



# ANNUAL MAGAZINE 2023

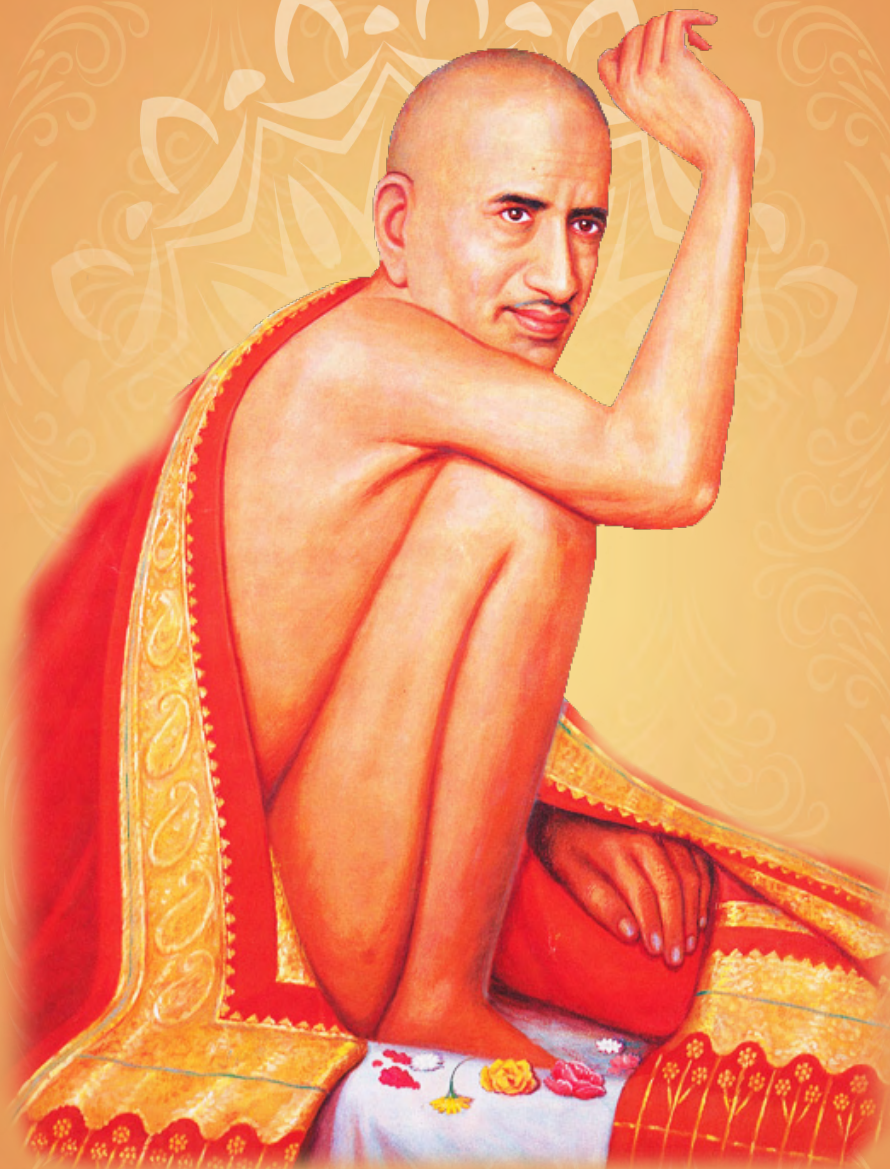
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## TATTWADARSHI

SHRI SANT GAJANAN MAHARAJ  
COLLEGE OF ENGINEERING, SHEGAON



DIVINE SOURCE OF INSPIRATION



॥ Shri Sant Gajanan Maharaj, Shegaon ॥



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9. **Dr. S. B. Somani** : **Member Secretary (Principal of the Institute)**
10. **Dr. S. P. Trikal** : **Member (Faculty member nominated from regular staff at the level of Professor)**
11. **Prof. R. S. Pote** : **Member (Faculty member nominated from regular staff at the level of Associate Professor)**



## From the desk of Principal...

I am happy to interact with you all through this page of our magazine Tattwadarshi. The college communicates its values and ethics to the external world through this magazine. I am glad to see your creativity here.

I personally believe that students find the platform for exposure through this medium. Also, the most important thing about the college magazine is that it creates an opportunity for the students to enhance and improve their writing skills. The students must consider it as a matter of pride if their articles get published in the college magazine. They are a source of self-help and self-confidence for you all. It has rightly been observed that: "The college magazine is the cradle of future writers".

The college life is not only about academics, but also about using the different platforms to explore and enhance the hidden potential. When you write something on a piece of paper, you learn to express yourself. That provides you the confidence and self-belief. Therefore, use this platform and explore your potential.

I appreciate the efforts taken by the editorial board of team Tattwadarshi 2022-23 to bring it in front of us well in time. I am confident that you all will enjoy reading this magazine.

I wish you all the Best.



**Dr. S. B. Somani**

Principal



## From The Desk of Faculty Advisor...

It gives me an immense pleasure to present this issue of college magazine "Tattwadarshi-2023".

Coming up with this issue was easy to visualize but very difficult to draft. We wanted Tattwadarshi Magazine to be the food for thought. This is something all the contributors have tried to do.

It has been a wonderful journey from the collection of articles and bringing it in the form of a magazine. Our magazine "Tattwadarshi" offers an opportunity to the students to explore their creativity through writing. It has a great educative value and encourages students to think and write. So, it enhances their writing skills.

Many students contributed by writing articles on variety of issues. It is noteworthy that the student community is enthusiastic to be a part of Tattwadarshi magazine. It is the efforts of students which have made the difference and we are able to bring this year's issue in front of you.

We are happy to present this issue for all the stakeholders of our college. I express my sincere thanks to the respected management and respected Principal Dr. S. B. Somani sir for continuous encouragement and support in the process.

I thank all the student coordinators who worked hard to complete this magazine well in time.

I am sure you will enjoy reading Tattwadarshi-2023. I wish you all a wonderful journey ahead.



**Sachin Bhagat**

Assistant Professor, A.S. & H.  
Faculty Advisor



## From The Desk OF Chief Editor...

I am proud to present the 2023 issue of Tattwadarshi, our college magazine.

My journey with Tattwadarshi began as a first-year BE representative, and it has been a joy to work under different chief editors and learn from them.

Engineering is a technical education, but it is also important to keep students connected to their creativity. Tattwadarshi is a great platform for students to explore their hobbies and passions.

This year, we have received an outstanding response from students from all departments. I appreciate their enthusiasm and look forward to seeing what they create in the future.

The young generation is the pillar of tomorrow's nation, and we are committed to inspiring them to make a difference in the world. This edition of Tattwadarshi is packed with articles, poems, sketches, and photography that will motivate and entertain readers.

I would like to thank the Hon'ble Principal Dr. S. B. Somani Sir and Faculty Advisor Prof. S.V. Bhagat Sir for their support. I would also like to thank Associate Chief Editor, Section Editors and all the team members for their hard work and dedication.

I hope you enjoy reading this issue of Tattwadarshi. Keep participating and reading, because books don't die!



**Yashkumar Khandare**

Chief Editor  
Tattwadarshi 2023

## From The Desk OF Associate Chief Editor...

Tattwadarshi, our Annual Magazine, means thoughts, feelings, gratitude, and overwhelming expression. As in every year of our Academic session, this magazine not only gives out happiness but also brings forth so much creativity, innovation, achievements, and opinions through writeups like articles and poems.

I can proudly say, this year also Tattawadarshi is publishing the best version. There was very mind-blowing participation from students of every branch. Their concepts, thoughts, and creativity are noteworthy.

Tattawadarshi is a platform for diverse thoughts of young leaders of tomorrow's new generation. It's a platform free from judgments and open for the acceptance of everyone's opinions.

Being part of this annual magazine Tattawadarshi for the last three years brings lot of happiness and a sense of fulfilment to me. Once, someone said, "For living 100 years' life, there is no need of 100 years. If your name is there even on the last page of the book, you will be immortal for 100 years." And I have worked for three years, so I will be immortal for 300 years.

Lastly, a hearty thanks to our Honourable Principal Dr. S. B. Somani Sir and faculty advisor Prof. S. V. Bhagat Sir for their valuable time, guidance, and blessings. Also, special thanks to my teammates for their dedication and hard work, and students who participated in this magazine which was a huge step towards success.

Keep reading, keep enjoying, and keep to finding "You own way to be happy".



**Dipak Deshmukh**

Associate Chief Editor  
Tattwadarshi 2023



# CAMPUS



Main Gate



Administrative Building



Cricket Ground



Shri Gajanan Innovation and Advance Research Centre



Boys Hostel



Library



Girls Hostel



College Building



# GLIMPSES OF 2022-23

## Accreditation by NBA

Shri Sant Gajanan Maharaj College of Engineering, courses accredited by National Board of Accreditation (NBA), AICTE, New Delhi.

- For three years from 2022 to 2025.



## Dataquest T-School Ranking

Dataquest T-School Ranking 2022 is released and SSGMCE, Shegaon has been ranked 51st in the Top T-Schools in India (overall-Govt. & Private) and 43rd in the Top T-Schools in India (Private). Many prestigious IITs, NITS, IIITs, and private and government institutes participated in the T-School Survey-2022

Top T-Schools (overall)-Govt. & Private-Rank: 51st

Top T-Schools (Private)-Rank: 43rd



## Memorandum of Understanding (MoU)

1. Shri Sant Gajanan Maharaj College of Engineering, Shegaon signed Memorandum of Understanding (MOU) with Leben Life Sciences, Akola on February 17, 2023.

As part of the MOU, both the organization are willing to work in collaboration on aspects like internships, projects, visit, consultancy, sponsorship for events, Guest Talks, Research and Publications, Faculty and Student Development, inputs in the context of NEP (National Education Policy) and many others.

The MoU is intended to identify the general basis for a collaborative working relationship between the two parties. The purpose of MoU is to have mutual intentions to jointly work on projects required for industries and research requirements, with learned faculty members of good industrial experience and promising students, jointly agree to exchange their expertise for mutual benefit and growth, on the areas stated in the MOU.





## GLIMPSES OF 2022-23

2. Shri Sant Gajanan Maharaj College of Engineering, Shegaon signed Memorandum of Understanding (MOU) with Expert Global Solutions Pvt. Ltd. (An Alten Company), Chhatrapati Sambhaji Nagar on February 23, 2023.

The purpose of this understanding is to enable both the parties to enter into a non-exclusive, collaborative relationship for the benefits of the students of the institute and society. As part of the MOU, both the organization are willing to work in collaboration on aspects like getting Internships, Placement, Technology Sharing, Academic Projects, Industry visit, Faculty and Student Development, inputs in the context of NEP (National Education Policy), guest lectures etc.

The MoU is intended to identify the general basis for a collaborative working relationship between the Department of Information Technology and Expert Global Group (An Alten Company). The purpose of MoU is to have mutual intentions to jointly work on projects required for industries and research requirements, with learned faculty members of good industrial experience and promising students, jointly agree to exchange their expertise for mutual benefit and growth, on the areas stated in the MOU.

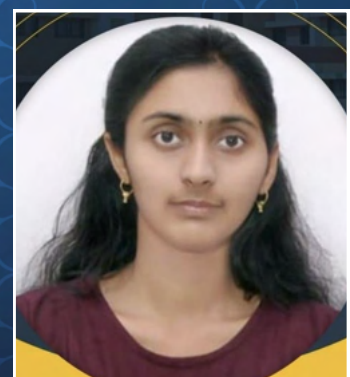
Shri Sant Gajanan Maharaj College of Engg., Shegaon has always focused on the continuous collaboration with esteemed Industries/Groups to provide the exposure to its students to help them by bridging the gap between Industry and Academia.

### SSGMCE students won Merit Gold Medals

In a stunning achievement, two students from SSGMCE, Shegaon have made the college proud by winning gold medals in the Summer-2022 University Exams. The students who have won gold medals include:

Miss.Priyanka Chavan (Electronics & Telecommunication Engineering) and Miss. Pallavi Arbat (Electrical Engineering-Electronics & Power). Sakshi DEshmukh (M.E. Computer Engg.). These students have not only made their families proud but have also set a high bar for future generations of students to follow.

The college administration has congratulated the students on their extraordinary achievement and praised their hard work, dedication, and commitment to excellence.





# GLIMPSES OF 2022-23

## Patent granted to Prof. Vishal Patil of SSGMCE

The faculty of the Master of Business Administration (MBA) Department, has been granted a patent for a smart system enabled with artificial intelligence designed to monitor and predict the performance of employees and support the Human Resources Department.



## Aavishkar - 2022 Winners

A remarkable achievement by the students of SSGMCE in Aavishkar 2022 (University Level) Shegaon: In the recently concluded University Level Aavishkar Competition, the students of SSGMCE showed exceptional talents and brought laurels to the college. The contest was held on 16th & 17th December in Amravati. Aavishkar - 2022 was organized first at the district level and students selected in the District Level participated at the University Level.

The students who bagged prizes include Bhushan Hajare and Sumit Bhute from final year Electronics & Telecommunication Engineering. Both of them won first prize in UG Category.

Prof. P. R. Bharambe

- Competed in SGBAU's AAVISHKAR 2022
- Won First Prize in Post PG Category University level



## Google Developer Student Club!

SSGMCE, Shegaon unveils the Google Developer Student Club!

Explore Google technologies, app development, and cloud computing. Connect with fellow innovators and collaborate on real-world projects. Unlock your leadership potential as a club member or organizer.





## GLIMPSES OF 2022-23

### Kashti (National Level Management Winner) at G.H.Raisoni Amaravati

First Prize: Shaikh Avez Second Prize: Pratik Dhage Event: Carpe diem (A test of selection, this includes Aptitude test, Group Discussion and a personal interview).

1st Prize: Sneha Gaikwad Event: Case Study (Case Analysis on the topic, right person for the Job)

1st Prize: Vashishtha Diwansing Thankur

Event: Personality Test (Vision and Mission round, Personal presentation)

2nd Prize:- Vaishnavi Sahu Prerana Sonankar Vaishnavi Khandare Dhanashri Waghole

Event: Ad- Mad show



### Mozilla Club in SSGMCE

SSGMCE, Shgeaon now hosts the new Mozilla Campus Club! Learn about web development, cybersecurity, and internet privacy from experts. Connect with tech enthusiasts and collaborate on projects.

Develop leadership skills as a club member or organizer.



### SSGMCE Shegaon Alumni Meet 2023





# GLIMPSES OF 2022-23

## Jayashri Shetye won two Medals

Jayashri Shetye, a second year Electrical Engineering student of SSGMCE, Shegaon, bagged Bronze Medal and Gold Medal at Asian Pencak Silat Championship and National Pencak Silat Championship respectively.

She received these medals at the hands of Honorable Governor of Maharashtra. SSGMCE, Shegaon has always focused on the overall development of students. Sport facilities are spread upon 18 acres of the campus (Badminton Court, Cricket Ground of International Standard, Volleyball, Football Ground, Basketball and so on). Therefore, the students of SSGMCE, Shegaon excel in various competitions organized across the country.



## Captain Yogendra Singh Yadav, Param Veer Chakra

Capt. Yogendra Singh Yadav, the youngest awardee of the Param Vir Chakra, interacted with the students and talked about how anyone can be a leader with the right mindset and positive attitude. He shared the story of Kargil War which he was a part of. His talk was motivational for the students.



Excerpts from his talk:

- Where there is peace, there is progress and development
- Focus on Karma, not on fruit.
- Some succeed despite having no resources because of their strong will power and Perseverance. A person is known by his//her deeds.
- No battle can be won without a leader. Values are more important in life.
- Learn to become a job creator (Entrepreneur) not for a job.

## FAB LAB Inauguration



# PLACEMENT DATA OF THE YEAR 2022-23

Sr. No	Name of Company	BRANCHWISE STATUS	Name of students placed	
01	Tata Consultancy Services Ltd., Pune	CSE - 18 EXTC - 20 MECH - 06 EE - 10 IT - 19  TOTAL -73	Atharva Kolhe (R) Bhavesh Mittal (R) Gagan Wanjari (R) Harshita Ughade (R) Mohd Iqbal (R) Nikhil Jadhav (R) Pramey Deshmukh (R) Rutika Dharangaonkar (R) Sakshi Deshmukh (R) Sarvesh Sonar (R) Shachi Chaware (R) Shubhangi Thoke (R) Siddhi Taori (R) Tanay Shah (R) Tejas Masurkar (R) Thavar Setiya (R) Trunay Wanjari (R) Vinita Tiwari (R) Anuja Thakare (N) Ashish Dandade (N) Chirag Soni (N) Gauri Sawarkar (N) Hrushikesh Shukla(N) Maithali Kulkarni (N) Mayur Nehare (N) Nikita Patond (N) Prananjay Kandeekar (N) Pranav Tayade (N) Pratiksha Dalimkar (N) Raj Thakare (N) Rushikesh Patil (N) Saurav Borle (N) Shreyas Gawande (N) Shreyash Chavan (N) Tiwar Zade (N) Vaishnavi Agrawal(N) Vedant Borkar (N)	Abhijeet Patil (U) Aman Raut (U) Amruta Bobade (U) Anirudha Deshmukh (U) Ashita Tikhe (U) Chetan Lavhale (U) Hrituja Chandane (U) Jaeel Joshi (U) Manasi More (U) Om Nalamwar (U) Prajwal Falake (U) Priti Mankar (U) Rahul Patil (U) Sejal Ganesh (U) Shrawani Rele (U) Shruti Singhaniya(U) Stuti Bokey (U) Tushar Nagre (U) Vaibhav Deshmukh (U) Yash Saiwal (U) Akshay Bathe (S) Ankita Madiwale (S) Bhushan Gandhi (S) Kunal Badhe (S) Pratik Hiralkar (S) Rahul Katore (S) Saurabh Satao (S) Shriprasad Gawande (S) Tejal Thakare (S) Vaishnavi Bhalerao (S) Ayush Deshmukh (M) Ritik Diwane (M) Vaibhav Shelke (M) Varad Sovale (M) Varun Kukadkar (M) Sakshi Ratnaparkhi (M)
02	Hexaware Technologies, Pune	CSE - 03 EXTC - 02 EE - 01 IT - 02  TOTAL -08	Atharva Kolhe (R) Harshita Ughade (R) Tejaswini Rakhonde (R) Aadarsh Kumar (N)	Shreyas Gawande(N) Abhay Tiwari (U) Bhushan Nemade (U) Tejas Bhoirwad (S)
03	Tech Mahindra Ltd., Pune	CSE - 09 EXTC - 03 IT - 04  TOTAL -16	Ashish Mehare (R) Sanjana Dhopte (R) Trunay Wanjari (R) Atharva Kolhe (R) Radhika Maloo (R) Tejaswini Rakhonde (R) Smitesh Sonar (R) Sarvesh Sonar (R)	Yash Dalal (R) Prajesh Peshattiwar (N) Vaishnavi Agrawal (N) Praful Wankhade (N) Prananjay Kandeekar (N) Om Nalamwar (U) Tejas Chavhan (U) Tejas Shivrame (U)
04	Aker Solutions Pvt.Ltd., Mumbai	EE - 01  TOTAL -01	Harshal Shegokar (S)	
05	ParentPay, Pune	CSE - 01 EXTC - 02 IT - 19  TOTAL -04	Rutika Dharangaonkar (R) Ganesh Rahate (N)	Priti Mankar (U) Tejas Chavhan (U)



# PLACEMENT DATA OF THE YEAR 2022-23

Sr. No	Name of Company	BRANCHWISE STATUS	Name of students placed	
06	Sankey Business Solutions, Pvt. Ltd., Pune	CSE - 02 EXTC - 02 IT - 03  TOTAL - 07	Palak Agrawal (R) Yash Dalal (R) Ajay Dandge (N) Omkar Mante (N)	Yoshi Nawange (N) Vaibhav Mhasal (U) Yash Khandare (U)
07	Expleo Group, Pune	CSE - 03 EXTC - 04 EE - 01 IT - 03  TOTAL - 11	Adish Raipure (R) Lokesh Chandak (R) Shankar Shinde (R) Chirag Soni (N) Vaishnavi Gawande (N) Yash Khadole (N)	Pallavi Navghare (U) Prajwal Falake (U) Shreya Gaikwad (U) Suchitra Nair (U) Jayesh Bansod (S)
08	ABB Limited, Nashik	EXTC - 02 MECH - 01 EE - 12  TOTAL - 15	Kalyani Bhagwat (U) Shwetatai Bhagat (U) Pooja Wankhade (M) Abhijeet Solanke (S) Abhishek Bathe (S) Chinmay Patil (S) Gauri Masne (S) Harshal Shegokar (S)	Jayesh Bansod (S) Sakshi Aware (S) Sejal Hattel (S) Tejal Thakare (S) Vaishnavi Bhalerao (S) Vaishnavi Maharkhede (S) Homeshwari Deotale (S)
09	NeoSoft Technologies, Pune	CSE - 03  TOTAL - 03	Ajinkya Pimple (R) Shankar Shine (R)	Suryakant Ingle (R)
10	Reckonsys Tech Labs Pvt. Ltd., Bangalore	EXTC - 01  TOTAL - 01	Aniruddha Wankhade (U)	
11	Planet Spark, Gurgaon	EXTC - 02  TOTAL - 02	Gayatri Kungade (U)	Janhavi Saoji (U)
12	Adani Group, Mumbai	EXTC - 03 MECH - 02 EE - 15  TOTAL - 20	Abhishek Bathe (S) Amit Bahekar (S) Aniket Patekar (S) Ankita Madiwale (S) Azhar Fakira (S) Chinmay Patil (S) Faizankhan Pathan (S) Gaurav Kedar (S) Gauri Masne (S) Harshal Shegokar (S)	Mayuri Kharpate (S) Prajwal Thakare (S) Saurabh Satao (S) Tejas Bhoirwad (S) Vaishnavi Bhalerao (S) Pallavi Navghare (U) Sumit Bhute (U) Yash Saiwal (U) Aadinath Kale (M) Varad Sovale (M)
13	Rialtes Technologies LLC, Pune	CSE - 07 IT - 07 MBA - 03  TOTAL - 17	Adish Raipure(R) Ajinkya Pimple(R) Gaurav Pundkar (R) Kanchan Raut(R) Shankar Shinde(R) Suryakant Ingle(R) Yash Dalal(R) Aaryan Khanderao(N) Ashish Dandade(N)	Bhavy Mittal(N) Shivangi Kale(N) Sudhir Ghagare(N) Ujjwal Devre(N) Yoshi Nawange(N) Komal Murumkar (MBA) Vaishnavi Dhumale (MBA) Asmita Rawankar(MBA)
14	JNK India Pvt. Ltd., Mumbai	MECH - 03  TOTAL - 03	Pooja Wankhade (M) Ankit Nikhare (M)	Vaibhav Pingle (M)
15	JNK India Pvt. Ltd., Mumbai	CSE - 02 IT - 01  TOTAL - 03	Ashish Mehare (R) Sanket Deshmukh (R)	Ashish Dandade (N)
16	IBM India Ltd., Bangalore	CSE - 04 IT - 01  TOTAL - 05	Ajinkya Pimple (R) Divya Agrawal (R) Krutika Dharangaonkar (R)	Lokesh Chandak (R) Pratik Harne (N)

# PLACEMENT DATA OF THE YEAR 2022-23

Sr. No	Name of Company	BRANCHWISE STATUS	Name of students placed	
17	Pregrad, Noida	CSE - 02 EXTC - 06 MECH - 02 EE - 01 IT - 03 TOTAL - 14	Apeksha Mundhada (R) Himanshu Jamwal (R) Diksha Bhutekar (N) Tanmay Band (N) Tushar Ingle (N) Disha Nagpal (U) Hardik Motghare (U)	Harshita Wankhade (U) Namrata Kherde (U) Saptadeep Nag (U) Vaishnavi Gawande (U) Gayatri Eadaskar (S) Shubham Gawande (M) Tushar Joshi (M)
18	Pin Click Property Management Pvt. Ltd., Bangalore	MBA - 02 TOTAL - 02	Kartik Rahane (MBA)	Mahesh Gawande (MBA)
19	Wipro PARI Pvt. Ltd. Satara	MECH - 03 TOTAL - 03	Darshan Chaure(M) Krushna Thakare(M)	Pranav Tathod (M)
20	Trimasys Control Solutions Pvt. Ltd., Pune	EXTC - 08 TOTAL - 08	Dnyaneshwari Khade (U) Gaurav Bandhaokar (U) Gaurav Chavhan (U) Kartik Bhuibhar (U)	Mitali Shegokar (U) Prasad Shingnapure (U) Pratik Hage (U) Shwetatai Bhagat (U)
21	Collabera Services Pvt. Ltd., Vadodara	EXTC - 01 TOTAL - 01	Gaurav Bandhaokar (U)	
22	Bajaj Finserv	MBA - 07 TOTAL - 07	Jay Tayade (MBA) Swapnil Bondre (MBA) Arjun Wasatkar (MBA) Amit Bhangre (MBA)	Rushabh Sardeshmukh(MBA) Vithal Tale (MBA) Gauri Chikte (MBA)
23	Torrent Power Ltd. Bhiwandi, Thane	EE - 09 TOTAL - 09	Abhijit Solanke (S) Deepali Kharate (S) Harshal Lande (S) Harshal Shelke (S) Haarsih Thokane (S)	Manjushri Narwade (S) Nishant Matode (S) Parth Gawande (S) Prajwal Thakare (S)
24	ESAF Bank, Akola	MBA - 02 TOTAL - 02	Rushabh Sardeshmukh	Kamlesh Umbarkar
25	CSB, Akola	MBA - 01 TOTAL - 01	Ishan Shah (MBA)	
26	ICICI Prudential	MBA - 01 TOTAL - 01	Rohit Shekokar (MBA)	
27	Coal Field, Chandrapur	MBA - 01 TOTAL - 01	Ganesh Mandal (MBA)	
28	IMCS Group, Indore	MBA - 01 TOTAL - 01	Shrawan Pawar (MBA)	
29	AARC Construction, Akola	MBA - 01 TOTAL - 01	Shubham Mhatre (MBA)	
30	Infosys Limited, Bangalore	MBA - 01 TOTAL - 01	Vishal Isal (MBA)	
31	Mold Tek Technologies Pvt. Ltd., Pune	MECH - 12 TOTAL - 12	Apurv Savji (M) Ishika Isolikar (M) Kartik Jadhao (M) Krushna Thakare (M) Manthan Waghaye (M)	Nikita Pargharmol (M) Pranav Tathod (M) Rakesh Shrawankar (M) Ritesh Hinge (M) Ritik Kuntawar (M)

# PLACEMENT DATA OF THE YEAR 2022-23

Sr. No	Name of Company	BRANCHWISE STATUS	Name of students placed	
31	Mold Tek Technologies Pvt. Ltd., Pune	MECH - 12 TOTAL - 12	Shubham Nikalje (M)	Vilas Thigale (M)
32	Vista Infosec Pvt.Ltd., Mumbai	IT - 01 TOTAL - 01	Prathamesh Akotkar (N)	
33	Clariant Power Systems Limited, Pune	EXTC - 03 EE - 01 TOTAL - 04	Homeshwari Deotale (S) Gayatri Kungade (U)	Pallavi Kokate (U) Pratik Hage (U)
34	Anant Defence Systems Pvt. Ltd., Pune	MECH - 13 TOTAL - 13	Ishika Isolikar (M) Sakshi Mokashi (M) Abhishek Wankhade (M) Abhishek Lambe (M) Gajanan Sathe (M) Govind Pitty (M) Hrishikesh Hulke (M)	Kartik Ghatmal (M) Krushna Thakare (M) Pawan Gawande (M) Pranav Tathod (M) Ritik Kuntawar (M) Tushar Joshi (M)
35	State Street HCL Service, Pune	MBA - 02 TOTAL - 02	Ayush Saraph (MBA)	Hrutik Shah (MBA)
36	Nimap Infotech, Mumbai (through MC Talent)	IT - 01 TOTAL - 01	Diksha Bhutekar (N)	
37	HCL Tech, Noida	CSE - 01 TOTAL - 01	Shankar Shinde (R)	
38	Marquardt India Pvt. Ltd., Pune	EXTC - 02 MECH - 01 TOTAL - 03	Priti Mankar (U) Vidhi Parashar (U)	Akanksha Hurlpade (M)
39	Optical Arc, Pune	CSE - 01 IT - 01 MBA - 01 TOTAL - 10	Tanishq Nanda (R) Vedant Polshettiwar (N) Jyotsna Hiwale (MBA) Purva Fuse (MBA) Revati Lokhande (MBA)	Shaikh Avez (MBA) Shivani Damodar (MBA) Vaishnavi Khandare (MBA) Prerna Sonankar (MBA) Dhanashri Waghole (MBA)
40	Jagdamba Auto Components, Pune	MECH - 05 TOTAL - 05	Govind Pitty (M) Shrikrushna Chavan (M) Shubham Khandare (M)	Sourabh Sharma (M) Varun Kukadkar (M)
41	Parason Machinery India Pvt. Ltd., Ch.Sambhajinagar	MECH - 10 MBA - 04 TOTAL - 14	Gauri Kale (M) Ishika Isolikar (M) Pawan Gawande (M) Sakshi Mokashi (M) Shubham Khandare (M) Priya Asolkar (M) Rishabh Turkar (M)	Sumit Avhale (M) Vilas Thigale (M) Mohit Lanjudkar (M) Pournima Gawali (MBA) Priya Dhamode (MBA) Shubham Deshmukh (MBA) Pavan Jadhav (MBA)
42	Universal Transformers Pvt.Ltd., Bhopal	EE - 01 TOTAL - 01	Suraj Wagh (S)	
43	Mahindra & Mahindra Ltd., (Farm Division)Nagpur	MECH - 01 TOTAL - 01	Mitali Bele (M)	
44	Axis Bank, Nagpur	MBA - 02 TOTAL - 02	Girish Sathe (MBA)	Shivani Damodhar (MBA)



# PLACEMENT DATA OF THE YEAR 2022-23

Sr. No	Name of Company	BRANCHWISE STATUS	Name of students placed	
45	Kotak Mahindra Bank	MBA - 03 TOTAL - 03	Gaurav Deshmukh (MBA) Rohit Shekokar (MBA)	Vishal Isal (MBA)
46	Set On Site Electrical Pvt. Ltd., Ch.Sambhajinagar	EE - 02 TOTAL - 02	Kaushal Dave (S)	Prathamesh Kalpande (S)
47	INNOVA Rubbers Pvt. Ltd., Nashik	MECH - 06 TOTAL - 06	Ajay Solanke (M) Akshay Kachole (M) Samyak Wankhade (M)	Swapnil Jadhav (M) Yash Parikh (M) Nikita Pargharmol (M)
48	SCOPE T&M Pvt. Ltd., Pune	EXTC - 05 EE - 02 TOTAL - 07	Dnyaneshwari Khade (U) Lalit Pathade (U) Radhika Mirge (U) Saptadeep Nag (U)	Vaishnavi Chavan (U) Aishwarya Tayade (S) Gayatri Eadaskar (S)
49	Bhogale Automotive Pvt. Ltd., Aurangabad	MECH - 05 TOTAL - 07	Ajay Devche (M) Akash Thote (M) Bhushan Rothe (M) Komal Tayade (M) Sahil Darlawar (M)	Shubham Nikalje (M) Sumit Avhale (M) Vikram Nage (M) Vilas Thigale (M)
50	ExcelR Solutions	MBA - 03 TOTAL - 03	Nikita Jadhav (MBA) Nisha Hage (MBA)	Shaikh Avez (MBA)
51	Ferro Oiltek, Malkapur	MECH - 01 TOTAL - 01	Sahil Darlawar (M)	
52	Usthaan Integrated Solutions Pvt. Ltd.,	MBA - 02 TOTAL - 02	Avinash Bhochare (MBA)	Tushar Makode (MBA)
53	Johnson & Johnson, Aurangabad	MECH - 03 TOTAL - 03	Akash Thote (M) Bhushan Rothe (M)	Shrikrushna Chavan (M)
54	TekLink, Hyderabad	CSE - 02 TOTAL - 02	Anand Agrawal (R)	Mohd. Aarib Ozair (R)
55	Tech Mahindra Support, Pune	MECH - 03 TOTAL - 03	Akash Thote (M) Bhushan Rothe (M)	Shrikrushna Chavan (M)
56	Johnson & Johnson, Aurangabad	MBA - 01 TOTAL - 01	Vaishnavi Khandare (MBA)	
57	Metalman Autocomp Pvt. Ltd., Aurangabad	EXTC - 05 TOTAL - 05	Ashwini Kharode (U) Neha Bansod (U) Nitin Fokmare (U)	Tanavi Borse (U) Vaishnavi Rakhonde (U)
58	Umasons Auto Pvt. Ltd., Aurangabad	EXTC - 02 TOTAL - 02	Sejal Vijay Kurhade(U)	Shraddha Bhore(U)
59	TATA Technologies, Pune	CSE - 03 IT - 02 TOTAL - 05	Shruti Lambe (R) Ritesh Manusmare (R) Apeksha Mundhada (R)	Ruchita Agrawal (N) Snehdeep Raut (N)
60	BYJUs, Bangalore	EXTC - 01 EE - 01 IT - 01 TOTAL - 03	Shreya Kharche (N) Revati Borde (S)	Vaishnavi Rakhonde (U)

## PLACEMENT DATA OF THE YEAR 2022-23

Sr. No	Name of Company	BRANCHWISE STATUS	Name of students placed
61	Advance Business & Health Care Solution, Vadodara	CSE - 01 TOTAL - 01	Vishal Rathod (R)
62	HCL Technologies Ltd.,	CSE - 01 TOTAL - 01	Siddhi Mehta (R)
63	RuppeeBoss Financial Services Ltd.,	MBA - 02 TOTAL - 02	Pournima Gawali (MBA)      Yogesh Katre (MBA)
64	Thyssen Krupp Pune	MECH - 02 TOTAL - 07	Akshay Kachole (M)      Bhavesh Talokar (M)
65	Mphasis	MBA - 02 TOTAL - 02	Pournima Gawali (MBA)      Yogesh Katre (MBA)
66	Kamal Fincap Pvt. Ltd.,	MBA - 01 TOTAL - 01	Rahul Chunekar (MBA)
67	HDFC Bank	Mba - 04 TOTAL - 04	Avinash Bhochare (MBA)      Dipali Jawkar (MBA) Tushar Makode (MBA)      Mahesh Gawande (MBA)
68	Tejgroup, Pune	MBA - 01 TOTAL - 01	Gayatri Shelkar (MBA)
69	Micropro Software Solutions Pvt.Ltd., Nagpur	CSE - 01 EXTC - 01 TOTAL - 02	Himanshu Jamwal (R)      Rutuja Modak(U)
70	One Asia Network India Pvt. Ltd., Khamgaon	EE - 01 TOTAL - 01	Hitesh Chandewar (S)
71	Mechatronics System Pvt. Ltd., Pune	EXTC - 03 TOTAL - 03	Pallavi Diware (U)      Sumedh Mankar (U) Prajakta Gouture (U)
<b>Total Students Placed</b>		<b>386</b>	
<b>Total number of Companies</b>		<b>71</b>	

# PLACEMENT DATA OF THE YEAR 2022-23

Sr. No.	Name of Company	Branchwise Status					No.of students placed
		C S E	E X T C	M E C H	E E	I T	
01	Tata Consultancy Services Ltd., Pune	18	20	06	10	19	73
02	Hexaware Technologies, Pune	03	02	-	01	02	08
03	Tech Mahindra Ltd., Pune	09	03	-	-	04	16
04	Aker Solutions Pvt.Ltd., Mumbai	-	-	-	01	-	01
05	ParentPay, Pune	01	02	-	-	01	04
06	Sankey Business Solutions Pvt. Ltd., Thane	02	02	-	-	03	07
07	Exploe Group, Pune	03	04	-	01	03	11
08	ABB Limited, Nashik	-	02	01	12	-	15
09	NeoSoft Technologies, Pune	03	-	-	-	-	03
10	Reckonsys, Pune	-	01	-	-	-	01
11	Planet Spark, Gurgaon	-	02	-	-	-	02
12	Adani Group, Mumbai	-	03	02	15	-	20
13	Rialtes Technologies LLC, Pune	07	10	-	-	07	14
14	JNK India Pvt. Ltd., Mumbai	-	-	03	-	-	03
15	Digital Leaf Solutions, Hyderabad	02	-	-	-	01	03
16	Pregrad, Noida	02	06	02	01	03	14
17	IBM India, Bangalore	04	-	-	01	-	05
18	Wipro PARI Pvt.Ltyd. Satara	-	-	03	-	-	03
19	Collabera Services Pvt. Ltd., Vadodara	-	01	-	-	-	01
20	Torrent Power Ltd. Bhiwandi, Thane	-	-	-	09	-	09
21	Vista Infosec Pvt.Ltd., Mumbai	-	-	-	-	01	01
22	Trimasys Control Solutions Pvt. Ltd., Pune	-	08	-	-	-	08
23	Mold Tek Technologies Pvt. Ltd., Pune	-	-	12	-	-	12
24	Clariant Power System Ltd., Pune	-	03	-	01	-	04
25	Anant Defence Systmes Pvt. Ltd., Pune	-	-	13	-	-	13
26	Nimap Infotech, Mumbai (through MC Talent)	-	-	-	-	01	01
27	Marquardt India Pvt.Ltd., Pune	-	02	01	-	-	03
28	Optical Arc, Pune*	01	-	-	-	01	02
29	Jagdamba Auto Components, Pune	-	-	05	-	-	05
30	Parason Machinery India Pvt.Ltd., Ch.Sambhajinagar	-	-	10	-	-	10
31	Mahindra & Mahindra Ltd., (Farm Division) Nagpur	-	-	01	-	-	01



# PLACEMENT DATA OF THE YEAR 2022-23

Sr. No.	Name of Company	Branchwise Status					No. of students placed
		C S E	E X T C	M E C H	E E	I T	
32	Universal Transformers Pvt. Ltd., Bhopal	-	-	-	01	-	01
33	HCL Tech, Noida	01	-	-	-	-	01
34	INNOVA Rubbers Pvt. Ltd., Nashik	-	-	06	-	-	06
35	SCOPE T&M Pvt. Ltd., Pune	-	05	-	02	-	07
36	Bhogale Automotive Pvt. Ltd., Aurangabad	-	-	09	-	-	09
37	SetOn Site Electrical Pvt. Ltd., Ch.Sambhajinagar	-	-	-	02	-	02
38	Ferro Oiltek, Malkapur	-	-	01	-	-	01
39	Johnson & Johnson, Aurangabad	-	-	03	-	-	-
40	TekLink, Hyderabad	02	-	-	-	-	02
41	Bizsense Solution Pvt. Ltd., Nagpur	01	-	-	-	-	01
42	Metalman Auto Pvt. Ltd., Aurangabad	-	05	-	-	-	05
43	Umasons Autocomp Pvt. Ltd., Aurangabad	-	02	-	-	-	02
44	TATA Technologies, Pune	03	-	-	-	-	03
45	HCL Technologies Ltd.,	01	-	-	-	-	01
46	Thyssen Krupp Pune	-	-	02	-	-	02
47	Micropro Software Solutions Pvt.Ltd., Nagpur	01	01	-	-	-	02
48	One Asia Network India Pvt. Ltd., Khamgaon	-	-	-	01	-	01
49	BYJUs, Pune	-	01	-	01	01	03
50	Mechatronics System Pvt. Ltd., Pune	-	03	-	-	-	03
51	Advance Business & Health Care Solution, Vadodara	01	-	-	-	-	01
	MBA						12
TOTAL NUMBER OF STUDENTS PLACED		46	64	55	42	42	249+44
TOTAL NUMBER OF OFFERS		65	78	80	58	50	331+55

# TOP RECRUITS 2022-23



Abhijeet Solanke  
**8 LPA**  
ABB Limited, Nashik



Gauri Masne  
**8 LPA**  
ABB Limited, Nashik



Tejal Thakare  
**8 LPA**  
ABB Limited, Nashik



Vaishnavi Bhalerao  
**8 LPA**  
ABB Limited, Nashik



Sakshi Aware  
**8 LPA**  
ABB Limited, Nashik



Sejal Hattel  
**8 LPA**  
ABB Limited, Nashik



Vaishnavi Maharkhede  
**8 LPA**  
ABB Limited, Nashik



Abhishek Bathe  
**8 LPA**  
ABB Limited, Nashik



Chinmay Patil  
**8 LPA**  
ABB Limited, Nashik



Harshal Shegokar  
**8 LPA**  
ABB Limited, Nashik



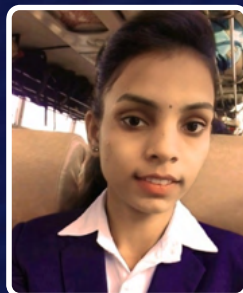
Jayesh Bansod  
**8 LPA**  
ABB Limited, Nashik



Shwetatai Bhagat  
**8 LPA**  
ABB Limited, Nashik



Kalyani Bhagwat  
**8 LPA**  
ABB Limited, Nashik



Pooja Wankhade  
**8 LPA**  
ABB Limited, Nashik



Sanket Deshmukh  
**7.8 LPA**  
Digitalleaf Solutions

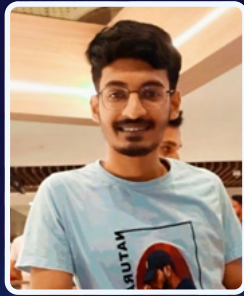


Ashish Mehare  
**7.8 LPA**  
Digitalleaf Solutions





Ashish Dandade  
**7.8 LPA**  
Digitalleaf Solutions



Bhavesh Mittal  
**7 LPA**  
TCS Ltd., Pune



Pramey Deshmukh  
**7 LPA**  
TCS Ltd., Pune



Thavar Setiya  
**7 LPA**  
TCS Ltd., Pune



Shruti Singhaniya  
**7 LPA**  
TCS Ltd., Pune



Om Nalamwar  
**7 LPA**  
TCS Ltd., Pune



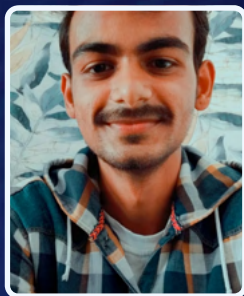
Raj Thakare  
**7 LPA**  
TCS Ltd., Pune



Rushikesh Patil  
**7 LPA**  
TCS Ltd., Pune



Tiwar Zade  
**7 LPA**  
TCS Ltd., Pune



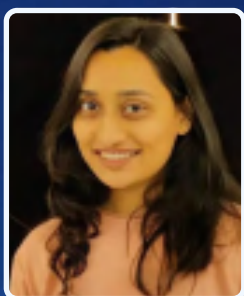
Prananjay Kandekar  
**7 LPA**  
TCS Ltd., Pune



Revati Borde  
**7 LPA**  
BYJU'S



Shreya Kharche  
**7 LPA**  
BYJU'S



Gayatri Kungade  
**6.5 LPA**  
PlanetSpark



Janhavi Saoji  
**6.5 LPA**  
PlanetSpark



Shankar Shinde  
**6 LPA**  
HCL Tech, Noida



Mayuri Kharpathe  
**6.5 LPA**  
Adani Electricity, Mumbai





Ankita Madiwale  
**6.5 LPA**  
Adani Electricity, Mumbai



Amit Bahekar  
**6.5 LPA**  
Adani Electricity, Mumbai



Aniket Patekar  
**6.5 LPA**  
Adani Electricity, Mumbai



Azhar Fakira  
**6.5 LPA**  
Adani Electricity, Mumbai



Faizankhan Pathan  
**6.5 LPA**  
Adani Electricity, Mumbai



Gaurav Kedar  
**6.5 LPA**  
Adani Electricity, Mumbai



Prajwal Thakare  
**6.5 LPA**  
Adani Electricity, Mumbai



Tejas Bhoiwnad  
**6.5 LPA**  
Adani Electricity, Mumbai



Saurabh Satao  
**6.5 LPA**  
Adani Electricity, Mumbai



Sumit Bhute  
**6.5 LPA**  
Adani Natural Resources



Yash Saiwal  
**6.5 LPA**  
Adani Natural Resources



Aadinath Kale  
**6.5 LPA**  
Adani Natural Resources



Varad Sovale  
**6.5 LPA**  
Adani Natural Resources

Hearty  
Congratulations!  
SSGMCE wishes you a  
Great Career ahead!



# TATTWADARSHI

## TEAM

### 2023



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Faculty Advisor



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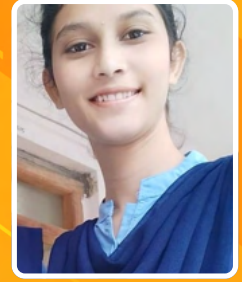
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News/Reports





## अभियांत्रिकी महाविद्यालय में 14 तथा 15 जनवरी को पूर्व छात्र सम्मेलन



शहर संवाददाता | शेगांव

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालय में पूर्व छात्र का सम्मेलन १४ तथा १५ जनवरी को महाविद्यालय के नए सभागृह में आयोजित किया गया है।

हर साल इस सम्मेलन का आयोजन महाविद्यालय द्वारा किया जाता है। महाविद्यालय के छात्र देश व परदेश में विविध क्षेत्र में बड़े-बड़े पद पर कार्यरत हैं। उसी तरह कुछ छात्र स्वयं का उद्योग हैं। इस दौरान कई छात्र एक साथ आएंगे तथा वे आज पढ़ रहे छात्रों से संवाद साध कर मार्गदर्शन कर सकेंगे। उद्योग जगत में हो रहे बदलाव के अंगत करवाकर देंगे, जिस कारण महाविद्यालय में पढ़ रहे छात्र उसके अनुसार तैयारी कर सकेंगे व नौकरी के मौके उपलब्ध होंगे। शिक्षा खत्म होने के बाद महाविद्यालय को भेंट देने का मौके पर कई पुराने दोस्तों से भेंट होगी। जानकारी का लेन-देन होता है, पूर्व छात्र एकसाथ आकर सम्बन्ध प्रगाढ़ होते हैं। कार्यक्रम में पूर्व छात्रों का मंतव्य, उसी तरह वर्तमान में अध्ययनरत छात्रों से संवाद, सांस्कृतिक कार्यक्रम आदान-प्रदान का समावेश होता है। महाविद्यालय द्वारा सभी पूर्व छात्रों को ई-मेल, संदेश, कॉल द्वारा निर्मित किया गया है। उन्हें निवास, भोजन एवं अन्य सभी आवश्यक सुविधा उपलब्ध की गई है। अब तक करीबन ६०० पूर्व छात्रों के नाम दर्ज किये हैं, अब भी पंजीयन की प्रक्रिया जारी है। जिसमें कई छात्र जहाँ परदेश में यथा अमेरिका, जर्मनी, दुबई में नौकरी करते हैं, उनका भी समावेश है। हर पूर्व छात्र अपने परिवार के साथ आकर शामिल होते हैं। इस सम्मेलन को सफल करने के लिए महाविद्यालय द्वारा जोरदार तैयारी की जा रही है। महाविद्यालय के पूर्व छात्र अधिक से अधिक संख्या में उपस्थित रहें, ऐसी अपील महाविद्यालय की ओर से प्राचार्य तथा पूर्व छात्र कक्षा के समन्वयक ने की है।



# MEDIA COVERAGE

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## SSGMCE organises convocation ceremony

**■ Our Correspondent**  
SHEGAON, Aug 3

THE convocation ceremony of Shri Sant Gajanan Maharaj Engineering College for academic session 2019-20 was held in the college premises as per the guidelines of Sant Gadge Baba Amravati University, Amravati, on Monday.

Vinod Paraskar was the chief guest while Principal Dr S B Sonmani, Secretary of Shri Gajanan Shikshan Sanstha Shirdi Shinde and Director of the

College Shikshadada Patti were prominently present on the dais. Addressing the gathering, Principal of the college Dr S B Sonmani congratulated gold medalists as well as students who were the part of merit list. He extended College's commitment to excellence while emphasizing on skills-based education.

Chief guest Vinod Paraskar underlined the need for students to change according to the changing times and to pursue research by recognizing the needs of the society.

Gold medalist students VM Karmagajbhar and Mayur Talu as well as students who had secured a place in the merit list were honored with insignia. A degree was conferred by the dignitaries in accordance with the rules of social distance, while the streaming of the programme was conducted for the students who could not attend. All dear hosts, faculty members were present for the ceremony. Pr Sachin Bhagat conducted the programme while Prof AV Pa proposed a vote of thanks.

Successful students along with dignitaries during the programme.

