The official fashion club of SPCE. This club brings together students and channelises their shared passion for fashion and initiates artistic freedom. This club promotes students to explore their creative selves and create ideas keeping in relevance changing trends and art. The club has evolved and baby steps ensured a bigger and better team this year. Not only do we perform in our own college but represented our college in other fashion show events. We used this opportunity to network with other teams, which helped us develop and express our mutual love for fashion.



Spandan-Pre Space



Republic Day



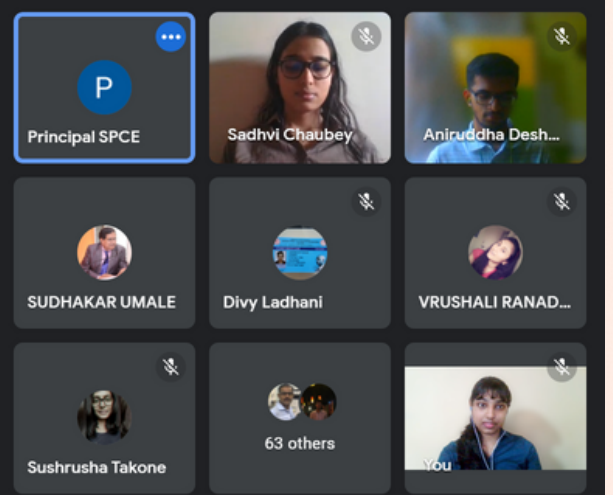
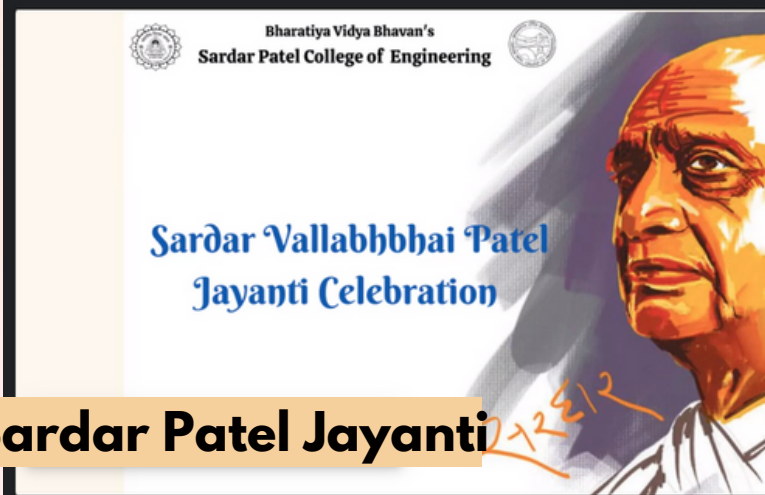
Yoga Day



Bharatiya Vidya Bhavan's
Sardar Patel College of Engineering

Sardar Vallabhbhai Patel
Jayanti Celebration

Sardar Patel Jayanti



Saree Day



Character Day



FIRST YEAR

CIVIL



ELECTRICAL



MECHANICAL



SECOND YEAR

CIVIL



ELECTRICAL



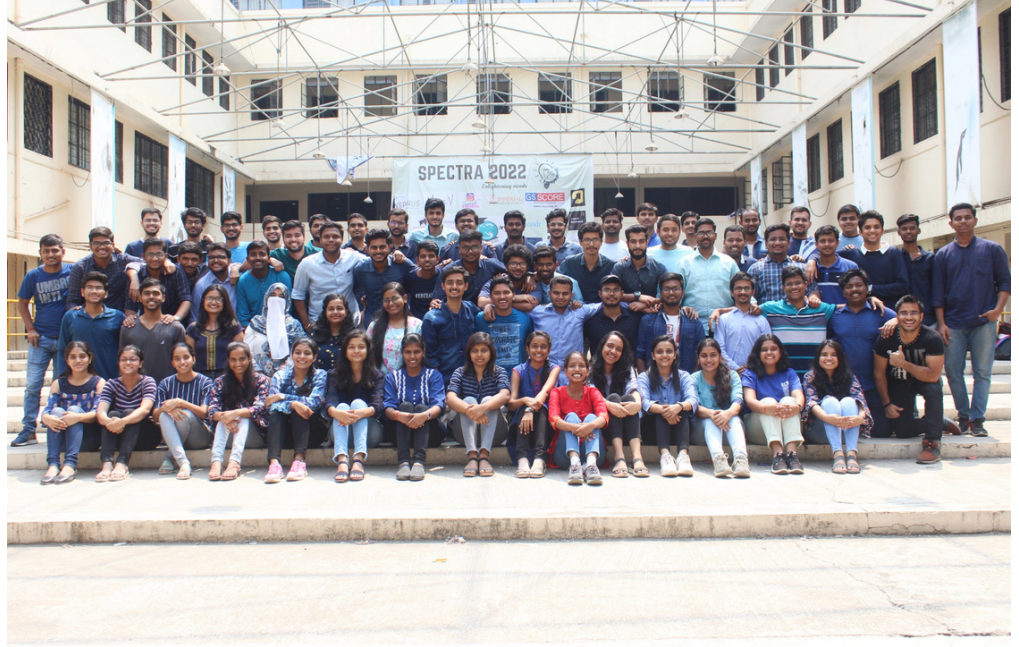
MECHANICAL



CIVIL



ELECTRICAL



MECHANICAL



CIVIL



ELECTRICAL



MECHANICAL



THERMAL



ELECTRICAL



STRUCTURAL



CONSTRUCTION MANAGEMENT



PEPS-ELECTRICAL



MACHINE DESIGN



Alumni Meet

2021-22



The Annual Alumni Meet- 2022 of SPCE-SPIT was held on April 9, 2022 from 5:30 pm in Online and Offline mode. The meet was attended by alumni, present and retired teaching as well as non-teaching staff. We welcomed our prestigious alumni back to their alma mater to recall their memories and nostalgia and hence preserving the Institute Alumni relations. The event started with lighting of the lamp accompanied by auspicious Saraswati vandana. Mementos were presented to the alumni present. The event was melodiously supported by our music club Spandan.