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**ePaper वेदावती**

7/8

## 'दुसरा टेन्टोलांनी बोर स्पॉर्ट सिटी' बा विचारवाच दिसीय राष्ट्रीय प्राध्यापक विकास चर्चासत्र

देराडूनची वृत्तसंकलन...

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयात याच वर्षी १४ आणि १५ जानेवारीला माजी विद्यार्थी मेळाव्याचे आयोजन केले आहे. यावेळी विद्यार्थी यांच्या विकासासाठी विचारवाच दिसीय राष्ट्रीय प्राध्यापक विकास चर्चासत्र आयोजित केले आहे. यावेळी विद्यार्थी यांच्या विकासासाठी विचारवाच दिसीय राष्ट्रीय प्राध्यापक विकास चर्चासत्र आयोजित केले आहे.

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयात याच वर्षी १४ आणि १५ जानेवारीला माजी विद्यार्थी मेळाव्याचे आयोजन केले आहे. यावेळी विद्यार्थी यांच्या विकासासाठी विचारवाच दिसीय राष्ट्रीय प्राध्यापक विकास चर्चासत्र आयोजित केले आहे.

## श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयाच्या वार्षिक वार्षिक प्रदान

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयाच्या वार्षिक वार्षिक प्रदान

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयाच्या वार्षिक वार्षिक प्रदान

## श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयात राष्ट्रीय चर्चासत्र

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयात याच वर्षी १४ आणि १५ जानेवारीला माजी विद्यार्थी मेळाव्याचे आयोजन केले आहे. यावेळी विद्यार्थी यांच्या विकासासाठी विचारवाच दिसीय राष्ट्रीय प्राध्यापक विकास चर्चासत्र आयोजित केले आहे.

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## SSGMCE, Shegaon signs MOU with Imperial Society, NOIDA

**■ Our Correspondent**  
SHEGAON, Jan 20

NABrief ceremony of MoU signing and exchange, Shri Sant Gajanan Maharaj College of Engineering (SSGMCE), Shegaon and Imperial Society of Innovative Engineers, Noida, Uttar Pradesh, joined hands to make the youth of ndia skilful and employable.

Principal Dr S B Sonmani and /mod Gupta, Founder and CEO of ISIEINDIA, signed and exchanged the MoU.

The MoU will enable the establishment of Centre of Excellence in Electric Vehicle at SSGMCE campus.

This centre of excellence will impart the trainings on Electric Vehicle Technology and also focus on the research in the field of EV, Battery Management systems, Drivetrains and

Electronics Controls in EV. The students of Electrical Engineering, Mechanical Engineering and Electronics Engineering will be largely benefited. This will be one of its first kind of centre of excellence in Maharashtra.

The COE will also facilitate the job-oriented training programmes for Diploma and ITI students who want to pursue their career in the field of electric vehicles.

The Electrical Engineering Department of SSGMCE has taken hand efforts to establish and coordinate the MoU.

Vinod Gupta, Shubhankar Chakraborty and Rupali Agrawal from ISIEINDIA and management representative, Principal, Heads of various departments, Deans and faculty members from SSGMCE Shegaon were present for the programme.

## श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयात येत्या १४ आणि १५ जानेवारीला माजी विद्यार्थी मेळाव्याचे आयोजन

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयात याच वर्षी १४ आणि १५ जानेवारीला माजी विद्यार्थी मेळाव्याचे आयोजन केले आहे. यावेळी विद्यार्थी यांच्या विकासासाठी विचारवाच दिसीय राष्ट्रीय प्राध्यापक विकास चर्चासत्र आयोजित केले आहे.

## SSGMCE's magazine wins prize in SGABU contest

**■ Our Correspondent**  
SHEGAON, May 4

SGABU Sant Gajanan Maharaj College of Engineering (SSGMCE)'s annual magazine Tattvadarshi-2021 has been awarded the second prize in the Annual Magazine Competition of Sant Gadge Baba Amravati University (SGABU), Amravati (Professional Stream).

On behalf of College, Prof Sachin Bhagat accepted the second prize in the form of certificate and memento at the auspicious hands of Vice-Chancellor Dr Dilip Makhde in a prize distribution ceremony organised by SGABU, Amravati at its campus, the other day. The prize is awarded on the parameters like the novelty of articles, creativity, readability, design, printing and binding quality etc.

SSGMCE's Tattvadarshi is published annually and has many sections that cover the articles, poems, drawing, sketching, college achievements and reports of the various departments and central activities. Annual magazine helps in bringing out the artistic talents in the students. Striving constantly for excellence, an endless pursuit for perfection and progress, with innovation and creativity has always been part of the work culture of the institution.

This prize has been a result of perseverance and hard work by the Management, faculty and students. Director, Principal, teaching and staff congratulated the members of the magazine committee for their success.

Prof Sachin Bhagat accepting certificate at the hands of SGABU V-C Dr Dilip Makhde on other students took on.

## किरण कोलते विद्यार्थ्यांला सात लाख रुपयांचे पॅकेज

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालयात याच वर्षी १४ आणि १५ जानेवारीला माजी विद्यार्थी मेळाव्याचे आयोजन केले आहे. यावेळी विद्यार्थी यांच्या विकासासाठी विचारवाच दिसीय राष्ट्रीय प्राध्यापक विकास चर्चासत्र आयोजित केले आहे.







# MEDIA COVERAGE

## विद्युत अभियांत्रिकी विभाग की कंपनी के साथ सामंजस्य करार

शहर संवाददाता | शेरागंज

श्री संत गजानन महाराज अभियांत्रिकी महाविद्यालय के विद्युत अभियांत्रिकी विभाग ने मित्सुबिशी इलेक्ट्रिकल इंडिया तथा वि.आई. सोल्युशन्स, बेंगलूर इस कंपनी के साथ हाल ही में सामंजस्य करार किए। मित्सुबिशी इलेक्ट्रिकल इंडिया द्वारा छात्र तथा प्राध्यापकों को फैक्टर आटोमेशन, पी.एल.सी. प्रोग्रामिंग तथा फैक्टर प्रोडक्ट्स इन विषयों पर प्रशिक्षण दिया जाएगा। उसका लाभ छात्रों को अपना कोशल्य बढ़ाने के लिए होगा। तो वि.आई.सोल्युशन्स बेंगलूर के साथ सिग्नल प्रोसेसिंग, इमेज प्रोसेसिंग, इलेक्ट्रिकल ड्राइंग, पॉवर क्वालिटी, आर्टिफिशियल इंटेलिजेंस एवं इलेक्ट्रिकल उपकरणों के कंडिशन मॉनिटरिंग इस विषय पर एकसाथ काम किया जाएगा। उसी तरह कंपनी में छात्रों के लिए इंटरनशिप, वर्कशॉप तथा प्राध्यापकों के लिए प्राध्यापक विकास कार्यक्रम आयोजित किए जाएंगे। यह करार छात्र, संशोधक एवं प्राध्यापकों को एक नए क्षेत्र बाबत कोशल्य बढ़ाने उपयुक्त साबित होगा, इस कंपनी के साथ महाविद्यालय के प्राध्यापक एवं छात्रों की तांत्रिक बाबी संदर्भ में लेन - देन होगा। उसी तरह इस



करार से छात्रों को नए तंत्रज्ञान की जानकारी, कोशल्य विकास तथा नौकरी विषयक विविध मौके प्राप्त होंगे। इस के पहले महाविद्यालय ने राष्ट्रीय एवं अंतरराष्ट्रीय स्तर पर वे आदि कई कंपनियों के साथ सामंजस्य करार हुए हैं। ऐसे कारण कारण महाविद्यालय में शिक्षा के साथ ही संशोधन का वातावरण निर्माण हुआ है। ग्रामीण परिसर के छात्रों के तंत्रशिक्षा मिले, इस हेतु से १९.८ वर्ष में अभियांत्रिकी महाविद्यालय की शुरुआत हुई, उसके आगे छात्रों को शिक्षण देना इतना पर ही नहीं उठरते उनका कल संशोधन की ओर कैसे मोड़ा जाएगा यह देखकर उस दृष्टि से संस्था ने अपने कदम उठाए। यह करार पुरा होने वे लिए महाविद्यालय के संचालन श्रीकांतदादा पाटील तथा प्राचार्य डा. एस. वि. सोमण्णी के मार्गदर्शन में विद्युत अभियांत्रिकी विभाग वे प्रमुख डा. सुधीर पारसकर तथा प्राध्यापक डा. सौरभ जाधव ने काट दिया। **भाष्य 9561000010**



बुलडाणा 24-09-2022

## संत गजानन महाराज अभियांत्रिकी महाविद्यालयात कार्यशाळा

श्रीगंज | शेरागंज

केवळ ही संत गजानन महाराज अभियांत्रिकी महाविद्यालयात कार्यशाळा आयोजित करण्यात आली आहे. या कार्यशाळात विद्यार्थ्यांना विविध क्षेत्रांमध्ये प्रशिक्षण देण्यात येईल.

या कार्यशाळात विद्यार्थ्यांना विविध क्षेत्रांमध्ये प्रशिक्षण देण्यात येईल. या कार्यशाळात विद्यार्थ्यांना विविध क्षेत्रांमध्ये प्रशिक्षण देण्यात येईल.



संत गजानन महाराज अभियांत्रिकी महाविद्यालयात कार्यशाळा आयोजित करण्यात आली आहे.

कार्यशाळात विद्यार्थ्यांना विविध क्षेत्रांमध्ये प्रशिक्षण देण्यात येईल. या कार्यशाळात विद्यार्थ्यांना विविध क्षेत्रांमध्ये प्रशिक्षण देण्यात येईल.

## Kulkarni launches cricket academy

1 Sports Reporter

24/09/2022

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Dr. Suresh Kulkarni, President of SSGMCE, launching the cricket academy.



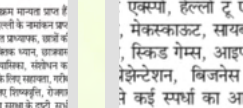
Students practicing cricket on a field.

## अभियांत्रिकी महाविद्यालय का डेटावेस्ट टॉप टी-स्कूल एम्पलोजाबिलिटी इंडेक्स सर्वे में समावेश

शहर संवाददाता | शेरागंज

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Students working on a project in a classroom.

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## तरुण भारत

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## आजपासून दोन दिवस आभासी राष्ट्रीय चर्चासत्र

श्रीसंत गजानन महाराज अभियांत्रिकी महाविद्यालयाचा उपक्रम

श्रीसंत गजानन महाराज अभियांत्रिकी महाविद्यालय यांच्या वतीने दोन दिवस आभासी राष्ट्रीय चर्चासत्र आयोजित करण्यात आले आहे. या चर्चासत्रात विद्यार्थ्यांना विविध क्षेत्रांमध्ये प्रशिक्षण देण्यात येईल. या चर्चासत्रात विद्यार्थ्यांना विविध क्षेत्रांमध्ये प्रशिक्षण देण्यात येईल.

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## Two-day alumni meet concludes at SSGMCE

Our Correspondent

SHEGAON, Jan 18

The grand alumni-meet of Shri Sant Gajanan Maharaj College of Engineering, Shegaon, (SSGMCE) was held recently at the campus of the college. College alumni from across the globe shared stories and past experiences during the two-day alumni meet.

The event was organised by the college's Alumni Association and was attended by over 550 alumni, representing different batches from past 40 years. The prestigious alumni of the college including Himanshu Goel, founder and CEO of Azipro Systems, Gurgaon, Uday Sampat, Vice President, ABB India Ltd, Sundi Dane, President and founder of e-Zest Solutions, Pune & USA, and Dilip Punglia, Business Strategy Development Consultant,



Dignitaries inaugurating the alumni meet at the SSGMCE.

London, were present on the dais on this occasion.

The day began with a warm welcome by principal, who thanked the alumni for their

continuous support and encouragement.

The alumni were given a tour of the campus, which had undergone several renovations

and upgrades since their graduation.

The highlights of the event include reciprocating speeches, Alumni-Faculty-Student Interaction where alumni shared their experiences and insights on their professional journeys after graduating from the college.

Successful alumni from various fields, including engineering, finance, HR and marketing participated in the meet.

The event also included a networking session, where alumni had the opportunity to connect with their peers and discuss career opportunities.

There was also a fun-filled cultural programme in the evening, including dance performances, music, and other entertainment performances.

Many alumni, who had stud-

ied at the college, also brought along their family members. They spoke of the transformation of the campus over the years.

"The event went off very well. People from across the world gathered and it is a great occasion and a nostalgic feeling for everyone. We have requested prominent alumni in the industry to contribute to the university and they have volunteered to mentor students, thus bridging the gap between the industry and the academia," noted the Principal of the College.

The college launched its newsletter on this occasion. Overall, the Alumni Meet was a great success and the college stated that it was looking forward to hosting more such events in the future to strengthen the bond between the alumni and their alma mater.



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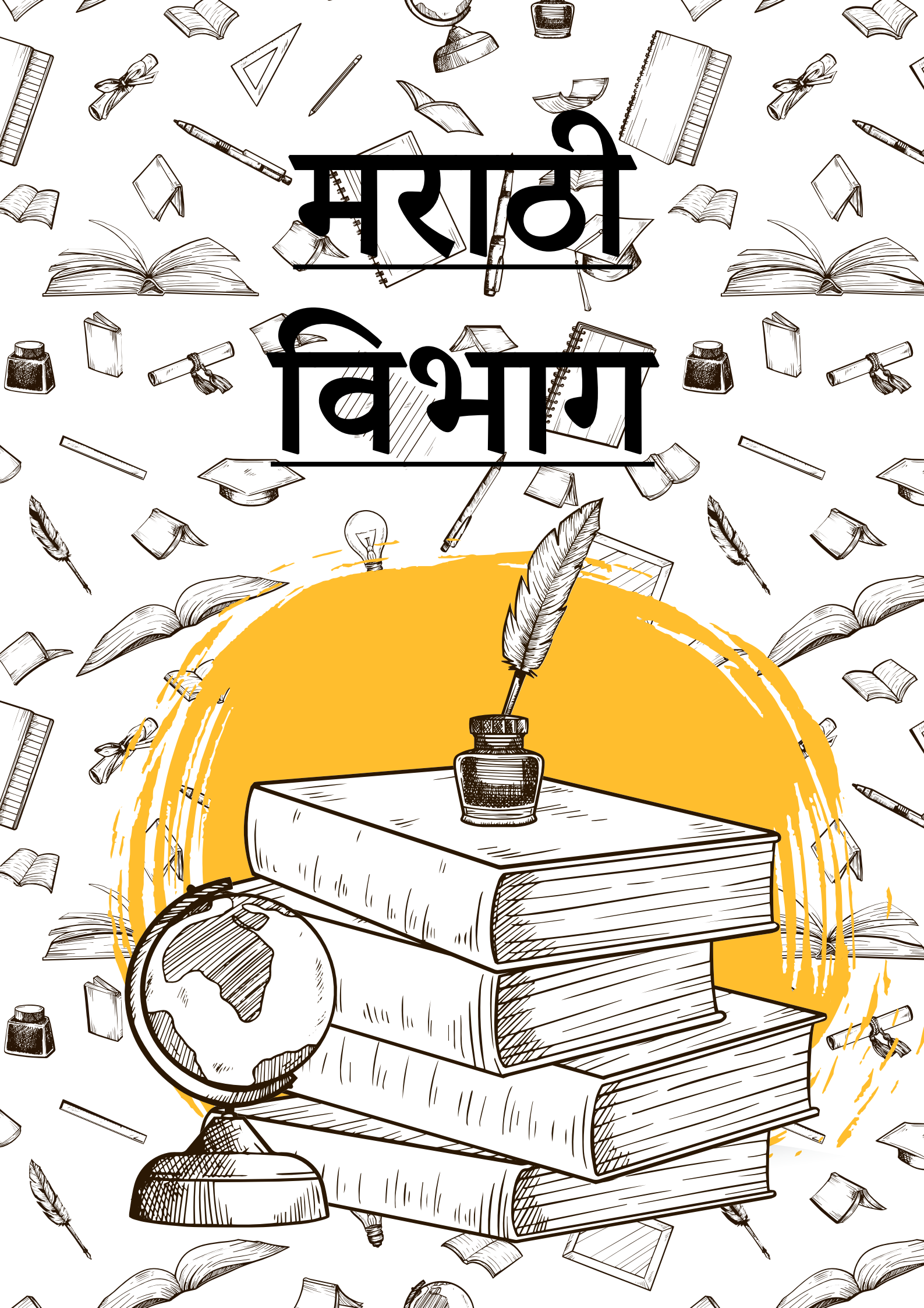








# मराठी विभाग





## संपादकीय...

तत्त्वदर्शींचे आणखी एक वर्ष संपन्न झाले असून ते तुमच्या समोर मांडतांना आम्हाला खूप आनंद व अभिमान वाटत आहे. तत्त्वदर्शी फक्त वर्षिकांक नसून ते महाविद्यालयातील विद्यार्थ्यांच्या विचारांना दर्शवते. विद्यार्थी काय विचार करतात त्यांच्या कल्पना, मते मांडण्यासाठी एक मोकळे व्यासपीठ म्हणजे "तत्त्वदर्शी".

तत्त्वदर्शी विद्यार्थ्यांना आपल्या मधील सुप्त कलांना ओळखण्याची संधी देते. मला नेहमीच असे वाटते की कविता लेख हे आपले विचार, कल्पना मांडण्याचे सर्वात उत्तम आणि प्रभावशाली माध्यम आहे. आयुष्याच्या प्रवासात अनेकदा हरवल्या सारखं वाटतं तेव्हा पुस्तकेच आपल्याला वाट दाखवतात, नवी दिशा, नव्या आशेने आपल्याला भरून टाकतात. "तत्त्वदर्शी" ही तुमच्या आयुष्याला नवी वाट, नवी दिशा देईल ही आशा करते.

आदरणीय प्राचार्य डॉ. एस. बी. सोमानी सर आणि तत्त्वदर्शी वर्षिकांचे मुख्य संपादक प्रा. एस. व्ही. भगत सर यांचे उल्लेखनीय असे मार्गदर्शन नेहमीच आम्हाला लाभले. त्यांनी अमूल्य सहकार्य केल्याबद्दल मी त्याची ऋणी आहे. मला मराठीतील सदस्यांची ही फार मदत झाली सर्वज्ञ धोटे आणि विकी भगत या दोघांचे पण खूप मोठे योगदान मराठी शाखेला झाले. त्या प्रत्येक विद्यार्थ्यांचे ही खूप अभिनंदन ज्यांचे लेख तत्त्वदर्शी मध्ये प्रकाशित झाले आहे. आम्ही जी मेहनत घेतली आहे, जे प्रयत्न केले आहेत ते सफल होतील ही प्रार्थना मनात धरून तुम्हाला मराठी विभाग नक्की आवडेल अशी आशा करते.

" आपली ही वाचन- यात्रा आनंदाने जावो हीच ईश्वरचरणी मनसोक्त कामना...!!"



**निलेश वाढवे**

तृतीय वर्ष  
यांत्रिक अभियांत्रिकी

**अनुक्रमाणिका**  
**- गद्य विभाग -**

अनु क्र.	शिर्षक	लेखकाचे नाव
१.	शब्द_माझे	अदिती देवघरे
२.	प्रवासात भेटणारी माणसं	पवण ठाकूर
३.	हो तू रणरागिणी	जान्हवी बिरे
४.	मन	संकेत देशमुख
५.	राज्यभिषेक सोहळा	अनुज निकम
६.	नवीन शैक्षणिक धोरण	निलेश वाढवे
७.	इंजिनिअर	कार्तिक घटमाल
८.	पैसा	निलेश वाढवे
९.	संत भूमि	विककी भगत
१०.	मी संविधान बोलतोय...	अदिती देवघरे



## अनुक्रमाणिका

### - पद्य विभाग -

अनु क्र.	शिर्षक	लेखकाचे नाव
१.	जीवन	ईश्वरी निकम
२.	प्रारब्धाची खेळी	अदिती देवघरे
३.	शाळा	नरेंद्र मोरे
४.	रात्र अशी ती	विककी भगत
५.	वाट	ऋतुजा पवार
६.	बहीन-भाऊ	ईश्वरी निकम
७.	महाराष्ट्र देशा	प्रतीक्षा सोलंके
८.	शोध स्वतः चा	वैष्णवी चोबे
९.	लिहायचं होत बरेच काही	ऋतुजा पवार
१०.	आयुष्य	गायत्री इंगळे
११.	व्यक्तिस्वातंत्र्य	श्रद्धा अमलकार
१२.	देवा तुझी साथ दे...	संकेत देशमुख
१३.	शोध	अदिती देवघरे

## शब्द माझे..

प्रत्येक वळणावर साथ देणाऱ्या माझ्या शब्दांना #समर्पित त..!!

या बोलक्या माणसांच्या जगात भटकतांना, #अबोल तरी पण मनमोकळा संवाद साधणाऱ्या शब्दांशी कधी मैत्री झाली कळलच नाही..!

हेशब्द नंअति शय चंचल आणि नि रागस असतात ; हसवतात ,रडवतात पण सरतेशेवटी प्रत्येक प्रसंगी साथ मात देतात. एक छोटासा #प्रयत्न कागदावर एकवटण्याचा..!!

खरंच हे#शब्द न कमालीचेजादूगार असतात..!

पण तेकसंअसतंमाहि तीय का,आयुष्यात शब्दांशी वावरताना, त्यांच्यामध्येगुरफटून जायला

नको..,शब्द फक्त अभि व्यक्तीचंमाध्यम असतात,मग ती अध्यात्माची असो,प्रेमाची वा इतर दुसऱ्या

गोष्टींची...शब्दांपेक्षा त्यामागील भावना जास्त महत्वाची असते,कारण हेशब्द फक्तंत्या भावनेला

आकार देऊनचि त्रुपात व्यक्त करण्याचं, मात एक साधन आहे.

कधी कधी हेशब्द नं, #Icecream पूर्ण खाऊन झाल्यावरफेकून दि लेल्या काडीसारखेदेखील

असतात, कारण आइस्क्रीम संपल्यानंतर त्याचा काही उपयोग नसतो, त्या काडीनंआइस्क्रीम धरून

ठेवण्याचंउद्दिष्ट सार्थ केलं, एवढंच..! हा मात जर कोणी #Craft\_making एक्स्पर्टअसेल तर तो भाग

वेगळा...,अश्याप्रकरेआइस्क्रीमची काडी आणि शब्द यांचेकाही #गुणधर्म जुळतात..!

त्यामुळेकधी कधी न शब्दांमागील भावना जाणूनघेतल्यानंतर त्या शब्दांकडेलक्ष द्यायचं

नसतं,परंतू, याचा अर्थ असा नाहि की शब्दांना #अर्थ नसतो,नाण्याला देखील दोन बाजूअसतात,मग

शब्दांचाचून कसंचालणार..!!

होत कधी कधी असंबरेचदाअनपेक्षि त गोष्टी घडून जातात,आणि त्यामूळेकाही प्रसंगी तेबोलून

दाखवल्यापेक्षा नंशब्दांत उतरवनेंखूप सोपंअसत..!असाच काहीसा प्रयत्न केलाय #व्यक्त

करण्याचा.....!

शब्द माझे, काव्यही माझे

अक्षरानंगंधाळलेलेशब्दफुलंमाझे

येतात हेकुठूनसे,

अन्कुठेतरी हरवून जातात

हेशब्द माझेमलाच हुल देऊन जातात



कधी रुसून बसतात ,  
 कधी मनमोकळ्या गप्पा मारतात,  
 हेशब्द माझेनेहमी वि चारात पाडतात  
 आलेच कधी अश्रूडोळ्यांशी  
 तर गालावर हसूदेखील फुलवतात  
 तर कधी बि लगून हमसून हमसून रडतात  
 कधी हळूवार फंु कर,  
 तर कधी आश्वस्त सुर होतात  
 हेशब्द माझेनेहमी भावनांत अडकवतात  
 कधी जळतात दग्ध होउन  
 तर कधी दाहक होउन जाळतात  
 हेशब्द माझे, मला माझ्याच पाश्यात फसवतात  
 पडतो प्रश्न अनेकदा, येतात कुठूनसे  
 अन्लगेच कुठेतरी हरवून जातात  
 हेशब्द माझे, माझ्याशीच लपंडाव खेळतात  
 असा कसा खेळ हा माझ्या शब्दांचा  
 मला माझ्याशीच हरपून टाकण्याचा...



**अदिती देवघरे**

द्वितीय वर्ष  
यांत्रिक इंजीनियरी

## प्रवासात भेटणारी माणसं

प्रवासात भेटणारी माणसं म्हणजे, रखरखत्या उन्हाचेचटके भासत असताना, वाटेत भेटलेली

झाडाची गर्द सावलीच जणू...!

कि ती कमालीची गोष्ट आहेनंकी, अनोळखी असणारेचेहरेअल्पशा वेळेतच आपली होऊन जातात...!!

दोन\_शब्द त्या प्रत्येक व्यक्तीसाठी जो वेळेप्रसंगी मार्गदर्शक बनला, कधी वाटसरू तर कधी खरा मि त्र..!

प्रवासात\_भेटणारी माणसं  
"प्रवासात भेटणारी माणसं,  
अनोळखी असूनही ओळखीची वाटतात  
ऋणानुबंध जुळलेलेनसताना देखील  
हृदयाच्या कप्प्यात घर करून जातात...  
कधी कधी ती काहीशी अनामि कही भासतात  
सागरांच्या लाटांप्रमाणेओसंडून वाहि ल्या तरी  
नेहमी सोबत असतात,  
परंतुत्यांची साथ सुटल्याची खंत सुध्दा वाटते.....  
काही मजेशीर, काही बेफि कि र  
नजरेनेनजरेनि शी हि तगुज करणारी  
अनोळखी अश्या ह्या परीचीतांशी  
होतेशब्दांशी देवाणघेवाण  
धागेगोवलेजातात आपलेपणाचे..!  
प्रवासात भेटणारी माणसं  
मनात घर करून उतरतात  
कधी काही समानार्थी शब्द बनून येतात  
गोंधळात पडलेल्या मनाला  
समाधान देऊन जातात  
खुप काही शि कवूनही जातात  
अल्पश्या वेळात आपली बनून जातात...,  
प्रवास संपला की  
आपल्या मार्गा नेप्रस्थान करतात  
उरतात मागेफक्त आठवणी  
ज्या मर्मला स्पर्श करून जातात...!!"



**पवण ठाकूर**

द्वितीय वर्ष  
माहिती तंत्रज्ञान अभियांत्रिकी



## हो तूरणरागिणी

स्त्री म्हणजे समाजाच्या विकासाचं अस्तित्व...

मायेचं, कर्तृत्वाचं, प्रेमाचं कोडं म्हणजे स्त्री.....

अस म्हणतात स्त्री समाजाचा विकास करणारी रणरागिणी आहे. मात्र या रणरागिणीच्या सुरक्षिततेबाबत आपल्या देशात काही तरतुदी आहेत का? नसतील तर त्या अमलात आणण्यासाठी आपण प्रयत्न करतो का?

सावित्रीबाई, झाशीची राणी लक्ष्मीबाई, मदर टेरेसा सिंधुताई, इंदिरा गांधी, किरण बेदी, मिताली राज अशा आणखी कितीतरी स्त्रियांनी आपल्या देशासाठी आपले सर्वस्व नौछावर केलेले आहे. मग ते माउंट एवरेस्ट गाठणे असो की चंद्रावर जाणे असो पुरुषांना मागे सारून ती पुढे सरसावत आहे. मात्र हे सर्व करत असताना तिला कधी घर असून बेघर व्हावं लागतं.....

कधी पती निधनानंतर त्यात चितेत जिवंत जळावं लागतं.....

कधी तिला शिक्षणक्रांती घडविण्यासाठी शेणाचा मारा सहन करावा लागतो....

कधी तिला पोटच्या पिलांसाठी मोलमजुरी करून झिझावं लागतं ....

कधी तिला आपले वडील हुंडा देऊ शकणार नाही या विचारांनी आत्महत्येस बळी पडावं लागतं.....

संसार चालवीत असताना हाताला चटके सहन करावी लागतात..

तर कधी तिला अमानविय अशा कृत्यांना अन्याय अत्याचारांना, अपहरणांना बळी पडावं लागतं.....

मात्र तिने हे सर्व का सहन करायचं? अशा घाणेरड्या कृत्यांपासून तिने स्वतःला दूर सारायला नको का? आणि अशा प्रकारची कृत्य जेव्हा सर्व नागरिकांसमोर घडते तेव्हा कुठे जाते आपली माणुसकी? कुठे जातात आपली कर्तव्ये...? हैदराबादची डॉ. प्रियंका, उन्नामची दिशा, दिल्लीतील निर्भया, झारखंड येथील बालिका, हिंगणघाटची अंकिता अशा आणखी किती स्त्रिया घृणास्पद अत्याचारांना बळी पडणार आहेत?

गरज आहे स्त्री शक्ती दाखवून देण्याची.....

अन्यायाविरुद्ध लढण्याची.....

गरज आहे प्रत्येक स्त्री जागृत होण्याची.....

गरज आहे स्त्री अधिक बळकट होण्याची.....

गरज आहे स्त्री सन्मान जोपासण्याची...

गरज आहे स्त्री वाचवण्याची....

स्त्री शिक्षणाची .....

प्रगतीपथावर नेण्याची.....



**जान्हवी बिरे**

द्वितीय वर्ष

माहिती तंत्रज्ञान अभियांत्रिकी

## मन

एका मानवी जीवनासाठी अत्यंत महत्वाच्या असणाऱ्या पाच मूलभूत गरजा आहेत, त्या म्हणजे अन्न, वस्त्र, निवारा, आणि दोन अशा.. ज्या मनुष्याला सक्षम बनवण्यासाठी समाविष्ट केलेल्या आहेत ते म्हणजे आरोग्य व शिक्षण.

परंतु खरंच सध्याच्या विकसनशील जीवनशैली साठी आपल्याला एवढं पुरेसं आहे का ? प्रत्येकाच्या आयुष्यात ह्यांच्या व्यतिरिक्त सुद्धा अडचणी, वेगवेगळ्या परिस्थिती आणि मानसिक ताण, हे नकळत आलेले असतात. बऱ्याच वेळा ह्या सगळ्या गोष्टी विश्वातील दोन अद्भुत व्यक्तींच्या मध्येच असतात, ते म्हणजे एक आपण स्वतः आणि दुसरे आपले स्वतःचे मन.

आता वास्तविक मध्ये मन नावाचा व्यक्ती हा दिसत नसला तरी तो आपल्या सोबतच आहे व शेवटच्या श्वासापर्यंत असेल सुद्धा.

आपण केलेलं चांगलं - वाईट काम हे आपण एखाद्या सोबत करू किंवा आपल्या सोबत कोणी केलं तर ते कोणालाही न कळू देता त्याचा हिस्सेदार हा तो दुसरा व्यक्ती म्हणजेच आपलं मन असतोच.

बाहेरील दुनियादारीची आपल्याला जाणीव असते परंतु मनाला मुळीच नाही. जवळच्या व्यक्तीचे बोलणे, वागणे असो किंवा आपल्याच मित्र - वर्गात, वा समाजामध्ये झालेला अपमान असो ह्या सगळ्या गोष्टी जाणून बुजून किंवा नकळत मनावरतीच वार करतात; वास्तविक पाहता बिचाऱ्या मनाचा काही दोषही नसतो. कदाचित कधी- कधी आपल्या चुकीमुळे सुद्धा त्याला घाव सोसावे लागतात, आणि एकदा का मनाने आपली साथ सोडण्याचा निर्णय घेतला तर आपला प्रत्येक गोष्टी वरून विश्वास नकळत उडायला लागतो, आत्मबळही कमी व्हायला लागतं..., जीव निर्जीव झाल्या सारखा भास होते कारण, आपल्या वैयक्तिक आयुष्यात घडलेले प्रत्येक प्रसंग जतन करून ह्या जगातील सर्वात सुंदर आणि आपल्या विश्वासू व्यक्तीने आपली साथ सोडलेली असते म्हणजेच मनाने. म्हणून "Outlet Is Very Important".

एक कितीही उत्कृष्ट नदीचा बांध म्हणजेच धरण बनवल्या नंतरही त्याच्या पाण्याच्या पातळी ला मर्यादा ही असतेच, म्हणून एका ठराविक पातळी पर्यंत धरण भरल्यास त्याचे दरवाजे उघडे करून धरणाला दीर्घायुष्य देण्यासाठी पाण्याला मोकळा मार्ग दिला जाते. कारण, प्रत्येक गोष्टीला सीमा आहेत, मग ती या विश्वातील किती ही मोठी गोष्ट का असोना. जर एका उत्कृष्ट धरणासाठी त्याला मोकळा करण्या शिवाय पर्याय नसेल, मग हे तर आपलं एक "मन" आहे, जे कदाचित एका नदीवरील धारणापेक्षा ही मोठ्या सागरी पातळीवर भावना साठवण्याची मर्यादा दाखवत असेलही, परंतु त्याला क्षमता आहे हे आपल्याला कधी कळलेच नाही.

म्हणून प्रत्येक व्यक्तीच्या आयुष्यात एक तरी भावना व्यक्त होण्याचा मार्ग असावाच मग तो कोणत्याही स्वरूपात का होईना भाऊ, बहीण, किंवा एक चांगली मैत्रीण किंवा मित्र, ज्याचा जवळ आपण आपलं मन निसंकोच पणे मोकळं करून, आपण आपल्या मनाला समोर येणाऱ्या नवीन गोष्टींसाठी सक्षम करू शकू. कारण, जर मन मोकळं असेल तर आपल्या आयुष्यात येणारी प्रत्येक वेळ आणि प्रत्येक श्वास हा आपल्याला मोकळा- मोकळा भासवून त्या त्या उंच शिखरावरती घेऊन जाईल जिथे समाधानाला सीमा नसेल.

आणि आपण आपलं पैलतीर यशस्वी रित्या गाठलेलं असेल... !



**संकेत देशमुख**

अंतिम वर्ष

संगणक अभियांत्रिकी



## राज्यभिषेक सोहळा

ऐका, जरा कान देऊन सांगतो कथा शिवनेरीवर जन्माला या वाघाची; पथ ते बारा-तेरा वर्षांचे पाठ राजे मंणी आले तवा जबाबदारीचे भोझे राजनीती डावपेची शिकचे शहाजी राजे कारभाराची पद्धत सांगे वडिलबंधू, संभाजीराजे बालपण वय सारे मैदानात गेले तलवार भाले खेळात खेळणे झाले कृष्ण ही तोच झाला, सुदामाही तोच झाला मावळ्यांच्या झोपडीतला दीप ही तोच झाला केले संघटित मावळे एक जीवाचे सारे पाहिले स्वप्न स्वराज्याचे फोडीत पापानास झो जिकायास गड अंगी मावळे हत्तीचे एक उर्ई भरली निष्ठा व्हाया शत्रूचा काळ गागा भट्टांनी आग्रह शिवाजी राजेंना कोला राज्यभिषेक व्हावा राजाऱ्या ध्यास रथतेने कोला सनई चौघड्यात घुमत नाद रायगड नटलेले तक्त सुवर्ण बत्तीस मनांचे मिठासन सजलेले शंक- नाद हे शिवराज्याभिषेक सोडव्याचे झाले तेव्हां स्वराज्याचे राजे शिव छत्रपतीनमस्कार, नमस्कार कशे आहात तुम्ही सर्व, मजेत ना.. ?

आणि अभ्यास कसा चाललाय...? अरे एवढं आश्चर्य चकित व्हायला काय झालं ? आधि ते तुमच्या हातातील मोबाईल आणि कानातील वूच बाजूला ठेवा, आणि होमी भूत वगैरे काही नाहीए हैं. घाबरू नका. माहितीय मला; कोण आहे, का आलास तेही असं अचानक, केव्हा जाणार, आमचा किती वेळ घेशील. इत्यादी प्रकारचे प्रश्न तर तुम्हाला नक्कीच पडले असणार पण काही काळजी करू नका, जास्त वेळ नाही .

मी खूप वेळा निरीक्षण केलंय, की तुम्हाला माझ्याबद्दल अनेक गैर समज आहेत, कोणाला माहितीच नाही, तर कोणाला माझी आठवण सुद्धा नाही, फक्त मोठमोठ्यांनी गाणे लावून, धूमधडाक्यात तुम्हाला आजचा हा दिवस साजरा करायचा असतो, पण कधी कुणी या पलीकडे जाऊन हे सर्व कसं काय घडलं यामागची कारणे नंतर काय झालं... ?

यांसारख्या गोष्टी शोधण्याचा प्रयत्नच करत नाही, म्हणून म्हटलं एकदा तरी जायचच तुमच्या भेटीला, आज मुहूर्त काढलाच आणि आलो तुम्हाला भेटायला.

आणि दुसरी गोष्ट म्हणजे माझा वाढदिवस येतोय ना, त्यांचं सुद्धा निमंत्रण द्यायचं होतं. मला माहितीय तुमच्या शाळेत आणि कॉलेज मध्ये तुम्हाला माझ्याविषयी निबंध, भाषण वगैरे लिहिण्यासाठी नक्कीच सांगितलं असणार, त्यामुळे माझ्याबद्दल जानुन घ्यायला तुम्हाला नक्कीच आवडेल हो न...चला तर मग सांगतो तुम्हाला माझा 'जिवनप्रवास' मी कोण हेतर कळलंच असणार तरी परत एकदा सांगतो, मी महाराष्ट्राच्या इतिहासातील सर्वात सुखदायक आणि आनंदमय सोहळा म्हणजेच "

शिवराज्याभिव्येक सोहळा" बोलत आहे, मित्र विषयावरयेतो, उगाचच वेळ वाया कशाला. आजही आठवतो तो दिवस, रायगड पाहुण्या- रावळ्यांनी फुलून गेलेला होता, गडाची राजविदी हत्ती घोड्यांनी व मेणे पालख्यांनी गजबजून वाहू लागली होती.

राजविदीवरची भव्य भव्य दुकानांनी नटलेली ली. केवढा बाजारपेठ आता अधिकच यात मांडून बसले दिमाखा या बाजारपेठेतील दुकानांची जोती अगदीसरळ सुतांत अभी होती त्यांची उंची पुरुष पुरुष होती अन् त्यांची जडणघडनहि खायसंगीन होती. दुतफा अशा घाटदार जाती घालू बांधलेली होती. मधला राजरस्ता सुद्धा लांब, रुंद ऐसपैस होता.

दुकानांची जोती इतकी उंच बांधण्याचे कारण असें की घोड्यावरच्या किंवा पालखी तल्यामाणसाला खाली न उतरतां वर बसल्या बसल्याच दुका -नांतून माल खरेदी करता यावा । पहा कसा नखरा केला होता राजाने राजधानीत !

गडांवरती राजप्रसाद राज्यांचे व अष्टप्रधानांचे महाल, राजसभा, नगरखाना, महाद्वार, राजसेवकांची लहानमोठी असंख्य घरे श्री जगदी श्वरांचे मंदिर, अश्वशाळा गजशाळा, गोशाळा इत्यादी इमारती, अठरा कारखाने, बारा महाल; त्यांवरील अधिकाऱ्यांची घरे, माझ्या, सोपे, मनोरे, यांशिवाय खास समारंभासाठी आलेल्या सुमारे वीस हजार पाहुण्यांसाठी उभारलेले शामियाने मंडप, राहुल्या इत्यादी विविध प्रकारच्या वस्तूंनी रायगड हा खरोखर राजधानी म्हणून शोभू लागला होता.

फार सुंदर दिसू लागला होता. गळेच या गडाचे रूप कंटी आगळे चहूचहू अंगाला हजार हजार हात खोल सरळ जणू अखंड एका दगडाच्या ताठ भिंतीत ते पहा टकमक टोक! डोकावू नका डोळे फिरतील! केवढी भीषण खोल दरी ही! वरून नर माणूस निसडला तर?, पण या टकमक टोकाचा उपयोग मुळी माणसांना वरून लोटून देण्यासाठी करीत। स्वराज्याशी कट- कारस्थान करणारे फितूर टकमक टोकावरून पाताळांत भिरकावले जात थ) एकटक तोफाचा दरारा महाराजांच्या भवानीपेक्षाही भयंकर होता,

अब तेथे पूर्वला भवानी टोक, ते भेट पश्चिमोला हिरकणी टोक, त्याच्याच शेजारी ते श्रीगोंदे होक, कैलासनाथाच्या कैलासासारखेच रायगडाचे शिखर आहे. कैलासावरून हिम निथळत असतो, रायगडावरून आनंद नियळत होता

- विविध प्रकारच्या वस्तूंनी रायगड हा खरोखर राजधाना

म्हणून शोभू लागला होता. फार सुंदर दिसू लागला होता, गंगासाग तलाब कुशावंत तर्फे इतर स्वच्छ सुंदर टाकी पाण्याने समृद्ध होती. वारा भळाळत होता आठी महादूलारावर भगवा झेंडा अतिरंत फडफडत होता, राज्यभिषे का, करीता येणाऱ्या पाहुण्यांची आणि प्रजाजनांची या अहा, क्यारांतून रीघ लागली होती.

आईसाहेब पाँचाडाहून गडावरती राहावयास आल्या होत्या. आयुष्यांत अनेक ताहेच्या प्रचंड उलथापालथी पाहून, मानसिक कष्टांची सीमा ओलांडून क्या शिखरावर येऊन पोहोचल्या होत्या. महाराजांच्या कुटुंबातील सर्व मंडळी गडावर होती.

सर्व देवदेवतांना समारंभाची गेली, अहात महाराष्ट्राच्या भाग्याच्या आनंदाच्या परमोच्च सुखाच्या वैभवशाली सर्व शुभशकुनांनी या था। महाराष्ट्राच्या आणि भारतवर्षाच्या देवदेवतांनी या। सहपरिवार था? विघ्नहरा सर्वांआधी आपण या! डावधे था? हातची कामे टाकून बेंगे चेंगे था!.. धार्मिक विधींना आरंभ होण्याआधी महाराज प्रताप गडावर जाऊन येणार होते. श्रीभवानी देवी। भाई! निची महापूजा केल्याशिवाय महाराज सिंहासनावर करणार तरी कसे होते...? गागाभरहानी महाराजांच्या राज्याभिषेकगागाभट्टांना महाराजांच्या राज्यभिषेकासाठी

स्वतः एक ग्रंथ लिहून तयार कोला होता. 'राज्याभिषेक प्रयोग' हे ग्रंथाचे नाव होते. त्यानुसार धार्मिक विधिस प्रारंभ होणार होता. ... शुद्ध चतुर्थी उजाडली. रायगडाच्या महाद्वारखरतोरणे चढली, नगारे कडकडू लागले. एकेका दिवशीं एफेक विधि होत होते. मोठी पहाट झाली. दीपज्योत उजळल्या, आकाशा त शुद्ध दुवादशीचा चंद्र व तारका मंडळ ढगांच्या दाहींतून डोकावत होते. राजमंदिरात वेदमंत्रांचा उच्चरवाने घोष सुरू झाला राज्यभिषेकासाठी सर्व पवित्र उदकें आतुरली होती.

गागागहानी अभिषेकास प्रारंभ केला. पंचामृत व शुद्धोदकस्थान महाराजांना घालण्यात झाले. मंत्रांमध्ये नद्यांच्या नावांचा उल्लेख झाला. सोहा महाराजांना केवढी धन्यता वाटली भरतेल.. राजसभा माणसांनी तुटुंब असलेली होती, वस्माभूकों धारण केल्यावर महाराजांनी सरुतांची पुजक इ केलीत ती धारण केली. नंतर कौटधारी महाराज राजसभ निघाले. सुवर्णदंड घेतलीले, प्रतिहारी, प्रधान यांच्यामद



महाराज राजसभेत प्रवेशले : आजचा तो दिवस, आजचा तो क्षण

सिंहासनावर हो सोनी

तो आपला राजा झाला "छत्रपती"

घुमू लागले नाद चोहीकडे, पावन झाली धरती...

हिरवाईने नटलेला मेघराजाच्या आगमनाने...

रायगड हा सजलेला.. ढोल नगारे, अन शिवगर्जनांच्या स्वसैनी निनादलेल....

शिवरायांच्या कर्तृत्वाने

भाजलेला....

प्रत्येकाच्या तना-मनात वीरश्री

संचारलेला..

अशा या दाणी.... चरणी नतमस्तक होण्या"श्रींच्या"

रायगडावरी सारे होनी गोळा

डोळ्यांचे पारण फेडणासरायगडावरी सारे होती गोळा..

डोळ्यांचे पारण फेडणारा

असा हा शिवराज्यभिषेक सोहळा. !!



**अनुज निकम**

द्वितीय वर्ष

यांलिक इंजीनियरी

## नवीन शिक्षण धोरण

माननीय मंत्रीमंडळाने 2020 च्या प्रारंभिक मुद्रेत नवीन शिक्षण धोरण अंमलात घेण्याच्या नवीन शैक्षणिक नीतीनुसार एक विशेष लक्ष पाठपुरावा दिला आहे. आपल्या विद्यार्थ्यांच्या संपूर्ण विकासासाठी नवीन शिक्षण नीतीत बदल घेणारे प्रमुख महत्वाचे उपाय घेतले जातील.

नवीन शिक्षण धोरणांनुसार, मुलांना त्यांच्या वैयक्तिक आवडी व आहेर अनुसार अध्यापकांनी तयार केलेल्या पाठपुरावा देण्यात येईल. पाठपुरावा विद्यार्थ्यांना प्राथमिक, माध्यमिक आणि उच्च माध्यमिक पाठविण्यासाठी वापरले जातील. या पाठपुरावांमध्ये आपल्या विद्यार्थ्यांना विविध विषयांचा संघातांकित ज्ञान मिळेल आणि त्यांची भूमिका-विशेषता विकसित होईल.

या नीतीच्या अंतर्गत, बालपथ्याचे आणि बालविकासाचे महत्वाचे आशय घेण्यात आले आहे. मुलांना व्याकरण, गणित, विज्ञान, भूगोल, इतिहास, कला, सामाजिक विज्ञान, आणि इतर विषयांमधमाझी शिक्षण धोरण: मराठीतील नवीन शिक्षण धोरण

भारताच्या शिक्षण पद्धतीमध्ये नवीन क्रांतीचा वेग आला आहे. नवीन शिक्षण धोरणांची प्रथम पर्यावरण बहुभाषिकतेची असली पाहिजे. यासाठीच्या परिपक्व आणि न्याययुक्त नियमांनुसार, मराठीत शिक्षण पद्धतीच्या नव्या

विचारांच्या अध्ययनाची गरज आहे.

या नवीन शिक्षण धोरणांमध्ये मराठी भाषेचा महत्त्वपूर्ण ठिकाण आहे. मराठीतील नवीन शिक्षण धोरणांचा वापर करण्याचा प्रमाण वाढवण्यासाठी अभियांत्रिकी, आंतरज्ञान, विज्ञान, आणि इतर तांत्रिक विषयांचे मराठीत पाठ घेण्याची सुवर्णसंधी आहे.

नवीन शिक्षण धोरणांमध्ये बदलत शिक्षण पद्धतीचा महत्त्वपूर्ण असा पक्ष आहे. मराठी भाषेमध्ये प्राथमिक शिक्षण, माध्यमिक शिक्षण, आणि महाविद्यालयीन शिक्षण सुरू करण्यासाठी नवीन पाठविधींचा वापर करणे योग्य ठरवले आहे.

नवीन शिक्षण 2020 अमलात करण्यात आली. गेल्या कितेक दिवसापासून चर्चेत राहिलेला विषय म्हणजे शिक्षण धोरण बदल करणेबाबत. आपल्या आई-वडीलंपासून चालत आलेली शिक्षण पद्धती ही बदलून नवीन आधुनिक युगांच्या काळाबरोबर जुळी व्हावी. नवीन पिढीच्या मुलांना काहीतरी नाविन्यपूर्ण मिळावे व त्याचा प्रगतीशील दिशेकडे पाऊल पडावी अशा काहीशा शिक्षण पद्धतीत बदल घडवून नवीन पद्धती जन्मास आली. नवीन शैक्षणिक धोरणानुसार आपण त्यात घस-खेळल शिक्षण पद्धती अवलंबली आहे. १० व १२ वी बोर्डचे प्रकार यातून वंचीन करण्यात झाले आहे. ५+४+५+३+३+४. या प्रमाणे शालेय अभ्यासक्रम आणि अध्यापनाची नवीन मोडणी पुनर्रचना करण्यात आली आहे. नवीन पद्धतीन अभ्यासक्रम कमी करण्यात आला आहे, तरी त्यांची तांत्रिक क्षमता वाढवण्यावर भर दिला आहे. अभ्यासक्रमात लवचिकता आणण्याचा प्रयत्न साधण्यात आला आहे. भाषेवर प्रभुत्व प्रस्तापित करण्यावर सुद्धा विचार केलेला आहे. अशा या पद्धतीत विविध बदल करून नवीन शिक्षण धोरण अमलान करण्यात आले आहे. आता या धोरणामुळे खरंच आपली शैक्षणिक पातळी उंचावेल का खालावेल हे बघण्यायोग्य असेल. नवीन शैक्षणिक धोरणामुळे विद्यार्थ्यांचा अभ्यास ताण कमी झावा व अभ्यास करून विचार श्रेणी उंच व्हावी हीच एकमेव उद्देश ठेवून नवीन शैक्षणिक धोरणा अमलात आणले असावे.....



**निलेश वाढवे**

तृतीय वर्ष

यांत्रिक इंजीनियरी

## इंजिनिअर

इंजिनिअरींग अॅडमिशन तर होऊन गेले. सर्व पध्दतीने १० वी उत्तीर्ण करूज नेहमी सुरुवातीपासून मनात होणे की काहीतरी आयुष्यात मोठ करायच आहे. पण सर्व माहिती मिळून सुद्धा अलीनाम प्रयत्नातून मी इंजिनिअरींगला प्रवेश मिळवला. इंजिनिअर म्हणून शिक्षण घेत असताना खूप गोष्टी शिकायला मिळत आहेत कशाप्रकारे तुम्ही आयुष्यात येणाऱ्या अडचणीला सामोरे जावे. प्रत्येक संकटावर पाय ठेवून उभे राहावे. येणाऱ्या परिस्थितीवर मात करून सर्व गोष्टी व्यवस्थित कमी वेळेत पूर्ण करण्याचे धाडस तयार करावे. या प्रवासात खूप काही क्षण हे आनंदाचे असताना ते मनसोक्त जगायचे असतात. जे क्षण जेव्हा चे तेव्हा जगवावे लागतात. नंतर या क्षण प्रमाणे आपण परत वेळ मिळू शकत नाही. प्रत्येक सेमिस्टर मध्ये घेणारी आपली धावपळ एक दिवस आपल्या आयुष्यातल्या या जिवगान कामी येईल हे मात्र खरे. पण आता विषय काढण्याची धावपळ आणि इकडे इंजिनिअरींगचा वर्ष भर भर करम अंतीम वर्षोंकडे ्रदासी प्रदार्पण या सर्व गोष्टीचा ताळमेळ बसवत इंजिनिअर करणे व यशस्वीरित्या पूर्ण करणे हे ध्येय इंजिनिअर झालेल्या या पदवी नंतर लागलेली भविष्येच्या चिंता व विचार आपल्या कडू देत नाही. यामुळे चांगल्या ठिकाणी जाण्यासाठी धावपळ व नवीन कौशल्य विकसीत करण्यासाठी केलेली उठावे याची शीडा बेरीज पूर्ण करता पूर्ण वर्ष निघून जात. आपण घेतलेला निर्णय कितपत योग्य ठरेल हे तर भविष्यात दिसणार आहे. वण आपण किती पद्धतीने प्रामाणिकपणे सर्व गोष्टी व्यवस्थित माहिती



करून घेऊन वेळेचा उपयोग कसा सार्थकी लावतो हे महत्त्वाचे राहिल. यानंतर पुढेही आपली स्वतःच अस्तित्व कस ठिकवून ठेवावे हे सुध्दा आपल्याला वेळोवेळी जमगे महत्त्वाचे शाहिल |



**कार्तिक घटमाल**

अंतिम वर्ष

यांत्रिक इंजीनियरी

## पैसा

आयुष्यात खूप महत्त्वाची गोष्ट असते ते मछाने व्याकडे असलेली संपली म्हणजे धनदोल. पैसा आयुष्यात सर्व प्रकारचे काम पूर्ण करू शकतो. मीठी धनवान लोक नेहमी म्हणतात, की, पैसा तुमची आनंद नाही मिळवू शकता पण यावाक्याशी तुम्ही किनीपत सहमत आहात ते नाही माहीत. पण मी मध्यम -वर्गीयातून येत असल्या कारणामुळे मी बघीतल्या या पैशाला जवळून. आई-वडीलांनी केलेल्या धावपळी या पैशासाठी आमच्या साठी घेतलेले कष्ट आणून घातलेले क्षण पैसा जर नसेल तर काय अवस्था होते त्या कुटुंबाची दररोज माणसाला वावरण्यासाठी पैशासाठी आवश्यकता असते अस पण दररोज तर पैसा उभा राहावा यासाठी प्रयत्न करणे आहे. जर व्यक्तीच्या खिशात पैसा नसेल आणि पोटात अन्नाचा कण नसेल तर त्याला आयुष्याची किंमत खूप लवकर कळते. श्रीमंत लोकांकडे खूप पैसा असतो पण मात्र समाधान त्यांना लाभत नाही. श्रीमतीच्या या पैशामुळे सर्व लोक त्यांना सलाम करतात. कारण ते काहीही पैशामुळे विकत घेऊ शकतात त्यांना वाटेल ते करू शकतात. आपल्या वर्गातील लोक त्या पैशाकरीता वाटेल तेकरण्यासाठी नेहमी तयार असतात. पैशाची खूप गरज असले जीवन प्रवासान तुम्ही त्याच्या शिवाय खूप काम करूच शकन नाही फक्त तो पैसा कमवण्याच्या पद्धती वेगळ्या आहेत. नर पैसा तुम्ही योग्य पद्धतीने कमाल तर तुम्हाला मानाने जगता येईल. पण तुम्ही कष्टाने कमावलेले एक-एक पैसा खूप काही तुम्हाला शिकवून जाईल भरपूर पैसा कमवा फक्त योग्य रितीने व नितिमत्ता साफ ठेवून पैसा कमवा व योग्य ठिकाळी त्याचा उपयोग करून आपले जीवन सुखकर करा. आपल्या जीवनात पैसा असला की आपण आनंदच नवे तर जीवनातील सर्व क्षण आनंदाने जसे हवे तसे शकतो....



**निलेश वाढवे**

तृतीय वर्ष

यांत्रिक इंजीनियरी

## संत भूमि

महाराष्ट्रातील संतोंची भूमि ही भारताच्या प्राचीनतम आणि महत्त्वाची भूमिका आहे. महाराष्ट्र या भूमिमध्ये संपूर्ण भारतीय सांस्कृतिक विरासत, संस्कृतीचे अटीचे प्रतिष्ठान आहे. या भूमीवरील संतांच्या जीवनात अतिशय गौरवाने सामंजस्य आहे. या संतांनी अजाणत्या माणसांना देवत्वाची प्राप्ती, आत्मज्ञान आणि धर्माच्या उद्दिष्टाने सांसारिक वस्त्रांची परित्याग केली आहे.

महाराष्ट्रातील संतोंची भूमि योग, आध्यात्मिकता आणि भक्तीच्या माध्यमातून प्रसारित करण्यात आलेली आहे. या संतांनी आपल्या आध्यात्मिक विचारांचा व्यापक प्रचार केला आहे आणि त्यांनी समाजाला आनंद आणि शांतता देण्याचा प्रयत्न केला आहे.

ज्ञानेश्वर, नामदेव, तुकाराम, रामदास, सामर्थ रामदास, नरहरी सोनारे, गोरखाथ, एकनाथ यांचे अनेक आध्यात्मिक काव्यांचे संग्रह आहे. हे काव्य मराठी साहित्याचे आधारशिला म्हणून मान्यता आहे. या संतांनी जनतेला ज्ञान आणि आध्यात्मिक प्रगतीच्या मार्गात लक्ष दिले आहे.

महाराष्ट्रातील संतांनी मानवाच्या जीवनात ज्ञान, सामर्थ्य, धर्म आणि समाज या विविध महत्त्वाच्या विषयांवर प्रकाश टाकले आहे. त्यांच्या बोधवणूकाने विविध समाजातील वर्गांना जागरूकता मिळवली आहे. संत ज्ञानेश्वरांच्या ज्ञानेश्वरी, नामदेवांच्या भागवत, तुकारामांच्या अभंग या साहित्यांनी जनतेला व्यापक ज्ञान आणि आध्यात्मिक तत्त्वे वाचवली आहेत.



**विकी भगत**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## मी संविधान बोलतोय...

भगवान उठाले रे बाबा मेरे को..... आता खुप झालं ह बस होते आता माझी Capacity संपली. तुम्हाला सांगुन सांगुन थकलो मी, पण तुम्ही लोकं ऐकायलाच तयार नाही, सारखे सारखे आपलं रोजच्या दिवसाला किमान एक ना एक तरी Rule Break करताच, तेही न चुकता ! कमित कमी एक दिवस तरी मला शांती द्या, तुमचं चा काहीच नाही होऊ शकत अरे तुमची ती शेजारची शांताबाई नाथ बोल्लो मी, Peace, निवांत, सुकुन वाली शांती कळलं आता..

नाही, नाही, लगजताय कशला, विचारा विचारा... का आलास आणि तेही असं अचानक, जाणार, आमचा किती वेळ घेशील, इत्यादी प्रकारचे प्रश्न तुम्हाला नक्कीच घडले असणार, पण काहीच काळजी करू नका जास्त वेळ नाही घेणार तुमचा, Ok.

मी खूप वेळा निरीक्षण केलय की तुम्हाला माझी भिती वाटते तक्रारी सुद्धा आहेत, तर कोणाला मी बंधन वाटतो, इत्यादी. मणून मटलं कि यावं 50. आज मुहूर्त काढला. आणि आलो तुमच्या तुमच्या भेटीला, भेटीला. आणखी एक गोष्ट म्हणजे, माझा वाढदिवस येतोय ना त्याचं सुद्धा निमंत्रण दयायचं होतं. मला माहिती आहे शाळेत तुम्हाला माझ्याविषयी निबंध, भाषण वगैरे लिहिण्यासाठी नक्कीच सांगितल असणार, त्यामुळे माझ्याविषयी जाबुन घ्यायला तुम्हाला नक्कीच आवडेल .. चला तर मग सांगतो तुम्हाला माझा 'जिवनप्रवास'. माझं नाव तर माहितीच आहे तुम्हा सर्वांना, सचि म्हटलं तर चालेल मला. डायरेक्ट विषयावर येतो, उगाचंच Time Waste कशाला ?

आपल्या देशाच्या राज्यकारभारासाठी तयार करण्यात आलेले मूलभूत कायदे ज्या ग्रंथांत एकत्रित आहेत ना त्यास 'संविधान' असे म्हणतात, म्हणजे मी, मीच तो कोणी राज्यघटना सुद्धा संबोधतात. हे सर्व तर ठीक आहे, पण याची निर्मिती का, कशी, केव्हा आणी कोणी केली असावी असे अनेक प्रश्न तुमच्या डोळ्यांसमोर आले असतील, चला तर सांगतो तुम्हाला....

आपल्या देशाचा राज्यकारभार संविधाना- -प्रमाणे चालतो, आणि यात नमुद केलेल्या तरतुदींमुळे लोक प्रतिनिधींना नियमांच्या चौकटीत राहून राज्यकारभार पाहता येतो, त्याचबरोबर त्यांच्याकडून अधिकारांचा दुरुपयोग होण्यास प्रतिबंध सुद्धा करता येतो. यातुनच शासनाचे अधिकार व त्यांच्या मर्यादा सुद्धा स्पष्ट होतात, तुमचे स्वातंत्र्य सुरादी राहते, त्याचबरोबर तुमचा राज्य कारभारातील सहभाग सुद्धा वाढतो



आपल्या देशाला स्वातंत्र्य मिळणारच, हे निश्चित झाल्यावर १९४६ मध्ये माझ्या निर्मितीची प्रक्रिया सुरू झाली. 'स्वतंत्र भारताचा राज्यकारभार ब्रिटीशांनी तयार कोलेल्या कायद्यानुसार चालणार नाही, तर तो स्वनिर्मित कायद्यानुसार चालेल, असा स्वातंत्र्य सेनानींचा आग्रह होता, आणि इथून पुढे झाला, तो माझा जिवनप्रवास...

९ डिसेंबर १९४६ रोजी संविधान सभेची पहिली बैठक झाली, मला तर तेव्हा खूप आनंद झाला होता, कारण भी येणार यम्ची चाहूल सर्वांना लागली होती. दिप्रक्रिया लवकरात लवकर पूर्ण व्हावी यासाठी समित्या तयार केल्या गेल्या या समित्यांनी त्यांच्याकडे सोपवण्यात आलेल्या विविध विषयांचा सखोल अभ्यास करून अहवाल तयार कोने होते, ... आणि या अहवालांतील शिफारस ध्यानात ठेऊन मसुदा निर्मितीचे काम मसुदा समितिकडे सोपविण्यात आले होते. आणि नंतर माझी भेट झाली ते माझ्या जन्मदात्याशी माझ्या 'बाबांशी.' त्यांना प्रत्यक्षात समोर पाहून भाड्का आनंद गगनात मावेनासा झाला होता आता पुढे काय घडणार याची खूप वाटा चाटत होती मला बहु पुढे काय होतय ते, ...

खरे तर जगात कुठल्याही देशात एवढा एवढा विचार करून राज्यघटना निर्माण करण्यात आली. नसेल, एवढा समग्र विचार करून आपण राज्य घटना तयार करताना केला आहे! सर्व समुहांना प्रतिनिधित्व देऊन लोकशाही पद्धतीने आपण राज्यघटना तयार केली.

मेरा इंतजार अब धीरे धीरे कम होने लगाया, आँखो मे हजारो सपने थे, And Finally माझी रचना नया आकार होत होती, माझी (Unity आकाशाला जाऊन पोहोचली होती, मी कसा दिसणार घडी- घडी बात विचार सतावत होता.

तब्बल दोन वर्षे ११ महिने आणि अठरा दिवसात तेल घालून बाबासाहेबांनी माझी निर्मिती प्रक्रिया पूर्ण केली. आणि त्यांच्या अथक परिश्रमांतून अखेर मी उदयास आलो. आजी तो दिवस आठवला की, कानात इंतजार...' हे गाणं गुंजू लागतं. जिसका मुझे या रंगवला

२६ नोव्हेंबर, १९४९ चा ++ Goldenday आणि Finally संविधान सभेने संविधानाचा पुर्णतः स्वीकार केला, खरं सांगु का भला तर एकदम Celebrity सारखी 15 Feeling येत होती, कारण तेव्हा खुप Special Treatment भरेली होती अस वाटत होत की, मी कोणता राजा महाराजाच आहे

जगू, आताही वाटते मण पण तो भाग वेगळा असो. आता Duty वर जाण्याची वेळ, नवल येत होती, तशी तशी माझी Heart-Beat काढत होती, किती पण वाटली होती, पण काय करणारं स्वतः वरचा विश्वासच इतका ठाम होता की, हि भीती जास्त वेळ नाही टिपली.

जानेवारी आजही स्मरणात आहे तो दिवस, २६, १९५०. या दिवशी भारतीय राज्यघटनेचा अंमल सुरू झाला होता, आणि सामाजिक परिवर्तनाची एक जबरदस्त प्रक्रिया बहुलागली होती. मनुस्मृतीने निर्माण केलेली चातुर्वर्ण्यावर आधारित विषमतापूर्ण सनातन हिंदू व्यवस्था पाहता- पाहता ढासळू लागली होती, संविधानात असलेल्या समानतेच्या

तत्त्वामुळे उच्चभ्रू वर्गाचे वर्चस्व संपूदात येऊ लागले होते, आणि तळागळातली शेकडो वर्षे दडपलोले शुद्रातिशुद्र समान हक्क मिळवून वर येऊ लागले होते. दलित मागास- वर्गीयांना तथा शूद्राति शुद्हांना मुलभुत हक्क मिळाल्याने

ते फिनिक्स पक्ष्याप्रमाणे अशळ्या मारू लागले होते. उच्चमूच्या बरोबरीने वागायला लागले होते. त्यांच्या उत्थानाची प्रक्रिया सुरू झाली, त्याचबरोबर उच्चभ्रू वर्गांनी आपली अवनती होऊ लागली आहे असे वाहायला लागले होते, समाजातील शेकडो वर्षांच्या आपल्या स्थानाला धक्का लागल्याने उच्चभ्रू वर्ग अस्वस्थ झाला, राज्यघटनेतील

नवीन मूल्यांना तो मग विरोध करू लागला होता, आणि माझ्या डोक्यावर जाम Tension आलं होतं पण भी सर्व काही सांभाळून होईलच हा विश्वास आत अन्ना कायम मनात शेवटपर्यंत कायम होता, आहे आणि राहणार सुद्धा ! वास्तविक पाहता भारतीय राज्यघटनेने

भारताच्या इतिहासात प्रथमतः भारत एकसंध देश निर्माण केला. १८५० मध्ये भारतात ५६० संस्थाने होती, ती विक्री करूनच भारत एकसंध झाला. त्यापूर्वी शेकडो वर्षांच्या इतिहासात मौर्यकाळात भारत एकसंध देश होता. हे अति - सूक्ष्म दृष्टीने पाहिले तर दिसते.

या आधी भारत एकसंध देखून नूनका भारतात शेकडो वर्षांपूर्वी लोकरशाही का नव्हता का ? निर्माण झाली नाही ? किमान एतद्देशीयांचे तथा इसकीयांचे एकसंध राज्य का निर्माण झाले नाही ? आना केवळ राज्यघटनेमुळेच भारतातील अनेक धर्म, हजारो जाती अनेक भाषा, विभिन्न संस्कृती, विभिन्न भौगोलिक भिन्नता व यांतील संघर्षावर मात करता आली, या सर्व विभिन्न घटकांना बांधणारा दुवा राज्यघटना झाली. या घटकांतील अंतर्गत संघर्ष भारतीय

राज्यघटनेमुळेच नष्ट झाला, व राज्यघटनेने दुवारे भारत एक शक्तीशाली संघराज्य निर्माण करता आले. भारताने विभिन्न समाज व्यवस्था असली, तरी विविधतेतून एकते - कडे जाण्याची दिशा मिळाली..

माझी निर्मिती होत असतानाच घटनेच्या मसुद्यावर देशभर चर्चा सुरू होती. त्या वेळी होणाऱ्या टीका. हिप्पणीचा परामर्श स्वतः बाबासाहेबांनी घेतला होता, पुनरुज्जीवनवादाचा किंवा 'जैसे थे' पाल्यांचा राज्यघटनेवर राग होता. त्यांच्या तसेच समाजवादी कम्युनिस्ट आणि अन्य टिकाकारांच्या हिलेला स्वतः बाला - साहेबांनी उत्तर दिले होते, आजही ते उत्तर वाचताना परिपूर्ण वाहते. पण तरीही असे वाटते की या पुढील काळातही बाबासाहेब. ए. राज्यघटना हा चर्चेचा विषय

राहणारच आहे... काही वर्षांपूर्वी, राज्यघटना पुनर्विलोकनाची भूमिका जाहीर झाली तेव्हा एक जबरदस्त झटकाच बसला,

सावरून विचार केला तर राज्यघटनेने बदल जनतेला अज्ञान असणे हिच गोष्ट घासक होणार आहे, भारताने अदयापही राज्यघटनेची नीतिमत्ता निर्माण झाली नाही ! राज्यघटनेबद्दल आदर निर्माण होण्यासाठी राज्यघटना लोकाभिमुख झाली पाहिजे. परंतु राज्यघटना ही एक कायद्याची क्लिन्ट पुस्तिका आहे. ती आपल्याला कंडन नाही, म्हणून राज्यघटनेने कडे, हत्तीदक्षेपही न सकता त्यावक- मत व्यक्त केले जाते. ती केवळ वकील पिलार्थी, व घटना तज्ञांचाच विषय आहे, असे आपण समजतो. म्हणून राज्यघटनेचा विषय सोपा केला तरच ती (मी) वाचनीय होईल. मुळातच राज्य घटना निर्मितीचा इतिहास कडला, तर भारतीय नागरिक अधिक सुज्ञ होईल.

एक गोष्ट खरी-खरी सांगू का?, जेव्हा तुम्ही लोक नियमभंग करता या तेव्हा मला खूप दुःख होतं, कधी-कधी तर रडायला सुद्धा येतं ! भी काही तुमचा रातू नाही, तुमच्याच हितासाठी माझी निर्मिती करण्यात आली आहे, त्यामुळे मी दिलेल्या फासळ्यांच्या कायदांचा- चा, तुमच्या पदांचा योग वापर करा,

आयुष्य खूप सुंदर आहे, इसिलिए Enjoy Every Moment Of Your Life With Smile

शेवटी जाता जाता. कण्ठच सांगेन की, 4 जनतेचे सरकार जनतेसाठी सरकार, व सरकार जनतेचे, हा : सिद्धांत आपण टिकविण्यासाठी निर्धार करूया. त्यासाठी आपल्या मार्गात येणाऱ्या वाईट गोष्टी, अयले ओळखण्यात तेल दवडता कामा नये, जेणे करून आपण आपल्या लोकांना जनतेसाठी सरकार ऐवजी जनतेचे सरकार हो



भूमिका स्वीकारायला भाग पाडू, अयोग्य सरकारे हलविण्यात आपण दुबळे राहणार नाही. हाच एक देशसेवा करण्याचा मार्ग आहे. यापेक्षा चांगला मार्ग मला माहिती नाही, भेटला तर आपल्या पुढच्या भेटी मध्ये बच्की सांगणार.

तुमचा जास्त वेळ घेतला असेल तरदामा मागतो, काय मग आता करणार ना नियमांचे पालन, करणार ना .....



**अदिती देवघरे**

द्वितीय वर्ष  
यांत्रिक इंजीनियरी

## जीवन

जीवन एक पुस्तक असतं ...  
फुलपाखरासारखं जगायचं असतं ...  
हवेसारखं भिरभिरायचं असतं ...  
पावसासारखं बरसायचं असतं ...  
जीवन असच जगायच असतं.....  
थोड सुख तर थोड दुःख असतं ...  
फुलांसारखं हसायचं असतं ...  
भुतकाळ विसरायचं असतं ...  
वर्तमानकाळात चालायचं असतं ..  
जीवन असचं जगायचं असतं असतं ....  
काट्यांमधूनी चालायचं असतं ...  
यशाचं फळ मिळवायचं असतं ...  
यशासाठी पाऊल टाकायचं असतं ...  
आपल्या चुका सुधारत रहायचं असतं ...  
जीवन असचं जगायचं असतं .....



**ईश्वरी निकम**

द्वितीय वर्ष  
माहिती तंत्रज्ञान अभियांत्रिकी

## प्रारब्धाची खेळी

प्रारब्धाने खेळी पुन्हा मशीनव्याने खेळावी  
अन् सट्टा नशिबाची या जन्मी ही मांडावी  
नशीब नशीब म्हणत किती उन्ह  
अंगावर झेलावी  
तत्प वाळवंटी पावले मध्याची  
ही होइसकावी  
नवा डाव मांडता कहाणी  
लाटेनेच विस्कटावी  
सागराच्या हृदयाची खोली  
नियतीला न ही कळावी  
जिवंत आहे म्हणताना,  
उबदार शेकोटी वाऱ्यानेच पिझावी...  
अन् मायेच्या प्रवासात  
दैवाने ही आपली वाट बदलावी...



**अदिती देवघरे**

द्वितीय वर्ष  
यांत्रिक इंजीनियरी

## शाळा

इंग्लिश-मराठी किंवा जुनी -नवी  
मिल ढ आहे की हुशार  
शिक्षक प्रेमळ अथवा मारणारे  
असे वर्णन करणे चुकीचे...

शाळेत जाताक्षणी पाणवलेल्या डोळ्यांनी  
आईकडे पहायचो ..  
चॉकलेट किंवा पाठीवर धपाटा खाऊन  
वर्गात बसण्यासाठी आत्मसमर्पण  
करायचो..

छडी , डस्टर, चापट या  
जणू दैनंदिन गरजा झाल्या होत्या ..  
कोवळ्या वयातील प्रेमाच्या  
पाकळ्या देखिल उलमडू लागल्या होत्या ..

जगत गेलो या अनमोल क्षणांना  
ओझ वाहत दप्तराचं..  
आठवतात जेव्हा ते उनाड दिवस  
भरून का ये येतं मन माझं..

कित्येक वर्षे उलमडून गेली  
भेटत असता त वर्गातील मित्र ..  
राहते फक्त आठवणींची साथ  
सुरू राहते हे दैनंदिन चक्र ..



**नरेंद्र मोरे**

अंतिम वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## रात्र अशी ती.....

सागराची धीरगंभीर गाज आहे.  
प्रणयाराधनाचा श्रृंगार साज आहे  
नवपरि णीतांना मधुमास आहे  
रातराणीचा धंदु सहवास आहे

स्पर्शाचा अबोल संवाद आहे प्रेम बोलीचे  
गुंजन निनाद आहे  
मिलनोत्सुक युगुलाची ओढ आहे  
लयबद्ध श्वासोच्छवासाची जोड आहे

प्रीतिच्या चांदण्यांची बरसात आहे  
समर्पित भावनांची रुजुवात आहे  
कधी विरहिणीची वेदना आहेवि योगाची  
मूक यातना आहे

मिट्ट काळोखाची अवस आहे  
शीतल कि रणांची पुनव आहे  
काजळ काळी भयाण शांतता आहे  
चिंताक्रांत भयग्रस्त अस्वस्थता आहे

अपयश एकटेपणाची निराशा आहे  
उद्याचा विचार उदयाची आशा आहे.  
कधी सुखस्वप्नात रममाण आहे  
क्षणभंगुर जीवनाची जाण आहे

कैक भावनांची वाहती सरिता आहेरात्र ती ओघवती

भाव कविता आहे,

रात्र अशी ती कविता आहे.....



**विकी भगत**

तृतीय वर्ष

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## वाट

ओळखीची वाट ती आज नव्याने चाललो |  
 शब्द होते सोबतीला तरी मुक्यानेबोललो ||  
 नागमोडी वाट ती रंग तीचेवेगळे |  
 त्याच वाटवरी चालती उन साऊलीचेसोहळे||  
 आलेअसतील मजसम या वाटेवरी कैक |  
 अनेक असतील चालणारेपण वाट मात्र एक ||  
 एकटी ती वाट माझी एकटा मी चालतो |  
 काय जानेकशासाठी , वाटवरी मी रावतो ||  
 वाट मी जी चालतो , ती न कधी थांबणारी |  
 संपेल मी जेजेव्हा , ती तेतेव्हाच संपणारी ||



**ऋतुजा पवार**

द्वितीय वर्ष  
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## बहीण-भाऊ

कधी मारणारा तर कधी चिडवणारा  
 भाऊ रोज रोज भांडणारा  
 आनंदच सगळं काही नसतो  
 भाऊ आनंदाहुनही प्रिय असतो  
 भाऊ असला जर घरात  
 दिवस निघतो भांडणाचा दारात  
 कधी मित्र तर कधी शत्रू बनतो  
 तरी बहिणीवरचा जिवाळा कायम असतो  
 भावा तु तुझा प्रेमळ हात  
 बहिणीला हवी जीवनात तुझी साथ  
 कुठल्याही नात्यात नाही एवढी ओढ  
 बहीण भावाचं नातं असतं फारं गोडं



**ईश्वरी निकम**

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## महाराष्ट्र देशा

अरे.. स्वर्ग ही फिका पडेल  
 या राष्ट्रा समोर !  
 ज्याच्या नावातच राष्ट्र आहे....

ज्याच्या रणांगणावर धावतात  
 मर्द मावळेजेइथलेशस्त्र आहे...

कुठल्याही वादळाला लाजवेल  
 असा आमचा सह्याद्री उभा इथे निर्धास्त आहे.  
 घटना लि हि ली गेली इथे  
 स्त्री शि क्षण ही इथेच घडलेआहे..,

अति रेकी असतील तर येऊ देत  
 इथेत्यांना चिरडून टाकायला शिवरायांचेगड किल्ले  
 शानाने उभे आहे....,

देखणेवस्त नेसायला बळीराजा  
 रोज कष्टाची पायरी चढतो आहे.... ,  
 प्रत्येकाला आपलसं  
 करणारी आणि स्वप्रांच घर  
 असलेली Mumbai इथे नांदत आहे... ,

गंगा- कृष्णा चाखायला  
 सर्व जग वाट बघत आहे....,  
 वाघांची जननी आहेही माती  
 ह्या राष्ट्राला जिंकले  
 रक्ताच्या धारेणेआहे..,  
 असा हा "महाराष्ट्र माझा"  
 ज्यानेसगळ्या जगाला जिंकले आहे... !



**प्रतीक्षा सोलंके**

तृतीय वर्ष  
 परमाणु एवं दूरसंचार अभियांत्रिकी

## शोध स्वतः चा

आज स्वतःला शोधण्या नि घाले  
काय माझे अस्ति त्व ?  
कोण मी ? काय मी ?  
हेसत्य शोधायला नि घाले...

कधी कधी स्वतःच्या मनानेवागलेनाही  
बोलतील जे लोक ते ऐकले  
पाहत असता गगनी  
मनी हा विचार आला  
कोण तू ? काय तुझ अस्तित्व ? विचार जरा स्वतःला,  
काही कळेना आता मन सैरभैर झालेस्वतःची योग्य  
ओळख जाणण्या मन आतुर झाले.  
मग काय आज स्वतःला शोधण्या निघाले

वाटल एका क्षणाला  
का प्रत्येक वळणावर पुन्हा इतरांसाठी गुरफटून उरले  
खूप शोधल्यावर,  
मी हेफक्त निमित्त आहे  
सर्वा साठी जगत राहणे  
ह्यासाठीच का जन्म आपले  
पण आता मिटवायचाय मला  
स्वतः चा - स्वतःशीच असलेला विरह.. !  
शोधायचय माझ्यातल्या मलाच...



**वैष्णवी चोबे**

तृतीय वर्ष  
परमाणु एवं दूरसंचार अभियांत्रिकी

## लिहायचं होत बरेच काही ...

लिहायचं होत बरेच काही ...  
लिहायचं होत बरेच काही ,  
पण शब्द मात्र सुचलेच नाही ,  
थोडक्यात मांडावे म्हटले प्रेमाला  
पण शब्दरचना जमलीच नाही |

शेवटी लिहिता लिहिता लिहित गेले;  
लिहिलेलं वाचत गेले ,  
चुकले काही तर पान फाडून फेकत गेले  
तरी मात्र काही जमलेच नाही |

एका वेळेस वाटले प्रेमाची व्याख्याच लिहावी ,  
पण ते लिहिता लिहिता डोळ्यात पाणी साचलेले,  
नकळत ते ते शब्दांवर पडून लिहिलेले शब्द पुसल्या  
गेले

शेवटी आईच्या कुशीत मी दडून बसले ,  
तिच्या प्रेमळ कुशीत मला प्रेम समजले ,  
लिहायच होते ते बरेच काही पण  
आईशिवाय प्रेम कळालेच नाही ...



**ऋतुजा पवार**

द्वितीय वर्ष  
माहिती तंत्रज्ञान अभियांत्रिकी



## आयुष्य

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दुःखाचा त्यात समावेश असतो  
दुसऱ्याला प्रेम अर्पण करत जगायच असतं  
पुढच्या क्षणाला काय होणार हे माहिती नसत  
पण आपले स्वप्न रंगविने सोडायच नसत...

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आपण तुटलेल असु  
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अडचणी तर सर्वांनाच येतात  
पण आपण त्यावर कधी मात करतो  
हे महत्वाच असतं ...

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असतं माहिती असत एके दिवशी जगाचा निरोप  
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**गायत्री इंगळे**

तृतीय वर्ष  
विद्युत अभियंतिकी

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हे भारतीय.....

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नाच आहे त्याचे "व्यक्तिस्वातंत्र्य" ॥ धृ ॥  
तुजपासी आहे शब्द 'अस्त्र'  
कोणी होईल गलित गाल तर काय कामाचे ते  
"व्यक्तिस्वातंत्र्य" ॥ 1 ॥

उघडे असु द्यावेत नेत्र  
नजर ठेवाल अपवित्त  
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भरपूर असून वस्त्र  
उघडे फिराले सर्वत्र  
तर काय कामाचे ते "व्यक्तिस्वातंत्र्य" ॥ 3 ॥

मिळाले तुला मानवी पात्र  
जगशील जणु आहे कुत्र 4 ॥

तर काय कामाचे ते "व्यक्तिस्वातंत्र्य" ॥  
होऊ नकोस गुलामीचे पात्र  
स्वतंत्र्याचा प्रकाश पडु दे सर्वत्र  
तेच खरे संविधानतील ते "व्यक्तिस्वातंत्र्य" ॥ 5 ॥



**श्रद्धा अमलकार**

द्वितीय वर्ष  
परमाणु एवं दूरसंचार अभियांत्रिकी

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**संकेत देशमुख**

अंतिम वर्ष  
संगणक अभियांत्रिकी

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जो कुठेतरी खोलवर आहे  
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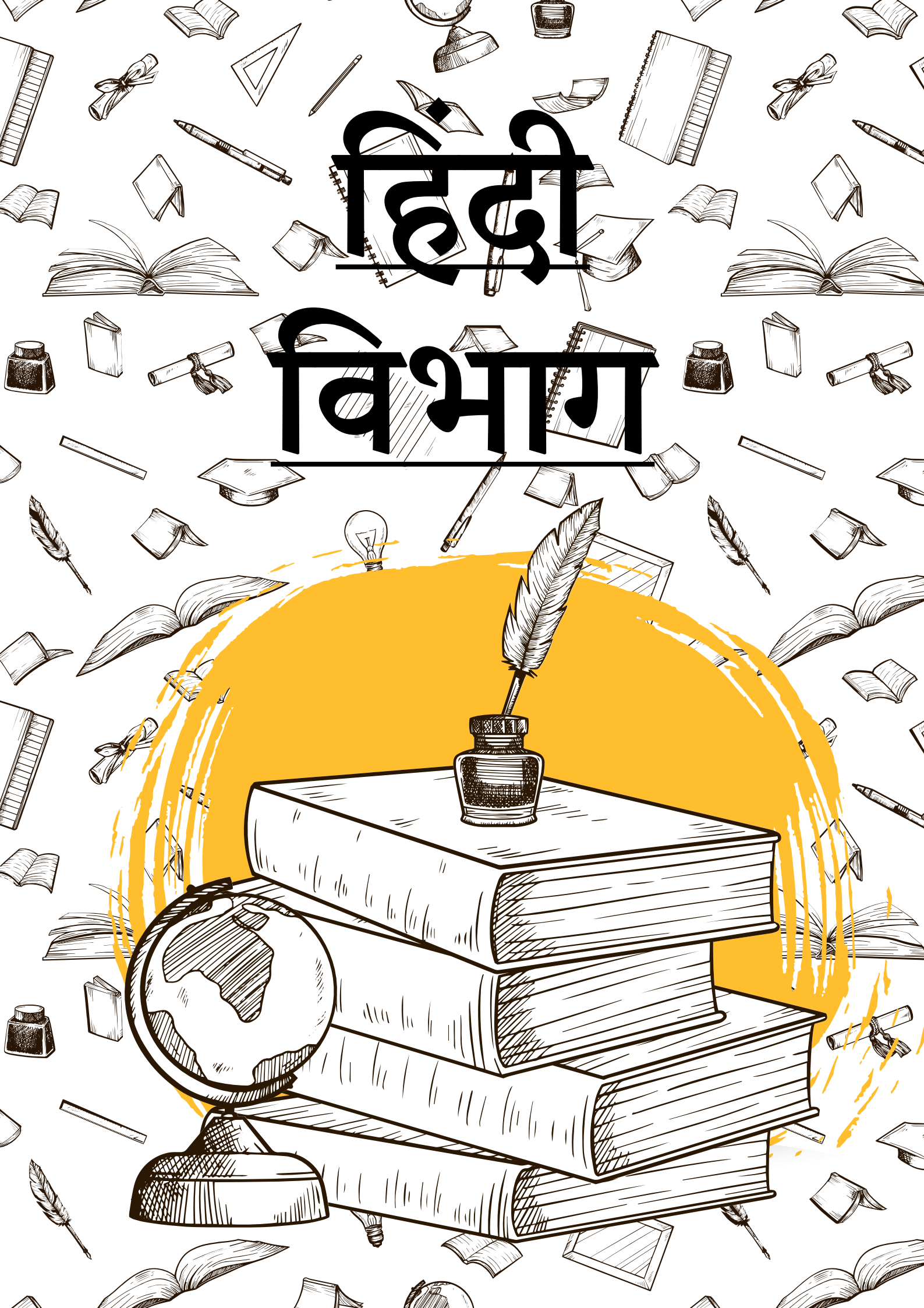


**अदिती देवघरे**

द्वितीय वर्ष  
यांत्रिक इंजीनियरी



# हिंदी विभाग



## संपादकीय लेख

प्रिय पाठकों,

तत्त्वदर्शी का सदस्य बनाना मेरे लिये एक सूनहरा अवसर था, क्योंकि मैं इस पत्रिका के लिये काम करने के लिए सुरुवात से ही उत्सुक था। तत्त्वदर्शी एक ऐसा माध्यम है जो विद्यार्थियों के भितर छुपे हुये सुप्त गुणों को निखारने का काम करता है। तत्त्वदर्शी एक परिवार की तरह है, जिसमें सारे सदस्य एक परिवार तरह मिल-जुलकर अपने-अपने काम करते हैं।

हिंदी अनुभाग के लिए काम करना मेरे लिये एक गौरवावित अवसर था, क्योंकि बचपन से ही मैं हिंदी कविता के प्रति रुची रखता था, मुझे कविताये लिखना बहुत पसंद था, तो तत्त्वदर्शी में आकर मुझे मेरे उस छंद को निखारने का अवसर इस तत्त्वदर्शी के माध्यम से मिला है। इस अनुभाग के लिये काम करना मेरे लिये एक रोमांचक साथ ही साथ काठिनाईयोसे भरपूर अनुभव था। फिर भी मेरे साथियों ने इसे पुरा करके अपनी-अपनी जिम्मेदारी को साराहा, जो की मुझे बहुत रास आया। तत्त्वदर्शी युवकों को विद्यार्थी जीवन में उनके व्यक्तिमत्त्व विकास को विकसित करने एवं उनमें आत्मविश्वास, कलात्मकता और तकनीकी ज्ञान के सहित अपनी रुचि के अनुसार छुपे हुए कलात्मक गुणों को सवारने का काम करती हैं।

इस पत्रिका के लिए काम करने के लिए आपमें असीम निरंतरता और सतत काम करने की चाह होनी चाहिये, हम सब में यह चाह बरकरार रखने का काम किया हमारे मुख्य संपादक ने किया है। उन्होंने हमें हर पल आती चुनौतियों से निपटने के लिये मार्गदर्शन किया और हमें उचित हल प्रदान किया। उनके अधिनस्थ काम करना हम सभी संपादकों के लिए सचमुच एक गौरवपूर्ण अनुभव था।

इस पत्रिका के लिए कार्य करना कारगर साबित हुआ और नए अनुभवों की अनुभूति प्राप्त हुई। मैं इस बात के लिए हमारे महाविद्यालय के संस्थापक, शिक्षक गण एवं मेरे सभी मित्रों को मन से धन्यवाद देता हूँ। और आशा करता हूँ कि तत्त्वदर्शी की यह आवृत्ति भी बाकी सारी आवृत्तियों की तरह आपको जीवन में प्रेरणा देने का कार्य करेगी।



**विकी भगत**

तृतीय वर्ष,  
परमाणु एवं दूरसंचार अभियांत्रिकी

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३.	नए ज़माने की दोस्ती	साक्षी देशमुख
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५.	माँ की याद	तुषार हाडगे
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७.	ऐतिहासिक केशवानंद भारती केस	श्रेयस गोलम
८.	भगत सिंह	अथर्व उरादे
९.	रामचरितमानस	यश पारीख
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१३.	ए कलम तू मेरी सबसे अच्छी दोस्त हैं	गौरव घाटोल
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१९.	क्यों रहते हो इतना गमगीन ।	अदनान अकबानी
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२१.	जिंदा हूँ	प्रतीक्षा सोलंके
२२.	खुद को ही कुर्बान कर दिया	विककी भगत
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२६.	कलम की ताकत	अजय सोलंके
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२८.	सीखते चल	चितवन नाईक

## आजादी के 75 वर्ष: भारतीयता का महान संकल्प

भारत की आजादी के 75 वर्ष पूरे होने पर हमें गर्व महसूस होता है कि हम एक स्वतंत्र और समृद्ध देश में जी रहे हैं। 15 अगस्त 1947 का दिन भारतीय इतिहास में महत्वपूर्ण है, जब हमारे पूर्वजों ने अंग्रेजों के शासन से अपनी आजादी खोजी और उसे हासिल किया। यह आजादी का महान संकल्प था, जिसने हमें आज़ाद और स्वतंत्र भारत के नागरिकों के रूप में जीने का अवसर दिया। आजादी के बाद से हमारा देश बड़ी तेजी से प्रगति कर रहा है। हमारे देश में विज्ञान, प्रौद्योगिकी, और आर्थिक विकास में बहुत बड़ी प्रगति हुई है। हम अंतर्राष्ट्रीय मंचों पर अपनी पहचान स्थापित कर रहे हैं और आर्थिक विश्व में महत्वपूर्ण स्थान प्राप्त कर रहे हैं। हमारा देश विभिन्न क्षेत्रों में विकास की ओर प्रगति कर रहा है, जैसे कि शिक्षा, स्वास्थ्य, कृषि, रक्षा और राष्ट्रीय सुरक्षा। हमारी आजादी का महान संकल्प था एक समृद्ध, समान, और सुखी समाज बनाने का। हमारा लक्ष्य था सभी नागरिकों को विकास की सुविधाओं और अवसरों से लाभान्वित करना। हमारी संविधानिक गरिमा और न्यायप्रिय तंत्र के माध्यम से हमने सामाजिक न्याय, मानवाधिकार और अवसरों के सामर्थ्य की रक्षा की है। हमारी आजादी एक विचारशील, प्रगतिशील, और विश्वस्तरीय देश की नींव रखती है।



हालांकि, हमें अपने विकास के कठिनाइयों का भी सामना करना पड़ता है। हमें सामाजिक, आर्थिक, राजनीतिक और पर्यावरण संकटों का सामना करना है। हमें भारतीयता, सामाजिक समरसता और एकता के आदर्शों को बनाए रखना होगा और सभी नागरिकों की भागीदारी से समृद्धि को सुनिश्चित करना होगा। आजादी के 75 वर्ष मनाने के अवसर पर हमें गर्व महसूस होना चाहिए और एक संकल्प लेना

चाहिए कि हम अपने देश को मजबूत और महान बनाने के लिए सक्रिय रूप से योगदान करेंगे। हमें अपने देश की स्वतंत्रता और आजादी के महान संकल्प को मान्यता और सम्मान देना चाहिए। हमें एकता की बढ़ाई और विविधता की समझ को अपनाना चाहिए, ताकि हम एक मजबूत, अद्वितीय और प्रगतिशील देश का निर्माण कर सकें।

इस पर्व के अवसर पर हमें समझना चाहिए कि हमारी आजादी एक अमूल्य उपहार है और हमें इसे सुरक्षित, सशक्त और विकसित बनाए रखने की जिम्मेदारी है। हमें गर्व महसूस होना चाहिए कि हम उस देश में जी रहे हैं जिसने आजादी की लड़ाई लड़ी और अपनी आजादी को संरक्षित रखने के लिए हर संघर्ष किया। हमें एक समृद्ध, सशक्त और समान समाज के निर्माण में योगदान देने का संकल्प लेना चाहिए, ताकि हम भारतीयता के महान संकल्प को पूरा कर सकें।

जय हिंद ! जय भारत !