Mr Shashi Banka, President, SPCE Alumni Association and Mr Sunil Jainapur, Secretary, SPCE Alumni, Honorable Principal of SPCE, Dr. M.M. Murudi and Vice Principal SPIT Dr YS Rao Association addressed the gathering.

Attention & Action Required : Ocean Pollution

- **Eight million metric tons** i.e. equivalent to nearly 57,000 blue whales are **dumped** into the oceans each year
- Ocean trash can be broken into smaller pieces — known as **microplastic** — by sun exposure and wave action, after which it can find its way into the food chain.
- Great Pacific Garbage Patch — includes an estimated **1.8 trillion pieces of trash** and covers **an area twice the size of Texas**.
- More than half of the world's sea turtles and nearly **every seabird** have **eaten plastic** in their lifetimes.

Don't you think it is high time we take action and start the change from ourselves?

- Reduce Your Use of Single-Use Plastics.
- Recycle Properly.
- Avoid products containing micro-beads.
- Spread the word
- Improve waste-water management.

Challenges

Challenges are usually disguised as obstacles and problems
You have no choice but to overcome them and solve them!

Face them head-on and make them a priority
But if you wish to shirk them you will find excuses plenty.

Challenges are an opportunity to help you grow;
To find the inner strength you always had but did not know.

Boulders on your path - life will surely put forth -
Consider them not obstacles but stepping stones to growth.
Patiently and with awareness let all self-doubts wash away
Let determination and confidence carry you to success all the way.

Then when you look back and contemplate your big wins
You will realise that the biggest challenge was the challenge within.

Because everyone struggles with something or the other - every day!

- Dr Kshitija Nadgouda

Broken pieces aren't always beautiful
The marks are seen which cannot be overlooked

Years later, it'll stand aside
As it was replaced and kept inside.
You think you know their dreams,
But you just know their plans.
You think you know their heart,
But you know their mind.
You think you know their past,
But you know their parts.
You think you know their love,
But you know their liking.

Sometimes fear is a necessity,
Any fool who doesn't fear or understand its dread can be brave.
He who's afraid but still manages to rise up to the challenge is truly brave.

That feeling of being high on energy,
Enjoying with your buds out of your natural Habitat only lasts so long.
Finally when you go back home you, realize life is running in greyscale and that Happiness only lasts a while.

- Shubham Mishra
(SYC)

NEW GENERATION VOTERS

"Leadership is not just about the next election but more about the next generation." This is a very true saying because a leader is a visionary who meets the needs of the present generation while keeping in mind the requirements of the upcoming generations.

And with new generations come new expectations. For instance, 30 to 40 years ago people may have demanded better infrastructure, gender equality and so on.

But these are not a problem anymore. Today's generation has totally different expectations. Today a voter may favour a candidate promising better network connections and cheaper data over another candidate who wants to reduce the frequency of mobile towers to save birds. But this doesn't mean that he is against nature. The decision that any new voter takes is determined by various factors. It mainly depends on his present needs but is also a combination of views of family members, television programs, movies, games and mainly social media.

Today social media has become a very powerful tool. Twitter has become a way to raise a voice against injustice and Instagram has become the platform to showcase creativity. These platforms have the capacity to alter the way people think nowadays. For instance, today's new voters may feel closer to a candidate who is very active on social media platforms and shows interest in new trends. This may convince him to vote for that candidate and in an election, each vote counts. So, this may very well change the outcomes of an election. Also, television programs showing resemblance to some political parties can shape a person's thoughts.

Nowadays most things have gone online. Today anyone can apply for voter IDs online without standing in long queues. Government also encourages people to vote using various innovative ideas. But most importantly everyone should vote because a bad government is also elected by citizens who don't vote.

This new generation is technologically sound but needs political awareness. Social media is full of opinions. But it is necessary to understand that these are just perspectives of people and need not be always true. These should not shape our decisions. Before casting his or her vote every voter must do a detailed study of the person they choose to vote for. It is time for this new generation to become responsible and realise that they are the future of our great nation.

"Someone struggled for your right to vote, use it."

- ATHARVA GHATE (FY Mechanical)
(Winner-Voters Day Essay competition)



Happiness

"Happiness can be found even in the darkest of times if only one remembers to turn on the light."

We are all struggling. Struggling with things, with people, with situations, even with our own feelings. Some of us hide the pain so much better than others, but hiding doesn't equate to healing.

It's not that we don't want to get better, of course, we do, but we somehow just never get there.

It's easier said than done when someone comes up to you and tells you, "you just need to make yourself feel better." That one line makes you feel far worse than anything else you're going through because if it were that easy wouldn't you have done it?

Somehow, they don't understand. And maybe that's what brings you down the most. How no one around you gets it. How do they think you're just being dramatic or seeking attention? But if they don't get it then how in the world are they going to be able to help you?

Yes, it happens, yes people leave, yes hearts break, yes you'll lose someone, yes someone else gets what you thought you deserved, yes you will feel lost and alone and like everything around you is slowly reaching out its claws to choke you, and all you're looking for is a way to dissipate the shadows.

There will always be something that won't be right, something that will keep you up at night, something that will make your heart sink, but remember time heals everything.

Nothing in this world is permanent, not even pain, slowly you will make new memories that will overwrite how you feel right now and all this will become so insignificant as you continue to grow.

And all of a sudden you'll look back and wonder where it all went, because happiness is like the sun, there will always be a sunrise that follows the sunset.

- Dr Hansa Jeswani

Sardar Vallabhbhai Patel-The Bismarck of India

"There is something unique in this soil, which despite many obstacles has always remained the abode of great souls."

As rightly said by the man himself, Sardar Patel is that name etched in the heart of everyone in India as the one who had earthly wisdom, simplicity, and a forever vision to a free and unified India. While he had no recorded official birthdate it is said that he wrote it as 31st October on his matriculation examination papers. He belonged to the Leuva Patel Patidar community of Central Gujarat. Always known to be headstrong and a person with a powerful character he traveled extensively to attend schools to Nadiad, Petlad, and Borsad, living self-sufficiently with his friends.

Initially being thought unambitious by people around him, he had secretly harbored a wish to study to become a lawyer, work and save funds, travel to England, and become a barrister. His will to become one was so strong that he spent years away from his family, studying from books he borrowed through lawyers and clearing various exams. Within two years he set up home at Godhra, where he practiced law. Patel also became the first chairman and founder of "Edward Memorial High School" Borsad. Now an advocate he had a reputation of being skilled and fierce. Along with being a very firm decision maker, he was also a man of values who had soft corners for his people, an example was giving away his once nurtured hope to study in England for his elder brother who also wanted to do the same.

His professionalism was very intricate. He never swayed from his emotions when at work. The highlight was the death of his wife which he broke to others only after the proceedings of one of his cases ended.

His life took a 180-degree turn after meeting Mahatma Gandhi in October 1917. He fundamentally joined the Indian independence struggle. Based at an apartment in Mumbai, he became the Congress's main fundraiser and chairman of its Central Parliamentary Board, playing the leading role in selecting and financing candidates for the 1934 elections to the Central Legislative Assembly in New Delhi and for the provincial elections of 1936.

Patel enjoyed the loyalty and the faith of rank and file Congressmen, state leaders, and India's civil servants. Patel was a senior leader in the Constituent Assembly of India and was responsible in large measure for shaping India's constitution. He is also known as the "Bismarck of India". Patel was a key force behind the appointment of Dr. Bhimrao Ramji Ambedkar as the chairman of the drafting committee, and the inclusion of leaders from a diverse political spectrum in the process of writing the constitution.

Vallabhbhai Patel was arrested on August 9 and was released after three years on June 15, 1945. Strikes, protests and, revolutionary activities ruled India and Indians during this time with the result turning out in the country's favor, as the British decided to leave India and transfer the power to Indians. In the 1946 election for the Congress Presidency, Patel was nominated as the candidate for the elections. Patel was free India's first Home Minister and Minister of Information and Broadcasting. He was also the first of the Congress leaders to support the partition of India, as a solution to curb the rising communal violence and Muslim separatist movement, led by Mohammad Jinnah.

Blessed with practical acumen, great wisdom, and political foresight, he took up the uphill task of unifying India as he successfully persuaded 565 states, except the three states of Jammu and Kashmir, Junagadh, and Hyderabad. He used the tactics of invoking patriotism in the Indian rulers and proposed favorable terms for the merger.

Patel once said "It is the prime responsibility of every citizen to feel that his country is free and to defend its freedom is his duty. Every Indian should now forget that he is a Rajput, a Sikh, or a Jat. He must remember that he is an Indian and he has every right in his country but with certain duties."

We must all remember that 31 October is no less than a festival for us as there can be no 2nd Sardar Patel India would have. He was the one and only "Unifier of India". The Statue of Unity, the world's tallest statue, was dedicated to him on 31 October 2018.

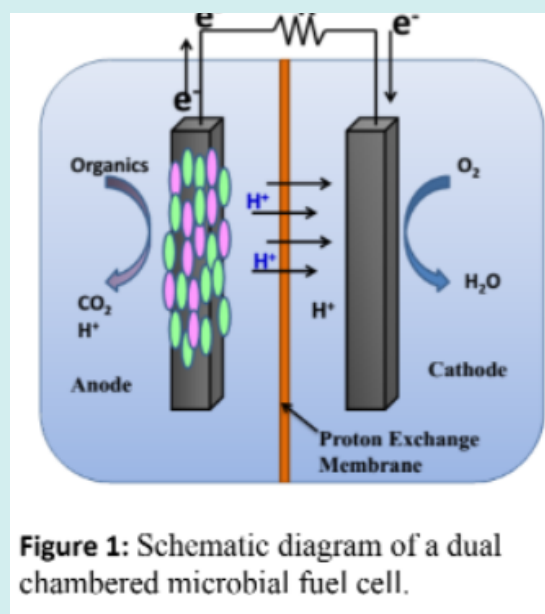
As citizens of the fastest growing nation in the world, we must realize our duty to keep our surroundings clean and live in harmony as emphasized by the leader. We should spread the word of love and peace around. Let us ensure that we are becoming good and responsible citizens whilst continuing to harbor this dream of our Iron Man of One India unitedly.

- Rajlakshami Gaikwad (SYC)

Winner - Sardar Patel Jayanti Essay writing competition

Bio-electrochemical Systems- Sustainable Technology for Wastewater Treatment along with Energy Recovery

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Background:

Energy is an essential driver of the socio-economic development and economic growth of a country. Rapid growth in population, industrial activities, and modern living style increases the energy demand globally. International Energy Agency (IEA) reported an increase in the global primary energy demand from 5536 Gigatons of Oil Equivalent (GTOE) in 1971 to 10,345 GTOE in 2002, indicating an annual average increase of 2% (Goswami and Kreith, 2007). Water and energy are closely interrelated and interdependent on each other. Water is required to produce electricity and electricity is used to treat water and wastewater generated from the domestic, commercial, and industrial activities in daily life.

Energy crisis and environmental pollution:

Most of the global energy needs are met from the combustion of three major forms of fossil fuels: coal, oil, and natural gas. The available stock of fossil fuels is depleting day by day because of their constant exploitation, which is considered a future challenge. Researchers predicted the depletion of oil and gas by 2042, while coal will be depleted by 2112 (Shafiee and Topal, 2009).