**अमित मोलके**

तृतीय वर्ष

माहिती तंत्रज्ञान अभियांत्रिकी

## जांबाज़ भारतीय सैनिक: देश की रक्षा के अद्वितीय वीर

भारतीय सैनिकों को जांबाज़, साहसी और निष्ठावान होने के लिए प्रशंसा मिलती है। वे हमारे देश की रक्षा के लिए अपने जीवन का बलिदान करने के लिए सर्वोच्च प्राणार्पण करते हैं। वे सीमावर्ती क्षेत्रों से लेकर अंतरिक्ष यात्रा तक हर क्षेत्र में आपातकालीन स्थितियों में अपनी जीवनों का प्रतिफलन करते हैं। इसलिए भारतीय सैनिकों को हमेशा सम्मान और आदर्शवाद के साथ देखा जाता है। जांबाज़ भारतीय सैनिक वीरता, साहस, और पराक्रम के प्रतीक हैं। वे आदर्श नागरिकों के रूप में अपनी प्रवृत्तियों और आचरण के लिए जाने जाते हैं। उनका मनोबल, संकल्प, और विश्वास हमेशा हमारे देश को सुरक्षित और मजबूत रखने में महत्वपूर्ण भूमिका निभाता है।



जांबाज़ सैनिकों की प्रतिभा, कठिनाइयों के बावजूद, हमेशा आदर्शों के प्रतीक रहती है। वे अपने द्वारा स्वीकृत की गई नैतिक मूल्यों और सैनिक धर्म के अनुरूप अद्वितीय साहस और पराक्रम प्रदर्शित करते हैं। भारतीय सैनिकों की विनम्रता, दृढ़ता, और सेवाभाव उन्हें और अधिक प्रशंसा के पात्र बनाते हैं। जांबाज़ भारतीय सैनिकों का अनुभव, धैर्य और विचारशीलता।

भारतीय सैनिकों को जांबाज़, साहसी और निष्ठावान होने के लिए प्रशंसा मिलती है। वे हमारे देश की रक्षा के लिए अपने जीवन का बलिदान करने के लिए सर्वोच्च प्राणार्पण करते हैं। वे सीमावर्ती क्षेत्रों से लेकर अंतरिक्ष यात्रा तक हर क्षेत्र में आपातकालीन स्थितियों में अपनी जीवनों का प्रतिफलन करते हैं। इसलिए भारतीय सैनिकों को हमेशा सम्मान और आदर्शवाद के साथ देखा जाता है। जांबाज़ भारतीय सैनिक वीरता, साहस, और पराक्रम के प्रतीक हैं। वे आदर्श नागरिकों के रूप में अपनी प्रवृत्तियों और आचरण के लिए जाने जाते हैं। उनका मनोबल, संकल्प, और विश्वास हमेशा हमारे देश को सुरक्षित और मजबूत रखने में महत्वपूर्ण भूमिका निभाता है।



**आनंद मोहकार**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## नए ज़माने की दोस्ती: एक बदलते हुए संबंध की पहचान

आधुनिक युग जहां तकनीकी उन्नति ने हमारे जीवन को आसान और संगठित बना दिया है, वहीं इसने दोस्ती के संबंधों को भी नए रूप में परिवर्तित कर दिया है। नए ज़माने की दोस्ती अब एक नई परिभाषा और आदर्शों के साथ आगे बढ़ रही है। पूर्व में दोस्ती अपने अच्छे दोस्तों के साथ व्यक्तिगत मिलने, साझा करने और समय बिताने का एक अनूठा अनुभव था। लेकिन आजकल की दुनिया में, सोशल मीडिया प्लेटफ़ॉर्मों के आगमन ने इसे एक नया आयाम दिया है। नए ज़माने की दोस्ती में व्यक्तिगत मिलने की जगह अब डिजिटल संदेश, वीडियो कॉल और सोशल मीडिया अपडेट हैं। हम अपने दोस्तों से फ़ोटो और वीडियो शेयर करते हैं, चैट करते हैं और उनके जीवन के बारे में नवीनतम जानकारी प्राप्त करते हैं।





यह हमें दूसरे लोगों के साथ जुड़े रहने की सुविधा प्रदान करता है, चाहे हम उन्हें वास्तविकता में मिले हों या नहीं। नए ज़माने की दोस्ती में शायद बातचीत का तरीका बदल गया हो, लेकिन दोस्ती की महत्वपूर्णता और मूल्य स्थायी हैं। यह आपसी समझ, समर्थन, विश्वास और साझेदारी पर आधारित होती है। सोशल मीडिया प्लेटफ़ॉर्मों द्वारा हमें विश्वसनीय और स्थिर संबंधों की खोज में मदद मिलती है, जो हमें विभिन्न भूमिकाओं में संपर्क बनाए रखने की अनुमति देती है।

इसके साथ ही, हमें ध्यान देना आवश्यक है कि दोस्ती को सिर्फ़ डिजिटल परिसर में सीमित न करें। हमें वास्तविकता में अपने दोस्तों के साथ समय बिताने, उन्हें समर्थन और सहायता प्रदान करने के लिए भी उत्साहित किया जाना चाहिए। दोस्ती एक गहरा और मान्य संबंध है, जो समय के साथ बढ़ता है और जीवन को सुंदरता से भर देता है। इस प्रकार, नए ज़माने की दोस्ती डिजिटल युग की एक प्रतिष्ठित पहचान बन रही है। हमें इसे सदैव साथ ले जाना चाहिए, समय देना चाहिए और अपने संबंधों को हृदय से स्थापित करना चाहिए ताकि यह आपसी आदर्शों और मूल्यों पर आधारित ही बना रहे।



**साक्षी देशमुख**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## नयी आशाओं की बजाय जोखिम भरा खेल

आज की दुनिया एक डिजिटल युग में जी रही है और सोशल मीडिया उसका महत्वपूर्ण हिस्सा बन चुका है। इंटरनेट के माध्यम से सभी जगह पहुंचने और जानकारी को आसानी से साझा करने की वजह से सोशल मीडिया एक अद्वितीय संचार माध्यम बन गया है। आज के युवा इसे अपनी जिंदगी का एक महत्वपूर्ण हिस्सा मानते हैं, हालांकि इसके साथ-साथ इसके उपयोग के दुष्प्रभावों को भी नजरअंदाज नहीं किया जा सकता है।

आधुनिक दुनिया में सोशल मीडिया का उच्च प्रभाव एक अच्छी बात हो सकती है, लेकिन हमें यह नहीं भूलना चाहिए कि इसके साथ दुष्प्रभाव भी जुड़े हुए हैं। सोशल मीडिया ने जगत को एक साथ लाने की बजाय, उनके बीच की दूरियाँ बढ़ा

दी हैं, रिश्तों को कमजोर किया हैं और व्यक्तिगत गोपनीयता की समस्याओं को बढ़ावा दिया हैं। यहां हम सोशल मीडिया के कुछ प्रमुख दुष्प्रभाव |

**मानसिक स्वास्थ्य के प्रभाव:** सोशल मीडिया के अधिक मात्रा में उपयोग का संभावित परिणाम है कि लोग मानसिक स्वास्थ्य समस्याओं से ग्रस्त हो सकते हैं। यह जीवन में निराशा, आत्महत्या की भावना, आत्मविश्वास की कमी और सोशल अंतरंगता की समस्याओं के बढ़ने के संकेत हो सकते हैं।

**समय का व्यय:** सोशल मीडिया खोखले मनोरंजन का एक स्रोत बन सकता है और लोगों को अपने महत्वपूर्ण कार्यों और संबंधों से दूर रख सकता है। लंबे समय तक सोशल मीडिया पर व्यय करने से पढ़ाई, रिश्तों का समय और अपने आप से संवाद में रहने का समय खो जाता है।



**व्यक्तिगत गोपनीयता की समस्याएँ:** सोशल मीडिया ने व्यक्तिगत गोपनीयता की समस्याओं को नई ऊँचाईयों पर ले जाया है। लोग अक्सर अपनी निजी जानकारी जैसे जीवन के प्रमुख घटनाक्रम, स्थान, और खुशी के पल सोशल मीडिया पर साझा करते हैं, जिससे वे साइबर अपराधों का शिकार हो सकते हैं। **वाणिज्यिककरण का अधिकार:** सोशल मीडिया ने व्यापारियों के लिए एक बड़ा वाणिज्यिककरण का अधिकार बना लिया है। लोग अक्सर अज्ञात विज्ञापनों और वाणिज्यिक संदेशों के प्रभाव में आकर्षित होते हैं और उन्हें खरीदने के लिए प्रेरित किया जाता है। इससे उनकी वित्तीय स्थिति प्रभावित होती है और अधिकतर लोग खर्चापेशी में बड़ी मुसीबतों का सामना करते हैं।

**सामाजिक संघर्ष:** सोशल मीडिया ने सामाजिक संघर्षों को भी बढ़ावा दिया है। विचार विरोध के चलते, वाद-विवाद और नकारात्मकता के बीच विभाजन बढ़ गया है। लोग अक्सर सोशल मीडिया पर अभिव्यक्ति की स्वतंत्रता का लाभ लेने के बजाय विवाद की तरफ ध्यान केंद्रित करते हैं, जिससे सामाजिक सुख-दुःख की समझ में गड़बड़ी हो सकती है।

यदि हम सोशल मीडिया के दुष्प्रभावों को सच्चाई के रूप में मानें, तो हमें इसके संज्ञान में लेकर उचित कदम उठाने चाहिए। हमें संतुलित उपयोग करना चाहिए, सोशल मीडिया पर अपनी सीमाओं को स्थापित करना चाहिए और वास्तविक दुनिया में अपने संबंधों, रिश्तों और व्यक्तिगत वक्त के साथ जुड़े रहने का प्रयास करना चाहिए। सोशल मीडिया के सकारात्मक और नकारात्मक पहलुओं को संतुलित रूप से निर्णयित करने के बिना, हम इस नयी दिग्गज जगत में अपना सही स्थान नहीं बना सकते।



**श्रेयश धाराशिवकर**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## माँ की याद

मेरी प्रिय माताजी को यह समर्पित, जिन्होंने मुझे हर समय प्रेरणा एवं अपना अमूल्य प्यार दिया, माँ, एक ऐसा नाम जो दुनिया के हर इंसान के लिए प्यार, सम्मान और आदर का प्रतीक है। माँ की ममता, प्यार और संबल ने हमें जीवन के हर मोड़ पर आगे बढ़ने की प्रेरणा दी है। जब भी हमें माँ की याद आती है, हमारे हृदय में एक अनूठी आनंद की अनुभूति होती है। माँ की याद हमें हमारे बचपन के सुंदर सपनों को याद दिलाती है। हमें वह दौलती हंसी, उत्साह और प्यार याद आता है जो हमें अपने आस-पास के संसार में सुरक्षित और प्रेमित बनाता था। माँ के संग बिताए गए उन महीनों को हमेशा याद रखने की खास क्षमता होती है, जहां हमने नये ज्ञान की धारा को अनुभव किया और विकास की प्रक्रिया में आगे बढ़ा।

माँ की याद हमें उनके साथ बिताए गए प्यार भरे पलों को याद दिलाती है। हमें उनके आवास में अपनी सुरक्षित और चिंता मुक्त एहसास की याद आती है। उनकी मांग में सिर झुकाने, उनके प्यार में लिपटे होने, उनकी आदर्शवादी बातों को सुनने की याद हमें समय-समय पर नयी ऊर्जा प्रदान करती है। माँ की याद हमें उनकी असीम परिश्रम, त्याग और समर्पण की याद दिलाती है। हमें याद आता है कि माँ हमारे लिए रात-दिन काम करती हैं, हमें सबसे पहले उठाती हैं और हमारे सपनों को साकार करने में हमेशा हाथ बटाती हैं। माँ के त्यागपूर्वक की गई सेवा और उनके निःस्वार्थ प्रेम की याद हमें सच्चे मन से गर्व महसूस कराती है।

माँ की याद हमें हमारी आत्मा को शांति, संतुष्टि और स्वस्थ की याद दिलाती है। उनका आशीर्वाद हमें शक्ति प्रदान करता है और हमारी आंतरिक शक्ति को जगाता है। माँ की याद हमें धैर्य, समर्पण और सामरिकता की महत्वपूर्णता समझाती है। उनके प्यार और सहयोग से हम अपने जीवन की हर मुश्किल में अग्रसर रह सकते हैं। माँ की याद हमारी दिल की गहराइयों में बसी होती है। वह हमारी रूह का अटूट हिस्सा है, जो हमेशा हमारे साथ होती है, चाहे वह दुनिया से दूर हो या हमेशा हमारे पास हो। जब हमें माँ की |



**तुषार हाडगे**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## संविधान की सर्वोच्चता

संविधान एक देश की सर्वोच्च विधि होती है, जो उस देश के नागरिकों के मौलिक अधिकारों, कर्तव्यों और संवर्धन को सुनिश्चित करती है। यह एक संविधानिक संकल्प होता है जिसे देश के गठन के समय या उसके बाद तैयार किया जाता है और जो देश के नागरिकों के बीच सामान्य न्याय, स्वतंत्रता और समानता की सुरक्षा के लिए संरक्षित होता है। संविधान की सर्वोच्चता का अर्थ है कि यह देश की सभी सरकारी और गैर-सरकारी संस्थाओं, संगठनों और व्यक्तियों के लिए बाध्यकारी होता है। कोई भी संगठन, व्यक्ति या कानून संविधान के प्रावधानों के विपरीत कार्य करने की अनुमति नहीं प्राप्त कर सकता है। यदि किसी कानून या निर्णय को संविधान के विरुद्ध माना जाता है, तो उसे मान्यता दी जानी चाहिए और उसे बदला या रद्द किया जाना चाहिए।

संविधान की सर्वोच्चता एक लोकतांत्रिक संविधानिक व्यवस्था में महत्वपूर्ण है, क्योंकि यह देश के नागरिकों को आधिकारिक और अधिकारिक बाध्यता प्रदान करता है। इसके माध्यम से न्यायपालिका, संघ, विधानसभा, न्यायिक सेवा, शासनादेश और अन्य सरकारी और गैर-सरकारी संगठनों की सीमा तय की जाती है और उनके कर्तव्य और अधिकारों को स्पष्ट किया जाता है। संविधान की सर्वोच्चता देश के संविधानिक न्याय के माध्यम से सुनिश्चित होती है।





संविधानिक न्यायकों की जिम्मेदारी यह होती है कि वे संविधान के प्रावधानों के अनुसार कानूनी मामलों का निर्णय दें और संविधानिक अधिकारों की सुरक्षा सुनिश्चित करें। वे संविधान के आदान-प्रदानों के प्रति संपूर्णता और स्वतंत्रता के साथ बदला कर सकते हैं, लेकिन यह परिवर्तन संविधान की सर्वोच्चता और मान्यता के माध्यम से होना चाहिए।



**विकी भगत**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## ऐतिहासिक केशवानंद भारती केस

केशवानंद भारती केस, भारतीय संविधान के संबंध में एक महत्वपूर्ण न्यायिक मामला है जो भारतीय न्यायालयों की स्वतंत्रता और संविधानिक व्यापार की संरक्षा को लेकर चर्चा में आया। इस मामले में केशवानंद भारती नामक एक धार्मिक गुरु ने यह दावा किया था कि उनके धार्मिक अधिकारों को संविधान के नीचे रखा जाना चाहिए और न्यायालयों का अधिकार उनके धार्मिक मामलों में हस्तक्षेप करने से प्रतिबंधित किया जाना चाहिए। इस मामले का आरंभ 1973 में हुआ जब केशवानंद भारती ने सुप्रीम कोर्ट में एक याचिका दायर की और दावा किया कि उनके धार्मिक अधिकारों को संविधान की 25वीं संशोधन के तहत सुरक्षित किया जाना चाहिए। इसमें धार्मिक संस्थानों के प्रबंधन में संविधान की कुछ उपदेशक दिशानिर्देशों के प्रति गैर-हस्तक्षेपता का दावा किया गया।



सुप्रीम कोर्ट ने यह मामला तीन सदीयों तक चला यहां तक कि 2006 में संविधान की 44वीं संशोधन द्वारा धार्मिक संस्थानों की स्वतंत्रता और व्यवस्था को सुरक्षित करने के लिए एक विशेष व्यवस्था बनाई गई। इसमें कहा गया कि उच्चतम न्यायालय के व्यवस्थापक न्यायिक अधिकारी की सिफारिश के बिना किसी भी धार्मिक मामले में हस्तक्षेप नहीं किया जा सकता है। केशवानंद भारती केस में सुप्रीम कोर्ट ने संविधानिक

व्यापार की महत्वपूर्ण बात की है और यह दिखाया है कि न्यायपालिका को संविधान की आदान-प्रदानों की संरक्षा

करने का बड़ा महत्व है। इसके माध्यम से न्यायालयों ने संविधानिक अधिकारों की संरक्षा की और धार्मिक संस्थानों की स्वतंत्रता और व्यवस्था को सुनिश्चित किया।

केशवानंद भारती केस भारतीय संविधान के मौलिक सिद्धांतों की एक महत्वपूर्ण उदाहरण है और यह दिखाता है कि संविधानिक न्याय और संविधान की सर्वोच्चता के माध्यम से न्यायिक संस्थानों का कार्य नागरिकों के मौलिक अधिकारों की सुरक्षा में विशेष योगदान करता है।



**श्रेयस गोलम**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## भगत सिंह



भारतीय स्वतंत्रता संग्राम का इतिहास उन वीरों की गाथा से सजा हुआ है, जिन्होंने अपनी जानों को कुर्बान करके देश की आजादी के लिए संघर्ष किया। इस संग्राम का एक महानायक था भगत सिंह, जिन्होंने अपने शौर्य और त्याग के माध्यम से एक अद्वितीय योगदान दिया। भगत सिंह, अपने नवजीवन के छः वर्षों के कालावधि में ही भारतीय स्वतंत्रता संग्राम को नई ऊचाइयों तक पहुंचा दिया। उनकी जिह्वा और आत्मसमर्पण की उदाहरणीय मिसालें हैं। उन्होंने युवाओं में देशप्रेम की ज्वाला जगाई और उन्हें आजादी के लिए संघर्ष करने के लिए प्रेरित किया। भगत सिंह ने हिंदुस्तान सोशलिस्ट रिपब्लिकन यूनियन (HSRA) की स्थापना की, जो भारतीय स्वतंत्रता आंदोलन के एक महत्वपूर्ण संगठन बनी। इसके माध्यम से उन्होंने युवाओं को नया जोश और संगठित होने की योजना दी।

भगत सिंह को 1928 में बांकिम चंद्र चट्टोपाध्याय की रचना 'वंदे मातरम्' के रूप में अपनी गीता मानते हुए उसे एक गीत के रूप में व्यक्त किया। इस गाने ने उनकी भारतीय राष्ट्रीयता और आदर्शों के प्रतीक के रूप में जगह बनाई। भगत सिंह, स्वतंत्रता की लड़ाई में अपने साहस और निष्ठा के साथ अग्रणी भूमिका निभाते रहे। उन्होंने दिल्ली के सडलवेल में ब्रिटिश वायुसेना के हेडक्वार्टर्स पर अटैक किया, जिसे 'लाहौर कांड' के नाम से जाना जाता है। इस हमले में उनकी शौर्यपूर्ण वीरता और त्याग ने देशभक्तों को प्रभावित किया और उन्हें स्वतंत्रता की लड़ाई में नई ऊचाइयों तक पहुंचने की प्रेरणा दी। भगत सिंह ने आजादी के लिए अपने जीवन को न्योछावर कर दिया, लेकिन उनका योगदान हमारे देश के लिए अज्ञात नहीं रहा। उनके शौर्यपूर्ण बलिदान ने हमारे देश को स्वतंत्रता दिलाई और हमें एक गर्वपूर्ण अनुभव प्रदान किया।



**अथर्व उराहे**

तृतीय वर्ष

माहिती तंत्रज्ञान अभियांत्रिकी

## "रामचरितमानस"



“रामचरितमानस” एक महाकाव्य है, जिसे तुलसीदास द्वारा अवधी भाषा में लिखा गया है। इस काव्य में भगवान राम के जीवन की कथा का विस्तृत वर्णन है। यह महाकाव्य अष्टकों (अध्यायों) में विभाजित है, जिनमें भगवान राम के अलग-अलग घटनाक्रमों का वर्णन किया गया है। इसमें रामायण के प्रमुख किंवदंतियाँ, आध्यात्मिक और नैतिक सन्देश, भगवान राम के गुणों की महिमा और उनकी भक्ति की महत्वपूर्णता पर ध्यान केंद्रित किया गया है। यहां रामचरितमानस की मुख्य कथाओं और अध्यायों का संक्षेप में वर्णन किया गया है:

**बालकाण्ड:** इस अध्याय में राम का जन्म, उनके बाल्य लीलाएं, गुरुकुल में उनका अध्ययन, विवाह संस्कार आदि का वर्णन है।

**आयोध्याकाण्ड:** इस अध्याय में राम के वनवास का निर्णय, सीता हरण, भरत-शत्रुघ्न की प्रेम कथा, लक्ष्मण-उर्मिला की विवाह कथा आदि का वर्णन है।

**अरण्यकाण्ड:** इस अध्याय में राम और सीता के वनवास का वर्णन, रावण के साथ सीता का अपहरण, जटायु की मदद, सुग्रीव के साथ मैत्री आदि का वर्णन है।

**किष्किंधाकाण्ड:** इस अध्याय में हनुमान की प्रमुखता, किष्किंधा नगर की स्थापना, सुग्रीव की सहायता, वानर सेना का वर्णन, हनुमान का लंका में जाना आदि का वर्णन है।

**सुंदरकाण्ड:** इस अध्याय में हनुमान जी की लंका यात्रा, सीता के दर्शन, रावण के विरोध में युद्ध, लंका दहन, सीता को छुड़ाने का प्रयास, राम-हनुमान की मैत्री आदि का वर्णन है।

**युद्धकाण्ड:** इस अध्याय में राम और रावण के युद्ध का वर्णन, मेघनाद की मृत्यु, कुंभकर्ण की मृत्यु, रावण के मरण, सीता का उद्धार, अयोध्या में राम का राज्याभिषेक आदि का वर्णन है।

**उत्तरकाण्ड:** इस अध्याय में राम और सीता का अयोध्या वापसी, रामराज्य का वर्णन, लव-कुश की कथा, राम की प्रकटी आदि का वर्णन है।

"रामचरितमानस" में राम के धर्म, नैतिकता, प्रेम, त्याग, सामर्थ्य और भक्ति का महत्वपूर्ण प्रदर्शन है। इस काव्य का पाठ करने से आध्यात्मिक और नैतिक उन्नति होती है और इंसान को धर्मपरायण जीवन जीने के लिए प्रेरित करती है।



**यश पारीख**

अंतिम वर्ष

यात्रिकी अभियांत्रिकी



## भाई-बहन का रिश्ता: प्यार और आदर्श



भाई-बहन का रिश्ता सबसे प्यारा, सबसे गहरा और सबसे अमूल्य होता है। यह एक ऐसा रिश्ता है जो जीवन के आरंभ से ही हमारे साथ जुड़ता है और हमारे पूरे जीवन को अपनी मिठास और मजबूती से भर देता है। भाई-बहन का रिश्ता प्यार, सम्मान, सहानुभूति और सहयोग पर आधारित होता है। यह रिश्ता विशेष होता है क्योंकि यह एक संघर्ष और समझौता के साथ बनता है। भाई-बहन के बीच हमेशा एक खेल, एक आपसी

टकराव या एक मतभेद हो सकता है, लेकिन वे हमेशा एक दूसरे के साथ खुशी और शांति की तलाश में रहते हैं। यह रिश्ता हमें सहनशीलता, समझदारी और धैर्य की सीख देता है। हम सिखाते हैं कि कैसे एक-दूसरे के साथ समझौता करें, कैसे अपने गलतियों को स्वीकार करें और कैसे आपसी मतभेदों को तर्क और समझदारी से हल करें।

भाई-बहन का रिश्ता हमें संयम और न्यायप्रियता की सीख देता है। भाई-बहन के बीच बातचीत और मतभेद हमेशा इस मानसिकता के साथ होते हैं कि हमें एक दूसरे की मान्यताओं और अभिप्रेतियों का सम्मान करना चाहिए। यह रिश्ता हमें और संवेदनशील बनाता है और हमें इंसानियत की मूल्यों को समझने और मानने की प्रेरणा देता है। भाई-बहन का रिश्ता संगठनशीलता और सहयोग की मिसाल होता है। जब हमें किसी आपात्ति का सामना करना पड़ता है या कोई मुश्किल होती है, तब हमारे भाई-बहन हमारे साथी बन जाते हैं। वे हमें मानसिक, भावनात्मक और भौतिक सहायता प्रदान करते हैं। इस रिश्ते में हमारी एकता और बंधुत्व की ताकत होती है जो हमें हर मुश्किल से निपटने में सहायता करती है।



**मृणाल पाटिल**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## पिता

पिता हमारे जीवन के महत्वपूर्ण हिस्से होते हैं और हमारे जीवन में विशेष स्थान रखते हैं। पिता एक मार्गदर्शक, प्रेरक और संरक्षक के रूप में हमारे लिए काम करते हैं। वे हमें न सिर्फ शिक्षा और ज्ञान के लिए प्रेरित करते हैं, बल्कि हमारे आदर्श और मूल्यों को भी स्थापित करने में मदद करते हैं। पिता हमारे जीवन के प्रमुख संचालक होते हैं। उन्होंने हमें उच्चतम शिक्षा के लिए अधिकारिक या गैर-अधिकारिक संस्थानों में दाखिल करवाया हो सकता है ताकि हमें सफलता की ऊँचाइयों को छूने का अवसर मिले। पिता हमें अपने जीवन के महत्वपूर्ण मौकों पर सामर्थ्य और सुरक्षा के भावना प्रदान करते हैं। वे हमारे बचपन से जवानी तक हमारे साथ खड़े रहते हैं और हमें हमेशा सही रास्ते पर चलने के लिए प्रोत्साहित करते हैं।

पिता की अनुशासन और सख्ती हमारे व्यक्तित्व को निर्माण करने में महत्वपूर्ण भूमिका निभाती है। उनके द्वारा स्थापित किए गए नियमों का पालन करना हमें संयमित और दिशानिर्देशित बनाता है। पिता हमें संघर्ष करने की क्षमता,



धैर्य और सहनशीलता सिखाते हैं। वे हमें जीवन के विभिन्न पहलुओं से समझदारी से निपटने की कला सिखाते हैं। पिता के प्यार, धैर्य और समर्पण की भावना हमारे लिए अत्यंत महत्वपूर्ण होती है। वे हमारी मानसिक और आत्मिक संतुलन की देखभाल करते हैं और हमें खुद को स्वीकारने और आत्मविश्वास का विकास करने की प्रेरणा देते हैं। पिता हमारे जीवन के अवसरों पर हमें आत्मविश्वास और स्थायित्व की महत्ता समझाते हैं।

एक पिता होना एक अनमोल उपहार है और हमेशा हमारी सर्वोच्च सराहना करने वाला व्यक्ति होता है। उनके प्यार और समर्पण का आभार हमेशा हमें रखना चाहिए और हमेशा उनके प्रति सम्मान और प्रेम दिखाना चाहिए। इस प्रकार, पिता हमारे जीवन के अटूट अंग होते हैं और हमें संघर्षों से लड़ने, सफलता की ओर आगे बढ़ने और अच्छे लोग बनने की प्रेरणा प्रदान करते हैं। हमें सदैव पिताजी के प्रति आभारी और प्रेमपूर्ण रहना चाहिए।



**चेतन अंबलकर**

तृतीय वर्ष

विद्युत् अभियांत्रिकी

## अहिंसा परमो धर्म

"अहिंसा परमो धर्म" एक प्रसिद्ध संस्कृत कहावत है, जिसका अर्थ होता है कि अहिंसा ही सबसे उच्च धर्म है। यह वाक्य महात्मा गांधी द्वारा बड़े ही प्रसिद्ध हुआ है, जिन्होंने अपने जीवन में अहिंसा को महत्वपूर्ण स्थान दिया था। यह निबंध अहिंसा परमो धर्म पर चर्चा करेगा और इसके महत्व को समझाएगा। अहिंसा का मतलब होता है किसी भी प्रकार के हिंसा का अनुरोध न करना और दूसरों के प्रति दया, समबुद्धि और सहानुभूति के साथ काम करना। यह सोचने की प्रक्रिया है, जो हमें दूसरों के दुख के संबंध में आगे बढ़ने से रोकती है और शांति, सद्भाव और सहयोग की ओर आगे बढ़ाती है। अहिंसा के प्रति समर्पण करना हमें समाज में सुख, समृद्धि और सद्भाव को स्थापित करने का मार्ग दिखाता है।

अहिंसा का प्रदर्शन करने के लिए हमें पहले से अधिक ज्ञान और सद्भाव के साथ आत्मा समर्पित करना होगा। अहिंसा मानवीय सहज गुणों को विकसित करने की अभियान है, जो हमें दूसरों के लिए भलाई करने की प्रेरणा देता है। अहिंसा का मतलब दूसरों की भावनाओं, स्वार्थ और निजी लाभ के प्रति समझदारी और समर्पण करना है। यह हमारे समाज में सद्भाव, तालमेल, और शांति के साथ एकता का निर्माण करता है। अहिंसा परमो धर्म के माध्यम से हमें अन्य जीवों की सम्मान करने, उन्हें तकलीफ न पहुंचाने, और उनके प्रति संवेदनशील होने की प्रेरणा मिलती है। यह हमें धार्मिक, सामाजिक और आध्यात्मिक मामलों में सत्य, ईमानदारी, और न्याय का पालन करने के लिए प्रेरित करता है। अहिंसा का प्रदर्शन विविधता के लिए भी महत्वपूर्ण है और हमें सामरिक विवादों और संघर्षों को शांति और सद्भाव से हल करने के लिए प्रेरित करता है।



**सरला पारसकर**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## ए कलम तू मेरी सबसे अच्छी दोस्त हैं

ए कलम तू मेरी सबसे अच्छी दोस्त हैं  
 क्योंकि तू मेरे दिल की हर बात जानती हैं ।  
 हर छोटी बड़ी बात तू कागज़ पर उतारना जानती हैं  
 कोई ना समझ सका मुझे जितना तू समझना जानती हैं ।  
 ज़ेहन का हर एक खयाल कलम से उतारना जानती हैं  
 ए कलम तू मेरी सबसे अच्छी दोस्त हैं  
 क्योंकि तू मेरे दिल की हर बात जानती हैं ॥  
 जो बात जुबां के लफ़्ज़ ना बयां कर पाए  
 वो तेरे अल्फाजों से बयां करना जानती हैं ।  
 दुःख के दास्तां हो या इश्क़ की कहानी  
 तू शब्दों से सब बुनना जानती हैं ।  
 ए कलम तू मेरी सबसे अच्छी दोस्त हैं  
 क्योंकि तू मेरे दिल की हर बात जानती हैं ॥  
 तेरा मेरा रिश्ता ये सबसे अलग सा हैं  
 मेरे किसी दोस्त करीबी से ज्यादा तू मुझको जानती हैं ।  
 मेरा हर एक एहसास, हर एक भाव  
 तू बयां करना जानती हैं ।  
 ए कलम तू मेरी सबसे अच्छी दोस्त हैं  
 क्योंकि तू मेरे दिल की हर बात जानती हैं ॥  
 जब मेरा दिल मायूस सा हो,  
 जब मेरे साथ और कोई ना हों ,  
 तब मेरा हाथ बस तूने ही थामा हैं ,  
 मेरे जीवन का सार बस तूने ही जाना हैं ।  
 अंदर की खुशीं, दुःख, गुस्सा, प्यार,  
 परेशानी, सुस्त , बेज़ार , मश्कोफ़,  
 दर्द, खौफ़, फ़िक्र, घबराहट, थकान,  
 बस तूने ही जाना हैं ।  
 तूने ही पहचाना हैं ।  
 तूने ही बयां की हैं ।  
 इसलिये,  
 ए कलम तू मेरी सबसे अच्छी दोस्त है



**गौरव घाटोल**

द्वितीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी



## बता आज कौनसी बात लिखूं..

थोड़ा सोचूं फिर एक बात लिखूं  
 जज़्बात लिखूं या हालात लिखूं..  
 तेरे इश्क़ को अपने साथ लिखूं,  
 या मेरे हाथों में तेरा हाथ लिखूं..  
 तुझे देखूं फिर तेरी बात लिखूं,  
 तारिफ़ लिखूं या फ़रियाद लिखूं..  
 तेरे पीछे खुद को आबाद लिखूं,  
 या तन्हाई में खुद को बर्बाद लिखूं..  
 तुझे दिन या खुद को रात लिखूं,  
 बता आज कौनसी बात लिखूं..?



**ऋतुजा पवार**

द्वितीय वर्ष

माहिती तंत्रज्ञान अभियांत्रिकी



## ॥ कान्हा ॥

हां! चला गया है वो युग ,  
जब तुम इस धरती पर थे ,  
पर क्या चले गए थे तुम भी कान्हा ,  
जब पूर्ण हुए सब कार्य थे ?

अब भी तुम यही हो कान्हा ,  
बस रूप तुम्हारा बदल चुका ,  
बसते हो अब सबके मन में ,  
जिसको मानव कब का भूल चुका ।

की थी तुमने धर्मस्थापना ,  
अब खंड खंड वो हो चली ,  
नारी का सम्मान और गौ माता भी है बली चढ़ी ।  
प्रेम भरा संसार अब , द्वेषपूर्ण है हो चला ,  
अपने ही मां बाप को , पुत्र अनाथ है कर चला ।

दिया था जो परम ज्ञान ,  
बस धर्मग्रंथ अब है बना ,  
भक्ति का सदमार्ग भी ,  
पाखंड अब लगने लगा ।

सिखलाया था जो निर्मल प्रेम ,  
अब प्रश्नचिन्ह वो है बना ,  
मोह और अज्ञान को ही ,  
संसार सुख है मान चला ।

कोई कहे तुम हो बालाजी ,  
कोई कहे जगन्नाथ हो ,  
या फिर विठ्ठल रूप में ,  
विराजमान पत्थर पर हो ।



रूप जो भी हो तुम्हारा ,  
निराकार या साकार हो ,  
पर सत्य सदा से है कान्हा ,  
तुम आज भी हमारे साथ हो ।

तुम देख रहे हो सब कुछ कान्हा ,  
बस संयम साधे बैठे हो ,  
शायद कर रहे हो कठोर प्रतीक्षा ,  
जब विजय पुनः धर्म की हो ।

तुम आज भी हो इसी धरा पर ,  
बस साकार तुम्हारा रूप नहीं ,  
पुनः करोगे धर्म स्थापना ,  
इसमें अंश मात्र संदेह नहीं ॥

॥हरे कृष्ण ॥



**निशा शर्मा**

द्वितीय वर्ष  
माहिती तंत्रज्ञान अभियांत्रिकी

## ॥ कृष्ण ॥

कृष्ण, जितना सुंदर नाम है, मनमोहक उतना रूप भी ।  
हर एक रूप में आदर्श है, पूर्ण पुरुषार्थ का प्रमाण भी ॥

हर बालक में कृष्ण खेलता, हर नर में नारायण भी ।  
हर प्रेमी का आदर्श कृष्ण, हर नारी का सम्मान भी ॥

हर शिष्य की जिज्ञासा कृष्ण, हर गुरु का है मान भी ।  
कृष्ण ही है जगतगुरु, माँ यशोदा के लाल भी ॥

राधा के है प्राण कृष्ण, रुक्मिणी के आर्धांग भी ।  
भ्राता है बलराम के, तो सखा है अर्जुन के भी ॥

कृष्ण ही है परमपिता, कृष्ण ही माखनचोर भी ।  
कृष्ण ही है रणछोड़ तो, कृष्ण ही द्वारकाधीश भी ॥

गोपियों का प्रेम कृष्ण, शत्रुओं के संहारक भी ।  
प्रेम का है सार कृष्ण, प्रेम का आधार भी ॥

तपस्वियों का तप है कृष्ण, योगियों का योग भी ।  
शरणागत के रक्षक कृष्ण, स्वयं दयानिधान भी ॥

बलवानों का बल है कृष्ण, ज्ञानियों का ज्ञान भी ।  
नारी का वात्सल्य कृष्ण, पुरुषों का पुरुषार्थ भी ॥

तेजस्वियों का तेज कृष्ण, योद्धाओं का साहस भी ।  
धनवानों का ऐश्वर्य कृष्ण, दलितों के प्रतिपालक भी ॥

कृष्ण ही है पालनहार, निर्माता और संहारक भी ।  
प्रेम का है गीत कृष्ण, तो युद्ध का शंखनाद भी ॥



मधुबन का है रास कृष्ण, कुरुक्षेत्र का संग्राम भी ।  
मैत्री का प्रस्ताव कृष्ण, तो महाभारत की हुंकार भी ॥

राधा का श्रृंगार है कृष्ण, मीरा के है गीत भी ।  
सूरदास की आंखें तो, करमा का विश्वास भी ॥

एकमात्र है सत्य ये, एकमात्र विश्वास भी ।  
कृष्ण ही है परमपिता, कृष्ण ही संहारक भी ॥  
॥ हरे कृष्ण ॥

। कृष्ण ॥ ॥ कृष्ण ॥



**निशा शर्मा**

द्वितीय वर्ष  
माहिती तंत्रज्ञान अभियांत्रिकी

## जारी रखा है...

तूने है छोड़ा, मैंने निभाना जारी रखा है।  
टूटे जो धागे, गिरहे लगाना जारी रहा है।

तेरे सूर है बदले, मेरी तो ताल वही है।  
अब जवाब नहीं आते, पर मेरे सवाल रही है।

खामोशी, जिरहे, होना न होना अपने तो रिश्ते इनसे परे है।  
मेरे हर फैसले पर असर है तेरा, मेरे अफसाने तरी झलक से  
भरे है।  
तूने भले ही खो दिया हो खुदको, मैंने तुझे पाना जारी रखा है।

तूने है छोड़ा, मैंने निभाना जारी रखा है।  
टूटे जो धागे, गिरहे लगाना जारी रखा है।



**नुपूर व्यास**

तृतीय वर्ष

संगणक अभियांत्रिकी

## क्यों रहते हो इतना गमगीन।

क्यों रहते हो इतना गमगीन।  
जरा मुस्कुरा कर तो देखो।  
ज़िन्दगी खुशियों से लबालब होंगी  
बस एक दफा गमो को भुला के तो देखो।  
मिलजाएगी कई वजहें जीने की इस दुनिया में।

तुम बस एक दफा नजर उठा के तो देखो।  
भर जाएंगे तुम्हारा यह खाली पण ज़िन्दगी का।  
तुम लोगो को पास बुला कर तो देखो।  
भुल जाओंगे सारी वाफए, झूटी मोहब्बत की।  
तुम बस एक दफा सहिं जगह, दिल लगा कर तो देखो।



**अदनान अकबानी**

तृतीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## जिंदगी

क्यों हैं रूठी जिंदगी तू ?

क्या है तेरे शिक्के ?

इम्तिहान ही हैं तेरी हर चाल

कब मिटेंगे ये तेरे-मेरे रूस्वे

जी लेता हूं थोड़ा सा मैं

नज़र किसकी लग जाती हैं

ये बता जिंदगी आखिर तू मुझसे क्या चाहती हैं.... ?

आँख में है नमी हमेशा मेरे

मुस्कुराने की वजह कब तू देगी...

करू मैं कुछ अच्छे कर्म

और उसमे बरकत कब तू देगी..

तेरी हर एक ठोकर मेरे दिल को लग जाती हैं

ये बता जिंदगी आखिर तू मुझसे क्या चाहती हैं.... ?

वादे हैं दिए घरवालों को

जवाब देने हैं हसने वालों को

तोड़ देने हैं सारी जंजीरों जो

मुझे पीछे खींच लेती हैं

आवाज़ मेरी शायद खुदा तक नहीं पहुंच पाती हैं

ये बता जिंदगी आखिर तू मुझसे क्या चाहती हैं.... ?



**नरेंद्र लक्ष्मण मोरे**

अंतिम वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी



## बस यही ज़िन्दगी है



जीवन के रंग भरे खेल,  
खुशियों की ढेरों और गम का मेल।  
हर एक पल लाखों रंगों में खो जाता है,  
एक पल अचानक जीवन का सफर खत्म हो जाता है।

कुछ देर के लिए बदलती है ज़िन्दगी की धुन,  
फिर दूसरी धुन पर होती है ज़िन्दगी की चलन।  
कुछ मीठी यादों के साथ जीते हैं हम जीवन को,  
कुछ कड़वी यादों से संभलते हैं हम जीवन को।

बदलते रहते हैं साथियों के साथ रिश्ते,  
जैसे चलती रहती है धूप और छाया के बीच से लम्हे के रंग।  
जीवन की इस उलझन में भी हम नहीं रुकते हैं,  
बस उतार-चढ़ाव में जीते हैं हम अपने सफर को आगे बढ़ाते हैं।

कुछ खो देते हैं हम जीवन में,  
कुछ पाते हैं हम जीवन में।

पर जीवन का सफर कोई खत्म नहीं होता,  
बस हम समझते हैं कुछ अलग तरह से जीवन को।  
जीवन का सफर एक अनोखा है,  
कुछ नए रंग जोड़ता है जब भी उसका रंग।  
यह सफर ना कभी थमता है,  
बस हमें सभी रंगों में खो जाने की है।



**नरेंद्र मोरे**

अंतिम वर्ष  
परमाणु एवं दूरसंचार अभियांत्रिकी

## ज़िंदा हूँ



ज़िंदा हूँ, खुशी से भरपूर,  
सपनों की ऊँचाई पर ऊँचाई छू रहा हूँ।  
हर दिन नयी उम्मीदों का संग्रह कर,  
खुद को सच्चाई से जीने का वादा कर रहा हूँ।

मुसीबतों के बादल आते रहते हैं,  
पर उन्हें छूकर भी मैं मुस्काने से नहीं हटता।  
हर कठिनाई को चुनौती देकर,  
संघर्षों को अपनी बहादुरी से झटकता हूँ।

ज़िंदा हूँ, प्यार के रंग में रंगा हुआ,  
दिलों को जोड़ने का संकल्प लिए हुआ।  
हर रिश्ते को नए प्यार से बांधता हूँ,  
खुशियों की बारिश बरसाता हूँ।

आज भी सपनों को पंख देता हूँ,  
आसमान की उचाईयों पर उड़ने को प्रेरित करता हूँ।  
नए रंग लेकर जीने का आदान कर,  
हर सुबह नयी उम्मीद के संग उठता हूँ।

ज़िंदा हूँ, ये जानकर खुद को बदलता हूँ,  
बातों को व्यर्थता से मुक्त करता हूँ।  
हर पल को जीने का जी भरकर अनुभव कर,  
सपनों को साकार करता हूँ।  
तो कहता हूँ ज़िंदा हूँ मैं



**प्रतीक्षा सोलंके**

तृतीय वर्ष  
परमाणु एवं दूरसंचार अभियांत्रिकी

## खुद को ही कुर्बान कर दिया...

माटी का वह लाल लहू से  
लहूलुहान हो गया  
शहादत थी ऐसी  
मानो विशाल हो गया  
कुछ कर गया देश के खातिर  
जान हाथ पे धर गया  
भरी जवानी सौंप दी वतन को  
खुद को ही कुर्बान कर दिया  
आँखरी सांसे गिनते गिनते, वह जवान कह गया,  
कि,

फक्र हैं मुझे अपनेआप पर  
मैं इस मिट्टी में समा रहा हूँ,  
पास है घड़ी दूर जाने की  
बस थोड़ी सांसे जमा रहा हूँ  
दुश्मन को पेलकर, इस छातीपर  
थोड़ी तफलिक झेल रहा हूँ  
इसी लम्हे का इंतजार था मुझको,  
इसी में अब समा रहा हूँ।

कि,  
माँ रोना मत तुम मेरी शहिदी पर  
गर्व से सिना ऊँचा करना,  
बेटा मैं था शेर तेरा  
मुझको खुशी से विदा तु करना  
कमज़ोर मत समझना अपने आप को  
शेरनी खुद को मेहसुस तु करना  
तु यह समझ, यह बेटा तुने  
भारत माँ को दान दिया, जिसने,  
भरी जवानी सौंप दी वतन को  
खुद को ही कुर्बान कर दिया ||

उन आँखों को देखा मैंने  
जिसमें रोश भरा हुआ था,  
यही फिक्र थी घरवालों को  
पूरा परिवार बिखरा हुआ था



कि कब लौटेगा मेरा लाल  
यह माता कि बोली थी,  
मगर उनको क्या पता,  
बेटे के दिल में तो गोली थी,  
बम, गोली से खेला जो  
जंग के मैदान में,  
जुटा हुआ था कर्ज चुकाने  
भारत माँ के शान में  
कर गया कुछ ऐसा, बलिदान कर गया,  
भरी जवानी सौंप दी वतन को  
खुद को ही कुर्बान कर दिया.....

बाप ने सिना कठोर कर  
फिर भी जोश दिखलाया,  
क्या कहे वो इस पत्थर दिल को,  
जिसने एक लाल गवाया,  
मगर डर नहीं था किसी भी,  
घरवालों के चेहरे पे  
रात गुजर गई थी लेकिन,  
वो भूल ना पाये पहरे को  
एसी जीवनी थी, उस बेटे की,  
जो "अमर जवान" कर गया  
जिसने, भरी जवानी सौंप दी वतन को  
खुद को ही कुर्बान कर दिया.....



**विककी भगत**

तृतीय वर्ष  
परमाणु एवं दूरसंचार विभाग

## जब बात होती है देश की शान की

जब बात होती है देश की शान की  
तो होती हैं सबकी पेशगी..  
तब ना कोई पार्टी..  
ना कोई विचारधारा..  
ना किसी भी नेता के नाम की,  
जब बात होती है देश के शान की...

जहा तिरंगा देखता हु..  
याद आती है माटी..  
गर्व से सीना उंचा होता  
जैसे हिमालय ही चोटी..  
हिंद के तुफानी लहरों का,  
यही रासते नापती..  
यह वहीं मुल्क है , जो विश्व को ...  
पैगाम देता भाईचारे के साथ. कि,  
जब बात होती है देश के शान की...

याद आती है उन वीरो की  
जिंका लहू गुलाल हुआ था..  
आजादी के चाह मे..  
हर एक लाल, लाल हुआ था  
तब , दिवाली भी बम गोलो के  
गुंजो मे गुमराह थी...  
भरी जवानी कुर्बान कर दे  
उन दिनो यही चाह थी..  
तब ना किसी ने धरम न पूछा  
ना बात हुई जात की  
जब बात होती है देश के शान की...

जहा तिरंगा देखता हु  
याद आती है माटी  
गर्व से सीना उंचा होता  
जैसे हिमालय ही चोटी

यह वही देस हैं , जहाँ विर शिवाजी  
मुघलो से सौ बार लढा था,  
मारवाड का सपूत महाराणा ,  
अकेला रस्ता रोक खडा था |  
यह वहीं मुल्क है , जो विश्व को ...  
पैगाम देता भाईचारे के साथ कि,  
जब बात होती है देश के शान की...



### विककी भगत

तृतीय वर्ष  
परमाणु एवं दूरसंचार विभाग

## सपनों की दुनिया

सपने की दुनिया में खो जाऊं,  
उड़ान भरू खुद को बादलों में।  
दिल की गहराइयों से खेल लूं,  
अपनी मधुरता से सबको मोहित करूं।

सपने की उड़ान में आसमानों को छू लूं,  
तारों के संग रातों को चूम लूं।  
विचारों के पंखों पर चढ़कर उड़ जाऊं,  
नयी दुनिया को अपनी बाहों में समाऊं।

सपनों की नौका में सफर करूं,  
सितारों से बातें कर लूं।  
खोए हुए सपनों को ढूँढ़ लूं,  
उन्हें अपनी आंखों में समेट लूं।

सपनों के गुलिस्तान में घूम कर आऊं,  
खुशियों के पुष्पों को तोड़ लूं।  
उम्मीद के सूरज को जगा दूं,  
आशाओं के तारों को छू लूं।



### जान्हवी नकट

द्वितीय वर्ष  
संगणक अभियांत्रिकी



## मिट्टी मे ही मिल जाऊंगा !

मैं एक सपूत इस माटी का,  
कुछ करके ही अब दम लूंगा  
मैं इस धरती की रक्षा खातिर  
जाँ नौछावर कर जाऊँगा  
सुखे पेड़ पर बिन पाती के  
गुलाब सा खिल जा जाऊँगा,  
मिट्टी से ही जन्मा हूँ  
मिट्टी मे ही मिल जाऊँगा !



राष्ट्रभक्ती की तपन हैं मुझमे  
देशभक्ती का भाव  
जैसे रण मे वृक्ष किसी को  
देता ठंडी छाँव  
वैसे ही मैं राष्ट्रकार्य का  
बढता एक उठाव  
तन में ताहि, हृदय में ज्वाला  
लेकर तिलमिल जाऊँगा  
मिट्टी से ही जन्मा हूँ  
मिट्टी मे ही मिल जाऊँगा !

यह माटी मुझे अन्न खिलाती  
यही मुझे जोश है देती  
प्रचुर भक्ति - भाव हैं भरती  
इस भारत कि माटी धरती  
उज्ज्वल भारत के भविष्य का  
यही माटी स्वप्न दिखाती  
सब कुछ अर्पण इसको  
जाँ और दिल दे जाऊँगा  
मिट्टी से ही जन्मा हूँ  
मिट्टी मे ही मिल जाऊँगा !  
शूर विरों की धरती यह है  
बलिदानो की छाँती पर  
यहा तमन्ना पुरी की जाती हैं

जलती बाती पर  
यहा प्यासी रुहे थी  
बलिदानो की दस्तक पर  
क्रांतिविर लिखा जाता था  
हर किसी के मस्तक पर  
क्रांति की ज्वाला लेकर हाथपर  
दीपक सा जल जाऊँगा  
मिट्टी से ही जन्मा हूँ  
मिट्टी मे ही मिल जाऊँगा !

की, एक राष्ट्र हो  
एक गान हो  
एक ध्यान और एक जान हो  
एकता से सब जुटे  
सबको एक सम्मान हो  
अमूल्य भारत, अतुल्य भारत  
विश्वपटल पर तूफान हो  
जाते-जाते भारती की,  
एकता का पर्वम सिल जाऊँगा !  
मिट्टी से ही जन्मा हूँ  
मिट्टी मे ही मिल जाऊँगा !