Global warming is another important issue attributed to the greenhouse

effect, caused by increased carbon dioxide emissions. Nuclear power produces carbon-free energy; however, disposal of nuclear waste has become a serious issue having a significant impact on the environment.

Renewable energy sources such as solar, wind, tidal, geothermal, biomass, etc. are trying to fill the fossil fuel gap. However, the ultimate success of these technologies depends upon cost-effective energy production. Available options of renewable energy sources are forcing the research community worldwide in the search of clean energy sources, which can produce electricity with less adverse impact on the environment.

Wastewater generated from domestic and industrial origin requires effective treatment for the removal of organic pollutants before discharging into the environment. The treatment of wastewater is one major source of releasing carbon dioxide, methane, and other greenhouse gases into the atmosphere that will in turn contribute to global warming. The activated sludge process (ASP), the most successful and widely used aerobic treatment technology requires a large amount of electricity 0.97 kWh/kg of COD removed and thus restricting its application in the current scenario of energy crisis. Switching wastewater

treatment from an aerobic to an anaerobic system would reduce the required power; however, it has certain disadvantages of slow start-up, need for concentrated waste, and high temperatures to operate reliably, and also the treated effluent requires further polishing treatment (Oh et al., 2010).

Thus, the use of carbon-neutral and energy-positive wastewater treatment methods is the need of the hour.

Microbial fuel cell (MFC) as a source of renewable energy:

Microbial fuel cell (MFC) is a modern wastewater treatment technology that converts chemical energy stored in the bonds of organic matter present in wastewater directly into electricity using electrogenic bacteria as a catalyst, without causing environmental pollution (Liu et al., 2005; Logan and Regan, 2006). Wastewater that contains biodegradable organic matter, works as a useful fuel for harvesting renewable energy. Thus, environmental protection by providing appropriate treatment to the wastewater and simultaneously harvesting direct electricity, which is carbon neutral, can be achieved by employing MFC. The MFC typically consists of two chambers: an anaerobic chamber containing an anode and an aerobic chamber with a cathode; these two chambers are separated by an ion-exchange membrane (Fig.1).

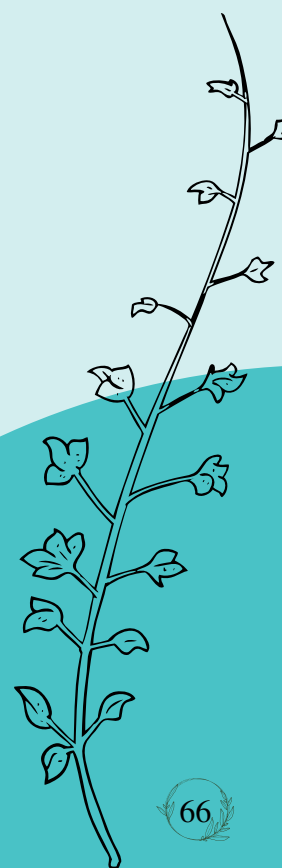
Advantage of MFC as wastewater treatment system.

MFCs have already shown to offer potential advantages: (i) they can convert biomass to electricity at high efficiency in one step, (ii) they can operate at ambient temperatures, and (iii)

they are robust, as they can operate in a stable way for an extended time, and (iv) the bacterial yield in MFC is 1/5th of an aerobic culture (Kim et al., 2007), hence much less excess sludge generation. The deployment of MFC technology requires the selection of suitable and cost-effective electrode materials and separators, scalable architecture with sound design to find its utility for wastewater treatment, and optimal operating conditions.

Bottlenecks and challenges in MFC for field applications:

The main bottlenecks for practical application of MFCs are the lower power output, low energy conversion efficiency, and high production cost (Zhang et al., 2010). Although MFCs are reported to be successful for wastewater treatment and electricity recovery, many aspects need further investigation. Full-scale implementation of such bio-electrochemical wastewater treatment is not straightforward because certain microbiological, technological, and economic challenges need to be resolved to make this technology ready for commercialization.



मराठी

अनुच्छेद

बंदिस्त पाखरु

पाषाणासम ऋदयांना करुणेचे पाझर फुटावे
आजतरी बंदिस्त पाखरु पिंजऱ्यातून सुटावे.....

मुठीत आहे दुनिया सारी, क्षणात आहे अवकाश ही
वर्चस्वाच्या स्पर्धेत, पहावे स्वतःला सावकाश ही
प्रतिष्ठेच्या हव्यासाचे लोहदंड मग तुटावे
आजतरी बंदिस्त पाखरु पिंजऱ्यातून सुटावे.....

गुलाम होता कालही, तो आजही गुलाम आहे
कैदेत न्युनगंडाच्या तो आजही निःशब्द आहे
विचारांच्या स्वातंत्र्याला स्विकृतीचे पंख मिळावे
आजतरी बंदिस्त पाखरु पिंजऱ्यातून सुटावे....

का गंगेने तुला मिळावे, यमुनेनेही विलीन व्हावे
तुझ्या समर्पणात सागरा, का यांचे अस्तित्व झुरावे
स्वैर व्हाव्या सरिता ह्या साऱ्या, भेदभाव आज मिटावे
आजतरी बंदिस्त पाखरु पिंजऱ्यातून सुटावे.....

- मेघना विहुलेकर
(TYM)

रात्र आणि तू

आकाशाकडे झेपावू पाहणाऱ्या मनात भावनांचा कल्लोळ
नेहमीच उठतो,
आणि मग तो कल्लोळ शांत करण्यासाठी मला शांत रात्र
आणि सोबत तू पुरेसा असतो.

काळ्याभोर आकाशाकडे पाहताना मन अलगद थंडगार हवेवर
तरंगू लागतं,
बोचणारी थंडी, वारा जणू काही मला खुणावत असत.

आणि मग जेव्हा तू तुझी मिठी माझ्यासाठी घट्ट करतो,
तेव्हा मी तुझ्या हृदयातील स्पंदनांमध्ये अलगद सामावू लागते.

तुझ्या असण्याची खात्री या निरव शांततेच्या रात्रीच पटते,
कारण तेव्हाच तर दिवसभर त्रासून गेलेलं माझं मन
शांततेच्या, स्थैर्याच्या वाटेकडे चालते.

-प्रिया ठाकरे
(BTech Elec)

युद्ध, यातना आणि योजना

वर्ष २०२० मध्ये जगभर पसरलेला भयानक कोविड असो की जीव वाचवण्यासाठी लावलेला लॉकडाऊन. सामान्य जनतेचा जीव, कोविड आणि लॉकडाऊन या दोघांनी मिळून घेतला. त्यातून वाचलेल्या जनतेला बोनस म्हणून मिळालं ते युद्ध! रशिया व अमेरिका यांच्यातला महासत्ता बनण्याच्या स्वप्नांनी बऱ्याच युद्धाना सुरुवात केली. जपानवर टाकलेला अणुबॉम्ब, कोरियामधील युद्ध, व्हिएतनाममधील युद्ध असो की अफगाणिस्थान, सीरिया, लिबिया, येमेन मधील अशांतता. या सर्व घटनांना जबाबदार आहे ती रशिया अमेरिकेमधील वर्चस्वाची लढाई.

१९४९ नंतर अमेरिकेच्या पुढाकाराने नाटो (NATO) ही संस्था अस्तित्वात आली. या संस्थेचे मुख्य धोरण होते "शांतता". नाटो मधील सर्व सहभागी देश एकमेकांच्या देशात सैन्य ठेवू शकतात आणि जर एखाद्या नाटो देशावर हल्ला झाला तर तो संपूर्ण नाटो संघावर हल्ला मानला जातो. जेव्हा नाटो संघ तयार झाला, तेव्हा रशिया ने ह्याचा विरोध केला. रशियाची एकच अट होती, की रशियाला लागून असणाऱ्या देशांना नाटो मध्ये सहभागी करून घेऊ नये. कारण, अमेरिका त्या देशांमध्ये सैन्य ठेवून रशिया वर दबाव आणू शकते. आणि हाच खरा नाटो स्थापण्याचा अमेरिकेचा उद्देश होता. रशिया चा प्रभाव असलेल्या १४ देशांना नाटो मध्ये सहभागी करून घेण्यात अमेरिका यशस्वी झाली. ही रशिया साठी धोक्याची घंटा होती. रशियाला लागून असलेल्या युक्रेन ला सुद्धा नाटो मध्ये सहभागी करून, आपले सैन्य, बॉम्ब व इतर युद्धसामग्री रशियन सीमेवर ठेवायची हा अमेरिकेचा डाव होता. त्यासाठी त्यांनी बरेच प्रयत्न केले. त्यातलाच एक प्रयत्न म्हणजे २०१४ मध्ये रशियन प्रभाव असलेल्या युक्रेन सरकारचा पाडाव. त्यानंतर अमेरिकेचा प्रभाव असलेले सरकार युक्रेन मध्ये स्थापन झाले. आणि मग चर्चा सुरू झाल्या त्या युक्रेन ला नाटो व युरोपियन युनियन मध्ये सहभागी करून घेण्याच्या. ह्याबद्दल बरेच वर्ष (२०२१पर्यंत) इशारा देऊन सुद्धा युक्रेन सरकारने आपला निर्णय बदलला नाही. आणि त्यामुळेच सुरू झाले रशिया - युक्रेन युद्ध.

संयुक्त राष्ट्रे सुरक्षा परिषद (UNSC) मध्ये रशिया विरुद्ध युक्रेन युद्धावर भारताने तटस्थ भूमिका घेतली. त्याला बऱ्याच देशीय आणि परकीय "विचारवंतांनी" विरोध केला. राजकारणी मंडळींनी सुद्धा ह्यावर आपला विरोध प्रदर्शित केला कारण, आंतरराष्ट्रीय घडामोडींमध्ये देशाची बाजू घेण्यापेक्षा सत्ताधारी पक्षावर आरोप करून बातम्यांमध्ये येण्याची संधी सोडतील ते राजकारणी कुठे! सध्याचा केंद्रीय सरकारने आंतरराष्ट्रीय पातळीवर भारताची पकड "मजबूत" केलेली आहे. आत्तापर्यंत बऱ्याच महासत्ता नी (तथाकथित) भारताला योग्य वागणूक दिलेली नाही, परंतु आता भारताच्या मताला नक्कीच महत्व आहे. भारत जगातील सर्वात मोठी लोकशाही असलेला देश आहे. भारत कधीही रशिया किंवा अमेरिका अशी बाजू घेत नाही. तरी तथ्य म्हणून काही गोष्टी जाणून घेतल्या पाहिजेत त्या अश्या की, युक्रेन या देशाने भारताच्या अणुचाचणी ला विरोध केला होता. तसेच अमेरिकेने सुद्धा बऱ्याच वेळा भारताच्या प्रगतिशील कामांना अडथळा आणलेला आहे. आणि रशियाने नेहमीच भारताला पाठिंबा दिलेला आहे. मग ते काश्मीर मुद्दा असो की शस्त्रात्र पुरवठा. भारत ह्या दोन्ही देशांसोबत मोठ्या प्रमाणात व्यापार करतो आणि जर देशाची प्रगती साध्य करायची असेल तर तटस्थ भूमिका घेण्याशिवाय योग्य पर्याय नाही.