**अनुष्का सोनटकर**

द्वितीय वर्ष

माहिती तंत्रज्ञान अभियांत्रिकी

## कलम की ताकत



कलम की ताकत अनमोल है,  
शब्दों की शक्ति विशेष है।  
इस छोटे से उपकरण की,  
भाषा को अद्वितीयता मिलती है।

कलम की तिनका एक सौगात है,  
कविता को रंगीन बनाती है।  
जो सपनों को सच कर देती,  
उम्मीदों की ऊंचाई पर ले जाती है।

कलम की छाप सच्ची होती है,  
दिल के रंग को पहचानती है।  
बेहतरीन विचारों का संग्रह,  
अपनी कलम से प्रगट करती है।

कलम की आवाज बड़ी प्यारी है,  
सत्य के संगीत को गाती है।  
जो लोगों के मन को छू जाती,  
सच्चाई को उनके सामने पेश करती है।  
कलम की ताकत से विचार बदलते हैं,  
व्यक्ति की दुनिया सजती है।  
जब शब्दों की बाढ़ समुद्र में उतरती है,

वाणी की नदी निरंतर बहती है।  
कलम की ताकत अनन्य है,  
विचारों की उच्चाई पर ले जाती है।  
जगाती है सोच की चित्कारिता,  
कलम की शक्ति निरंतर चमकती है।



**अजय सोलंके**

अंतिम वर्ष  
यात्रिकी अभियांत्रिकी

## नसीब का लिखा होगा तो कहा जाएगा

खुद में ही उलझ कर हमने खुद को और उलझा दिया,  
चंद पैसों को खातिर हमने इंसानियत को भुला दिया।

मेरा नसीब भी शायद अच्छा होता ,अगर  
तू किसी और का ना हों कर सिर्फ मेरा होता।

यू ना किस्मत से जियादा की उम्मीद कीजिए।  
जितना मिले नसीब का उसमें है काट लीजिए।

आज नहीं तो कल मिल है जाएगा,  
जनाब नसीब का लिखा होगा तो कहा जाएगा।



**ऋतुजा पवार**

द्वितीय वर्ष  
माहिती तंत्रज्ञान अभियांत्रिकी

## सीखते चल



जो जैसा है उसे बस वैसे ही,  
स्वीकार करना सीख।  
प्रति क्षण बदलते समय के साथ,  
तु भी बदलना सीख।

नहीं टिक पायेगा तु  
इस हिचकोले खाती पुलिया पर,  
जो टिकना है इसके साथ  
तो हिलना डुलना सीख।

क्यों ठिठुर जाता है तु  
जरा सी सर्द हवाओं में,  
बर्फ को तु खेल बनाकर  
बढ़ते चलना सीख।

विलक्षण है बुद्धि तेरी  
भरी है तुझमें असीम प्रतिभा,  
मान लेता है फिर क्यों  
बातें बहती हवाओं की,  
कभी खुद पर भी तो  
भरोसा रखना सीख।

है एक ही जीवन-चित्र हाथ में तेरे,  
कर ले लाख अट्टाहास फिर भी  
हर एक रंग भरना संभव नहीं है तब भी,  
लेकिन जितना भी हो संभव  
तु इसे बेहतरिन करना सीख।

अनंत जीवन्त कथाएँ  
घुमती है इर्द गिर्द तेरे,  
परिवेश से तेरे,  
बस मोती बटोरना सीख।

उम्मीदें जो तुझसे बंधी है,  
बोझ नहीं वो प्रेरणा हैं,  
इस ऊर्जा का करके दोहन,  
इनसे भी आगे... निकल जाना सीख।

भूत में सर्वश्रेष्ठ दिया है,  
भविष्य से भी आशा वही है  
क्योंकि जो भी आएगा फल,  
उसका कर्ता-धर्ता तो तु ही है।



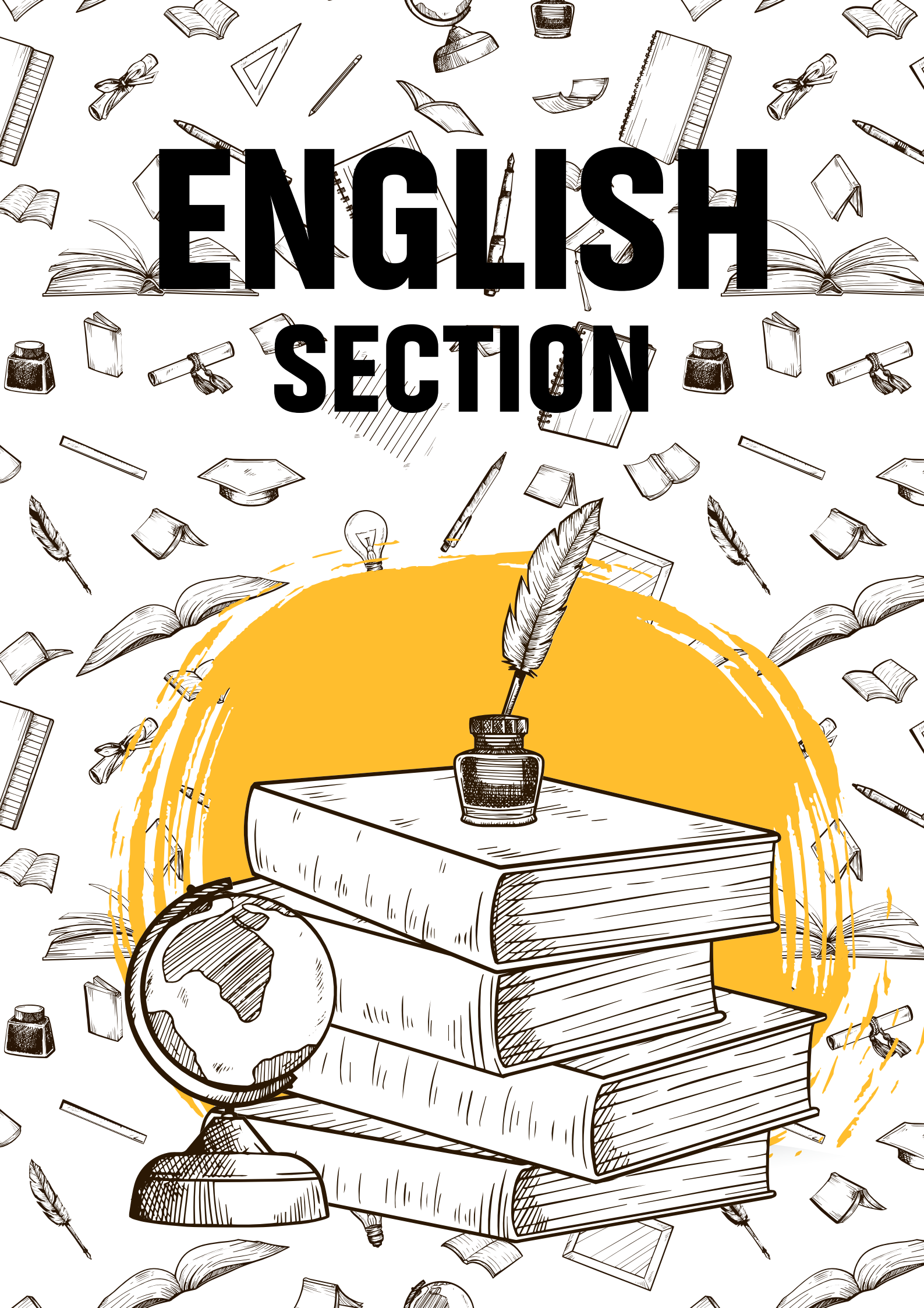
**चितवन नाईक**

तृतीय वर्ष

संगणक अभियांत्रिकी



# ENGLISH SECTION



## EDITORIAL

Over the course of 21 successful years, our college magazine has been a remarkable showcase of fine artistry from the talented students of SSGMCE Campus. Throughout its journey, the magazine has skillfully captured the creativity, mindfulness, and inner expressions of our student community.

The magazine stands as a proud testament to the hidden talents within our student body, and we take immense pride in the hard work put forth by both students and teachers. The level of student participation was impressive, and as the English editor, I had a truly amazing experience.

The success of the magazine can be attributed to the remarkable cooperation among all team members. Working together wholeheartedly and with enthusiasm, we were able to create a fulfilling and meaningful publication, with every person's support playing a vital role.

We extend our warm gratitude to all the helping hands who have consistently supported us throughout. It is with immense pleasure that we present the heartfelt views of our friends, faculty, and staff. Special thanks are due to our honorable principal, Dr. S. B. Somani Sir, and our faculty advisor, Prof. S. V. Bhagat Sir, for their invaluable time and guidance.

Moreover, we acknowledge the dedication and hard work of our teammates, Shreyas Tayade and Varad Deshmukh, whose passion has been a significant driving force toward our success.

We hope that you thoroughly enjoy reading this edition, as we continue to celebrate the spirit of creativity, teamwork, and growth within our college community



**Pravadnya More**

Third year EXTC  
Editor, English Section,  
Tattwadarshi Team (2022-23)

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## CHILD LABOUR

Child labour is a form of exploitation in which children are forced to work, often in hazardous and dangerous conditions, on little or no pay. It is typically employed in the informal sector, such as in the home or on the street, and can involve long hours and hazardous work. Child labour is a violation of human rights and has been linked to a wide range of negative physical, social, and psychological outcomes for those who are subject to it.



The practice of child labour continued even in the post-Independence India, though the government continued to take legislative measures against child labour. The Universal Declaration of Human Rights passed in 1948 incorporated the basic human rights and needs of children for proper progression and growth in their younger years.

Article 24 of the Constitution bans engagement of children below the age of 14 in factories, mines, and other hazardous employment. Article 21A and Article 45 promise to impart free and compulsory education to all children between the ages of 6 and 14.

The Child Labour (Prohibition and Regulation) Act enacted in 1986, prohibited children younger than the age of 14, from being employed as child labour in hazardous occupations. Significantly in 2009, India passed the Right of Children to Free and Compulsory Education Act (RTE). More recently, the Child Labour (Prohibition and Regulation) Amendment Act, 2016, passed by Parliament, prohibits “the engagement of children in all occupations and of adolescents in hazardous occupations and processes”. Here adolescents refers to those under 18 years; children to those under 14. The Act also imposes a stringent penalty on anyone who employs or permits adolescents to work.

The government should make efforts to increase the incomes of parents by launching various development schemes. Efforts should be made towards poverty eradication combined with educational reforms to provide free or affordable access to quality education. Only by taking comprehensive steps, the Government can hope to eliminate all forms of child labour.

**GAURAV NAIK**

Third Year

Mechanical Engineering

## GLOBAL WARMING



Global warming is the long-term warming of the planet's overall temperature. Though this warming trend has been going on for a long time, its pace has significantly increased in the last hundred years due to the burning of fossil fuels. As the human population has increased, so has the volume of fossil fuels burned. Fossil fuels include coal, oil, and natural gas, and burning them causes what is known as the greenhouse effect in Earth's atmosphere.

Earth's atmosphere contains several gases that trap heat from the sun and prevent it from escaping into space. This phenomenon is known as the greenhouse effect, and the gases are referred to as greenhouse gases. The main greenhouse gases that occur in nature are carbon dioxide, methane, and nitrous oxide. Without the greenhouse effect, Earth would be too cold to support life. Over time, the amount of greenhouse gases trapped in Earth's atmosphere has increased significantly, causing worldwide temperatures to rise.

Natural processes on Earth constantly create and destroy greenhouse gases. For example, the decay of plant and animal matter produces carbon dioxide, which plants then absorb during photosynthesis. This natural cycle stabilizes atmospheric levels of carbon dioxide. Shifts in the planet's crust and changes in ocean patterns impact weather, as do fluctuations in the sun's output of radiation.

Volcanic activity also affects the climate because eruptions discharge greenhouse gases and other contaminants into the atmosphere. Climate change scientists at the National Aeronautics and Space Administration (NASA) and other federal and international agencies recognize that these natural factors continue to play a role in climate change, but they generally agree that the impact of these factors alone does not explain the substantial recent rise in Earth's temperature. Natural causes of climate change are referred to as naturogenic, while causes of climate change related to human activity are called anthropogenic.

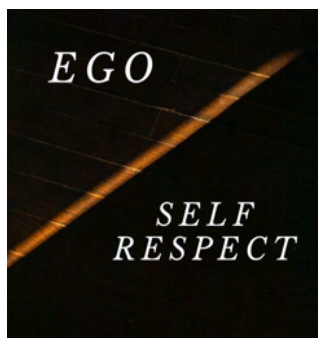
**Prajwal Gawande**

Third Year

Information Technology

## EGO VS SELF-RESPECT

We are complicated individuals with multiple personalities, feelings, and beliefs as humans. Ego and self-respect are important concepts in our psyche. Although they may appear identical at first glance, they are noticeably different and can have a big impact on our mental health and interpersonal connections. We will examine the distinctions between ego and self-respect in this essay, as well as how to develop a positive sense of self-worth.



Ego is frequently related to a sense of self-importance, superiority, and a desire for external affirmation. It arises from our identity and can be inflated by our successes, social standing, possessions, or comparison with others. Ego is delicate and easily injured, which leads to defensiveness, conceit, and a fear of failure or rejection.

It lives on the urge to be correct, to be noticed, and to be in command. Ego can also show in undesirable behaviors such as self-centeredness, narcissism, and a lack of empathy for others.

Self-respect, on the other hand, is founded on a sound internal sense of value. It is independent of outside forces or other people's perspectives. Self-acceptance, self-love, and self-awareness serve as the cornerstones of self-respect.



It entails realizing our intrinsic worth as people, regardless of our accomplishments or imperfections. Humility, empathy, and resilience are fostered by self-respect since it is not easily swayed by events or ideas outside of oneself. It enables us to accept both our talents and shortcomings, grow personally and draw lessons from our errors.

The impact of ego and self-respect on our relationships is a fundamental distinction. Ego frequently causes feelings of competition, comparison, and the drive to prove oneself to others. Conflicts, power struggles, and a lack of genuine connection with people might occur. Ego-driven people may feel intimidated by the success of others or be unable to admit their faults, resulting in strained relationships and emotional distance.

Healthy relationships are fostered by self-respect and are built on reciprocal respect, empathy, and genuineness. When we feel good about ourselves, we can enjoy and applaud other people's accomplishments without feeling threatened. We may be honest with one another if we admit our faults. Being courteous while expressing our needs and thoughts, and communicating effectively are all made possible by having self-respect.

How can we cultivate self-respect and minimize ego? Reflect on your thoughts, feelings, and behaviors to increase your self-awareness. Consider how your interactions with others are impacted when your ego is aroused. To become more conscious of your thoughts and behavior patterns, practice mindfulness. Develop self-acceptance by accepting both your strengths and weaknesses without condemnation. Recognize that everyone has flaws and makes mistakes because it is a normal part of being human. Be kind, compassionate, and forgiving yourself.

Focus on internal validation: Don't merely rely on outside sources; seek internal confirmation as well. Instead of defining your worth by your accomplishments or assets, do so in accordance with your values, ideals, and activities. Develop humility by realizing that you are not perfect and that other people have insightful thoughts and opinions. Be receptive to criticism and open to picking up tips from others.



**Atharva Raut**

Second Year

Electronics and Telecommunication Engineering

## EDUCATION SYSTEM

Education is a valuable tool for gaining learning and wisdom. Though books are essential to education, the notion encompasses more than just books and bookish knowledge. It isn't required for education to be only based on books.

The most important goal of education is to help people with how to read and write. The first step toward literacy is reading and writing. Education provides a person with endless opportunities for growth and advancement. People who have had an education tend to be more calm and self-assured. People who have been educated are disciplined and understand the importance of time. Education allows a person to be more expressive and opinionated. He/She was able to readily communicate his/her viewpoints, which were supported by a clear aim and rationale.

Education makes a person productive, allowing him or her to contribute to society in a positive way. It teaches us how to face many challenges and conquer them.



A well-educated individual understands how to act in a polite and non-offensive manner. It shows us how to live a disciplined life while yet making a respectable living. Our future is built on the basis of education. Education is also the sole weapon that may be used to combat numerous issues such as illiteracy, poverty, unemployment, and so on. A person's education makes them more sensitive to the predicament of their fellow beings. A well-educated individual not only comprehends the issues but also possesses the essential abilities to address them.

An educated individual possesses competent skills and is more capable than someone who is uneducated. However, it is incorrect to think that education alone ensures success. Indeed, success necessitates a solid education, as well as devotion, attention, and hard effort. An educated individual is more sensible and capable of rational thought.

**Tejas Kale**

Second Year

Electronics and Telecommunication Engineering

## WOMEN EMPOWERMENT

With a steady increase in the number of working women, they have gained financial independence, which has given them motivation to lead their own lives and build their own identity. They are successfully taking up diverse professions to prove that they are second to none in any respect.

But while doing so, women also take care to strike a balance between their commitment to their profession as well as their home and family. They are playing multiple roles of a mother, daughter, sister, wife and a working professional with remarkable harmony and ease. With equal opportunities to work, they are functioning with a spirit of teamwork to render all possible cooperation to their male counterparts in meeting the deadlines and targets set in their respective professions.



Women are known for delivering multiple roles effortlessly per day, and thus, they are considered the backbone of every society. Living in male-dominating societies, women play a wide range of roles, such as caring mothers, loving daughters, and capable colleagues. The best part is that they fit the bill perfectly in every role. Nonetheless, they've also stood as a neglected bunch of society in different parts of the world.

In turn, it has resulted in women surviving the brunt of unevenness, financial trustworthiness, oppression, and distinct social evils. Women have been residing under the shackles of enslavement for centuries now impedes them from attaining professional as well as personal highs.



Being an NGO for women empowerment in India, Hind Rise Foundation has designed our dynamic and transformation-oriented programs in such a manner that the grooming of impoverished young girls will uplift the condition of the nation.

Women empowerment, in the truest sense, will be achieved only when there is an attitudinal change in society with regarding to womenfolk, treating them with proper respect, dignity, fairness and equality. The rural areas of the country are, by and large, steeped in a feudal and medieval outlook, refusing to grant women equal say in the matters of their education, marriage, dress code, profession and social interactions.

**Ruchika Bhagat**Third Year  
Information Technology

## COLLEGE LIFE

Our life consists of different stages. A person experiences different types of situations at different stages of life. One of the important stages in our life is college life. This is one of the most colorful and important stages of life. College life is a very important part of everyone's life.

We all are at a certain threshold after passing out from school. That is when we have to take a very important decision. That is regarding one career. School is a small institution. College broadens one horizon. It is a bigger place.

A broader platform to understand and prove ourselves. It is a place where one is assumed to be an adult. Need to be more responsible automatically come in the way. It is a place where we need to be a little more mature than how we were at school.

It is a place where we create a bigger foundation for our life. It is a place where we find and create ourselves. In college life, a student is filled with opportunities and choices. They discuss on various topics of their interest. Therefore, they can modify their habits and manners.

As a result, they build their personality. This stage is also a stage of risks. In this stage, students get involved in various student politics which prepare them as an upcoming leader.

In India, we have seen many national leaders of today have started their career during college days like Sitaram Yechuri, Nirmal Sitaraman, Arun Jaitley, Lalu Yadav etc. College life is full of fun, enjoyment, friends, ups and downs, emotions and learning.

**GAURI MURKAR**

Third Year  
Electrical Engineering

## BLACK MONEY

Black money, often referred to as illegal money or unaccounted money, is money that has been produced illegally, is kept secret from the government to avoid paying taxes, or has been acquired through corruption or other criminal means. Black money is an issue that affects the entire world and has negative effects on the economy, society, and politics. This essay will examine the factors that contribute to the black money problem, its effects, and possible solutions.



- Causes of Black Money:

1. **Corruption:** One of the main causes of black money is corruption, which takes the form of bribery, theft, kickbacks, and other criminal activities. It entails the abuse of authority for one's benefit, leading to unaccounted riches that is been kept in secret bank accounts or invested in gold, real estate, or other assets.
2. **Tax evasion** is a key source of black money since it entails the intentional non-payment or underreporting of taxes gain. This is frequently done by people or companies to lower their tax obligations, which causes the government to lose money and unfairly burdens honest taxpayers.
3. Black money is also produced through a variety of unlawful operations, including smuggling, drug and human trafficking, counterfeiting, and other crimes. To prevent discovery and taxation, the money earned from these activities is frequently held outside of the established banking system.

4. **Cash-based Economy:** Cash-based economies, where transactions are carried out in cash without sufficient paperwork, are where a large amount of black money is produced. Because of this, it is simple for people and companies to underreport income, escape paying taxes, and amass unreported riches.

- **Black Money's Effects:**

The existence of black money has significant negative effects on the economy, society, and government. Among the most significant repercussions are:

1. **Economic Losses:** Tax evasion caused by black money causes the government to lose revenue, which reduces the amount of money available for infrastructure projects, public welfare programs, and other vital services. Additionally, it distorts the competitive environment by giving unlawful action participants an unfair edge over law-abiding companies.
2. Black money, which is frequently amassed by a small group of people via unlawful methods while the majority of the population bears the weight of economic imbalances, exacerbates income and wealth disparity. This keeps social injustice and poverty alive and leads to an unfair society.
3. Black money fosters corruption and erodes the integrity of institutions including the government, law enforcement, and the banking sector. Black money also encourages corruption and undermines the integrity of institutions. It diminishes the rule of law and erodes public trust in government institutions, which results in a breakdown in governance and accountability.
4. Black money has a negative impact on a nation's ability to develop because it diverts funds away from useful investments and into useless ones like gold, real estate, and offshore accounts. As a result, less money is available for crucial development initiatives like infrastructure, healthcare, and education.

- **Solutions to Tackle Black Money:**

Addressing the issue of black money requires a multi-pronged approach involving legal, administrative, and societal measures. Some of the potential solutions include:



1. Strengthening Legal and Regulatory Frameworks: To combat corruption, tax evasion, and other criminal acts that produce black money, governments must create and enforce strict laws and regulations. This entails maintaining financial transaction transparency, enhancing tax compliance, and enforcing severe penalties for offenders.
2. Increasing the use of digital payments while minimizing cash-based transactions: Reduced cash transactions and the promotion of digital payments can help stop the production of black money. This involves promoting digital wallets, internet banking, and electronic payments.

**Amit Risodkar**

Second Year

Electronics and Telecommunication Engineering

## WHAT IS TIME TRAVEL

What is time travel? One standard definition is that of David Lewis: an object time travels if the difference between its departure and arrival times in the surrounding world does not equal the duration of the journey undergone by the object. This definition applies to both natural and Wellsian time travel. For example, Jane might be a time traveller if she travels for one hour but arrives two hours later in the future (or two hours earlier in the past). In both types of time travel, the times experienced by a time traveller are different from the time undergone by their surrounding world. But what do we mean by the time in time travel? And what do we mean by travel in time travel?



As the definition of time travel presently stands, we need to clarify what we mean by the word time (see the next section). While philosophical analysis of time travel has attended mostly to the difficult issue of time, might there also be vagueness in the word travel?

Our use of the word travel implies two places: an origin and a destination. I am going to Morocco, which means I am departing from my origination point here and I plan to arrive eventually in Morocco.

But when we are speaking of time travel, where exactly does a time traveller go? The time of origin is plain enough: the time of the time traveller and the time travellers surrounding world coincide at the beginning of the journey. But where does the time traveller arrive? Are we equivocating in our use of the word travel by simply substituting a when for a where? In truth, how do we conceive of a when as a place, a locale, or a region? Different scientific ontologies result in different ideas of what travel through time might be like. Also, different metaphysical concepts of time result in different ideas of what kinds of time travel are possible. It is to the issue of time in philosophy that we now turn.

**Ishwar Sharma**

Second Year

Information Technology Engineering

## THE NEXT WAVE OF SOCIAL MEDIA

- What to Expect in the Future

Social media has radically changed how people connect with each other, communicate, and exchange information. In recent years, social media platforms like Facebook, Instagram, Twitter, and TikTok have dominated the market.



But social media is continuously changing, and the next big thing in social media is just around the corner because of how quickly technology and human behaviour are developing. We'll look at a few prospective trends and developments for social media in the future in this article. Integration of Virtual Reality (VR) and Augmented Reality (AR) Technologies like augmented reality (AR) and virtual reality (VR), which are gaining acceptance across a variety of industries, are expected to have a big impact on social media in the future. While VR delivers a completely realistic virtual experience, AR enables users to overlay digital content over the actual environment. To give users more interactive and immersive experiences, social media networks may incorporate AR and VR technologies.

- Increased Focus on Security and Privacy

The next generation of social media is likely to place a larger emphasis on preserving user information due to growing worries about privacy and data security. Social media sites might introduce more stringent privacy controls, give users greater control over their data, and be more open about how user information is gathered, utilised, and shared. As consumers become more worried about the privacy of their online presence, new social media platforms that prioritise privacy and security as essential features may also start to appear. Content That Is Genuine and Meaningful On social media, there has been a rising need for sincere and significant material in recent years. Users are looking for sincere interactions and information that speaks to them more deeply. With users emphasising quality over quantity, the next wave of social media may see a shift towards more real and relevant material. This might result in an increase in user-generated content, narratives that depict real-life events, and material that encourages social good.

Enhanced Personalization and User Experience Social media networks may incorporate artificial intelligence (AI) and machine learning as technology develops to offer improved user experiences and personalization. This might include algorithms that better comprehend user preferences and behaviours, intelligent filters, and recommendations for personalised content. Social media sites might concentrate on enhancing the user experience to make it more approachable, logical, and aesthetically pleasing. Social media marketing and influencer commerce In recent years, social commerce the incorporation of e-commerce into social media platforms has gained popularity. More social commerce integration, where users may directly buy goods or services from within the network, probably in social media's future. Influencer marketing, in which social media users with huge followings advertise goods or services, is also anticipated to expand since influencers have a big impact on how people behave on social media. Ethical and Responsible Social Media Usage Social media usage that is ethical and responsible may receive more attention as social media's influence on society grows. This could involve supporting digital well-being and mental health as well as fighting harmful content, cyberbullying, and disinformation.





## THE GAP BETWEEN POOR AND RICH IS INCREASING

the age-old problem of the rich getting richer and the poor getting poorer. It is like that saying goes: the only time a poor person sees a Rolls Royce is when they are polishing it. It is a reality and it is developed as it is. it is like a game of Monopoly. The rich start with a whole bunch of money and properties, while the poor are stuck with a measly amount of cash and maybe one or two properties that nobody wants. We people daily wake up with a dream. Well do this, well do that and but ended up with our daily problems.



But it is not just a game - this is real life we are talking about here. And the problem is that the gap between the rich and poor just keeps getting wider and wider like India's population is increasing day-to-day. It has no pause button and nobody can stop it. So what can we do about it? Well, some people say we need to tax the rich more and give that money to the poor.

Others say we need to give the poor more opportunities to make money and climb the ladder of success. But I say, let's just give everyone a million dollars.

I know that is not a realistic solution. But we can all do our part to make the world a better place, whether that is donating to charity, volunteering in our community, or just being kind and compassionate to those around us. And who knows - maybe one day we will live in a world where the gap between the rich and poor is just a distant memory.



**Prasad Deshmukh**

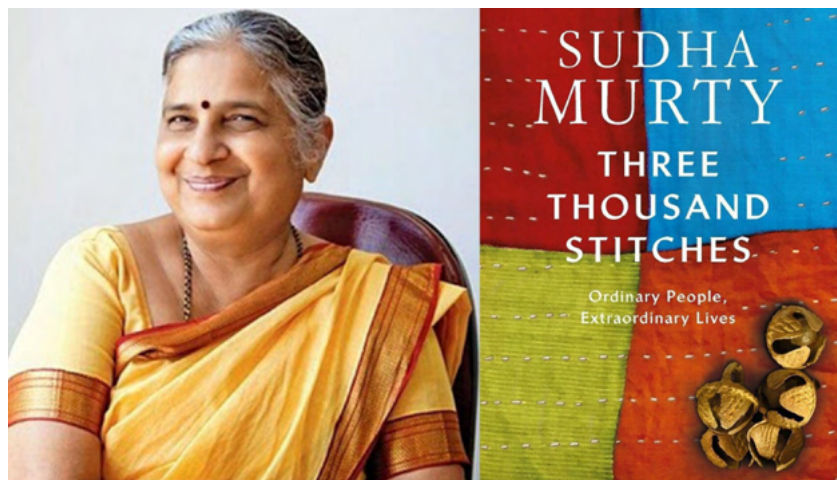
Second Year

Electronics and Telecommunication Engineering

## ORDINARY PEOPLE, EXTRAORDINARY LIVES

The first book I read - Three Thousand Stitches: Ordinary People, Extraordinary Lives, by 'Sudha Murthy' makes you laugh, cry and think- a lot! You should not judge a book by its cover they say, but the cover is so amazing that I had to pick it up and give it a read, even though I haven't read any one of them before. What I had assumed about the book was that they may be stories of other people with some kind of moral lesson or a self-help-kinda feel. But the book was not someone else experience, but Sudha Murthy's own voice, the book is about her own life.

As I said, I have always had this respect for this lady and now I got a glimpse of her life through these stories. I cannot express how much I could relate to the narrations of her childhood curious self. This article is not going to be a praising piece for her, but I sure would like to talk about a few things I could relate to like a person raised in this versatile country. Reading this book felt like your grandma's story-telling time. I even imagined hearing the whole narration in 'Sudha Murthy's' voice.



Every story had a different feel. A few gave the teen-like exciting, what-will-she-do-now feeling, while others were like that's-how-you-show-the-world attitude. The stories were not just a depiction of some incident in her life, but it voices the train of thoughts that arises in a person's mind during such incidences. I could relate to her passion for a field of studies that women were not allowed to pursue, her empathy for people and her hunger for knowing things. The first story, from which the book got its title, is the most touching story for me. It is about her earliest days of building the Infosys Foundation.

The book talks about a lot of social issues and problems like devadasi, addictions and slave trading. But they do not talk about how to sympathize with a victim of such problems, but how to empathize with the situation and the people involved. It also strengthened my belief in the quote Where there is a will, there is a way. If you feel that you need to do something to find and create your own identity, you will find the guiding light of your life. There are a few very innocent anecdotes, talking about her grandparents, about her love for food and Bollywood and one story about her dad's act of kindness, which make's you feel warm in the heart and give you deep satisfaction. You may not share the same belief or faith with someone you deeply love or admire, but the fact is that both of you are humans and both have your right to maintain opinions. Something similar occur's with the author when she visited Kashi, a place her grandmother wished to visit at least once in her life. Unfortunately, she couldn't, and how the author lives through her late granny's memories in the polluted waters of the Ganga. And my favourite story is about her interaction with her granddaughters. Sudha Murthy tries to play the classic grandma by telling them the story of Krishna and Pandavas but adds the condition that they need to retell the stories to her the next day. But the kids are Gen Alpha and they modify the story to suit the current situation. Imagine the incidence of Krishna stealing the clothes of gopiyas while they are bathing in the river was to happen in the 21st century. The girls narrate a story where Krishna is a young boy living in high-class society and the gopiyas are the ladies of the housing society taking a swim in the pool. It makes you think about the stories that you have heard since your childhood and of the impact, they create on the mind of the kids, and what value they imbibe.

I don't know what she may have thought while writing this book. But what I read is a true depiction of the current scenario of the country, even though she may have tried to be very patriotic throughout the book. When she describes her disappointment at the condition of an important pilgrim place, with the greedy monks and dirty streets, you know that she calls a spade a spade. I found Sudha Murthy to be an iron-spined sassy female lead of the book with the best come-backs for the proud money-minded brutes. Thus the book is a light-hearted and interesting read.





## LI-FI THE GAME CHANGER

Li-Fi (Light Fidelity) is a wireless communication technology that uses visible light to transmit data. Unlike Wi-Fi, which uses radio waves to transmit data.



Li-Fi uses LED lights for transmitting data. The technology is still in the experimental stage, but it has the potential to revolutionize the way we connect to the internet and communicate wirelessly.

Here are some key features and advantages of Li-Fi technology:

1. **High speed:** Li-Fi has the potential to achieve data transfer speeds up to 100 times faster than Wi-Fi. This is because visible light can be modulated at a higher frequency than radio waves, allowing for faster data transfer rates.
2. **Security:** Li-Fi technology is more secure than Wi-Fi, as visible light cannot penetrate walls or other opaque surfaces. This means that the data transmission is confined to the room where the light is present, making it more difficult for hackers to intercept the data.
3. **Efficiency:** Li-Fi technology is more energy-efficient than Wi-Fi, as LED lights consume less energy than Wi-Fi routers. This makes Li-Fi a more environmentally-friendly option for wireless communication.
4. **No interference:** Li-Fi does not interfere with other wireless signals, such as Bluetooth or Wi-Fi, as it uses a different part of the electromagnetic spectrum. This makes it ideal for use in areas where radio signals are not permitted or could cause interference.
5. **Availability:** Li-Fi can be used in areas where radio waves are not permitted or where Wi-Fi signals are weak or unreliable, such as hospital, airplane, and submarines.

Despite its many advantages, Li-Fi technology is still in the experimental stage, and there are some limitations to its use. For example, Li-Fi cannot be used in direct sunlight, and it requires a clear line of sight between the transmitter and receiver. The cost of implementing Li-Fi in homes and businesses may be higher than Wi-Fi.

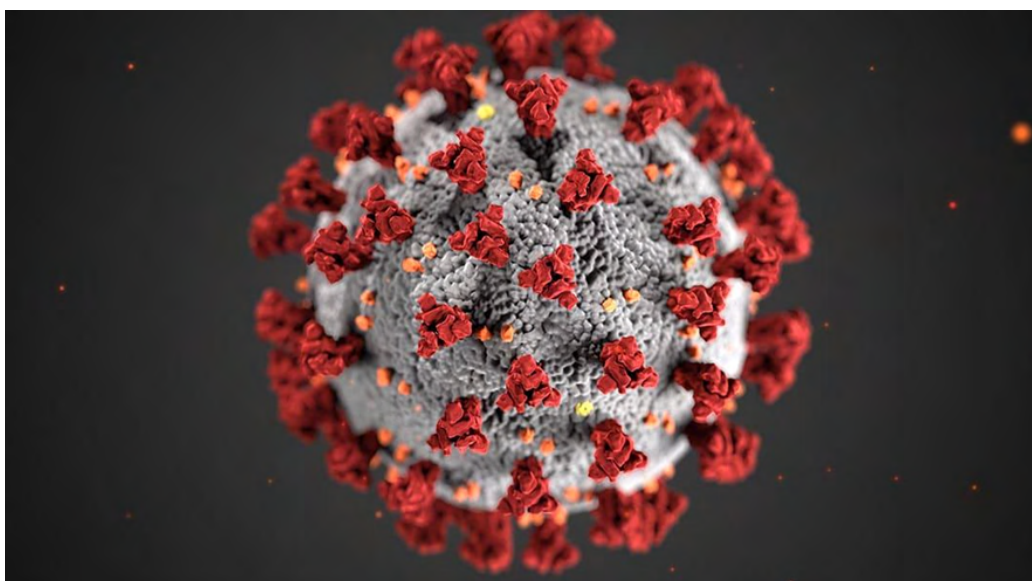


**Abhishek Wankhede**

Final Year  
Mechanical Engineering

## LESSONS FROM THE COVID-19 PANDEMIC

Our lives, economy, and cultures have all experienced significant disruptions as a result of the extraordinary worldwide disaster known as COVID-19. We consider the lessons we have learned and how we may use these experiences to create a brighter future as we continue to navigate through these trying times. We can learn the following important lessons from the COVID-19 pandemic.



The value of resilience has been underlined by the pandemic, which has shown how resilient people, communities, and countries can be when faced with hardship. It has demonstrated the strength of human adaptability and our capacity to work together to overcome obstacles. In the middle of enormous challenges, we have seen frontline employees, healthcare professionals, and vital workers display incredible bravery and determination. This has served as a reminder of the value of developing resilience in both our personal and communal lives to deal with upcoming disasters. Human connection is valuable: The pandemic has highlighted the value of interpersonal relationships and social contact. We have come to understand the value of interpersonal relationships, the necessity of social support, and the need for community as we have been compelled to physically distance ourselves from loved ones and adjust to remote work and virtual contact. It has served as a reminder of the value of interpersonal connections, empathy, and helpfulness to others.

The value of research and healthcare: The pandemic has brought to light the critical role that healthcare systems play in tackling global health problems as well as the value of science and research. It has brought to light the painstaking efforts of scientists, researchers, and healthcare professionals who have developed vaccines, provided care, and discovered strategies to combat the virus. This has highlighted the requirement to give healthcare systems and scientific research funding priority to improve society.

The necessity of preparedness and prevention measures has been made clear by the pandemic, which has also highlighted the weaknesses in our public health and hospital systems. The importance of early detection, a strong public health infrastructure, and aggressive steps to stop the spread of infectious diseases have been brought to light. This has highlighted the necessity of prioritizing precautions, readiness, and investments in public health.

The importance of equity and social justice: Vulnerable populations, such as communities of colour, low-income people, and marginalised groups, have been disproportionately affected by the pandemic. It has brought to light current health inequities, societal injustices, and social and economic inequality. The need to address these disparities, give equity a top priority, and advance social justice in our policies, systems, and activities moving forward had been underlined as a result of this.

The significance of invention and adaptability: The epidemic has compelled us to innovate and adapt in previously unheard-of ways. Due to the quick technological improvements, remote work opportunities, and online education, we have been able to carry on despite the difficulties. This has emphasised the value of creativity, adaptability, and flexibility in surviving crises and forging a resilient future. As a whole, the COVID-19 epidemic has been a profound and difficult event that has highlighted significant lessons for us to consider. It has served as a reminder of the value of adaptability, innovation, equity, and human connection as well as of resilience, healthcare, and science. We can create a better future that is more resilient, inclusive, and ready to address global issues by applying these lessons to our actions and decisions going forward.





## IMAGINATION VS INTERNET

The internet can provide us with access to vast amounts of information and knowledge, which can be incredibly beneficial. However, some argue that excessive use of the internet and social media can hinder our creativity and imagination.



Here are some ways in which the internet may be perceived to kill the imagination:

1. Information overload: With so much information available at our fingertips, it can be overwhelming and difficult to process. This can lead to a lack of focus and distract us from more imaginative activities.
2. Constant distractions: The internet can be a constant source of distractions, such as notifications and pop-up ads, which can disrupt our flow of thought and hinder our ability to concentrate on creative tasks.
3. Limited perspective: While the internet can provide us with a vast array of information, it can also limit our perspective by presenting us with information that aligns with our existing beliefs and interests. This can lead to a lack of exposure to new ideas and perspectives, which can be detrimental to our imagination.
4. Passive consumption: Social media and other online platforms often encourage passive consumption of content, such as scrolling through feeds or watching videos. This can limit our ability to engage in more active, imaginative activities, such as reading, writing, or creating.
5. Dependence on technology: With so much of our lives now connected to the internet and technology, it can be difficult to disconnect and engage in more imaginative activities that do not rely on screens or digital devices.

In conclusion, while the internet can provide us with many benefits, it is important to be mindful of its potential impact on our imagination and creativity. It is important to set aside time for activities that encourage imagination and creativity, such as reading, writing, and other forms of artistic expression.

**Tanay Tapre**

Second Year

Electronics and Telecommunication Engineering

## HEALTH IS WEALTH.

Human health is such a sensitive and important aspect of one's life. A healthy life not only avoids diseases but also includes one's physical, mental, and emotional well-being. Nowadays, the environment of a person describes their health.



A person must care about his or her health irrespective of their financial status, gender, caste, or other aspects. Human health should be one of the top priorities of any person. The reality is that money is useless if a person is unable to get engaged in physical or mental activities

A dirty and damp atmosphere is responsible for many diseases, including depression. Regardless of any difficulties and obstacles we face, we should instead be cheerful. To enjoy and appreciate life's happenings, we need energy and zest for life. And the root cause of these happenings is a healthy life. Taking care of yourself from an early age will decrease the chances of living an unhealthy life.

Being born with a silver spoon in your mouth doesn't always make you a healthy person. If your body isn't healthy, you have to foot the bill. Instead, one must take care of his or her body, physically as well as mentally. Because it is easy to reduce the physical druck, but it is more difficult to maintain mental health, and it all begins from there.

We can say that if one is aware of his or her thoughts and has command over them in any situation, then no mental health issues will be triggered. And fortunately, I will avoid certain other physical problems like high blood pressure, heart disease, headaches, diabetes, asthma, depression, arthritis, etc.

**Pravadnya More**

Third Year

Computer Science &amp; Engineering

## GROWING AGE AND LEARNING LESSONS



Being a grownup is pretty awesome, but it also entails a lot of responsibilities and hard choices and sometimes it feels like an uphill battle. We grow wiser and more resilient as a result of our failures and victories.

Slowly but surely, that childlike awe we had as kids had been placed in a box and shelved in the attic of our memory. We experience an increasing number of major life events as we age older, such as career role transitions, the loss of loved ones, health challenges, and even a diminished sense of independence. How do we deal with and grow from these changes is crucial to healthy ageing.

1. Master the art of letting go:- Letting go can be challenging, but it can also be an effective tool for personal growth and well-being. As you grow older, you realize that trying to hold onto certain nasty things is a waste of energy and time. Moving on does not imply that you no longer care about something or someone. It is simply accepting that the only thing you have control over is yourself right now, right here. It is a necessary method of adapting to life & its ever-changing realities - leaving the past behind to make room for the future in a healthy way.
2. Make the most of today:- Always remember that you have opportunities every day to move closer to your objectives and lead a purposeful life. You can make the most of every day and build a life you love by setting priorities, being present, practicing gratitude, interacting with others, and taking care of yourself.



3. People aren't always what they seem:- People quite often present various aspects of themselves in various situations, or they may deliberately try to project a particular image onto others. People's innermost feelings, thoughts, and experiences are often concealed from others and not always obvious. People can change over time, so it is possible that how they present themselves doesn't always reflect who they are. Additionally, they might conceal their hidden intentions or secrets from others, which can affect how others see them. It is important to keep in mind that every person is a complex individual with their own distinct experiences, thoughts, and feelings. Although we can never fully understand another person, we can build more meaningful and profound connections with them by being open to learning more about them and showing empathy and understanding.
4. There is always another struggle coming up:- Life is indeed full of struggles and challenges that we have to face. As we overcome one challenge, another one may come up, and it can sometimes feel like an endless cycle. However, it is important to keep in mind that hardships and challenges are a part of life and can provide opportunities for learning and growth. Rather than seeing struggles as negative, it can be helpful to reframe our perspective and see them as opportunities to develop resilience and build character. Each time we overcome a challenge, we gain experience and knowledge that can help us better navigate future struggles. It is also important to acknowledge that we don't have to face our difficulties alone. Seeking support from friends, family, or a professional can provide us with the necessary tools and resources to overcome our challenges. So while it is true that there may always be another struggle coming up, it is important to approach them with a positive mindset and a willingness to learn and grow.
5. Know your worth:- Recognizing your worth can have a positive influence on your life in numerous ways. It can boost your self-esteem, help you set healthy boundaries, and empower you to make decisions that align with your values and goals. When you understand your worth, you are more likely to demand respect from others, avoid settling for less than you deserve, and pursue opportunities that align with your potential. In the end, self-awareness, self-reflection, and a desire to stand up for yourself are necessary for knowing your value.

Ultimately, the key to learning as we age is to remain curious and engaged with the world around us. By staying open to new experiences and continuing to seek out knowledge and understanding, we can continue to grow and learn throughout our lives.

**Sejal Ganesh**

Fourth Year

Electronics and Telecommunication Engineering

## FRIENDSHIP



Oh what a joy it is  
to have a friend like you;  
For giving me a strength  
like you do.  
For lifting me up  
when I am feeling down;  
And putting a smile on my face  
when I am wearing a frown.  
Thanks for being there  
And helping me grow  
Your friendship means a lot  
this I'd like you to be known

**Suyash Pimple**

First Year

Mechanical Engineering

## EFFECTS OF THE INTERNET

The way we interact, share information, and conduct business has been completely transformed by the internet, a global network of connected computers. Since its conception, the internet has had a significant influence on many facets of our lives, changing the way we communicate, live, and work.



We shall examine both the beneficial and detrimental effects of the Internet on society.

1. **Accessibility to knowledge and information:-** The availability of information and knowledge is one of the internet's most important effects. The internet has made free information gain by making it possible for anybody on the globe to quickly and easily access massive volumes of knowledge. Due to the ease with which students and learners can now access instructional materials, online courses, and research papers, education has undergone a radical transformation. Additionally, it has made material easily accessible for research, facilitating international collaboration and knowledge sharing among scientists, academics, and researchers.
2. **Connectivity and communication:-** The internet has transformed communication, connecting people around the globe. When it comes to communication, email, social networking, instant messaging, and video conferencing have all become essential technologies that let people communicate with others in real-time all around the world. The way we share and exchange information, ideas, and opinions has also changed as a result of social media platforms, which have given rise to numerous international movements and dialogues.



3. **Impact on the Economy and Business:-** Traditional company models have been upended by the internet, which has also produced new chances for economic expansion. E-commerce has proliferated, enabling companies to connect with clients globally and complete transactions online. Online marketplaces like Amazon and Alibaba have revolutionized the retail sector by altering consumer shopping habits and spawning fresh company ideas. The internet-driven gig economy has made remote work, freelancing, and entrepreneurship possible. Online fraud, cybersecurity risks, and the concentration of power in the hands of a small number of powerful online platforms are just a few of the problems the Internet has brought about.
4. **Cultural and Social Impact:-** Significant social and cultural changes can be attributed to the Internet. Social media has changed how individuals engage and communicate, fostering the development of online communities and influencing cultural norms and practices. Social media platforms have made it possible for grassroots groups to gain traction and mobilize support, and this has led to the emergence of online activism as a potent force for social change. However, there are drawbacks to the internet, including the proliferation of false information, cyberbullying, and the loss of privacy.
5. **Healthcare and Well-being:-** The internet has also had an impact on healthcare and well-being. Telemedicine has emerged as a viable option for remote healthcare consultations, allowing patients to access medical advice and services online. Wearable devices, health apps, and online health portals have empowered individuals to take control of their health and well-being, enabling them to monitor their health, access information, and connect with healthcare professionals.

The internet has transformed the world in numerous ways, bringing about significant changes to how we communicate, share information, conduct business, and interact with one another. However, the internet also presents challenges, such as cybersecurity threats, privacy concerns, and the spread of misinformation.



## THE BASICS OF FINANCE

A vital component of contemporary life is financial literacy. It enables people to manage their finances, make wise financial decisions, put money aside for the future, and accomplish their financial objectives. The foundations of money are crucial for financial success, regardless of where you are in your career or how far along you are in it. We will examine the foundational ideas of personal finance in this post, which everyone should be aware of. The foundation of personal finance is budgeting. It entails developing a plan that details your income, spending, and savings objectives. You can keep track of your expenditures, find places to make savings and handle your funds shrewdly by using a budget. To begin, make a list of all of your revenue sources and classify your outgoing costs, such as those for housing, transportation, food, paying off debt, and entertainment. When calculating your expenses, be precise and realistic. Once you've established a budget, stick to it and periodically evaluate it to make any necessary adjustments.



Debit management: If debt is not effectively handled, it can be a substantial barrier to financial success. Understanding the various debts, such as credit card debt, school loans, and mortgages, is crucial to create an effective repayment strategy. To hasten the payback process, start by giving high-interest bills top priority and paying more than the bare minimum. If you're having trouble making payments, think about consolidating your debts or negotiating with your creditors for lower interest rates or payment arrangements. Avoid taking on further debt, and be wary of borrowing money without a solid repayment strategy.

**Credit management:** In your financial life, credit is essential. It has an impact on your capacity to borrow money, your ability to get loans at reasonable interest rates, and even your access to housing and work possibilities. For financial success, it is crucial to establish and keep good credit. Open a credit card or take out a small loan to create credit, and then make on-time payments to establish a good payment history. Avoid using all of the credit on your cards, and keep your credit usage (the percentage of your available credit that is being used) low. Check your credit reports frequently for mistakes and fraudulent activities, and take action to fix them if necessary.

**Building Wealth over Time by Saving and Investing** Investment and saving are essential for achieving financial success. Saving entails putting money aside for long-term objectives like retirement, short-term objectives like college tuition, and emergencies. To safeguard oneself against unforeseen financial losses, you must maintain an emergency fund that can pay for at least three to six months' worth of living expenses. Contrarily, investing is using your money to buy assets like stocks, bonds, and real estate with the hope of earning returns over time. By investing, you can watch your money increase in value over time by allowing it to compound. Before making an investment selection, it is essential to comprehend the various investment kinds, their dangers, and their rewards.

**Financial Objectives: Future Planning:** For long-term financial success, setting financial goals is essential. Goals provide you with a sense of purpose and direction and encourage you to save and make investments. Set short-term objectives first, like putting together an emergency fund or saving for a trip, and then medium-term goals, like purchasing a home or paying for your child's education. Last but not least, create long-term objectives like retirement planning. When creating a strategy to reach your financial goals, be sure to be clear, reasonable, and time-bound. Review your progress frequently, and adjust as necessary. **Protecting your financial wellbeing with insurance** A crucial element of personal finance is insurance, which helps to safeguard your financial stability. It gives financial support.