गृहयुद्ध, शीतयुद्ध, दोन देशांमधील युद्ध किंवा विश्वयुद्ध. युद्ध कोणतेही असो, यातना भोगाव्या लागतात त्या फक्त सर्वसामान्य जनतेला! राजकारणी मंडळी कधीही सरहद्दीवर जाऊन बलिदान देणार नाहीत. जीव गमावणाऱ्या सैनिकांची, त्यांचा परिवाराची काय चूक? युक्रेन मध्ये देशासाठी लढायला तरुण, वृद्ध सगळे एकत्र आलेले आहेत. अमेरिकेच्या आणि त्यांचा प्रभाव असलेल्या युक्रेन सरकारसाठी सैनिक आपला जीव गमावतायत. आणि दुसऱ्या बाजूला हुकूमशाही असलेल्या रशियाच्या धोरणांमुळे तेथील सैनिकांना जीव गमवावा लागतोय. युक्रेनमध्ये होणारा बॉम्ब वर्षाव तर आपण पाहिला असेलच. बंकर मध्ये जीव मुठीत घेऊन जगणाऱ्या लोकांची अवस्था पाहून खूप वाईट वाटते. ह्या महासत्ता बनण्याच्या हव्यासापोटी सर्वसामान्य माणूसच आपला जीव गमावतो. तेथे शिकणाऱ्या भारतीय विद्यार्थ्यांना, नागरिकांना

सोडवण्यासाठी भारत सरकारने व आपल्या लष्कराने केलेल्या प्रयत्नांना विसरून चालणार नाही. जगात युद्ध कुठेही असो भोगतो तो सर्वसामान्य माणूसच. युद्धाचा परिणाम म्हणून, पेट्रोल, डिझेलच्या किमती दिवसेंदिवस वाढत आहेत. ह्यावर अवलंबून असणारी वाहतूक व त्याने होणारे दळणवळण सर्वच महाग होणार आहे. घरगुती गॅस आणि खाद्यतेल सगळ्यांच्या किमती आकाशाला भिडतायत. मूलभूत गरजा पूर्ण करता करता सर्वसामान्य जनतेचा खिसा कापला जाणार हे नक्की! 'योजना' हा शब्द शिर्षकामध्ये आला तो यासाठीच. अमेरिका, युरोप व इतर समविचारी देशांनी कितीही दबाव टाकला तरी भारतासोबत असलेला व्यापार आणि भारताची वाढणारी अर्थव्यवस्था बघता भारतावर निर्बंध लावण्याचे धाडस कोणी करणार नाही. आणि राहिलाच प्रश्न चीनचा तर आशिया मध्ये चीनसारख्या विस्तृतवादी देशाला विरोध करण्यासाठी भारतच समर्थ आहे. ह्यामुळे पूर्णपणे भारताविरोधात जाण्याची हिंमत कोणीही करणार नाही. त्यामुळे अमेरिका युरोप ह्या आखाती देशांनी कितीही दबाव टाकला तरी केंद्र सरकारने रुपया मध्ये (डॉलर चलन न वापरता) रशिया कडून स्वस्तात इंधन विकत घेणं, ह्यालाच मोक्यावर चौका म्हणता येईल आणि त्यातला काही अंशी फायदा जर जनतेला दिला तरच 'मतरूपी आशीर्वाद' केंद्र सरकारला पुढील निवडणुकीत मिळेल. युद्धाने जाणीव करून दिलेली अजून एक गोष्ट म्हणजे आत्मनिर्भरता! इंधन व इतर वस्तुंसाठी परकीय देशावर अवलंबून राहणे किती जड जाऊ शकते हे आपण व बऱ्याच युरोपीय देशांनी अनुभवलेले आहे. त्यामुळे स्वदेशी संशोधन करून आत्मनिर्भर होणं ही काळाची गरज आहे. फ्लेक्स इंधन, ई-वाहन असो की इंधन म्हणून हायड्रोजनचा वापर, सर्व क्षेत्रात आत्मनिर्भर होण्याशिवाय पर्याय नाही. शेतीमध्ये सुद्धा आधुनिकीकरण होणे गरजेचे आहे. भारताला सर्वात जास्त गरज असणाऱ्या आणि आंतरराष्ट्रीय अवलंबित्व असणाऱ्या पिकांवर भारतीय सरकारने प्रगतिशील पावले उचलून आत्मनिर्भर बनवावे ही आशा! शेतकरी, तेलबिया, सोयाबीन, सूर्यफूल, शेंगदाणे, राई हे उत्पन्न न घेण्याचे महत्वाची कारण आहेत, अवकाळी पाऊस, उत्पन्नापेक्षा जास्त खर्च आणि ईतर रोख पिकांपेक्षा मिळणारे कमी भाव. ह्या परिस्थितीवर तोडगा काढल्यास शेतकरी व सामान्य जनता आत्मनिर्भर आणि सुखी होईल हे नक्की!

आता ह्या युद्धपरिस्थितीचा फायदा करून घेण्यात केंद्र सरकार यशस्वी होत की नाही ते येणारा काळच सांगेल. मात्र तोपर्यंत महागाई चे चटके भोगणार ती सामान्य जनताच !