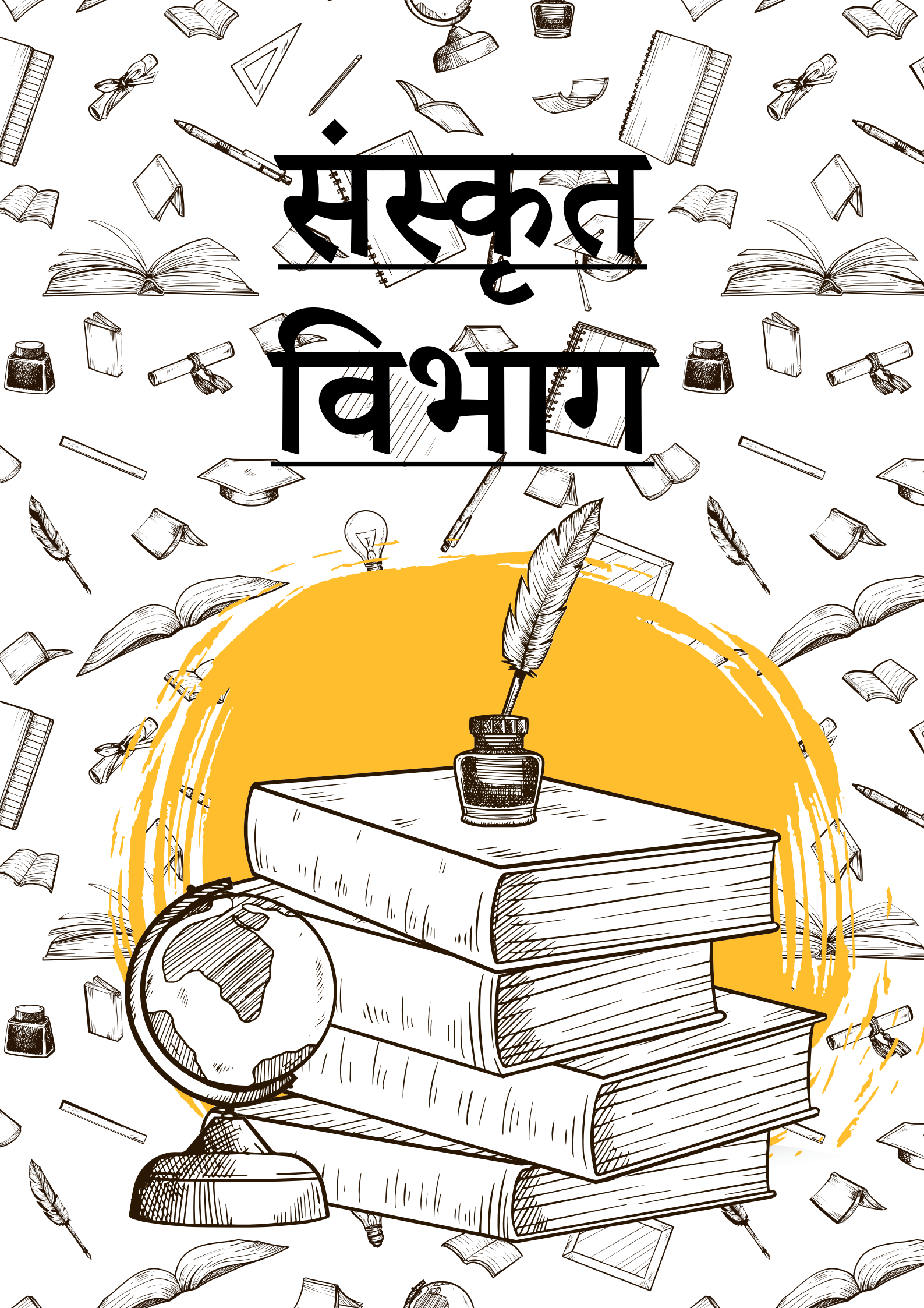


**Harshal Kolhe**

Third Year

Computer Science & Engineering

# संस्कृत विभाग





## संपादकीय लेख

प्रिय पाठकों,

तत्त्वदर्शी का सदस्य बनाना मेरे लिये एक सूनहरा अवसर था, क्योंकि मैं इस पत्रिका के लिये काम करने के लिए सुरुवात से ही उत्सुक था। तत्त्वदर्शी एक ऐसा माध्यम है जो विद्यार्थियों के भितर छुपे हुये सुप्त गुणों को निखारने का काम करता है। तत्त्वदर्शी एक परिवार की तरह है, जिसमें सारे सदस्य एक परिवार तरह मिल-जुलकर अपने-अपने काम करते हैं।

हिंदी अनुभाग के लिए काम करना मेरे लिये एक गौरवावित अवसर था, क्योंकि बचपन से ही मैं हिंदी कविता के प्रति रुची रखता था, मुझे कविताये लिखना बहुत पसंद था, तो तत्त्वदर्शी में आकर मुझे मेरे उस छंद को निखारने का अवसर इस तत्त्वदर्शी के माध्यम से मिला है। इस अनुभाग के लिये काम करना मेरे लिये एक रोमांचक साथ ही साथ काठिनाईयोसे भरपूर अनुभव था। फिर भी मेरे साथियों ने इसे पुरा करके अपनी-अपनी जिम्मेदारी को साराहा, जो की मुझे बहुत रास आया। तत्त्वदर्शी युवकों को विद्यार्थी जीवन में उनके व्यक्तिमत्त्व विकास को विकसित करने एवं उनमें आत्मविश्वास, कलात्मकता और तकनीकी ज्ञान के सहित अपनी रुचि के अनुसार छुपे हुए कलात्मक गुणों को सवारने का काम करती हैं।

इस पत्रिका के लिए काम करने के लिए आपमें असीम निरंतरता और सतत काम करने की चाह होनी चाहिये, हम सब में यह चाह बरकरार रखने का काम किया हमारे मुख्य संपादक ने किया है। उन्होंने हमें हर पल आती चुनौतियों से निपटने के लिये मार्गदर्शन किया और हमें उचित हल प्रदान किया। उनके अधिनस्थ काम करना हम सभी संपादकों के लिए सचमुच एक गौरवपूर्ण अनुभव था।

इस पत्रिका के लिए कार्य करना कारगर साबित हुआ और नए अनुभवों की अनुभूति प्राप्त हुई। मैं इस बात के लिए हमारे महाविद्यालय के संस्थापक, शिक्षक गण एवं मेरे सभी मित्रों को मन से धन्यवाद देता हूँ। और आशा करता हूँ कि तत्त्वदर्शी की यह आवृत्ति भी बाकी सारी आवृत्तियों की तरह आपको जीवन में प्रेरणा देने का कार्य करेगी।



**चितवन नाईक**

तृतीय वर्ष  
संगणक अभियांत्रिकी

## अनुक्रमाणिका

अनु क्र.	शिर्षक	लेखकाचे नाव
१.	योगस्य महत्त्वम्	सायली बकाल
२.	सुभाषितः	समृद्धी काटोले
३.	सदाचारः	वैष्णवी आवटे
४.	भारतीवसंतगीतिः	ईशा निकम
५.	संस्कृतभाषा	वेदांती पोलकट
६.	विद्यार्थीजीवनम्	अंबिका पाटिल
७.	स्वामी विवेकानंदः	सानिका डोसे
८.	मित्रता	साक्षी सुरडकर
९.	स्वास्थ्यं धनं अस्ति	गौरव कपले
१०.	जनाः किमर्थं विषादिताः भवन्ति ?	ईशान गावंडे

## योगस्य महत्त्वम्



योग-आसनानि योग-संस्कृतौ सर्वदा महत्त्वपूर्णा चर्चा एव अभवन् । विदेशेषु स्थितेषु केषुचित् योगविद्यालयेषु योगमुद्राणां वर्गीकरणं स्थायित्वं, उपविष्टः, पृष्ठे शयनं, उदरं शयनं च भवति परन्तु योगस्य वास्तविकं पारम्परिकं च वर्गीकरणं कर्मयोगः, ज्ञानयोगः, भक्तियोगः, क्रियायोगः च इत्यादयः चत्वारः मुख्यमार्गाः सन्ति ।

अत्र योगस्य चतुर्णां मुख्यमार्गाणां महत्त्वं ज्ञातुं संक्षेपेण अवलोकनं भवति ।

कर्मयोग – पाश्चात्यसंस्कृतौ ‘कर्मानुशासनम्’ इति अपि प्रसिद्धम् अस्ति । एतत् रूपं योगस्य चतुर्णां अत्यावश्यकमार्गेषु अन्यतमम् अस्ति । अस्माकं नित्यजीवने अपि फलस्य अपेक्षां विना निष्कपटतया कर्तव्यस्य संचालनं कर्तुं शक्यते । एषः आध्यात्मिकविकासस्य मार्गः अस्ति । मूलतः कर्म इति वयं यत् कर्म कुर्मः तदनन्तरं प्रतिक्रिया च । एतानि कारणानि सन्ति यत् वयं उच्चतनावः, मानसिकरोगः, अवसादः च इत्यादीनां समस्यानां सामनां कुर्मः ।

ज्ञानयोग – ‘प्रज्ञायोग’ इति अपि ज्ञायते । सर्वेषु अतीव कठिनः जटिलः च मार्गः अस्ति । एतेन गहनविवेकमनसि ध्यानं कृत्वा आत्मप्रश्नसत्तं कृत्वा विविधमानसिकविधिनाम् अभ्यासं कृत्वा अन्तः आत्मनः सह विलयः शिक्षयते एतत् व्यक्तिं स्थायी चेतनस्य अस्थायी भौतिकवादी च जगतः भेदं कर्तुं वदति । अयं मार्गः ६ मौलिकगुणेषु – शान्तिः, नियन्त्रणं, त्यागः, सहिष्णुता, विश्वासः, एकाग्रता च – केन्द्रीकृत्य मनः भावनां च स्थिरं कर्तुं शिक्षयति ।

भक्तियोग – अस्मिन् मार्गे व्यक्तिः ईश्वरं प्रेमस्य परमं अभिव्यक्तिं मूर्तरूपं च पश्यति । अस्य मुख्यं वैशिष्ट्यम् अस्ति – भगवतः नाम जपः, तस्य स्तुतिं वा भजनं वा गायनं, पूजा-संस्कार-कार्यं च । इदं सुलभतमं लोकप्रियतमं च अस्ति । प्रतिकूलपरिस्थितौ अपि साहसं ददाति । मूलतः करुणाभावस्य विकासः शुद्धदिव्यप्रेमेण आन्तरिकात्मशुद्धिकरणं च केन्द्रीक्रियते ।

क्रियायोग – एषः शारीरिकः अभ्यासः अस्ति यत् ऊर्जायाः श्वसननियन्त्रणस्य वा प्राणायामस्य च ध्यानप्रविधिना अनेकाः शरीरस्य मुद्राः क्रियन्ते अस्मिन् शरीरमनसात्मनः विकासः भवति । क्रियायोगस्य अभ्यासेन अल्पकाले एव समग्रं मानवतन्त्रं ऊर्जितं भवति । रक्तं अधिकमात्रायां प्राणवायुः अवशोषयति तथा च मनोदैहिकरोगाणां संख्या परिहृता भवति । शिरसि अधिकसञ्चारस्य माध्यमेन मस्तिष्ककोशिकानां ऊर्जा भवति, मस्तिष्कस्य कार्यक्षमता वर्धते, स्मृतिः तीक्ष्णा भवति ।



**सायली बकाल**

द्वितीय वर्ष  
यांत्रिकी अभियांत्रिकी

## सुभाषितः

अयं निजः परो वेति गणना लघुचेतसाम् ।  
उदारचरितानां तु वसुधैवकुटुम्बकम् ॥

सत्यं ब्रूयात् प्रियं ब्रूयात् ब्रूयान्नब्रूयात् सत्यंप्रियम् ।  
प्रियं च नानृतम् ब्रूयादेषः धर्मः सनातनः ॥

सत्यस्य वचनं श्रेयः सत्यादपि हितं वदेत् ।  
यद्भूतहितमत्यन्तं एतत् सत्यं मतं मम् ॥

अश्वस्य भूषणं वेगो मत्तं स्याद् गजभूषणम् ।  
चातुर्यं भूषणं नार्या उद्योगो नरभूषणम् ॥

क्षणशः कणशश्चैव विद्यां अर्थं च साधयेत् ।  
क्षणे नष्टे कुतो विद्या कणे नष्टे कुतो धनम् ॥



**समृद्धी काटोले**

द्वितीय वर्ष  
संगणक विज्ञान अभियांत्रिकी

## सदाचारः

आलस्यं हि मनुष्याणां शरीरस्थो महान् रिपुः । नास्त्युध्मसमो  
बन्धुः कृत्वा यं नावसीदति ॥1॥

श्वः कार्यमच्य कुर्वीत पूर्वाह्ने चापराहिकम् । नहि प्रतीक्षते मृत्युः  
कृतमस्य न वा कृतम् ॥2॥

सत्यं ब्रूयात् प्रियं ब्रूयात् न ब्रूयात् सत्यमप्रियम् । प्रियं च नानृतं  
ब्रूयात् एष धर्मः सनातनः ॥3॥

सर्वदा व्यवहारे स्यात् औदार्यं सत्यता तथा । ऋजुता मृदुता  
चापि कौटिल्यं न कदाचन ॥4॥

श्रेष्ठ जनं गुरुं चापि मातरं पितरं तथा । मनसा कर्मणा वाचा  
सेवेत सततं सदा ॥5॥

मित्रेण कलहं कृत्वा न कदापि सुखी जनः । इति ज्ञात्वा  
प्रयासेन तदेव परिवर्जयेत् ॥6॥



**वैष्णवी आवटे**

द्वितीय वर्ष  
परमाणु एवं दूरसंचार अभियांत्रिकी

## भारतीवसन्तगीतिः



निनादय नवीनामये वाणि ! वीणाम्मृदुम् गाय गीतिम् ललित-नीति-लीनाम् । मधुर-मज्जरी-पिज्जरी-भूत-मालाः वसन्ते  
लसन्तीह सरसा रसालाः कलापाः ललित-कोकिला-काकलीनाम् ॥1॥

वहति मन्दमन्दं सनीरे समीरे कलिन्दात्मजायास्सवानरीरतीरे नतां पल्लिमालोक्य मधुमाधवीनाम् ॥2॥

ललित-पल्लवे पादपे पुष्पपुञ्जमलयमारुतोच्चुम्बिते मज्जुकुञ्जे, स्वनन्तीन्ततिम्प्रेक्ष्य मलिनामलीनाम् ॥3॥

लतानां नितान्तं सुमं शान्तिशीलमचलेदुच्छलेत्कान्तसलिलं सलीलम्, तवाकर्ण्य वीणामदीनां नदीनाम् ॥4॥



**ईशा निकम**

द्वितीय वर्ष  
संगणक विज्ञान अभियांत्रिकी



## संस्कृतभाषा



अद्य भारतं महतीनां समस्यानां सम्मुखीभवति, मम मते एताः विज्ञानेन एव समाधानं कर्तुं शक्यन्ते । अस्माभिः अस्माकं देशस्य प्रत्येकं कोणे वैज्ञानिकदृष्टिकोणं प्रसारितव्यं, यदि वयं प्रगतिम् कर्तुम् इच्छामः । विज्ञानेन च न केवलं भौतिकशास्त्रं, रसायनशास्त्रं, जीवविज्ञानं च अपितु सम्पूर्णं वैज्ञानिकदृष्टिकोणं अभिप्रेतम् । अस्माभिः अस्माकं जनानां मध्ये तर्कसंगतं प्रश्नास्पदं च मनोवृत्तिः विकसितव्या, अन्धविश्वासाः शून्यसंस्काराः च निराकरणीयाः ।

भारतसंस्कृतेः आधारः संस्कृतभाषायाः आधारेण अस्ति । मन्दिरेषु धार्मिकानुष्ठानेषु वा केवलं मन्त्रजपस्य भाषा इति संस्कृतभाषायाः विषये भ्रमः अस्ति । परन्तु तत् संस्कृतसाहित्यस्य ५% तः न्यूनम् । संस्कृतसाहित्यस्य ९५% अधिकस्य धर्मेण सह किमपि सम्बन्धः नास्ति, तस्य स्थाने दर्शनशास्त्रं, विधिशास्त्रं, विज्ञानं, साहित्यं, व्याकरणं, ध्वन्यशास्त्रं, व्याख्यां इत्यादीनि विषयाः सन्ति वस्तुतः संस्कृतं स्वतन्त्रचिन्तकानां भाषा आसीत्, ये सर्वे प्रश्नं कुर्वन्ति स्म, तथा विविधविषयेषु विचाराणां विस्तृततमं वर्णक्रमं प्रकटितवान् । विशेषतः प्राचीनभारते अस्माकं वैज्ञानिकानां संस्कृतभाषा आसीत् । अद्यत्वे न संशयः, वयं विज्ञानक्षेत्रे पाश्चात्यदेशेभ्यः पृष्ठतः स्मः, परन्तु एकः समयः आसीत् यदा भारतं विज्ञानक्षेत्रे समग्रविश्वस्य अग्रणी आसीत् । अस्माकं पूर्वजानां महतीनां वैज्ञानिकसिद्धीनां ज्ञानेन, अस्माकं वैज्ञानिकविरासतां च अस्मान् पुनः एकवारं भारतं आधुनिकजगति विज्ञानस्य अग्रभागे नेतुम् उत्साहं नैतिकबलं च दास्यति ।

‘संस्कृत’ शब्दस्य अर्थः “सज्जः, शुद्धः, परिष्कृतः” वा इति । न तु वृथा ‘देववाणी’ (देवभाषा) इति उच्यते स्म ।



**वेदांती पोलकट**

द्वितीय वर्ष  
माहिती तंत्रज्ञान अभियांत्रिकी

## विद्यार्थीजीवनम्

छात्रजीवनमेव मानवजीवनस्य प्रभातवेला आधारशिला च वर्तते । समस्तजीवनस्य विकासस्य ह्रासस्य वा कारणम् एतज्जीवनमेवास्ति । वस्तुतः विद्यार्थीजीवनं साधनामयं जीवनम् अध्ययनं परमं तप उच्यते ।

छात्रजीवने परिश्रमस्य महती आवश्यकता वर्तते यः छात्रः आलस्यं त्यक्त्वा परिश्रमेण विद्याध्ययनं करोति स एव साफल्यं लभते । अतएव छात्रैः प्रातःकाले ब्रह्ममुहूर्ते एवं उत्थातव्यम् कस्मैचित् कालाय भ्रमणाय अनिवार्यम् । ततः प्रतिनिवृत्य स्नानसन्ध्योपासनादिकं विधाय अध्ययनं कर्तव्यम् । तदान्तरं च लघुसात्विकं भोजनं दुग्धं च गृहीत्वा विद्यालयं गन्तव्यम् । तत्र गत्वा गुरुन् नत्वा अध्ययनं कर्तव्यम् । छात्रैः असत्यवादं न कदापि कर्तव्यम् ।

छात्रजीवनं पूर्णतः अनुशासनबद्धं भवति । विद्यार्थीजीवने एवं समस्तानां मानवोचितगुणानां विकासः भवति । छात्र एवं राष्ट्रस्ययानुपमा निधिरस्ति । अतः छात्राणां शारीरिकं चारित्रिकं च विकास अत्यन्तानिवार्यम् विद्यार्थीजीवनमेव सम्पूर्णागामिजीवनस्य आधारशिला अतः तेषां सम्यक् रक्षणं, पोषणम् च कर्तव्यम् ।



**अंबिका पाटिल**

द्वितीय वर्ष  
माहिती तंत्रज्ञान अभियांत्रिकी

## स्वामी विवेकानंदः



स्वामी विवेकानंद गुरुशिक्षाप्रसारणाय चतुर्दिक्षुः यात्रां करोति । स्वामीजी शिकागोनगरे विश्वसनीयभाषणेन सर्वेषां हृदयं जित्वा “अमेरिका भगिन्यः भ्रातरः” इति प्रेक्षकान् सम्बोधयन् ।

विवेकानन्दः एतानि वचनानि उद्धृतवान् “अहं गर्वितः अस्मि यत् अहं तस्य धर्मस्य अस्मि यः जगति सहिष्णुतां सार्वत्रिकस्वीकारं च उपदिष्टवान् । वयं न केवलं सार्वत्रिकसहिष्णुतां विश्वसामः अपितु सर्वान् धर्मान् सत्यं स्वीकुर्मः” इति । एवं संस्कृतिषु बहुलतायाः अभावेऽपि सार्वभौमिकस्वीकारस्य, एकत्वस्य, सामञ्जस्यस्य च मूल्यानि प्रदर्शयन् भारतीयधर्मस्य मूल्यं सः अग्रे स्थापितवान् ।

उच्चतम आदर्शानां महान् विचाराणां च आकृतिः स्वामीजी भारतस्य युवानां कृते प्रेरणादायिनी आसीत् । स्वस्य शिक्षायाः माध्यमेन सः युवानां मस्तिष्कं आत्मसाक्षात्कारस्य, चरित्रनिर्माणस्य, आन्तरिकबलस्य, अन्येषां सेवायाः, आशावादीदृष्टिकोणस्य, अथकप्रयत्नस्य च बहुभिः शक्तिभिः पूरयितुम् इच्छित स्म ।

तस्य प्रसिद्धाः उद्धरणानि सन्ति- “उत्तिष्ठ, जागर, यावत् लक्ष्यं न प्राप्यते तावत् मा निवर्तयतु” इति । सः अपि अवदत् यत् यत्किमपि बालकं शारीरिकं, बौद्धिकं, आध्यात्मिकं च दुर्बलं करोति तत् विषत्वेन निराकरणीयम् । चरित्रनिर्माणं जनयति इति शिक्षायाः विषये अपि सः बलं दत्तवान् । तस्य “रामकृष्णमठस्य” “रामकृष्णमिशनस्य” च स्थापना “गुरुभक्ति” इत्यस्य, तस्य त्यागस्य, तपस्य, भारतस्य निर्धनानाम्, दूदितानां च जनानां सेवायाः चिह्नम् आसीत् । सः बेलूर मथस्य संस्थापकः अपि आसीत् ।

सः दिव्यतासन्देशं शास्त्राणां च सत्यं लक्ष्यं प्रसारितवान् । पृथिवीमातुः अयं महान् देशभक्तः भिक्षुः १९०२ तमे वर्षे जुलैमासस्य ४ दिनाङ्के बेलूर् मथ इत्यत्र अन्तिमः निःश्वासं गृहीतवान् ।

स्वामीजी भारतीयसंस्कृतेः हिन्दुधर्मस्य च समृद्धिविविधविरासतां, अद्वैतस्य, निःस्वार्थप्रेमस्य, राष्ट्रप्रति सेवायाः च सन्देशान् वहति स्म । तस्य उच्चतमगुणयुक्तं मनमोहकं व्यक्तित्वं युवानां मनः प्रकाशयति स्म । तस्य उपदेशैः तेषु आत्मानः सामर्थ्यस्य साक्षात्कारः उत्पन्नः ।



**सानिका डोसे**

द्वितीय वर्ष  
यांत्रिकी अभियांत्रिकी

## मित्रता



मैत्री तत् विशेषं ईश्वरदत्तं दानं मनुष्याणां कृते येषां सह बहुविधाः प्रतिध्वनितभावनाः साक्षाः कर्तुं शक्यन्ते । सत्मिलः सम्यक् मार्गदर्शनं ददाति तथा च व्यक्तिगतप्रेरणया विहीनः अत्यन्तं निष्कपटः व्यक्तिः भवति अविश्वसनीयं त्यागं च करोति ।

सुहृदः सुन्दरं दुर्गन्धं च न कृत्वा रक्षणार्थं तिष्ठति । कस्यचित् मित्रतां कर्तुं सर्वदा सुलभं ऋजुं च भवति; तथापि सुहृदः भवितुं आयुः यावत् समयः भवति ।

मैत्री एकः संवेदनशीलः च बन्धः अस्ति यस्य सावधानीपूर्वकं निवारणस्य आवश्यकता भवति यत् आहतस्य भावः न भवति । युगपर्यन्तं स्थातुं शक्नोति, अखण्डं बन्धनं च निर्मातुम् अर्हति यावत् कश्चन दोषं न सिद्धयति । तथापि विषमाः जनाः मित्रतां न प्राप्नुवन्ति । यदा मित्राणि परस्परं मूल्यव्यवस्थां, विचारं, रुचिं च साक्षां कुर्वन्ति तदा दृढः मैत्रीबन्धः विकसितः भवति । भावसन्तुलनं नास्ति यस्य मैत्री विच्छिद्येत ।

उत्तममैत्रीं कृते संवादस्य आवश्यकता भवति । सुहृदः प्रत्येकं समस्यां, कठिनतां, भेदं च व्यवस्थितं कुर्वन्ति । ते चरित्रस्य ढालने साहाय्यं कर्तुं शक्नुवन्ति, कस्यचित् मित्रतां कुर्वन् सावधानता आवश्यकी भवति । अत एव मैत्री ईश्वरस्य विशेषदानम् अस्ति ।

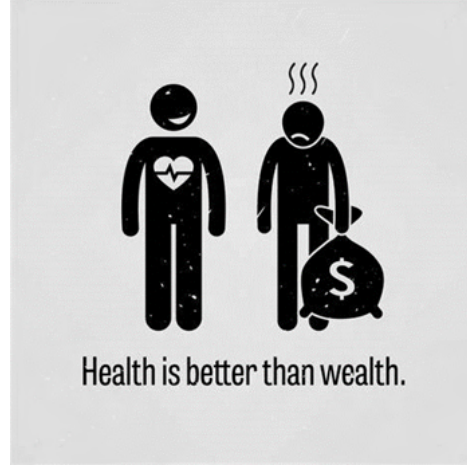


**साक्षी सुरडकर**

द्वितीय वर्ष

परमाणु एवं दूरसंचार अभियांत्रिकी

## स्वास्थ्यं धनम् अस्ति



महत्तमं धनं अस्माकं स्वस्य आरोग्यम् अस्ति । स्वस्थः शरीरः महत् धनं अर्जयितुं शक्नोति परन्तु, धनी व्यक्तिः महत् आरोग्यं अर्जयितुं न शक्नोति । वयं द्रुतगत्या जगति जीवामः यत्र व्यक्तीनां स्वस्य कृते समयः नास्ति । तेषां जीवनस्य अधिकांशः भागः अन्येषां अतिप्रकाशार्थं भौतिकधनस्य अन्वेषणेन शुष्कः भवति परन्तु मार्गे तेषां स्वास्थ्यं नष्टं भवति ।

अद्यतन-अध्ययनेन ज्ञातं यत् वर्तमान-शीघ्र-जीवनस्य वर्धितः तनावः विविधाः चिकित्सा-स्थितयः उत्पद्यन्ते । तेषु प्रमुखाः हृदयस्य, तंत्रिकाविज्ञानस्य च समस्याः सन्ति । उत्तमस्वास्थ्यं व्यक्तित्वं सामान्यतया कार्यस्य जीवनस्य च विषये सकारात्मकदृष्टिकोणं स्थापयितुं सहायकं भवति । धनं महत्त्वपूर्णं, परन्तु, स्वास्थ्यवत् महत्त्वपूर्णं नास्ति ।

पञ्चतारकहोटेलेषु जंकफूड् इत्यत्र वा अन्येषु मनोरञ्जनस्रोतेषु यथा एकदिनं यावत् चलच्चित्रं पश्यन् इत्यादिषु बहु धनं व्यययित्वा आत्मसन्तुष्टेः अतिरिक्तं अन्यः कोऽपि लाभः नास्ति शारीरिकरूपेण मानसिकरूपेण च स्वस्थः भवति चेत् व्यक्तिः सामाजिकरूपेण आर्थिकरूपेण च स्वस्थः भवितुम् अपि साहाय्यं करोति । स्वस्थः व्यक्तिः बहु धनं अर्जयितुं शक्नोति तथापि अस्वस्थः व्यक्तिः प्रेरणा, रुचिः, एकाग्रतास्तरस्य च अभावात् न शक्नोति ।

धनं स्वस्थजीवनं निरन्तरं कर्तुं स्रोतः तथापि सुस्वास्थ्यं सुखदं शान्तं च जीवनं जीवितुं स्रोतः अस्ति । अतः, सर्वेः सुस्वास्थ्यस्य निर्वाहार्थं बहवः सावधानताः करणीयाः । दुर्व्यवहारात्, अस्वस्थजीवनशैल्याः च सर्वे दूरं भवेयुः । स्वस्थः भवितुं न केवलं रोगः, व्याधिः, चोटः वा मुक्तः भवति अपितु शारीरिकः, मानसिकः, सामाजिकः, बौद्धिकः, आर्थिकः च सुखी भवितुं भवति सुस्वास्थ्यं सुखीजीवनस्य वास्तविकं आवश्यकता प्रकृतेः महत्तमं दानं च अस्ति ।



**गौरव कपले**

द्वितीय वर्ष  
संगणक विज्ञान अभियांत्रिकी



## जनाः किमर्थं विषादिताः भवन्ति ?



अवसादः प्रत्येकं वयसः, आर्थिकस्थितेः, जातिस्य च जनान् प्रभावितं करोति । अवसादः सामान्यः अस्ति चेदपि — विशेषतः किशोरावस्थायां — केचन जनाः विषादं प्राप्नुवन्ति किन्तु अन्ये न । किमर्थम् ?

अवसादस्य कोऽपि कारणं नास्ति बहुविधाः विषयाः प्रभावं कुर्वन्ति यत् व्यक्तिः विषादग्रस्तः भवति वा इति । तस्य केचन जीवविज्ञानम् — अस्माकं जीनानि, मस्तिष्कस्य रसायनशास्त्रं, हार्मोन इत्यादीनि वस्तूनि । केचन पर्यावरणं, यत्र दिवसप्रकाशः ऋतुः च सन्ति, अथवा सामाजिकाः पारिवारिकाः च परिस्थितयः वयं सम्मुखीभवन्ति । तथा च केचन व्यक्तित्वम्, यथा जीवनस्य घटनासु वा वयं स्वस्य कृते निर्मितानाम् समर्थनव्यवस्थानां प्रति वयं कथं प्रतिक्रियां कुर्मः । एतानि सर्वाणि वस्तूनि व्यक्तिः विषादितः भवति वा न वा इति आकारं दातुं साहाय्यं कर्तुं शक्नुवन्ति । अत्र लचीलतायाः निर्माणस्य त्रयः उपायाः सन्ति ।

परिवर्तनं जीवनस्य एकं चुनौतीपूर्णं सामान्यं च भागं इति चिन्तयितुं प्रयतध्वम् । यदा समस्या सस्यं भवति तदा तस्याः समाधानार्थं कार्यं कुर्वन्तु । विघ्नाः समस्याः च अस्थायीः समाधानयोग्याः च भवन्ति इति स्मर्यताम् । न किमपि सदा स्थास्यति ।

समर्थनव्यवस्थां निर्मायताम् । यदा भवतः आवश्यकता भवति तदा मित्राणि परिवारजनानि च साहाय्यं याचयन्तु (अथवा केवलं रोदनार्थं स्कन्धं) । यदा तेषां आवश्यकता भवति तदा साहाय्यं कर्तुं प्रस्तावः । एतादृशः दत्तः ग्रहणं च दृढसम्बन्धान् निर्माति ये जनानां जीवनस्य तूफानानां सामना कर्तुं साहाय्यं कुर्वन्ति ।

सकारात्मकं लचीला च भवितुं न जादूकवचः यत् स्वयमेव अवसादात् अस्मान् रक्षति । परन्तु एते गुणाः अन्येषां कारकानाम् प्रतिपूर्तिं कर्तुं साहाय्यं कर्तुं शक्नुवन्ति ये कष्टं जनयितुं शक्नुवन्ति ।

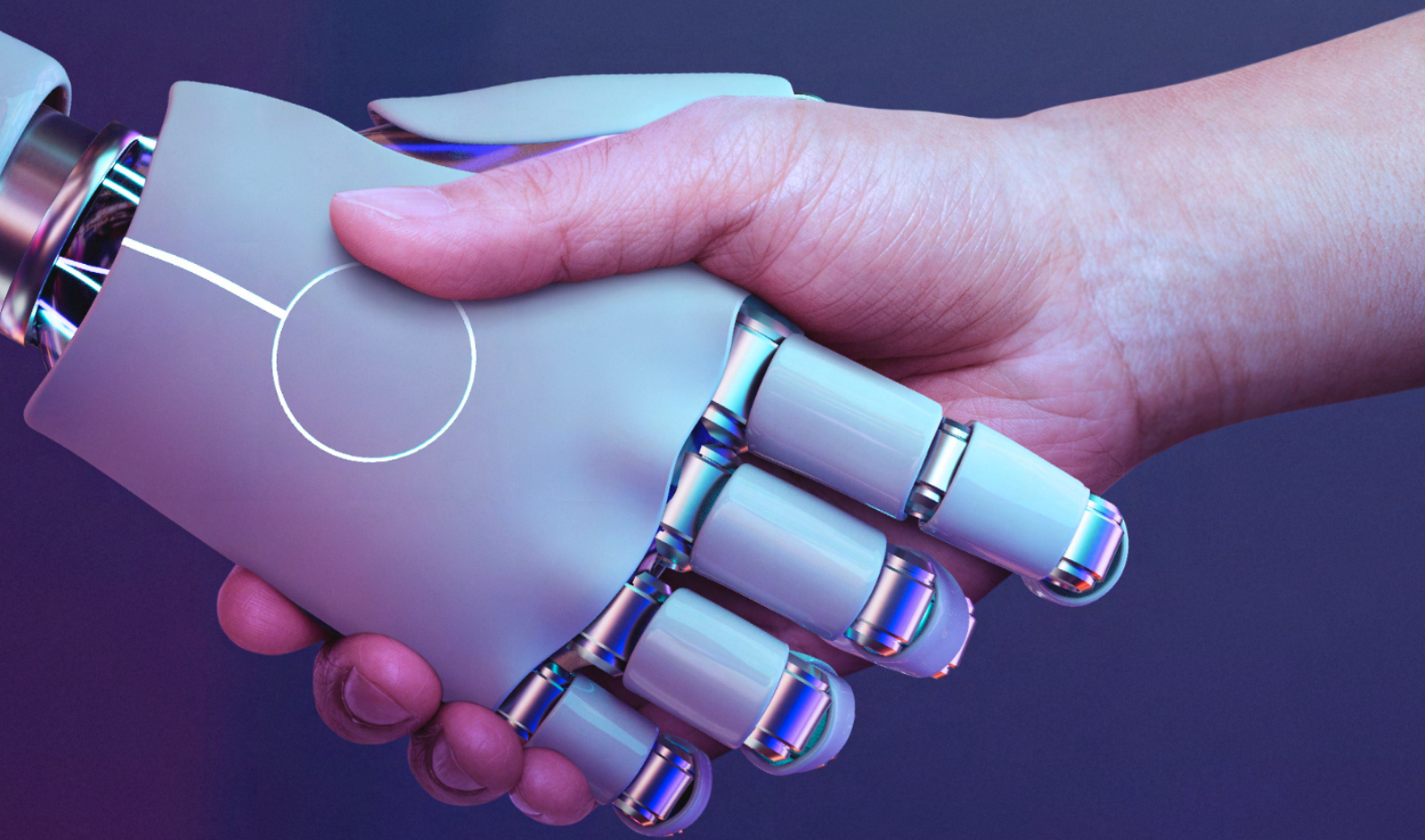


**ईशान गावंडे**

द्वितीय वर्ष

संगणक विज्ञान अभियांत्रिकी





# TECHNICAL SECTION



## EDITORIAL

It is with immense gratitude and a sense of pride that I find myself contributing my editorial views to Tattwadarshi 2022, the annual magazine of SSGMCE Shegaon. This magazine serves as a remarkable reflection of the talents, potential, achievements, vision, and mission of our college community. It is a time for both teachers and students to appreciate the fruits of their hard work and celebrate the passing year.

In this digital age, technology has become a key enabler for students to unlock their creativity and actively participate in their learning journey. It fosters problem-solving, mastery learning, and meaningful conversations. The cover version of Tattwadarshi presents a compilation of write-ups from students across all streams, providing an excellent platform for technical minds to express themselves and engage with technology. The magazine has received articles discussing various new inventions and theories, showcasing the innovative spirit of our college.

Often, our minds become the biggest obstacle to embracing new ideas and insights, preventing them from turning into possibilities. Some of the most groundbreaking ideas originate from seemingly crazy concepts. In the forthcoming magazine, we aim to cover unique ideas that will inspire and encourage all of us to venture into uncharted territories. The creativity formula we present will help each individual refrain from judging their ideas or themselves, thus fostering an environment that nurtures creativity.

Our commitment lies not only in graduating students but also in equipping them with diverse knowledge, enabling them to achieve great success in the global arena.

I feel honored and deeply grateful to our chief editor, associate chief editor, Prof. S.V. Bhagat Sir, and all the active students who have contributed to making this technical section of the magazine even more valuable. Together, we strive to foster a culture of innovation and excellence in our college community.



**Varad Deshmukh**

Third year MECH  
Editor, Technical Section,  
Tattwadarshi Team (2022-23)

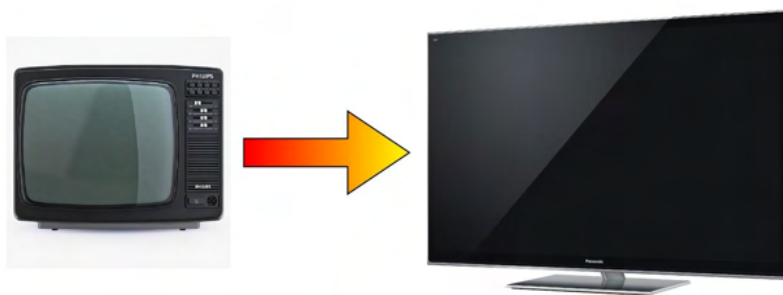
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## OLD AND NEW TV

The life of Television began with an idea of transmissions of moving images over a radio system by using mechanical rotating perforated disks, its development was interrupted by beginning of second world war, later in 7th September 1927, Philo Taylor Farnsworth innovated a standard TV set turns the video signal into beams of tiny particles called electrons, It shoots these beams at the back of the screen through a picture tube. The beams "paint" the pixels on the screen in a series of rows to form the pictures standard TV set turns the video signal into beams of tiny particles called electrons and it was named as black and white television later in 1937 an Scottish engineer John Logie Baird introduce color television which base on prime principles of, the image is reproduced by selective excitation of three RE-phosphors (blue, green, and red) deposited on the internal face of the screen by a highly powerful electron beam originating from a metal electrode (cathode).



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In India On 25 April 1982 Doordarshan began testing color television programs in India. But in actuality, it was dedicated to India on 15th august 1982. Subsequently, Gold Star started the mass production of 19-inch color TVs in 1977. A year after beginning to export colour TV sets to India, the owners decided to bring their two entities of Lucky and Goldstar under a unified conglomerate called Lucky Goldstar Group in 1983, while Onida Electronics was very much famous in India for its colour CRT televisions in the 1980s and also for popular ads of a devil with horns and tail. In the year of 1985 Videocon became the first company to bring color TVs in India," claims Anirudh Dhoot, the founder's grandson (Venugopal Dhoot's son) and Videocon's current director.

It's true that In the 1990s, Japanese brands like Sony, Panasonic, and Toshiba were dominant in the TV marketplace around the world. Even though Sony does still make some of the best TVs, there's been a lot of changes in the TV manufacturing industry since then. Later in 1962 Nick Holonyak first practical LED was when he was at General Electric .After the Liquid Crystal Display Invented 40 Years Ago In May 1968, electrical engineer George Heilmeyer and his team of scientists revealed the liquid crystal display to the public.

An LED TV Is one of its own kinds of LCD where the backlight has LEDs in place of CCFLs. This is the main principle behind the working of LED TV technology. LED TVs have efficient energy as compared to CCFL. Also, LED TVs are smaller and thin in comparison to other types of televisions . The way an LED TV works is, again, via a backlight, which is partially composed of two layers of polarizing material with a liquid crystal solution between them. When an electric current passes through the liquid solution, it causes the crystals to align so that light is transmitted. While the composition of LCD/LED TV is generally LCD screen, chassis, motherboard, power board, remote receiving board, keypad, horn, 120Hz transfer board, backlight board (high pressure board) remote control, all connection lines.

**Tejas Shivrame**

Final Year

Electronics and Telecommunication Engineering

## CLOUD COMPUTING

The life of Television began with an idea of transmissions of moving images over a radio system by using mechanical rotating perforated disks, its development was interrupted by beginning of second world war, later in 7th September 1927, Philo Taylor Farnsworth innovated a Cloud computing is the delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet ("the cloud") to offer faster innovation, flexible resources, and economies of scale.



Rather than owning their own computing infrastructure or data centres, companies can rent access to anything from applications to storage from a cloud service provider.

One benefit of using cloud-computing services is that firms can avoid the upfront cost and complexity of owning and maintaining their own IT infrastructure, and instead simply pay for what they use, when they use it.

In turn, providers of cloud-computing services can benefit from significant economies of scale by delivering the same services to a wide range of customers.

Cloud computing as a term has been around since the early 2000s, but the concept of computing as a service has been around for much, much longer – as far back as the 1960s, when computer bureaus would allow companies to rent time on a mainframe, rather than have to buy one themselves.

These 'time-sharing' services were largely overtaken by the rise of the PC, which made owning a computer much more affordable, and then in turn by the rise of corporate data centres where companies would store vast amounts of data.

But the concept of renting access to computing power has resurfaced again and again – in the application service providers, utility computing, and grid computing of the late 1990s and early 2000s. This was followed by cloud computing, which really took hold with the emergence of software as a service and hyperscale cloud-computing providers such as Amazon Web Services.

Building the infrastructure to support cloud computing now accounts for a significant chunk of all IT spending, while spending on traditional, in-house IT slides as computing workloads continue to move to the cloud, whether that is public cloud services offered by vendors or private clouds built by enterprises themselves.

Indeed, it's increasingly clear that when it comes to enterprise computing platforms, like it or not, the cloud has won.

Tech analyst Gartner predicts that as much as half of spending across application software, infrastructure software, business process services and system infrastructure markets will have shifted to the cloud by 2025, up from 41% in 2022. It estimates that almost two-thirds of spending on application software will be via cloud computing, up from 57.7% in 2022.

Platform as a Service (PaaS) is the next layer up – as well as the underlying storage, networking, and virtual servers, this layer also includes the tools and software that developers need to build applications on top, which could include middleware, database management, operating systems, and development tools.

Software as a Service (SaaS) is the delivery of applications as a service, probably the version of cloud computing that most people are used to on a day-to-day basis. The underlying hardware and operating system is irrelevant to the end user, who will access the service via a web browser or app; it is often bought on a per-seat or per-user basis.

SaaS is the largest chunk of cloud spending simply because the variety of applications delivered via SaaS is huge, from CRM such as Salesforce, through to Microsoft's Office 365. And while the whole market is growing at a furious rate, it's the IaaS and PaaS segments that have consistently grown at much faster rates, according to analyst IDC: "This highlights the increasing reliance of enterprises on a cloud foundation built on cloud infrastructure, software-defined data, compute and governance solutions as a Service, and cloud-native platforms for application deployment for enterprise IT



applications." IDC predicts that IaaS and PaaS will continue growing at a higher rate than the overall cloud market "as resilience, flexibility, and agility guide IT platform decisions.

**Tanay Tapare**

Second Year

Electronics and Telecommunication Engineering

## INDUSTRY 4.0

Steam propelled the original Industrial Revolution; electricity powered the second; preliminary automation and machinery engineered the third; and cyber physical systems—or intelligent computers—are shaping the Fourth Industrial Revolution.

Before 2014, the Google search term "Industry 4.0" was practically nonexistent, but by 2019, 68 percent of respondents to a McKinsey global survey regarded Industry 4.0 as a top strategic priority. Seventy percent said their companies were already piloting or deploying new technology.



4IR builds on the inventions of the Third Industrial Revolution—or digital revolution which unfolded from the 1950s and to the early 2000s and brought us computers, other kinds of electronics, the Internet, and much more. Industry 4.0 brings these inventions beyond the previous realm of possibility with four foundational types of disruptive technologies (examples below) that can be applied all along the value chain:

Connectivity, data, and computational power: cloud technology, the Internet, blockchain, sensors .Analytics and intelligence: advanced analytics, machine learning, artificial intelligence .

Human-machine interaction: virtual reality (VR) and augmented reality (AR), robotics and automation, autonomous guided vehicles. Advanced engineering: additive manufacturing (such as, 3-D printing), renewable energy, nanoparticles

Technologies such as artificial intelligence, augmented reality, Internet of Things (IoT) and autonomous vehicles are increasingly merging with human lives. Already, we are surrounded by artificial intelligence, from self-driving cars and drones to virtual assistants. Just five years ago this technology existed but was considered futuristic and not mature enough to meet the commercial market on a large scale. In 2017 alone there was a growth rate of 54 per cent of the number of patents filed related to the Fourth Industrial Revolution, according to the European Patent Office (European Patent Office Citation2017). The vast amount of data that is now collected on humans from their connected devices are fuelling algorithms and feeding artificial intelligence technologies to accurately predict our cultural interests, preferences, and health tracking (Schwab Citation2018). The pace of technological innovation and change is faster than ever in the Fourth Industrial Revolution. To put it into context; it took 75 years for 100 million users to adopt the telephone, whereas the social media site Instagram signed up 100 million users in two years, while the interactive mobile game Pokemon Go had 100 million users in just one month (Schulze Citation2019). Not only is the up-take in users significantly faster, the amount of individual personal data collected by the organisations behind these digital platforms is exponential.

There is a clear acceleration in the digital shift closing the gap between the physical and biological realm as a result of the global pandemic, especially in the workplace. As organisations create strategies for migrating their employees back to the office, they are looking to biotechnology and smart infrastructure to pave the way to a safer office environment (Fletcher Citation2016). From occupancy and utilisation sensors to facial recognition and voice activation, the post-pandemic workplace can offer a touchless experience for its users. Coupled with real time data to inform HVAC control, cleaning schedules and occupancy rates, these technological changes have the ability to drastically alter how individuals and companies interact with their physical environment. The Fourth Industrial Revolution brings radical changes for employees, organisations and society as a whole.

Work and the meaning of work are changing for employees, and organisations must now balance the efficiencies of technological innovation with new jobs and employment concepts, as well as global and local power shifts. The latest research within the context of the Fourth Industrial Revolution has emphasised that workplaces will, more than ever, be driven by digitalisation and extensive smart ecosystems (Chearavanont Citation2020). Therefore, artificial intelligence and machine learning will increase in importance and provide the foundation for which we conduct work and business. This means that companies and employees will need to reimagine what new ways of working might look like and how will fit into new workplace designs and concepts.

However, this digital paradigm shift is not reserved exclusively for private enterprises and corporate offices, it extends to a city-wide scale. The technologies driving the Fourth Industrial Revolution are changing our demands and expectations of the buildings and cities we work and live in. The digital world now has a direct impact on our buildings and infrastructure, as buildings increasingly become 'service' hubs where humans physically interact. While we have become familiar with the term 'Smart Buildings' and 'Smart Cities' in the Third Industrial Revolution, the Fourth will herald the beginning of autonomous, intelligent, and sentient buildings and cities. These transformative digital changes are radically disrupting almost every facet of urban living from how we consume to how we travel, work and educate ourselves – and it is all happening at an unprecedented, whirlwind pace across generations (Schwab Citation2018).

An upheaval in technology often has significant consequences for society. Technologies emerging from the Fourth Industrial Revolution are changing the way we interact and live within our cities. This has become increasing evident during the global pandemic. During times of lockdown and social distancing people have turned to technology for a solution. As the pandemic forced a mass exodus from physical office space, video technology, virtual assistants, remote network access and automated systems have allowed the majority of people to work from anywhere. Consequently, many people have fled the city for greener pastures, which has had a knock on effect on the economy of urban environments because it has changed our consumer patterns leaving many of the popular coffee shops and retail stores barren. This clearly demonstrates that digital transformations can go far beyond our interaction with technology and into our relationship with the city and built environment.

The Fourth Industrial Revolution does not come without its challenges. The sheer quantum of data collected through every facet of our digital interactions raises ethical concerns and questions around data privacy. Companies in industries from transportation and retail to banking are incorporating new sophisticated technologies into their operations transforming them into primarily technology companies (Fisher Citation2018). As these industries go digital, they are collecting more data about customers and there is increasing concern among users that these companies know too much about their private digital lives. The question then be

comes: are organisations ready for the challenges and transformations the Fourth Industrial Revolution presents?

There is no doubt that the Fourth Industrial Revolution will result in radical societal transformation. By disrupting the incentives, rules and behaviours of economic urban life, this revolution will transform how we communicate, learn, behave and relate to each other and to our surroundings. While this era does not come without its challenges, it provides us with an opportunity and responsibility to shape how we want to live and work in our cities in the future and allows us to unite global communities and build sustainable economies. Just like the industrial revolutions of the past, the Fourth Industrial Revolution is leading to a complete societal shift in which we can proactively shape to be inclusive and human-centric giving the movement purpose and structure.



**Sahil Mathurkar**

Second Year

Electronics and Telecommunication Engineering

## SPACE TOURISM

After the Apollo era, companies investigated opportunities to send civilians rather than government professionals—that is, NASA astronauts—into space. In the 1970s, manufacturing conglomerate Rockwell International, a contractor for NASA's Space Shuttle program, researched the possibility of passenger modules that could fit into the payload bay of the Space Shuttle, with similar concepts developed by other companies over the subsequent decade. None came to fruition.



ASA did open up its spaceflights to nongovernment professionals, though, primarily as payload specialists, who were tasked to complete specific in-flight projects by companies outside of NASA. NASA also developed the Teacher in Space and Journalist in Space programs to open up spaceflight to several civilians annually. But the programs were ended after the Challenger disaster in 1986, which killed the first Teacher in Space participant, Christa McAuliffe, along with her six crew members. The program was considered for a revival, but that, too, was ended after a Space Shuttle failure—this one, the fatal Columbia disaster in 2003.

Space tourism finally became successful in 2001 with Tito's launch to the ISS. That trip was organized by a company called Space Adventures, which ultimately saw eight other space tourists take trips to the ISS through 2009,



each launched on a Russian Soyuz spacecraft. But these tourist flights ended after the retirement of NASA's Space Shuttle program in 2011. Because the only spacecraft capable of human spaceflight at

that time was the Soyuz, every seat on every launch was needed for professional astronauts from around the world, and tourism was put on the back burner.

### **Today's Position of Space tourism**

For the past decade, private space tourism companies have been developing spacecraft to take passengers on suborbital flights, which bring them to the edge of space and back down to Earth in relatively short "hops" lasting anywhere from a few minutes to a few hours. By comparison, the first nine Space Adventure clients flew orbital missions that encircled the planet for days.