- तेजस प. पाटील
(M.Tech, Thermal)

मावळतीचा सूर्य

निसर्ग सौंदर्य पाहण्यास, एकवटून मी धैर्य.
सायंकाळी न्याहाळतो मी, मावळतीचा सूर्य || धृ ||

सूर्य आणि ढग खेळतात, भव्य आकाशात रंग.
निळसर आकाशात जणू लागते, रंग छटांची रांग || १ ||

तिन्हीसांजेचा वेळी, मनमोहक रंगाने सजतो.
असा लाल भडक रंग, क्षणात डोंगराड लपतो || २ ||

आई वडिलांच्या सावली प्रमाणे, समुद्रात प्रतिबिंब पडतो.
पुत्रासामान सृष्टी पाहत पाहत, समुद्रात लुप्त होतो || ३ ||

या मंत्रमुग्ध वातावरणाने, मला पडली भूल.
शिणलेला भास्कर गेला झोपी, देऊन रात्रीची चाहूल || ४ ||

- प्रशांत सुयश लिमये
(TYC)

انتباہ

غلطی کر بیٹھے ہو ، جو نوجوانوں سے لڑ بیٹھے ہوں
 غلطی کر بیٹھے ہو ، جو نوجوانوں سے لڑ بیٹھے ہوں
 تعلیمی ادارہ کبھی گئے ہوتے تو شاید اس بات کا علم ہوتا
 کہ سب سے مضبوط ہتھیار تو نہ لڑھی ہے، نہ گولی، بلکہ قلم
 ہم $(a+b)^2$ سے واقف ہے اور سمویدھان سے بھی
 کیا تم اسی بات سے ڈرتے ہوں؟
 ہم اس ملک کو سوچہ کرنے نکلے ہیں، تاج بھی ہم ہی اُچھالے گئے، تخت
 بھی ہم ہی گرائے گئے
 ہم ہی تو آنے والے تخت نشین ہے، ہم سے کیوں تم لڑتے ہوں؟
 ہم تم سے نہیں ڈرتے، کیا تم اسی بات سے ڈرتے ہوں؟
 جب تم تالیوں اور تھالیوں میں مشغول تھے، تب ہم اسپتالوں میں
 -پلنگ، آکسیجن اور کھانے کا بندوبست کرنے میں مصروف تھے
 تاریخ کے پنوں میں، سونے کے لفظوں میں اس نوجوان نسل کا نام لکھا
 جائے گا،
 کیا تم اسی بات سے ڈرتے ہوں؟
 یہ مغربی اسکرٹ پہنتا ہے اور عربی برقعہ بھی، یہ کے-پاپ کے گانے
 -سنتا ہے اور پڑوسی کا کوک سٹوڈیو بھی
 ہم نیٹفلکس کو چلنے دیں گے پر تمہاری نفرت کی دکان کو نہیں
 کیا تم اسی بات سے ڈرتے ہوں؟
 -تاریخ گواہ ہے، جو نوجوانوں سے ٹکرایا ہے، منہ کے بل کھایا ہے
 غلطی کر بیٹھے ہو ، جو نوجوانوں سے لڑ بیٹھے ہوں
 غلطی کر بیٹھے ہو ، جو نوجوانوں سے لڑ بیٹھے ہوں

مصعب خان

ریا ساحل طوفاں دیکھے وقت کے آنے جانے میں
 ہم نے ساری عمر گنوا دی کشتی پار لگانے میں

بیگانے تو بیگانے تھے بیگانوں کا شکوہ کیا
 اپنوں کا بھی ہاتھ رہا ہے گھر کو آگ لگانے میں

بوش و خرد کا دامن تھامو جوش و جنوں سے کام نہ لو
 شیشے پر ہی بن آتی ہے پتھر سے ٹکرانے میں

کیسی منزل کیسی راہیں خود کو اپنا بوش نہیں
 وقت نے ایسا الجھایا ہے اپنے تانے بانے میں

گلشن گلشن صحرا صحرا شبنم پاشی کی ہم نے
 پھر بھی نام ہمارا آیا شعلوں کو بھڑکانے میں

رنگ بہاراں بوئے گلستان ان کی کہانی کے عنوان
 ذکر خزاؤں کا ملتا ہے میرے ہی افسانے میں

اپنے ہی سر تہمت لے لی دیوانے نے دانستہ
 جانے کیا مجبوری ہوگی سچی بات بتانے میں

نفرت کی دیواریں ڈھا دیں پیار کے آنکھ میں بیٹھیں
 بربادی ہی بربادی ہے ناحق خون بہانے میں

رافد نذیر



सफर

सफर है ये, जिंदगी का ये सफर ।
जाएगा तो जिस राह पर, ले जाएगा तुझे अगले मोड़ पर ॥

सफर का है ये असर, जो मिलाया तुझे मुझे इस मोड़ पर ।
रफ्तार से तू बढ़, छोड़ ना तू अपनों का साथ मगर ॥

सोच तू मंजिलें, चल पड़ उस राह पर ।
सफर सफर सफर जिंदगी का ये सफर ॥

बैठे हुए का नहीं, चलने वालों का है यह मंजर ।
भटका हो या सही राह का, सबका है यह सफर ॥

कोई छूटेगा, कोई साथ होगा, तो कोई खिलाफ होगा,
सफर तुझे साथ नहीं, तजुर्बा दे जाएगा ।
उस तजुर्बे के साथ तू बढ़, पूरा कर यह अपना मंजर ॥

जिंदगी की आखरी सांस तक है ये सफर ।
आगे भगवान की तरफ जाने वाला है ये सफर ॥

सफर हर वक्त है ये सफर, तू समझ तुझे जाना किस मोड़ पर ।
सफर सफर सफर जिंदगी का ये सफर ॥

-सुधीर देवरे
(TYC)



भारत...

कहते हैं सदियों पहले हमारे इसी राष्ट्र में हर डाल पर सोने की चिड़िया बैठा करती थी....
हमारे वीरों के लहू से सजी ये धरती किसी जन्नत से कम नहीं
कहने वाले कहे कुछ अब हम भी कहे एक बात, " वीरों के लहू से और बलिदानों से सजी है ये धरती जाके
पढ़लो हमारा इतिहास"....

भारत कोई देश नहीं ये एक दुनिया को मिला एक वरदान है
ये सुनकर आप को एक सवाल आया होगा मन में....
की भारत ने दुनिया को ऐसा क्या दिया....
तो बतादू में एक बात.... zero दिया भारत ने....
खगोल शास्त्र, विज्ञान शास्त्र, भूमिति शास्त्र, गणित शास्त्र, पतंजलि शास्त्र ये सब दान दिए भारत ने

नहीं पाओगे तुम सुलझा ऐसे रहस्य इस देश के पास है....
धुंडते धुंडते मर जाओगे ऐसे शास्त्र हमारे पास है....

ये वही भारत हैं जनाब, "जहा अपने भक्त को बचाने स्वयं भगवान धरती पर आए, और एक राक्षस ने हमारे
मां का अपहरण क्या किया तो पूरी की पूरी राक्षस कुल की लंका जला गए"....

ये वही भारत है जहा, "भाई वनवास में जानें पर उसके पादुकाए सिंहासन पर रखकर राज्य संभाला है, कहा
मिलेगा ऐसा प्रेम जो भक्तो को बचाने पूरा हलाहल विष का प्याला ही पी डाला है"....

ये वही भारत है जहा, "परम पितामा जो दुनिया चलाता है, वो अपने मां से मार भी खाता है, पूरे ब्रह्मांड पर
जिसका अधिपत्य है वो माखन चुराकर खाता है "....

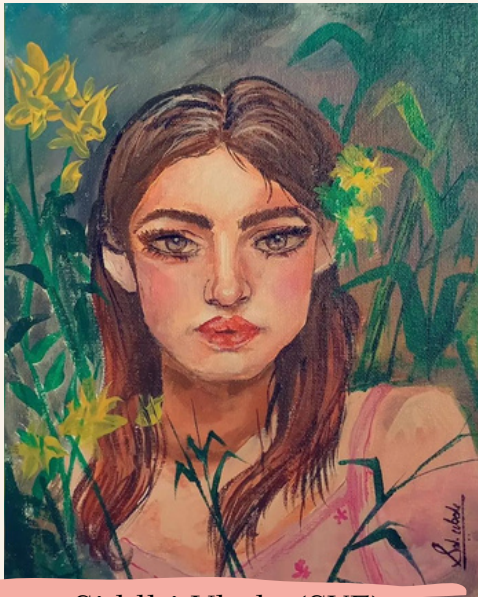
अगर हम कुछ कहे भारत के बारे में तो भारत कोई माती का टुकड़ा नहीं....
ये तो वो प्यार का सागर है, जो किसीना किसी रूप से दुनिया को शांति के मार्ग पर रखने का एक जरिया
है....

भारत सदैव अहिंसा के मार्ग पर चला है,
"अहिंसा परमो धर्म" ये हमने सीखा और सिखाया है, मगर जिसने हमे कमजोर समझ कर हमे नुकसान
पोहोचने की कोशिश की उसे "धर्मो हिंसा तथैव च:" ये भी हमने ही सिखाया है"....

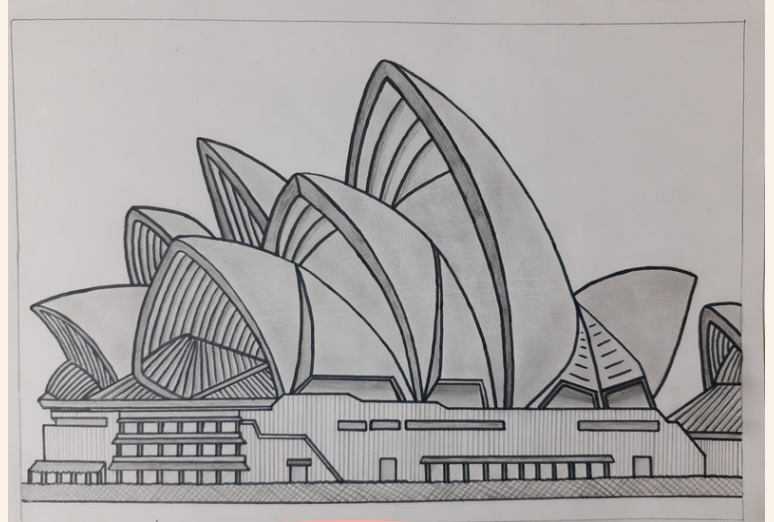
भारत ये ऐसा विषय ही जिसपर सारे पन्ने कम पड़ जाएंगे....
जहा पर आकर सारे कलमे रुक जाएंगे....
मगर जो कभी न झुकेंगे और लिखते रहेंगे वो इस भारत के सपूत और भारतवासी कहलाएंगे....
जय हिंद जय भारत

- भूषण दादा रोकड़े
(SYC)

ARTWORK



Siddhi Ubale (SYE)



Located in the national capital Delhi, lotus temple was designed by Fariborz Sahba as a house of worship dedicated to the oneness of humanity of religion. The sacred flower of Hindu mythology, the lotus is used not only to develop its form but also to draw symbolism of spirituality and purity. The form is enabled to block the harsh sun rays and keeps the interiors cool and well lit even during the scorching summer of India.

by - Meghana Nilange



Siddhi Ubale (SYE)

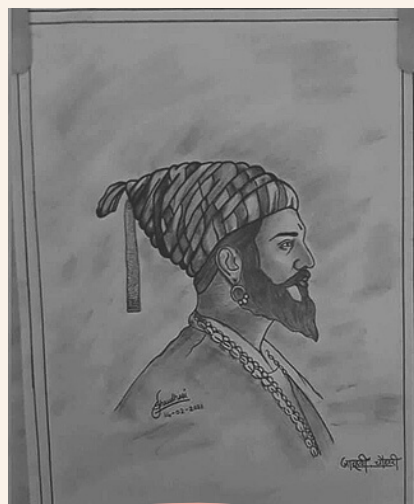


Yogini Chaudhary (TYM)

Winner - Sardar Patel Poster Competition



Sanika Bidkar (FYC)



Janhavi Chaudhari (FYC)



Mitali Toke (SYC)



Mitali Toke (SYC)



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