The method of flight varies by company. BLUE ORIGIN, for instance, launches vertically like most rockets, whereas VIRGIN GALACTIC flies a rocket-powered space plane that is launched from the belly of a carrier aircraft. While these two companies are the only suborbital companies

are the only suborbital companies cleared by the Federal Aviation Administration (FAA) for launches—both have already carried passengers to space—other companies are preparing for liftoff. That includes space-balloon companies SPACE PERSPECTIVE and WORLD VIEW, which offer a far more leisurely journey than rocket-powered ascents, gently lifting passengers to high altitudes in a high-tech version of a hot air balloon. Across all suborbital space tourism companies, prices range from approximately \$50,000 to \$450,000 per seat.

Orbital tourism has also made a comeback, though at far higher prices: tens of millions of dollars per seat. SpaceX, which is contracted by NASA to launch astronauts to the ISS, is also available for private charters. In 2021, entrepreneur Jared Isaacman organized the Inspiration4 mission, the world's first all-civilian mission, during which he and three crewmates orbited the Earth in a SpaceX Crew Dragon capsule as a fundraiser for St. Jude Children's Research Hospital. In 2022, SPACEX provided the launch vehicle for the Axiom mission 1 (Ax-1), the world's first all-civilian mission to the ISS, during which four crew members spent eight days onboard the orbiting research facility.

Space Adventures is also back in business; it organized a flight to the ISS for Japanese entrepreneur Yusaku Maezawa, who traveled to space in December 2021. Maezawa intends to charter SpaceX's under-development Starship spacecraft for a moon mission called the dearMoon project, taking with him eight civilians on the journey.

### **Future of space tourism**

Space tourism remains in its nascent phase, with plenty of work to be done. Existing suborbital companies are still tweaking launch vehicles and increasing launch cadence to approach regularity, while upcoming ones are waiting for FAA approval to begin their operations. And, hopefully, the space tourism companies will eventually be able to reduce the cost of flights, too.

But many enterprises are already eyeing the future when it comes to space tourism—a future in low-Earth orbit (LEO). NASA itself is investing in that future through the Commercial LEO Development Program, through which it is funding the development of private space stations. As NASA and its international partners move toward retiring the ISS in the next decade or so,

the agency hopes to rent facilities from private stations that will be able to host not only its professional astronauts but also commercial visitors.

**Ishwar Sharma**

Second Year  
Information Technology

## METaverse

### The Term “Metaverse”

A lot of people talk a lot about a lot of loosely related things, and then those things merge into a single semi-comprehensible thing. Then we live our lives within that thing forever. Remember hearing about “the internet”? Get ready for “The Metaverse.”

The term comes from digital antiquity: Coined by the writer Neal Stephenson in his 1992 novel, “Snow Crash,” then reimagined as the Oasis in the Ernest Cline novel “Ready Player One,” it refers to a fully realized digital world that exists beyond the analog one in which we live.



In fiction, a utopian metaverse may be portrayed as a new frontier where social norms and value systems can be written anew, freed from cultural and economic sclerosis. But more often metaverses are a bit dystopian – virtual refuges from a fallen world.

### Gaming

Video games like Roblox and Fortnite and Animal Crossing: New

Horizons, in which players can build their own worlds, have metaverse tendencies, as does most social media. If you own a non-fungible token or even just some crypto, you’re part of the metaversal experience. Virtual and augmented reality are, at a minimum, metaverse adjacent. If you’ve attended a work meeting or a party using a digital avatar, you’re treading into the neighborhood of metaversality.

Founders, investors, futurists and executives have all tried to stake their claim in the metaverse, expounding on its potential for social connection, experimentation, entertainment and, crucially, profit.

### **A World build on Blockchain**

Earlier this year, in the midst of a crypto boom, the price of a currency called MANA began climbing the charts in Coinbase, a popular exchange for digital currencies.

MANA is the currency of a virtual world called Decentraland, where in March plots of digital land were going for the equivalent of hundreds of thousands of dollars. (After two years bouncing around 10 cents, MANA briefly broke \$1.60 in April, pushing the combined value of all the tokens past \$2.4 billion.)

By size, Decentraland is more of a commune — as of July, just a few hundred people are logged in at a time, down from a March peak in the low thousands — made up of user-generated NFTs. Its creators have described the platform less as a place than as infrastructure upon which to build a place. (Decentraland's currency and land contracts run on the Ethereum blockchain.)

### **More than Entertainment**

It took off in a way none of us quite anticipated," said Donald Mustard, the chief creative officer of Epic.

As millions of players flocked to Fortnite Battle Royale, a game mode that is a bit like "The Hunger Games," the company rushed to add social features, like voice chatting and dance parties. In financial documents made public in federal court in May as part of an antitrust suit against Apple, Epic said Fortnite made more than \$9 billion in revenue in 2018 and 2019 combined.

Players spend money to dress up their characters in superhero costumes and banana suits.

Now, Epic markets Fortnite as not just an interactive experience but as a metaverse.



“It’s more than a game,” Matthew Weissinger, the vice president of marketing at Epic, said in court. “We’re building this thing called the metaverse – a social place.”

A Travis Scott concert held within Fortnite last April drew more than 12 million concurrent views, the company said. And nearly 50 percent of players are using the game’s creative mode, which allows users to populate their own islands with buildings and games, said Tim Sweeney, the chief executive of Epic.

### Teenagers “Rags to Riches”

Roblox, a platform where independent developers create games popular with children, may be the nearest and most expansive vision of the metaverse.

In the first quarter of 2021, people spent nearly 10 billion hours playing Roblox, according to the company’s earnings report, and more than 42 million users logged in each day. Players also spent \$652 million on the site’s virtual currency, Robux, which can be used to purchase hats, weapons, hot air balloons and other digital items for their characters. After going public on March 10, the company’s valuation shot to \$45 billion; as of this week, it’s closer to \$50 billion.

Dave Baszucki, Roblox’s co-founder and chief executive, whose shares in the company were suddenly worth \$5.5 billion when the market closed that day, expressed his appreciation on Twitter.

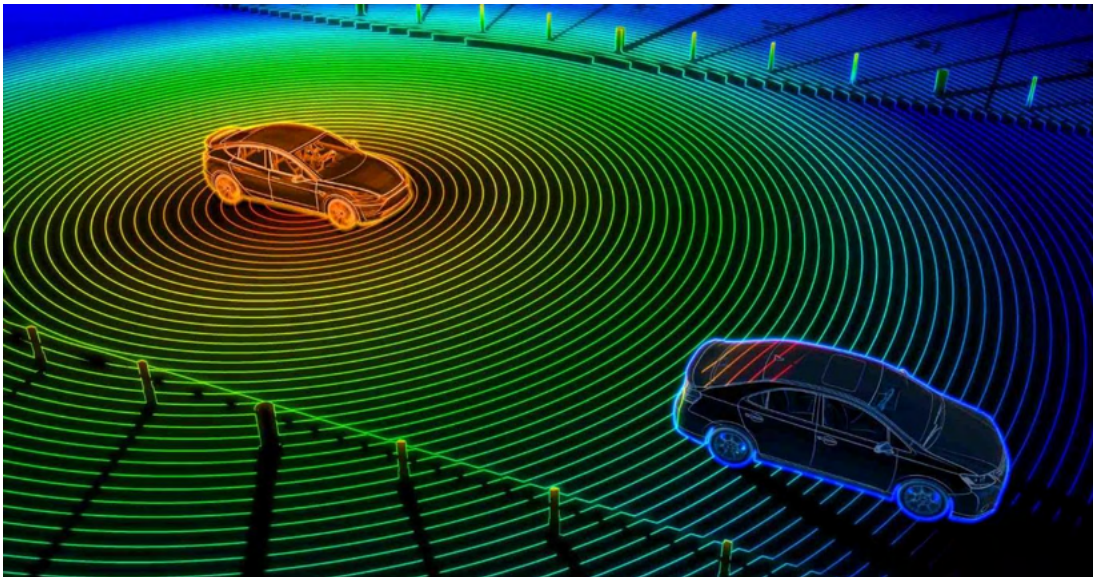
Ammon Runger, a 16-year-old, and his colleague Stefan Baronio, 23, have made six-figure salaries producing the prison-escape game Mad City, which attracts more than 200,000 players a month. Mr. Baronio bought a new car and paid for college with the money. He said the experience has been “life changing” but stopped short of calling Roblox a metaverse.



**Atharv Raut**

Second Year  
Information Technology

## LIDAR TECHNOLOGY



LIDAR (Light detection and ranging) is a method of determining the topography of the surface using a laser. These pulses generated are recorded which provide precise three-dimensional information about the surface. Today various platform LIDAR is available in the market and those are chosen based on the project requirement. E.g. terrestrial LIDAR is fixed in the ground, airborne LIDAR is placed on a flying platform like an airplane or helicopter, and space borne Laser is fixed on satellite platforms. Two types of LIDAR are available, topographic, and bathymetric. Topographic LIDAR uses near infrared laser, whereas bathymetric LIDAR uses green light penetrating the water.

The use of airborne laser (LIDAR) for measuring the depth of near shore coastal waters and lakes from an aircraft is getting more popular in surveying industry. The demand for faster and cheaper coastline survey can be replaced by using airborne LIDAR technology. The Airborne LIDAR bathymetry was successfully tested by US, Canada, and Australia in the early 1970s. The system built by Canadian Hydrographic Service (CHS) in 1986, the LARSEN 500 system was the first operational airborne LIDAR bathymetry system.

Airborne LIDAR bathymetry has proven to be more accurate, cost effective, efficient, and fast method of collecting shallow water bathymetry data than the sonar technology which is less efficient and hard to operate in many cases. The airborne laser bathymetry involves the pulse laser transmitter which emits green and infrared beams.

The wave length of green laser is 532 nm which can penetrate coastal water with less attenuation and can be used for coastal bottom detection. The infrared (IR) cannot penetrate the water and can be used for sea surface detection. The bathymetry sensors consist of four major components, the GPS receiver which records the aircraft position, the inertial measurement unit (IMU) which gives the roll, pitch and yaw of the aircraft, the laser scanner which emits the signal and the receiver sensor which read the returning signal. The LIDAR system can record the accurate measurements by knowing the position and orientation of all these components. These sensors can measure thousands of points per second.

The transmitted laser pulse from the aircraft partially reflected from the water surface and the seabed back to the receiver. By recording the time taken from the laser to reach the surface and back to the receiver and speed of the light in air and in water, the distance to the sea surface and sea bed can be calculated. This information is used to calculate the water depth. The bathymetric LIDAR system also includes RGB cameras which acquire better color photo which is used as a quality check tool in identification of bathymetric features and aids to navigation. Airborne LIDAR bathymetry has various advantages over other traditional water borne surveying techniques. It has tendency to perform survey quickly, efficiently within small operational window. This can cover a very large area and all those areas where it would be difficult to survey using traditional surveying methods. The ability of the airborne LIDAR to operate from the air gives the surveyor a flexibility that survey vessel surveyors could hardly imagine. The modern airborne LIDAR now comes with oblique digital photography which can be merged with point cloud. These georeferenced images are used during the validation process.

There are numerous limitations of an airborne LIDAR bathymetry system. The maximum depth the laser can penetrate depends on the clarity of water. The maximum surveyable depths depend on several systems used and the environment condition. The green laser penetrates and travel maximum depth if the water is clear water. The maximum surveyable depths ranges from 50 meters in clean water to less than 10 meters in murky water. The use of airborne LIDAR system is not appropriate for small target detection. The spatial resolution obtained from the airborne LIDAR is not as good as for modern high-frequency sonar. Small target detection using airborne LIDAR may be possible by significantly increasing the survey density which becomes more expensive.

Various environmental factors like rain, fog, clouds, high winds, high waves, etc. can cause problem when carrying out airborne LIDAR surveys. Surveying in rain cause the laser beam to backscatter to the receiver by raindrops. The backscatter signal by the mist and fog can result in false surface heights. Airborne surveys in high wind can pose a danger when flying near a coastal mountain and cause changes in survey density.

Airborne LIDAR bathymetry technology can be used for many applications like charting, environmental mapping, flood plain and coastal mapping etc.



**Dyaneshwari Chatarkar**

Third Year

Computer Science Engineering

## CYBER-PHYSICAL SYSTEMS (CPS)

Cyber-physical systems (CPS) refer to the integration of physical components with computational and communication systems, creating a tightly coupled network of interacting elements. These systems combine physical processes with advanced computing, sensing, and communication technologies to monitor and control the physical world in real-time.



**Key characteristics and components of cyber-physical systems include:**

- **Physical Elements:** CPS consist of physical components such as sensors, actuators, robots, machines, vehicles, infrastructure, and other tangible objects. These physical entities interact with the environment and generate data that can be captured and processed by computational systems.
- **Computational Systems:** CPS incorporate computing systems, including embedded systems, microcontrollers, processors, and software algorithms. These systems collect, analyze, and interpret data from the physical elements, and generate control signals to influence physical processes and actions.



- **Communication Networks:** CPS rely on communication networks to enable the exchange of data and information between physical components and computational systems. These networks can be wired or wireless and facilitate real-time data transmission, coordination, and synchronization.
- **Real-Time Operation:** CPS operate in real-time, meaning they continuously sense, process, and act upon data and events with minimal delay. Real-time capabilities are crucial for time-critical applications such as autonomous vehicles, industrial automation, and smart grid systems.
- **Control and Decision-Making:** CPS incorporate control and decision-making algorithms that analyse data from sensors and make intelligent decisions to control the physical processes. These algorithms may leverage techniques from areas such as control theory, machine learning, optimisation, and artificial intelligence.
- **Integration and Interoperability:** CPS often involve the integration of diverse components and subsystems from different domains. Integration and interoperability ensure seamless communication, coordination, and collaboration among different elements of the system, enabling efficient and effective operation.

**Examples of cyber-physical systems include:**

- **Smart Grids:** These systems integrate electricity generation, distribution networks, and advanced control systems to enable efficient and reliable energy management.
- **Autonomous Vehicles:** Self-driving cars and autonomous drones are examples of CPS that combine physical sensors, control systems, and communication networks to navigate and interact with the environment.
- **Industrial Automation:** CPS in manufacturing environments use sensors, robotics, and intelligent control systems to automate and optimize production processes.
- **Smart Cities:** CPS are employed in various applications within smart city infrastructure, such as intelligent transportation systems, smart buildings, and environmental monitoring.
- **Healthcare Systems:** Medical devices, wearable sensors, and telemedicine systems that monitor patients and enable remote healthcare services are examples of CPS in the healthcare domain.

Cyber-physical systems enable enhanced monitoring, control, and automation of physical processes, leading to improved efficiency, safety,

reliability, and sustainability in various domains. They have significant implications for industries, infrastructure, healthcare, transportation, and the overall digital transformation of society.

**Chitvan Naik**

Third Year

Computer Science Engineering

## SAP

SAP stands for Systems, Applications, and Products in Data Processing. It is a leading enterprise resource planning (ERP) software company that provides a range of business software solutions to organizations of all sizes and industries.



SAP offers a wide array of software modules and applications that cover various business functions, including finance, human resources, sales, manufacturing, supply chain management, customer relationship management, and more.

These modules are integrated into a unified system, enabling seamless data flow and efficient management of business processes.

**Key components and solutions within the SAP ecosystem include:**

- **SAP ERP:** SAP's flagship product, SAP ERP, provides integrated solutions for core business functions, such as financial accounting, materials management, production planning, and sales and distribution. It helps organizations streamline their operations, optimize resources, and improve visibility and control over their business processes.
- **SAP S/4HANA:** S/4HANA is the next-generation ERP suite from SAP that runs on the SAP HANA in-memory database. It offers real-time analytics, simplified data models, and enhanced user experiences. S/4HANA enables organizations to leverage advanced technologies like artificial intelligence, machine learning, and Internet of Things (IoT) for intelligent automation and decision-making.

- **SAP CRM:** SAP Customer Relationship Management (CRM) provides tools for managing customer interactions, sales processes, marketing campaigns, and service operations. It helps organizations build and maintain strong customer relationships, improve customer satisfaction, and drive sales growth.
- **SAP SCM:** SAP Supply Chain Management (SCM) solutions assist in managing the end-to-end supply chain, including procurement, production, inventory management, logistics, and demand planning. It helps organizations optimize their supply chain operations, reduce costs, enhance collaboration with suppliers and customers, and improve overall efficiency and responsiveness.
- **SAP BW/4HANA:** SAP Business Warehouse (BW) is a data warehousing and analytics solution that enables organizations to collect, transform, and analyze large volumes of structured and unstructured data. BW/4HANA is the version optimized for the SAP HANA platform, providing real-time data processing, advanced analytics, and data modeling capabilities.
- **SAP SuccessFactors:** SAP SuccessFactors is a cloud-based human capital management (HCM) solution that covers various HR processes, including employee recruitment, performance management, learning and development, compensation, and succession planning. It helps organizations attract, develop, and retain talent while aligning HR strategies with business objectives.
- **SAP Ariba:** SAP Ariba is a cloud-based procurement and supply chain collaboration platform. It enables organizations to manage supplier relationships, streamline procurement processes, automate sourcing and contracting, and enhance supply chain visibility and collaboration.
- **SAP's software solutions** are highly configurable and can be tailored to meet specific industry and organizational requirements. They are used by a wide range of industries, including manufacturing, retail, healthcare, finance, utilities, and more.

In addition to its core software offerings, SAP provides services for implementation, training, support, and consulting to help organizations leverage its solutions effectively.

Overall, SAP is a global leader in enterprise software, helping organizations digitize and transform their business operations, improve efficiency, and gain a competitive edge in the marketplace.



## SCADA

SCADA stands for Supervisory Control and Data Acquisition. It refers to a system of hardware and software components used to monitor and control industrial processes, such as power generation, manufacturing, and infrastructure systems.



The main purpose of a SCADA system is to gather real-time data from remote field devices, such as sensors, pumps, valves, and switches, and present it to operators in a centralized control room. Operators can then monitor the process variables, make informed decisions, and issue commands to control the system.

**Key components of a SCADA system include:**

- Remote Terminal Units (RTUs) or Programmable Logic Controllers (PLCs): These are hardware devices located in the field that interface with sensors and actuators. They collect data from the field devices and send it to the central SCADA system.
- Human-Machine Interface (HMI): The HMI is the user interface through which operators interact with the SCADA system. It provides real-time data visualization, alarms, trends, and control functions. The HMI can be a graphical display on a computer screen or a physical control panel.



- **Communication Infrastructure:** SCADA systems rely on a robust communication network to connect the remote field devices to the central control system. This can include wired communication (such as Ethernet or serial communication) or wireless communication (such as radio or cellular networks).
- **SCADA Server:** The central SCADA server collects and processes data from the field devices. It runs specialized software applications that handle data acquisition, storage, visualization, and control functions.
- **Database:** The SCADA system typically includes a database for storing historical data, which can be used for analysis, reporting, and troubleshooting.
- **Alarms and Event Management:** SCADA systems provide functionality for monitoring alarms and events. Operators are alerted when abnormal conditions or system failures occur, allowing them to take appropriate actions.

SCADA systems offer benefits such as increased operational efficiency, improved process control, and enhanced safety. They enable operators to remotely monitor and control processes in real-time, reducing the need for manual intervention and minimizing downtime. It's worth noting that SCADA systems are often connected to wider networks or the Internet, which introduces cybersecurity considerations. Security measures should be implemented to protect against unauthorized access, data breaches, and potential cyber threats. Overall, SCADA plays a crucial role in managing and optimizing industrial processes by providing real-time data monitoring, control, and analysis capabilities.

**Sneha Khatke**

Third Year

Computer Science Engineering

## DIGITAL LIFESTYLE

Digital lifestyle refers to the way individuals integrate technology and digital tools into their daily lives, impacting various aspects of their personal and professional activities. It encompasses the adoption of digital technologies, internet connectivity, and digital services to enhance communication, productivity, entertainment, and overall convenience.

### Key elements of a digital lifestyle include:

- **Connected Devices:** People embrace digital lifestyles by using a range of connected devices such as smartphones, tablets, laptops, smartwatches, and smart home devices. These devices provide access to the internet, enabling communication, information retrieval, and entertainment on the go.
- **Internet and Connectivity:** Access to high-speed internet and reliable connectivity is essential for a digital lifestyle. It enables individuals to stay connected, access online services, stream media content, work remotely, and engage in social networking.
- **Communication and Social Networking:** Digital lifestyles heavily rely on various communication channels, including email, instant messaging, voice and video calls, and social media platforms. These tools facilitate real-time communication, collaboration, and social interaction with friends, family, colleagues, and online communities.



- **Digital Entertainment:** Digital technologies have transformed entertainment consumption. Streaming platforms, online gaming, digital music services, e-books, and digital video content provide individuals with a wealth of entertainment options. People can access and enjoy media content on-demand, personalize their preferences, and share experiences with others online.
- **Online Shopping and E-commerce:** E-commerce has revolutionized the way people shop, enabling online purchases of goods and services. Digital lifestyles embrace online shopping platforms, digital payment systems, and delivery services, offering convenience, a wide range of choices, and personalized shopping experiences.
- **Productivity and Work:** Digital tools and software applications enhance productivity and work efficiency. Cloud storage, project management tools, virtual collaboration platforms, and remote work capabilities enable individuals to work from anywhere, collaborate with colleagues, manage tasks, and access business resources.

- **Personal Health and Fitness:** Digital lifestyle includes the integration of health and fitness tracking devices, mobile apps, and online platforms to monitor personal health, track physical activity, access fitness programs, and maintain overall well-being.
- **Digital Skills and Digital Literacy:** Embracing a digital lifestyle requires individuals to develop digital skills and digital literacy. This includes the ability to use digital tools effectively, critically evaluate online information, protect personal data and privacy, and navigate online platforms safely.

A digital lifestyle offers numerous benefits, such as increased connectivity, convenience, access to information, entertainment options, and flexibility in work and personal life. However, it also raises concerns about digital overload, information overload, digital security, privacy, and the need for balancing online and offline activities.

**Sakshi Bhombe**

Third Year

Computer Science Engineering

## CAMD

CAMD stands for Computer-Aided Manufacturing & Design. It is a technology that utilizes computer software and hardware to automate and control manufacturing processes. CAM systems are commonly used in conjunction with CAD (Computer-Aided Design) systems to create a seamless workflow from design to production.

The primary objective of CAM is to generate machine-readable instructions (often referred to as toolpaths) that guide manufacturing equipment, such as CNC (Computer Numerical Control) machines, robotic arms, or 3D printers, to produce physical parts based on the design specifications.

CAM software provides various capabilities to optimize the manufacturing process, including:

- **Toolpath Generation:** CAM software generates precise toolpaths based on the geometry and specifications of the part to be manufactured. These toolpaths determine the movement and operations performed by the manufacturing equipment, such as cutting, drilling, milling, or additive manufacturing processes.

- **Material Removal Simulation:** CAM systems often include simulation features that allow users to visualize and verify the machining process virtually. Material removal simulations help identify potential issues, such as collisions, tool interferences, or inefficient toolpaths before actual manufacturing occurs.
- **Optimization and Efficiency:** CAM software can optimize the toolpath to improve efficiency and minimize production time. It considers factors like cutting strategies, tool selection, feed rates, and material properties to achieve optimal machining results.
- **Post-processing:** After generating the toolpaths, CAM software translates the information into machine-specific code or instructions, such as G-code, which is understood by the manufacturing equipment. This code is used to control the movements, speed, and actions of the machine during the manufacturing process.
- **Multi-axis Machining:** CAM systems can handle complex machining operations involving multiple axes of movement, allowing to produce of intricate parts with high precision. This includes 3D contouring, simultaneous 4- or 5-axis machining, and other advanced techniques.
- **Integration and Interoperability:** CAM software often integrates with CAD systems, allowing seamless transfer of design data. It also supports various file formats to ensure compatibility with different manufacturing equipment and processes.

CAM technology enables manufacturers to automate and optimize the production process, leading to improved productivity, accuracy, and cost-efficiency. It reduces manual intervention, minimizes errors, and facilitates the production of complex geometries that would be challenging or impossible to manufacture manually.

Common examples of CAM applications include CNC machining, milling, turning, laser cutting, 3D printing, and robotic manufacturing. CAM software packages such as Mastercam, Fusion 360, and SolidCAM are widely used in the industry to facilitate computer-aided manufacturing processes.



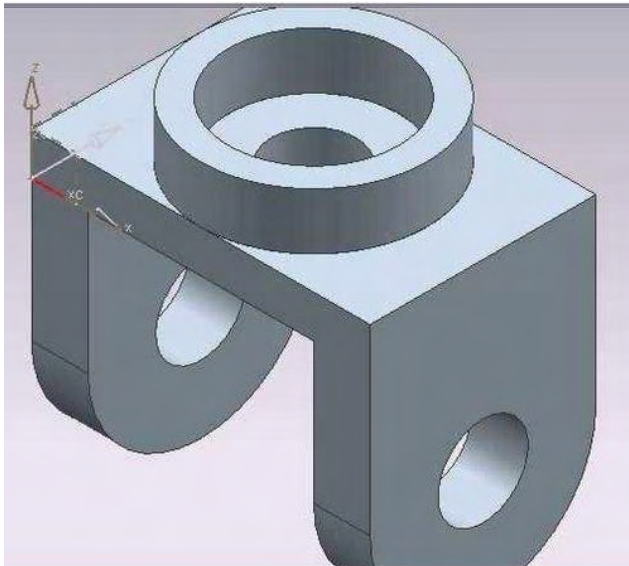
**Divya Sonar**

Third Year

Electronics and Telecommunication Engineering



## UGNX



UGNX also known as Siemens NX or simply NX, is a powerful computer-aided design, manufacturing, and engineering (CAD/CAM/CAE) software package developed by Siemens Digital Industries Software. It is widely used in various industries, including automotive, aerospace, machinery, and consumer products, for designing and manufacturing complex products.

NX offers a comprehensive suite of tools and functionalities that enable users to create, simulate, and analyze 3D models and assemblies. Some key features and capabilities of NX include:

- **3D Modeling:** NX provides robust tools for creating and manipulating 3D models. It supports various modeling techniques, including solid modeling, surface modeling, and parametric modeling, allowing users to develop detailed and realistic representations of their designs.
- **Assembly Design:** Users can create complex assemblies consisting of multiple components and define their relationships and constraints. NX offers tools for managing assembly structures, performing interference checks, and evaluating the kinematic behavior of mechanisms.
- **Simulation and Analysis:** NX incorporates advanced simulation and analysis capabilities, including finite element analysis (FEA) and computational fluid dynamics (CFD). Users can evaluate the structural integrity, thermal behavior, and fluid flow characteristics of their designs, helping to optimize performance and reliability.
- **Manufacturing:** NX includes a comprehensive set of tools for computer-aided manufacturing (CAM). It supports a range of manufacturing processes, such as milling, turning, and additive manufacturing, and enables users to generate toolpaths, simulate machining operations, and generate NC (numerical control) code for machine tools.

- **Product Data Management:** NX provides features for managing product data and facilitating collaboration among team members. It offers tools for version control, document management, and workflow management, helping to streamline the design and manufacturing process.
- **Visualization and Rendering:** Users can visualize their designs in realistic 3D environments using NX's rendering capabilities. It allows for the application of materials, textures, and lighting effects to create visually appealing representations of products.
- **Integration and Interoperability:** NX supports various data exchange formats, ensuring compatibility with other software tools and enabling seamless collaboration with stakeholders using different systems. It also integrates with other Siemens PLM (Product Lifecycle Management) solutions, creating a unified environment for product development and management.

NX is known for its advanced features, robustness, and scalability, making it suitable for both small and large enterprises. It offers a user-friendly interface, extensive customization options, and a wide range of specialized modules and extensions tailored to specific industry needs.

Overall, NX is a comprehensive CAD/CAM/CAE software solution that empowers designers and engineers to bring their innovative ideas to life and streamline the product development process from concept to manufacturing.



**Eisha Nikam**

Second Year

Computer Science and Engineering

## BIOMEDICAL ENGINEERING

Biomedical engineering is a field that combines principles of engineering, biology, and medicine to develop solutions and advancements in healthcare. It applies engineering principles and techniques to address challenges in the diagnosis, treatment, and prevention of diseases, as well as the improvement of overall patient care.

Biomedical engineers work on a wide range of projects and applications, including:

- **Medical Devices:** Biomedical engineers design and develop medical devices and equipment, such as imaging systems (MRI, CT, ultrasound),

- **Biomechanics:** Biomedical engineers study the mechanics of biological systems, such as the human musculoskeletal system or the movement of fluids within the body. They apply biomechanical principles to design assistive devices, rehabilitation equipment, and ergonomic solutions to improve human performance and mobility.



- **Tissue Engineering and Regenerative Medicine:** Biomedical engineers work on developing strategies for tissue engineering and regenerative medicine. This involves creating biological substitutes to repair or replace damaged tissues and organs. Techniques such as 3D printing of tissue scaffolds, stem cell research, and biomaterials are utilized in this area.
- **Biomedical Imaging:** Biomedical engineers contribute to the development of medical imaging technologies that allow non-invasive visualization of the internal structures and functions of the human body. This includes technologies such as MRI (Magnetic Resonance Imaging), CT (Computed Tomography), PET (Positron Emission Tomography), and ultrasound.
- **Biomedical Informatics:** Biomedical engineers are involved in the development and application of informatics tools and technologies for healthcare systems. They work on designing electronic health record systems, medical data analysis, medical imaging analysis, and developing algorithms for disease diagnosis and prediction.
- **Rehabilitation Engineering:** Biomedical engineers develop assistive technologies and rehabilitation devices to help individuals with disabilities or impairments regain or enhance their physical and cognitive functions. This can include designing wheelchairs, prosthetic limbs, brain-computer interfaces, and other devices.
- **Healthcare Technology Management:** Biomedical engineers also play a role in the management and maintenance of medical equipment and

systems in healthcare facilities. They ensure the proper functioning, safety, and maintenance of medical devices and may be involved in training healthcare professionals on the use of new technologies.

Biomedical engineering is an interdisciplinary field that collaborates with medical professionals, researchers, and other engineers to improve healthcare outcomes and contribute to advancements in medical science and technology. It focuses on addressing critical healthcare challenges through innovative engineering solutions, with the ultimate goal of improving patient care, diagnosis, and treatment.



**Sakshi Deshmukh**

Third Year

Electronics and Telecommunication Engineering

## CNC

CNC stands for Computer Numerical Control. It refers to the automation of machine tools through the use of computerized systems. CNC machines are widely used in manufacturing industries for various operations such as cutting, drilling, milling, turning, and grinding.



In a CNC system, a computer program is used to control the movement and actions of the machine tool. The program consists of a series of instructions that specify the desired tool movements, cutting parameters, and machining operations. These instructions are typically written in a programming language known as G-code.



**The main components of a CNC system include:**

1. **CNC Machine:** This is the physical machine tool that performs the desired operations. CNC machines can vary in size and complexity, ranging from small desktop mills to large industrial machining centers. Common types of CNC machines include CNC mills, lathes, routers, plasma cutters, and laser cutters.
2. **Controller:** The controller is the interface between the computer and the CNC machine. It receives the program instructions and converts them into electrical signals that control the machine's motors, actuators, and other components. The controller interprets the G-code instructions and coordinates the movements of the machine tool.
3. **Computer:** The computer is responsible for running the CNC software and generating the G-code program. It can be a dedicated computer specifically designed for CNC applications or a general-purpose computer with CNC software installed.
4. **Software:** CNC software is used to create, edit, and simulate the machining programs. It allows users to design parts, specify tool paths, set cutting parameters, and generate the G-code instructions. Popular CNC software packages include Mastercam, Fusion 360, and Siemens NX.

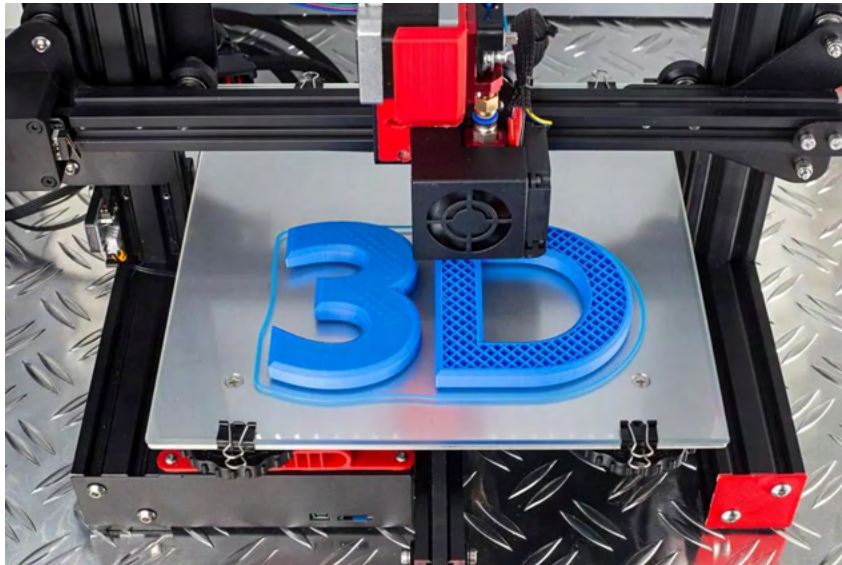
**Advantages of CNC machining include:**

- **Automation:** CNC machines automate the machining process, reducing the need for manual intervention and increasing efficiency.
- **Precision and Accuracy:** CNC machines can achieve high levels of precision and accuracy, ensuring consistent and reliable part production.
- **Flexibility:** CNC machines can be reprogrammed to produce different parts, allowing for quick changes in production without extensive retooling.
- **Complex Geometries:** CNC machines can produce complex shapes and features that would be challenging or impossible to achieve with manual machining.

CNC machining is widely used in industries such as aerospace, automotive, electronics, medical, and furniture manufacturing. It offers numerous benefits in terms of productivity, precision, and efficiency, contributing to the advancement of modern manufacturing processes.



## 3D PRINTING



3D printing, also known as additive manufacturing, is a process of creating three-dimensional objects by layering or adding material in a sequential manner. It involves the conversion of digital 3D models into physical objects through the successive deposition of materials, typically in thin layers.

**The process of 3D printing typically involves the following steps:**

- **Creation of a 3D Model:** The first step is to create or obtain a digital 3D model of the object to be printed. This can be done using computer-aided design (CAD) software or by scanning an existing object using 3D scanners.
- **Slicing:** The 3D model is sliced into a series of 2D cross-sectional layers using specialized software. Each layer represents a thin slice of the final object.
- **Material Preparation:** The appropriate material for the 3D printing process is selected based on the desired properties and requirements of the object. Common materials used in 3D printing include plastics, metals, ceramics, resins, and composites.
- **Printing Process:** The 3D printer receives the sliced digital file and begins the printing process. Depending on the technology used, the printer deposits or solidifies the material layer by layer to build the object. This can be done using various techniques such as fused deposition modeling (FDM), stereolithography (SLA), selective laser sintering (SLS), or binder jetting.

- **Post-Processing:** Once the printing is complete, post-processing may be required to refine the printed object. This can involve removing support structures, sanding, polishing, or applying additional treatments such as painting or coating.

#### **Applications and Benefits of 3D Printing:**

- **Rapid Prototyping:** 3D printing allows for the quick and cost-effective production of prototypes, enabling designers and engineers to test and iterate their designs before mass production.
- **Customization and Personalization:** 3D printing enables the production of highly customized and personalized objects, tailored to specific individual needs or preferences.
- **Manufacturing and Production:** 3D printing is increasingly used for small-scale manufacturing, producing end-use parts and components directly from digital designs, eliminating the need for traditional manufacturing processes.
- **Education and Research:** 3D printing is widely used in educational institutions and research facilities for teaching, experimentation, and creating physical models or replicas for study purposes.
- **Healthcare and Medicine:** 3D printing has significant applications in the medical field, including the production of patient-specific implants, prosthetics, surgical models, and drug delivery systems.
- **Art and Design:** 3D printing has opened up new possibilities for artists and designers, allowing them to create complex and intricate structures and sculptures that would be difficult to achieve with traditional methods.
- **Sustainability:** 3D printing can reduce material waste as it only uses the necessary amount of material for each object, and it can enable localized production, reducing the need for transportation and logistics.

While 3D printing has numerous benefits, it also has limitations such as slower production speeds compared to traditional manufacturing methods, limited material options, and constraints on the size and complexity of objects. However, ongoing advancements in technology are continuously expanding the capabilities and applications of 3D printing.



**Parth Hanuvate**

Third Year  
Mechanical Engineering

## BIOMECHANICS

Biomechanics is the study of the mechanics of biological systems, including the analysis of the structure, function, and motion of living organisms. It combines principles from physics, engineering, and biology to understand how forces and movements affect the human body and other living organisms.

Here are key aspects and applications of biomechanics:

- **Structure and Function:** Biomechanics examines the relationship between the structure and function of biological systems. It investigates how the design and arrangement of bones, muscles, tendons, ligaments, and other tissues contribute to the overall function and movement of the body.
- **Kinematics:** Biomechanics analyzes the motion of organisms and body segments. It studies concepts such as position, velocity, acceleration, and trajectories to describe and quantify movements. Kinematic analysis is used to understand gait patterns, joint movements, and other biomechanical aspects of human and animal locomotion.



- **Kinetics:** Biomechanics investigates the forces and torques that act on the body during motion. It examines how these forces are generated, transmitted, and absorbed by various body structures. Kinetic analysis helps in understanding the forces involved in activities such as running, jumping, throwing, and lifting.
- **Muscle Mechanics:** Biomechanics explores the mechanical properties and functions of muscles. It studies how muscles generate force, produce joint movements, and contribute to stability and control. Muscle mechanics plays a crucial role in understanding human performance, rehabilitation, and ergonomics.
- **Injury Prevention and Rehabilitation:** Biomechanics is utilized to analyze and prevent injuries related to sports, work, and daily activities. It helps identify risk factors, develop protective equipment, and design rehabilitation programs based on a better understanding of the forces and stresses experienced by the body.



- **Prosthetics and Orthotics:** Biomechanics contributes to the design and development of prosthetic limbs and orthotic devices. By studying the biomechanics of human movement and considering factors such as stability, control, and energy efficiency, researchers can improve the design and functionality of assistive devices.
- **Sports Performance Analysis:** Biomechanics is employed in sports science to analyze and optimize athletic performance. It examines the mechanics of sports movements, such as running, jumping, throwing, and swimming, to identify techniques, strategies, and training methods that enhance performance and minimize the risk of injury.
- **Ergonomics:** Biomechanics is used to study human interaction with the environment, equipment, and tools. It helps design workstations, tools, and equipment that promote efficiency, comfort, and safety, considering factors such as body posture, joint loading, and muscle activation patterns.
- **Computational Modeling:** Biomechanics utilizes computational models and simulations to analyze and predict the behavior of biological systems. These models can simulate movement, analyze the effects of forces and loads, and provide insights into complex biomechanical phenomena.

Biomechanics is an interdisciplinary field that finds applications in various domains, including sports science, clinical research, rehabilitation, ergonomics, and medical device design. By understanding the mechanics of biological systems, researchers and practitioners can improve performance, prevent injuries, and enhance the overall well-being of individuals.

**Yogesh Sangle**Third Year  
Information Technology

## **IBOC (IN-BAND ON-CHANNEL)**

IBOC (In-Band On-Channel) technology, also known as HD Radio, is a digital broadcasting technology used in the United States and some other countries to transmit radio signals. It allows radio stations to broadcast both analog and digital signals simultaneously on the same frequency, providing enhanced audio quality and additional features compared to traditional analog radio.

**Here are some key aspects of IBOC/HD Radio technology:**

1. **Digital Audio Broadcasting:** IBOC technology enables the transmission of digital audio signals over the existing analog radio frequency. This digital transmission improves audio quality by reducing noise, fading, and interference that can affect analog broadcasts.
2. **Hybrid Mode:** HD Radio operates in a hybrid mode, where both analog and digital signals are transmitted simultaneously. This allows existing analog radios to receive the analog signal, while compatible HD Radio receivers can decode the digital signal for enhanced audio quality and additional features.
3. **Audio Quality:** HD Radio offers improved audio fidelity compared to analog radio. The digital audio is encoded using advanced compression algorithms, such as the proprietary HDC codec, which provides clear, artifact-free sound with a wider frequency range.
4. **Additional Channels:** One of the advantages of IBOC technology is the ability to transmit additional digital channels, known as HD2, HD3, and so on. These additional channels can carry extra programming content, such as niche music genres, talk shows, or other specialized content, providing more choices to listeners.
5. **Data Services:** HD Radio supports data services alongside audio broadcasting. This allows radio stations to provide supplementary information to listeners, including artist and song information, station logos, traffic updates, weather forecasts, and other data services on compatible receivers.
6. **Backward Compatibility:** IBOC technology is designed to be backward compatible, meaning that existing analog radios can still receive the analog signal as they did before. However, to access the digital benefits, listeners need HD Radio receivers.
7. **Adoption and Availability:** HD Radio technology has been adopted by numerous radio stations in the United States. As of my knowledge cutoff in September 2021, HD Radio receivers are widely available in the market, including standalone receivers, car radios, and portable devices.

It's important to note that the adoption and availability of IBOC/HD Radio technology may vary in different countries and regions. Additionally, other countries may have their own digital radio standards, such as DAB (Digital Audio Broadcasting) used in Europe.



## METAMORPHIC ROBOTS



Metamorphic robots, also known as self-reconfigurable robots, are robotic systems that have the ability to change their physical structure or shape in order to adapt to different environments or perform a variety of tasks. These robots possess modular components or modules that can be reconfigured or rearranged to create different robot morphologies.

**Key characteristics and concepts related to metamorphic robots include:**

- **Modular Design:** Metamorphic robots are composed of multiple modules that can be interconnected or combined in different ways to create various robot configurations. These modules typically have standardized interfaces that allow them to be easily connected or disconnected.
- **Self-Reconfiguration:** The main feature of metamorphic robots is their ability to autonomously or semi-autonomously change their configuration or shape. This can involve rearranging modules, adding or removing modules, or changing the connections between modules.
- **Adaptability:** The self-reconfiguration capability of metamorphic robots allows them to adapt to different environments or tasks. By changing their physical structure, they can optimize their locomotion, manipulation, or sensing abilities for specific situations.
- **Redundancy and Fault Tolerance:** Metamorphic robots often have redundant modules, meaning that they have more modules than are strictly necessary for a specific configuration. This redundancy provides fault tolerance, as the robot can reconfigure itself to bypass or compensate for damaged or malfunctioning modules.
- **Morphological Computation:** The change in robot shape or configuration in metamorphic robots is not only a means of adaptation but also a form of computation.

- The robot's physical structure affects its interaction with the environment and can be used to perform computations that would otherwise require complex algorithms or computations.

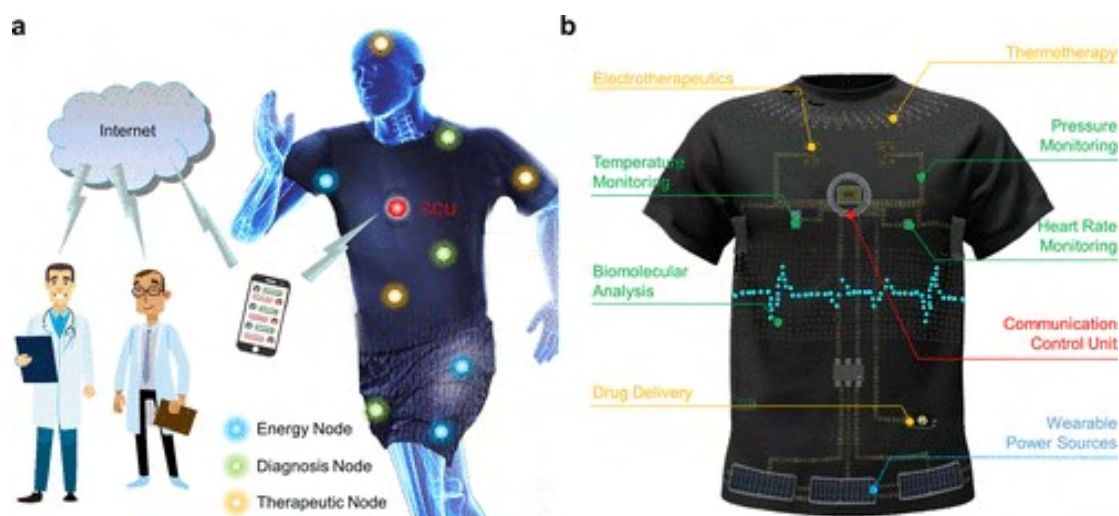
#### **Applications and Benefits of Metamorphic Robots:**

1. **Exploration and Search:** Metamorphic robots can adapt their morphology to navigate diverse environments, such as rough terrain, confined spaces, or underwater environments. They can change their configuration to optimize locomotion or sensing capabilities for efficient exploration and search tasks.
  2. **Disaster Response:** The adaptability of metamorphic robots makes them suitable for disaster response scenarios. They can reconfigure themselves to traverse debris, enter narrow spaces, or perform various manipulation tasks required for search and rescue operations.
  3. **Space Exploration:** In space missions, metamorphic robots can change their morphology to adapt to different tasks and environments, such as climbing, crawling, or rolling on planetary surfaces, or reconfiguring for specific scientific experiments or repairs.
  4. **Manufacturing and Assembly:** Metamorphic robots can be used in manufacturing and assembly tasks where adaptability and versatility are desired. They can reconfigure themselves to perform different assembly operations, adapt to varying workpieces, or optimize their motion planning for specific manufacturing tasks.
  5. **Education and Research:** Metamorphic robots offer a platform for educational purposes, allowing students to learn about robotics, modular systems, and adaptive behavior. They also serve as a research tool for studying self-reconfiguration, morphology-driven behavior, and decentralized control strategies.
- Metamorphic robots present unique challenges in terms of control, planning, and coordination due to their changing configurations. However, their ability to adapt to various situations and environments makes them promising for applications where traditional rigid robots may face limitations. Ongoing research and advancements in the field continue to explore new design principles, control strategies, and applications for metamorphic robots.





## E-TEXTILES



- E-textiles, also known as electronic textiles or smart textiles, are fabrics or textiles that integrate electronic components and functionalities. They combine the functionality of electronics with the comfort and flexibility of textiles, enabling the development of wearable technologies and interactive textile-based products.
- Here are some key aspects and components of e-textiles:
- **Conductive Materials:** E-textiles utilize conductive materials, such as conductive yarns or threads, conductive fabrics, or conductive inks, which can transmit electrical signals. These materials are typically incorporated into the fabric through weaving, knitting, printing, or coating processes.
- **Electronic Components:** E-textiles incorporate electronic components, such as microcontrollers, sensors, actuators, LEDs, or other miniaturized electronic devices. These components can be integrated directly into the fabric or attached to the fabric using techniques like sewing, bonding, or lamination.
- **Flexibility and Durability:** E-textiles are designed to be flexible, stretchable, and comfortable to wear. They can withstand bending, twisting, and movement without damaging the electronic components. Specialized textiles, conductive coatings, or encapsulation techniques are used to enhance the durability of e-textiles.
- **Power Supply:** E-textiles require a power source to operate their electronic components. This can be achieved through various means, including small batteries, rechargeable batteries, energy harvesting techniques (such as

solar cells or kinetic energy harvesting), or even conductive textiles that can transmit power.

- **Integration and Connectivity:** E-textiles can be integrated with other electronic devices or networks to enable communication and data exchange. This can include wireless connectivity like Bluetooth or Wi-Fi, allowing e-textiles to interact with smartphones, computers, or other external devices.
- **Applications of E-textiles:** E-textiles find applications in various domains, including:
  - a. **Wearable Technology:** E-textiles enable the development of wearable devices such as smart clothing, fitness trackers, health monitoring systems, or gesture-controlled garments.
  - b. **Fashion and Design:** E-textiles open up new possibilities for fashion designers to create interactive, illuminated, or shape-changing garments.
  - c. **Healthcare:** E-textiles are used in medical applications, such as smart bandages, sensing garments for patient monitoring, or rehabilitation and assistive devices.
  - d. **Sports and Performance:** E-textiles can be used in sports apparel to monitor athletes' performance, track biometric data, or provide feedback on body movements.
  - e. **Safety and Protection:** E-textiles can incorporate sensors to detect environmental conditions, monitor vital signs, or provide early warning systems for hazardous situations.
  - f. **Automotive and Aerospace:** E-textiles are utilized in vehicle interiors, aircraft seats, or protective clothing for workers in these industries.

E-textiles continue to advance with ongoing research and development efforts. Efforts are being made to improve the integration of electronics into fabrics, increase the functionality and efficiency of e-textiles, enhance their washability and comfort, and explore new application areas. E-textiles have the potential to revolutionize industries and contribute to the development of innovative wearable technologies that seamlessly integrate into our daily lives.



**Yuraj Harne**

Third Year  
Mechanical Engineering

## E-BOMB



An "e-bomb" is a colloquial term used to refer to an electromagnetic bomb, also known as an electromagnetic pulse (EMP) weapon. It is a hypothetical weapon that is designed to release a powerful burst of electromagnetic energy capable of disrupting or damaging electronic systems over a wide area.

Here are some key points about e-bombs or electromagnetic pulse weapons:

- **Electromagnetic Pulse (EMP):** An electromagnetic pulse is a short burst of electromagnetic energy that can interfere with or damage electronic devices and systems. It can be generated by various means, including nuclear explosions, non-nuclear devices, or high-power microwave devices.
- **Disruption of Electronics:** An e-bomb or EMP weapon is designed to create an intense EMP that can disrupt or disable electronic systems within its range. This can include power grids, communication networks, transportation systems, and various electronic devices.
- **Different Types of EMP:** There are two main types of EMP: high-altitude EMP (HEMP) and non-nuclear EMP (NNEMP). HEMP is generated by a nuclear explosion at high altitude, while NNEMP is created by non-nuclear means such as specialized high-power microwave devices.
- However, the potential impact on civilian infrastructure and society has also raised concerns about the potential for widespread disruption and the need for protective measures.
- It is important to note that e-bombs or EMP weapons are primarily discussed in theoretical or conceptual terms, and their actual development and deployment remain a subject of ongoing debate and research. The technology and capabilities associated with such weapons are complex and have significant implications, both in terms of military strategy and the potential impact on civilian infrastructure.



**Pawan Bhagat**

Third Year

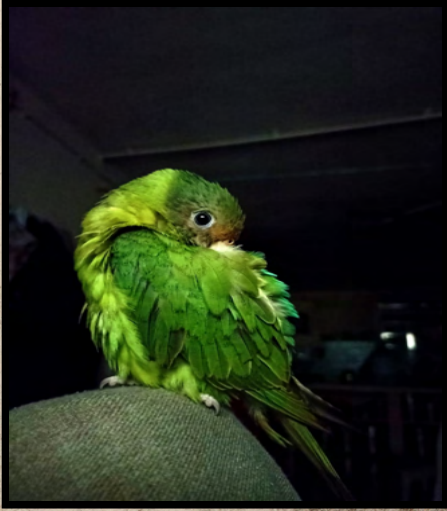
Electronics and Telecommunication Engineering





# Photography Section

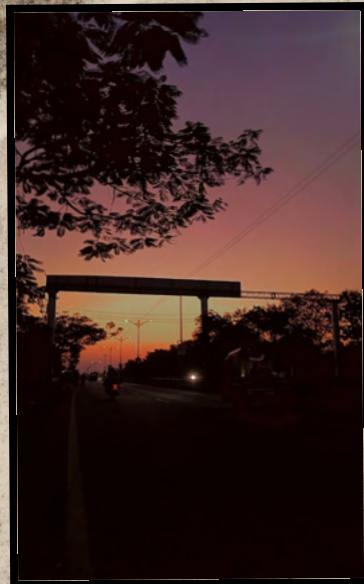




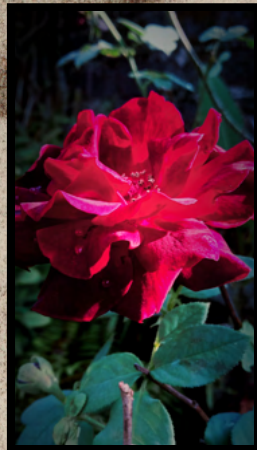
- Snehal Kubade



- Vedanti Polkat



- Shreya Tiwari



- Janhavi Bire





- Kunal Pisudde



-Devendra Sawdekar





- Nikita Warade



- Sanskar Dubey



- Vaishnavi Hiwrale



-Apurva Patil





-Krutika Kulkarni





-Nitish Vaidya



-Swayamchandra Khadse



# PAINTINGS

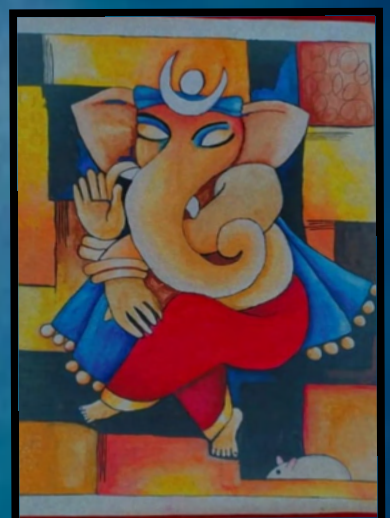
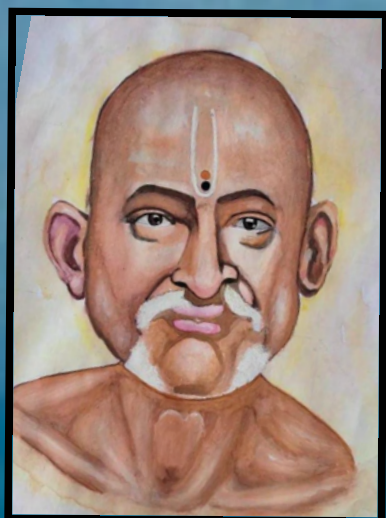
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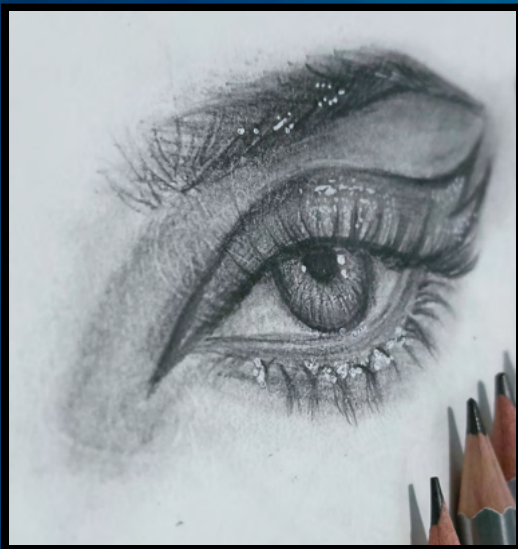


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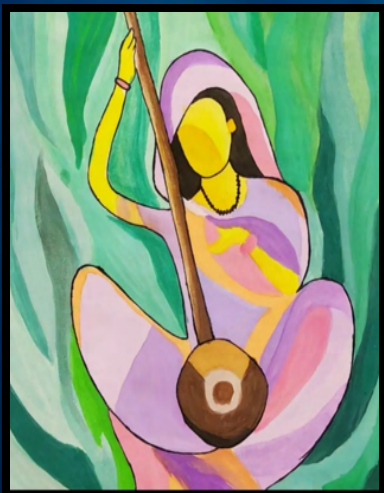


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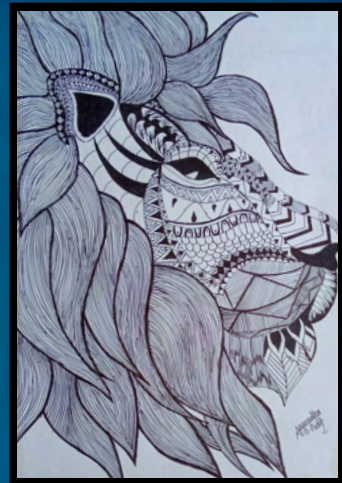
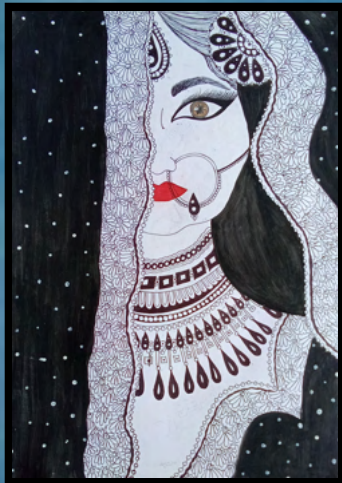


-Rushadi Gaidhane



-Garima Agrawal

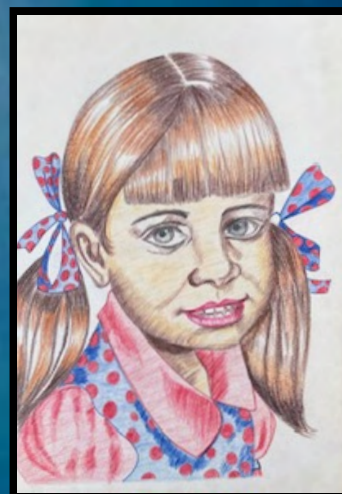




-Anuradha Itkhede

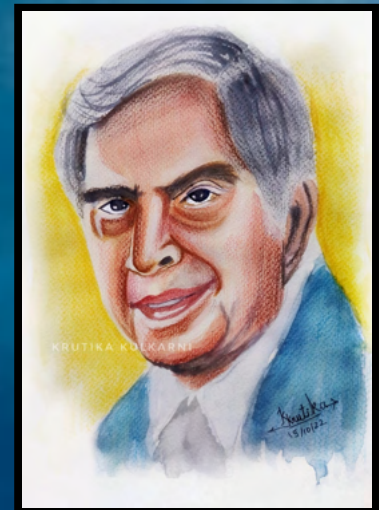
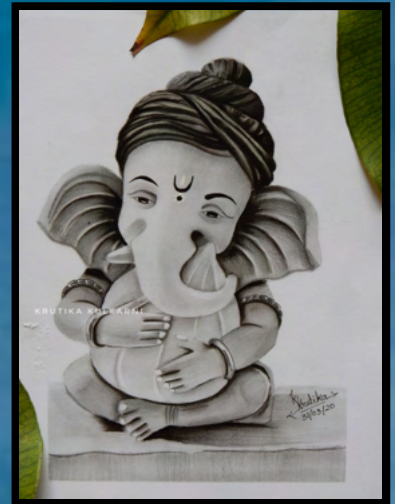
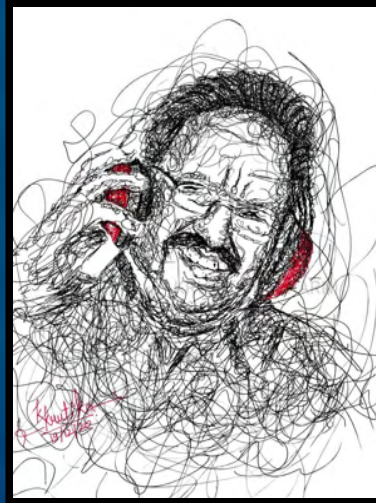
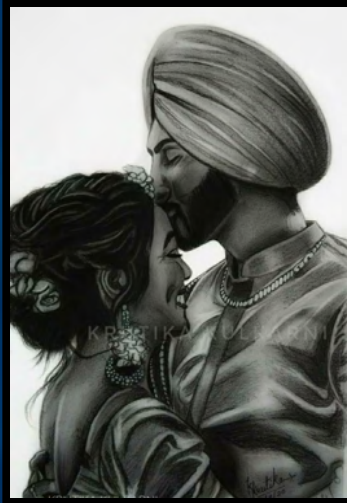


-Jayant Joshi



-Madhuri Chandwani





-Krutika Kulkarni

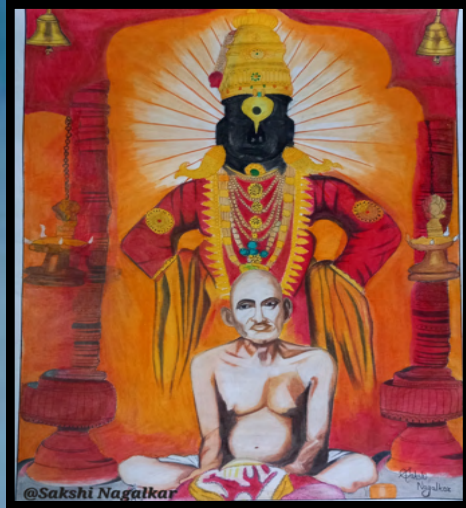




-Shruti Kashikar



-Niharika Dagaonkar



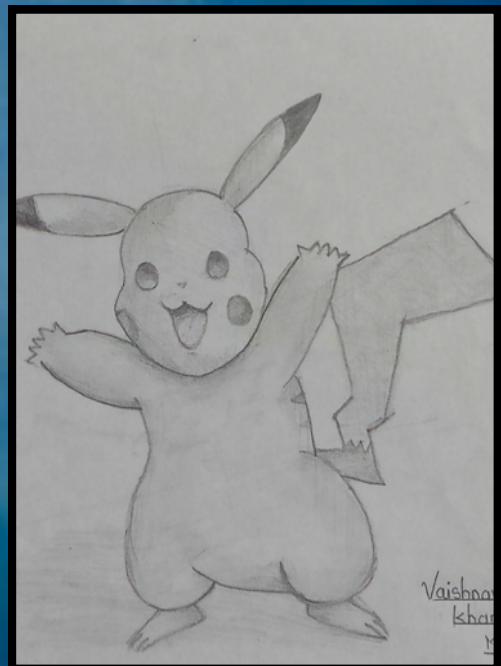
-Sakshi Nagalkar



-Mahesh Jadhao

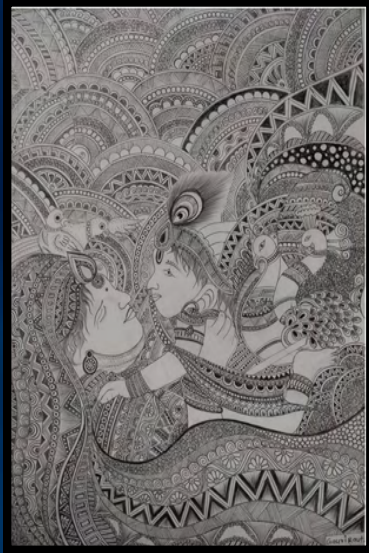


-Vaishnavi Dhumale



-Vaishnavi Khandare





- Gauri Raut



- Shruti Kopyakwar



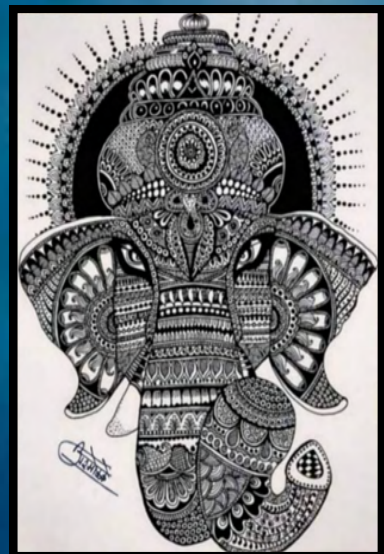
- Atharva Wankhede



- Guari Sambhare



- Vaishnavi Landge

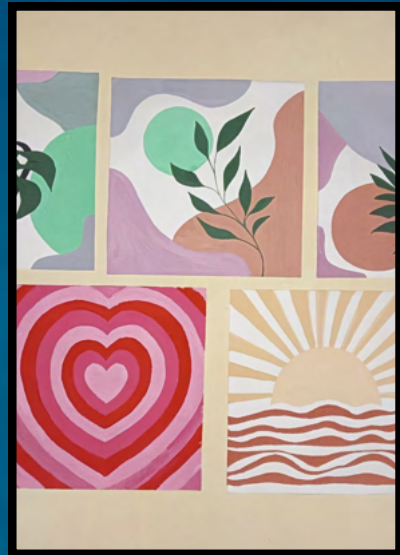


- Amit Molke





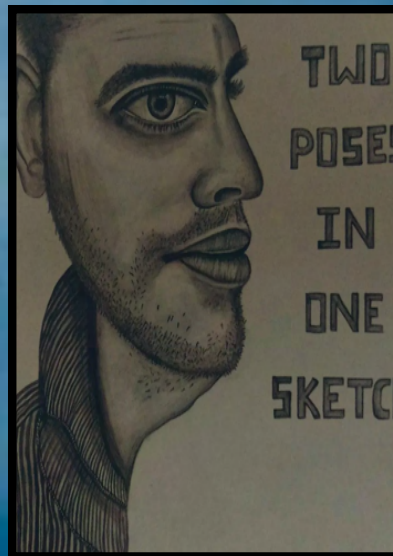
- Kalyani Gadekar



- Laxmi Hargunani

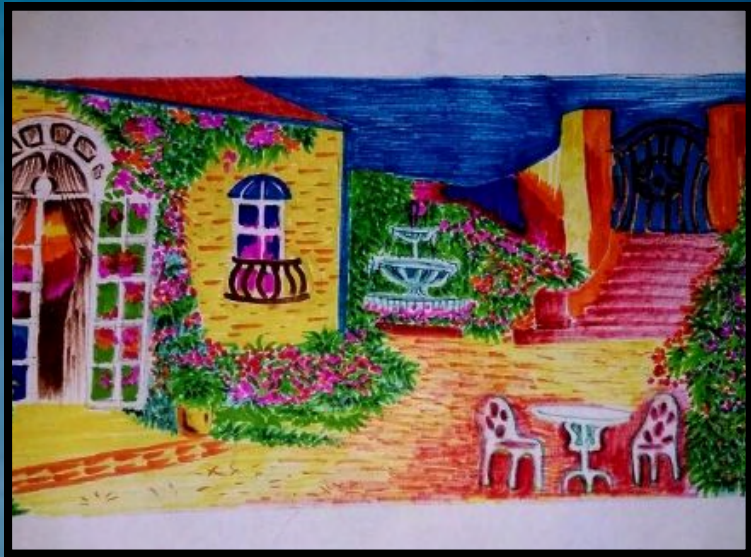


- Nikita Warade

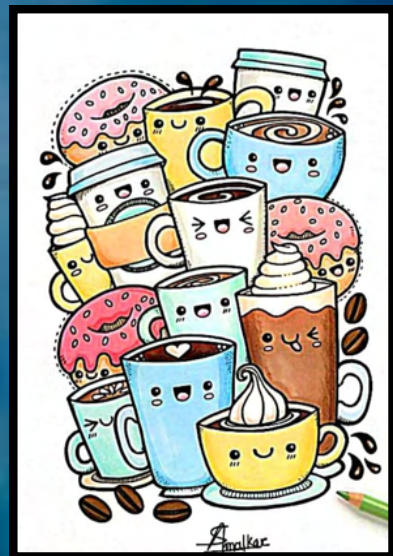
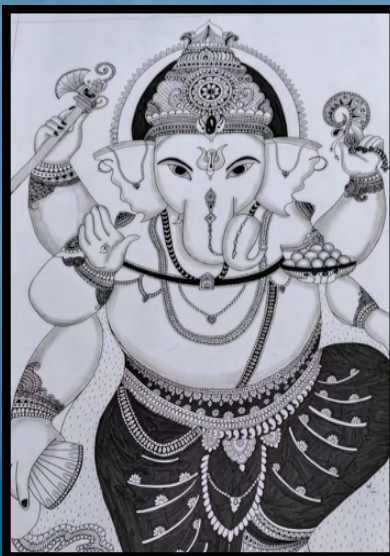


- Janhavi Bire





- Bhumika Deshmukh

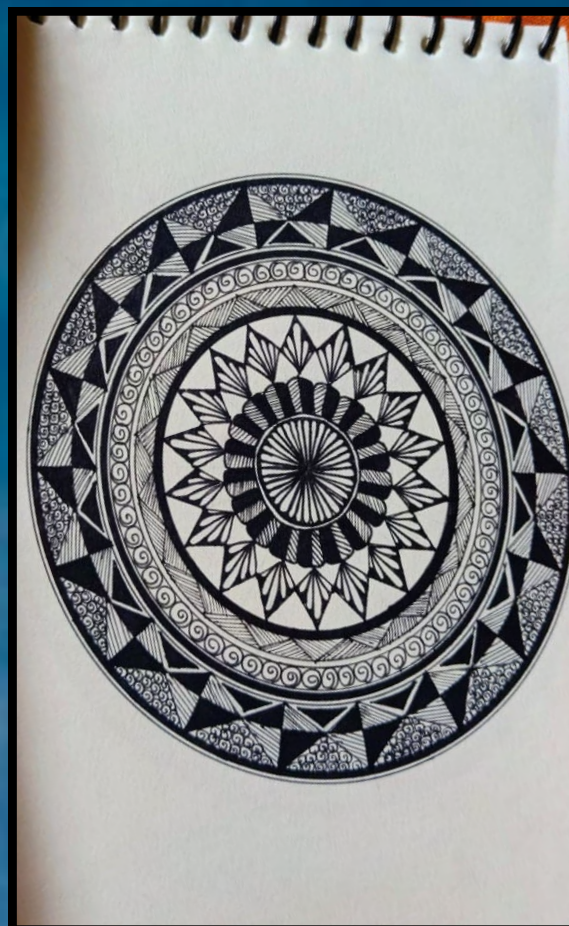


- Shreya Tayade

- Shruti Chaudhari

- Shraddha Amalkar





- Shrushti Rinde





# REPORT

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## SECTION



## ADMINISTRATIVE OFFICE PROFILE-2022-23

For more than three decades, SSGMCE has successfully nurtured young Indians in engineering and managerial professions for the betterment of society and humanity as a whole. The institute is well known for its visionary management, dedicated and devoted faculty, state-of-art infrastructure and discipline. It is also known for all round development of student's personality with distinct value based spiritual environment. SSGMCE is considered as one of the best in the region and it holds the strength to be accountable for the content and quality of education. The institute has its own vision and mission to steer it to become one of the best institute in the region.

The campus environment keeps abreast of the latest advancement in the respective domains and endeavors to develop student scientists of high quality. Graduates from SSGMCE are much sought after by companies in India and many have secured admission in prestigious institutions and companies abroad.

It is the first self-financed engineering college in Vidarbha amongst all colleges of the region to have obtained Accreditation from National Board of Accreditation - NBA in 2001, followed by reaccredited five times in 2005, 2009, 2013, 2019 & 2022. The institute was also accredited by NAAC (National Assessment and Accreditation Council) in 2003 and re-accredited in 2010 for five years.

The institute has well equipped Central Administrative Office which covers all the administrative work of all the students and faculty. The Record Keeping of all the students and faculty is well maintained in the Administrative office. The college has dedicated scholarship committee in which Merit Scholarship, Donors Scholarship, Award to GATE Scorer, Award to Best Project and Sport Award is being distributed every year. This year 2021-22 total 367 were benefitted. The awardies are as follows:

07 students in Poor and Weaker Section and a part of their college fees (Rs. 4,02,741/- ) is reimbursed

195-Merit Scholarship,

71-Donors Scholarship,

11-Award to GATE Scorer,

56- Awards to Best Projects,

04-Students awarded Sports

23 students are selected for the Hostel and Annual Mess Fees waiver Scheme.

The amount worth Rs. 17, 29214/- is being distributed amongst all above beneficiaries students. Besides Government of India/Government of Maharashtra Caste quotas, Scholarship and Freeship are also served through the administrative office. For the academic year 2022-2023, 1941 students are on a roll out of with 818 are girl students.

All the students & their parents/guardian are insured under Accidentant Insurance scheme.

In Summer-2022 Examination conducted by university, students of SSGMCE excelled in University examinations. 11 students from ELPO, 06 students from EXTC, 03 students from CSE, 10 students from IT, and 04 students from MECH were present in University merit list. Students of SSGMCE participated in intercollegiate Technical events, sports and co-curricular activities with zeal and enthusiasm and achieved a remarkable performance.



**Prof. A. V. Patil**

Registrar

## DEPARTMENT OF ELECTRICAL ENGINEERING

Department of Electrical Engineering offers a state of art facilities for UG & PG education and research in Electrical Engineering. Department has fifteen highly qualified, experience and dedicated faculty members, 235 students and fourteen supporting staff. To impart the practical knowledge to student department has well equipped ten laboratories, Advanced Solar Research Centre and CoE in Electric Vehicle.

Electrical Engg Department has strong bonding with leading Core Industries like Adani Electricity, Tata Power, ABB, Siemens, Mitsubishi (India), Torrent Power and various Multinational IT companies. These Industrial relations facilitate the student for their project work, Internships and Placement opportunities.

Department of Electrical Engineering developed a Centre of Excellence in Electric Vehicle in our college campus in association with ISIE India. The Certificate course in Solar PV System proposed by department under the guidance of Dr. S. R. Paraskar & Dr. A. K Damral is approved by SGB Amravati University under Skill Development Programme.

Ms. Pallavi Arbat from final Year BE Electrical secure a first position in the merit list and won the Gold Medal from SGB Amravati University in Summer 2022 examination. Total eleven students from final year BE Electrical secure a position in the SGB Amravati University Merit list.

Forty-five students from final Year BE Electrical (2023 batch) got placement in various reputed industries like ABB Ltd Nashik, Adani Electricity Mumbai, Torrent Power Mumbai, TCS Pune, Universal Transformer, Capgemini Pune, Hexaware Technologies, Wipro Pune, etc.

Ms. Jayashree Shette student of second year Electrical won the gold medal at National level and bronze medal at international level competition in Boxing. Other fourteen student from electrical department were participated and winner /runner at university level in cricket, Kho-Kho, Badminton & Chess.

Fifty-four students from third & final year BE electrical were undergone the Industrial Training at TPSDI, Mumbai in the month of November 2022. Forty-four students along with two supporting staff members were successfully completed the one week in-plant training at Adani Thermal Power Station Dahanu in the month of July 2022. Three project groups from final year Electrical were participated and demonstrate their projects in student project convection 'Aavishkar 2022' at university level.

Dr. S. R. Paraskar worked as an Editor & Reviewer for books published by BP International 27, old Gloucester street, London (UK). Mr. P R Bharambe, PhD scholar from department won the first price at university level Research Project Competition "Aavishkar 2022" held on 16-17 December 2022 under the guidance of Dr S. R. Paraskar & Dr. S. S. Jadhao. He also received the Best paper Award in AICTE Sponsored Springer International Conference on REEDeV held on 16 -17 September 2022 at SVPCOET Nagpur. The faculty members of department published fourteen research papers in various reputed International Journals and Conferences. They also participated in twenty-nine AICTE/ISTE approved online FDPs, STTPs and Workshops as well as for online courses on NPTEL, SWAYAM & Wadhwani foundation to upgrade their domain knowledge and life-long skills.



Department organized Three-day training program on Basics of Electrical Power System for ITI students free of cost under Community Development cell. Department has Student chapter of Institution of Engineers (India) for organizing various cocurricular activities for all round development of students. This student chapter organized four expert lectures from the eminent personalities from Industries and senior Alumni on Emerging topics and two workshops, quiz and competitions to improve the technical knowledge and update the students with recent developments in the field of electrical engineering as well as to aware them about carrier opportunities. Also, they Organized a hands-on training program on Python in the month of March & April 2023.

**Dr. S. R. Paraskar**Head  
Electrical Engineering

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

- The result of CSE department of UG and PG was up to mark and one of our P.G. Student Ms.Sakshi Deshmukh has acquired position in University Merit list also Our three students of UG 1) Ms.Gargi Tela 2) Aman Sahu 3) Gauri Mahalle also flashed in Merit List.
- In session 2022-23 we have placed our 37 students in multinational companies and the process of placement is still going on for remaining students.
- In session 2022-23 our total 56 students had completed internship form various multinational companies with stipend.
- In Session 2022-23 total 98 students have registered for NPTEL/MOOCs & also students has completed courses with certification.
- Three Days “Hands On Workshop on Python” has organized for all students of CSE & IT from 21st to 23rd November 2022 by Resource person Mr.Anup Khelkar (Python Academy, Nagpur). While total 60 Students were participated in this workshop.
- Students Chapter under CSESA in Collaboration with IIC had organized two days ‘Workshop on “Web Development” on 7th and 8th Jan2023, by Third Yr Students (Abhishek Gawali & Nikhil Babhulkar). Total 19 Students were participated.

- In Pursuit 22-23 student's chapter CSESA has organized Workshop on UI/UX Designing 34 students participated. Also a technical event "WEB-ETHON" has been conducted total 14 students has taken active participation in it.
- One Week "Hands On Workshop on Blockchain" has organized by department for Third Year Students from 18th March to 24th March'23 by our Alumni as Resource Person " Mr.Saurav Suman" .Total 21 students has participated .
- In this Session 2022-23 one of our Faculty Prof.J.M.Patil had submitted his Ph.D. Thesis for final defense in the SGBAU, Amravati.
- In this Session 2022-23 total 05 PhD Scholar Students have been registered for Ph.D. Under the Supervision of Dr.N.M.Kandoi.
- Technical paper was published by faculty members of CSE department S.B.Pagrut, Dr.S.B.Patil, Dr.S.A.Bothe, on "Review on Research Possibilities in Use of UAV for plant Protection and Variable Spraying".( An UGC Care Approved Group-II).

**Dr. J. M. Patil**

Head

Computer Science &amp; Engineering

## DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

The Department of Electronics and Telecommunication Engineering (EXTC) is committed to the advancement of the frontiers of knowledge in Electronics and Telecommunication Engineering to provide the students with a stimulating and rewarding learning experience. The UG program of the department is accredited by NBA fifth time with full accreditation (6 years).

The department has good liaison with Industry and has been involved in the development of the sponsored projects/Technologies. Department is working hard to bridge up the gap between Industry and Academics also conducting various skill development courses to meet the Industry requirements. The department is strong with senior and qualified faculty members who are experts in various fields of Electronics & Telecommunication Engineering field.

The department is being one of the main branch of engineering with devoted teaching staff, non-teaching staff and students.

The faculty members of the department are well qualified from national and international reputed institutes like IITs, NITs and recognized universities. It has a strength of 22 teachers, 5 lab assistants, 6 supporting staff and 463 (UG+PG) students. The SGB University recognizes all the laboratories as research labs.

Currently in the department 09 faculty members are Ph.D. qualified from IITs, NITs and recognized Universities, 7 faculty members are pursuing their PhD and 6 faculty members are PG (Engineering). Two faculties of the department became “Senior IEEE member”. Some of the faculty members of department are reviewers of SCIE, SCI, Scopus indexed and other international reputed journals and conferences.

The students have been appeared for competitive exams like GATE and CAT. The department is collaborated with distinguished industries. The department has organised 02 workshops, 05 workshops, IEEE student conference and other different skill programs for the overall development of the students. To develop the students educational and social skills there are committees like IEEE, ISTE, NSS and NCC etc. This year also, the department has received ‘Atal academic grant’ of worth Rs. 93,000/- for the purpose of faculty development program.

The students of the department participate in the various technical and non-technical competition to enhance their skills. The final year students have participated and secured first prize in “AAVISHKAR 2023” held by SGBAU, Amravati. Total 106 students out of 120 students from the department are selected in national and multinational industries during the year 2021-22. The final year students have used their knowledge and skills to complete their innovative and interdisciplinary projects. The students of the department have undertaken internship of DRDO, reputed Industries and institutes.

Time to time, with the kind guidance and support of the management, the students, faculty and staff members progressing continuously and serving the society in the various aspects.



**Dr. M. N. Tibdewal**

Head

Electronics and Telecommunication Engineering



## DEPARTMENT OF MECHANICAL ENGINEERING

The Mechanical engineering department has unique facilities such as CNC centre, Advance Welding Centre, CFD Centre, Photo Elasticity Lab and many more. Department has 16 faculty members and 26 supporting staff members. University result of the department of class 2M, 3M & 4M is 17%, 55%, & 82% respectively. Around 40 students from final year got placed in various reputed industries. The Mechanical Engineering department always strives for all around development of the students by carrying out various curricular and extracurricular activities.

### Programs organized by Department:

- A Guest Lecture organized on "EV for Engineers, Career and Research Opportunity" on 06th October 2022 by Dr. Nishikant V. Deshpande, Adjunct Professor of Practice, VNIT, Nagpur. This lecture is for students & staff of Mechanical & Electrical Engineering department.
- A Guest Lecture organized on "Expectation of Industry from Young Engineers" by Mr. Jagdish Wadhokar & Mr. Parasnis, Wadhokar Groups Ltd. Pune. This guest lecture organized for second year students during 03rd January 2023.
- Department organized online webinar on "Introduction to Boundary Layers Theory" by Dr. Sagar N. Agnihotri, Researcher, Uppsala University, Sweden. on 04th January 2023 for second year students.
- A Guest Lecture organized by Mr. Ajay Kumar Bhole, Chief Superintendent, Nuclear Power Corporation of India, Kakrapar, Gujrat on "Nuclear Power Generation & Safety Features" on 27th March 2023 for third & final year students of Mechanical Engg.

### Programs attended by faculty members of the Department:

- FDP attended – 12
- NPTEL attended – 01



**Dr. S. P. Trikal**

Head  
Mechanical Engineering

## DEPARTMENT OF INFORMATION TECHNOLOGY

As of today, in the department of Information Technology we have a total of 09 faculties working. The Result of Summer-2022 of Final Year Information Technology was outstanding. At the university level 10 students held positions in the order of Merit viz. Kshitij K.Khillare, Ishita S. Koradia, Vaishnavi S. Kanherkar, Pratik G. Bondre, Ku. Pranjali P. Pande, Ku. Radhika S. Jadhav, Om S. Masne, Ayush S. Batra, Shrushti S. Deshpande, Mamta D. Rajput.

### ITSA Activities

#### **Events Under ITSA :**

- Conducted Interviews for Formation of ITSA Team for session 2022-23
- Conducted Brainiac 2023 Competition under ITSA
- Conducted A two day workshop "Hands on TABLEAU" on 25th and 26th of Feb. 2023
- Conducted Expert Talk on "Robotic Process Automation"
- Conducted Event Name 'Technofesta' and workshop 'Introduction to python with data science'

### Internship

This year 23 students have completed their internships from various companies.

### Lighthouse

Total 03 Student's (Mr. Saurav Wankhade, Mr, Nikhil Babhulkar, Sanket Gode) has received internship from onesmarter, Inc under project Lighthouse. Mr. Saurabh Gayakwad received one Smarter Academic Scholarship.

### Sponsored Project

This year students received Project Sponsorship: 1)PP Media Solutions Gokulpeth, Nagpur 2) Aavishkar Sanskruti & Apang Sanstha, Nagpur 3) Shree Trading Company, Nagpur 4) Ideal Coaching Classes, Washim 5) SCIARC-TBI Shegaon

### Consultancy Project

This year students provided project consultancy services : 1) Sharma Goods Transport Services, Malkapur 2) Ritesh Honda Bike Showroom, Mahagaon 3) Creation Gurukool Ramgarhwa, Bihar 4) Kohinoor Restaurant of Shantanu, Kindre, they generated total revenue of Rs. 34,000/- through consultancy.

**Mozila Club****Event under Mozila club :**

- Student Awareness session on “AWS Cloud Artchitecturing” 27th Feb. to 02 March 2023.
- Expert talk on “Industry 4.0” by Ms. Medha Deshpande head of IoT platform at expert global solutions, Aurangabad.
- Chat GPT chalange a student Competition Encourage Exploration of Applications of ChatGPT/BARD/Other AI Solution One Smarer, Inc. on 31st March 2023.
- Two days workshop on “3D modeling in AR/VR using blender software” in pursuit 2023 on 21st April 2023.

**ACM Student Chapter Activities**

- A Webinar on “Career Opportunities after Engineering” by Mr. Arjun Chhabra, Faculty at ACE | Motivational Speaker | 5 Times GATE Qualified | M. Tech Structural Engineering | 4+ Yrs. of GATE/ESE/PSU Teaching Experience on 10th December 2022, 80 students were benefited.
- Free Live Virtual Program “Data Analytics/ Business Analytics using Power BI and Tableau” in association with ExcelR Solutions from 2nd January 2023 to 23rd January 2023.
- A Webinar on “Roadmap for Admission to Post Graduation (MS) in USA/ UK” by Mr. Siddhant Gupta, Graduate Research Assistant and MSCS student at University of Maryland Baltimore County, Maryland, United States on 17th February 2023, 62 students were benefited.
- Prof. S. D. Padiya (Faculty Sponsor) and Mr. Ubai Badri (Chairperson) participated in ACM India Student and Professional Chapter Summit 2023 at IISER, Pune, Maharashtra on 20th and 21st January 2023.
- A national level Valorant E-Sports Tournament “Enigma 3.0” under a national level technical symposium “Pursuit-2023” on 7th and 8th April 2023, 12 teams were benefited.
- A national level workshop “Introduction to Web Development” under a national level technical symposium “Pursuit-2023” on 7th and 8th April 2023, 55 students were benefited.

**Dr. A.S. Manekar**Head  
Information Technology



## DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES

In the Applied Science and Humanities Department, all seats for B.E. First Year have been filled through MH-CET. The pass percentage for the students declared in the Summer 2022 session is 88.51%, and the examination was conducted by Sant Gadge Baba Amravati University.

The faculty members and students of the department actively participate in National and International Level Conferences, Seminars, and Online Courses like NPTEL, Coursera, and Edx. One faculty member, R.G. Raut, has completed the Master's Teacher Training Program at IISEAR, Pune.

The department conducts Student Orientation and Induction Programs for students taking admission in B.E. First Year. All staff members and assistants actively participate in academic and administrative work of the college besides academics and research activities.

The college offers Japanese language classes since October 2018, with around 50 to 60 students learning the language every year.

Various educational programs are organized annually, including welcoming students, Spiritual and Educational lecture series, Science world Committee, Industrial visits, Freshers' day, and more. The college also holds sports events, inter-collegiate youth festivals, competitive examinations, and workshops for first-year students throughout the year.



**Dr. A. S. Tale**

Head  
A.S.&H.

## DEPARTMENT OF BUSINESS ADMINISTRATION AND RESEARCH

Historic milestones were achieved during the present academic year 2022-23 in Department of Business Administration and Research. Department secured the entire 69 seats admissions despite the ups and downs in the MBA admissions scenario.

Students accomplished their summer trainings this session in organizations like LernX, Senwell, SBI Shegaon, HDFC, Agile Capital, Sharekhan and other private and government sector banks. A fine number of students have been placed so far in Bajaj Finserv, Catholic Syrian Bank, ESAF Small Finance, HCL, Optical Arc, Kotak Bank etc. A good number of students have either joined their family businesses or initiated a new venture. Many students are in the pipeline and attempting for jobs by appearing for group discussions and on/ off campus interviews.

Personalities from industry, academia and non- profits made their electrifying presence at the department and added colors to various events. Ganesh Jadhav, Assistant Manager, Union Bank of India, Dyanesh Khot, Manager, Excel R Solutions, Rajiv Jawale, Entrepreneur and Social Worker, Swapnil Meshram, Solution Architect, Wipro, Ritesh Mundada and Vishal Mihani, Entrepreneurs, Rohit Mudholkar, Cluster Manager, HDFC were some of the experts who guided the students. Students pro- actively participated in entrepreneurship development programs, group discussions, debates, extempore, power point presentations, case study sessions, community based projects, co curricular, extracurricular activities, sports for the sake of personality development. Skill based inputs for communication and MS- Excel are being given to students. A workshop on “Holistic Management” was also organized during this session for the first year students in connection with their subject Indian ethos and business ethics. They whole- heartedly participated in Retail Sales Management Program by Wadhwani Foundation. Parishkriti was organized during 7-8 April, 2023 and sponsorship was Rs. 10000 (Sponsors were Nutan Udyog, Shegaon and Sanskriti Garments, Nandura) and students were encouraged with cash prizes worth Rs. 9000. A study tour- cum- industrial visit was organized to three locations- Sevagram Ashram, Paunar Ashram and MGIRI (Mahatma Gandhi Institution for Rural Industrialization), Wardha.

Like every year, all the faculty members participated in various workshops, faculty development programs. They also published their research papers in reputed conferences’ proceedings and journals (both national and international). Prof. Bilal T. Husain has submitted his doctoral thesis and Prof W. Z. Suliya is about to submit it. Prof. Vishal V. Patil has registered for his Ph.D. Two proposals were sent under IKS (Indian Knowledge Systems) by Dr. M. A. Dande, Dr. P. M. Kuchar and Dr. S. M. Mishra- 1- “Choosing wisdom over intellect- An enquiry into philosophies of saints in Varkari Sect and their relevance in contemporary times”.

2- “Florescence of life through Namasmaraan (Chanting)- A study of Vithhal Naam Jaap Practice”. An accelerated Learning and Development Program was organized for the students of our institute and Saraswati College by Mr. Ashok Jambur. Two MOUs have been signed with Laghuna University, Philippines and Leben Life Sciences, Akola.



**Dr. P.M. Kuchar**

Head

D. B. A. & R

## TRAINING AND PLACEMENT CELL

### TPO Meet/Workshop/Counseling/Guest Lecture/Soft Skill:

- Training and Placement Department, SSGMCE, Shegaon conducted the “Counseling Session” (Online) on 9th July 2022 for all B.E. Final Year 2023 passing out batch students.
- TPO-HR Meet organized by MaTPO, Pune on 12th July 2022 at Hotel Orritel, Pune.
- An Interactive Session on “Career Opportunities in PSU” (a session is on Virtual Platform) by Mr. Mukesh Biswas Senior Manager (HR) Director General of Hydrocarbons, Noida on 23rd July 2022 for all BE Third & Final Year students.
- An expert talk by Mr. Kamlesh Pande Sir, Pune on “Innovative Product Development” for faculty of SSGMCE and “How to interact with Industry and Career Path” for BE First year students on 27th & 28th July 2022.
- Personality Development Programme by Dr. Kalindi Bhat, Pune on 29th & 30th July 2022 for BE First year students.
- A session by Dr. Vishal Bhedurkar, Finance and Accountant Officer at the Government of Maharashtra and Founder of Dnyanjyoti Education, Pune for BE Third & Final Year students on 30th July 2022.
- A Career Guidance Session by Indian Air Force, Nagpur on "IAF Direct Contact Programme", on 4th & 5th Aug. 2022 for all BE Third & Final Year students.
- A session by Mr. Devendra Meshram, (MS, IIT Madras), Scientist and Head of Structural Research, DRDO, Bengaluru on “Career Opportunities for Engineers in Defence Research” for BE Final Year students on 13th August 2022.



- A Guidance Session on “How to Prepare for Civil Services Examinations” by Mr. G. Sreedhar(IPS), Superintendent of Police, Akola on 20th Aug. 2022 for All BE Third & Final Year students.
- A Career Guidance session on “Future Career Prospectus in Core Engineering” by Mr. Manoj Shirodkar, MD, Precision Components Pvt.Ltd., Pune and Mr. Ashutosh Deuskar, Alumni on 15th Sept. 2022 in College New Seminar.
- A session on “How to Mentor” programme (Phase-I) by Dr. Kalindi Bhat on 20th & 21st Sept. 2022 for Principal, Deans, Registrar, all HODs, TPOs & all concerned.
- A guest lecture by Prof. Dr. Nishikant V. Deshpande, Nagpur on 6th Oct. 2022 for BE Final Year MECH/EE 2023 batch students.
- A Orientation Programme by Mr. Mukesh Biswas, Sr. HR Manager, Director General of Hydrocarbons, (Govt. of India PSU) Noida on “Career Opportunities for Engineers in PSU (Oil & Gas Industries)” for BE First Year students on 15/11/2022.
- A Orientation Programme by Dr. Kalindi Bhat, Mentor Trainer & Motivational Speaker on “Students issues and mentorship (tentative)” for BE First Year students on 16/11/2022.
- A Orientation Programme by Mr. Gopesh Pandey, DGM-HR, TCG Group of Companies, Garden Silk Mills, Surat on “Growing Expectation of Industries from budding engineers” for BE First Year students on 17/11/2022.
- A Orientation Programme by Mr. Ranjan Kumar, HR-Manager, MECON Ltd., (PSU) on “Career Opportunities for Engineers in PSU (Engineering Consultancy)” for BE First Year students on 18/11/2022.
- A Orientation Programme by Mr. Manoj Shirodkar, CEO, Shirodkar Preci Comp Pune on “Future and Opportunities for Entrepreneurship Development for Engineers.” for BE First Year students on 19/11/2022.
- A Orientation Programme by Mr. Sachin Satpute, Director & CEO, Edu Plus Now, Pune on “Need of Skill Development of Budding Engineers to be a part of Industry ready workforce.” for BE First Year students on 23/11/2022.
- Soft Skill Development Programme (M-I-Effective Public Speaking) by S&K Associates, Nashik on 28th, 29th & 30th Nov. 2022 for all BE Second Year students.
- Dr. Ashish Nanoti, Mumbai on “Stress Management: Knowing the Science and the Skill”, for all the faculty and staff members of SSGMCE on 13th December 2022.

- A Seminar by TCS-Microsoft Business Unit (TCS-MBU), Pune on “The Future ready Talent” on 6th Feb. 2023 for all BE Third Year Students.
- An Interaction Session by TCS Limited, Pune on 11th Feb. 2023 for all 73 TCS Selected students and all BE Third Year Students.

#### **MOCK Aptitude Test:**

- Online Aptitude Test Preparatory Classes by Mr. Ajay Butwani, BASE Education, Pune from 7th July 2022 for BE Final Year 2023 passing out batch students.
- Online Aptitude Test Preparatory Classes by Mr. Ajay Butwani, BASE Education, Pune from 5th Sept. 2022 for BE Third Year 2023 passing out batch students.
- Online Aptitude Test Preparatory Classes by Mr. Ajay Butwani, BASE Education, Pune from 1st Dec. 2022 for BE Second Year 2023 passing out batch students.



**Prof. Aadesh Solanke**

Training and Placement Officer

### **IEEE**

- IEEE students Branch and WIE Affinity group organized a STEM workshop on Basics of Electronics for School students on 19th and 20th August 2022. 50 Students from Shri Sant Gajanan Maharaj English School and G. B. Murarka High School participated and learn the basics of electronics. Basic electronics components kit distributed to the students.
- IEEE students Branch and Robotics and Automation Society Chapter Two Days workshop on Robotics - Robovision on 11th and 12th February 2023. Total 38 Students successfully completed the workshop.
- IEEE students Branch organized a workshop on calculator “Chasing Calsi” on 17th December, 2022 for first year students. Total 150 students participated and understand how to use calculator for engineering and scientific calculations.
- IEEE WIE Affinity Group in collaboration with IEEE Bombay Section under the series of Shakuntala Bhagat Lecture Series conducted Guest Lecture on “Law and Woman” by Adv Rajani Bawaskar, on 2nd March 2023 on the occasion of International Women’s Day.
- On the occasion of Engineer’s Day, 15th September 2022, a guest talk was organized on “Journey through Einstein’s Brain” by Dr. Mukund Moharir, Retd. Aerospace Scientist/Engineer NASA.

- IEEE students Branch and Robotics and Automation Society Chapter organized Two Days Workshop on “Circuit Simulation and Arduino Programming Workshop” on 1st and 2nd October 2022. Total 32 students participated and successfully completed the hand-on workshop.
- IEEE students Branch in collaboration with Indian Physics Association (IPA) and IEEE Bombay Section organized an IPA colloquium on topic Particle Accelerator technology for Radiotherapy and Hadron Therapy by Dr. Tanuja Dixit, Senior Scientist, Society for Applied Microwave Electronics Engineering & Research (SAMEER) Mumbai.
- IEEE students Branch organized “Greet and Meet” program on 1st March 2023 with all the IEEE student members for networking and understanding working with IEEE Committee.
- IEEE Students' Branch has hosted "Technovation-2023" - a Project Competition organized by Student Activities Committee, IEEE Bombay Section on 8th April 2023. Technovation - 2023 was a project competition and exhibition aimed at undergraduate students and teams. There were total registration of 39 project groups registered and participated in the competition. Mr. Anand Gharpure, Chair IEEE Bombay Section and Dr. Jayant Joshi, Government Polytechnic Nashik were present as Chief Guest as well as Evaluators for the competition. Dr. S. B. Patil, Head Computer and Science and Engineering, SSGMCE also assisted as an Evaluator.
- IEEE Students' Branch has organized National Students' Conference on Innovations in Rural Development on 20-21 April 2023 in Online and Offline mode. The conference was financially sponsored by IEEE Bombay Section. The technical tracks for the conference was Agriculture and Farming, Water and Sanitation, Healthcare and Nutrition, Energy and Environment, and Education. It has received overwhelming response from research community and total 125 research papers received for review process. Out of 125, 50 papers were selected for presentation and publication. Dr. Shashikant Sadistap, Chief Scientist, CSIR-CEERI Pilani has delivered a keynote talk on E-agriculture: Digital Technology in Rural Development on 20th April 2023. Dr. Gulab Singh, Centre of Studies in Resource Engineering, IIT Bombay has delivered a keynote talk on “Radar Polarimetry and applications” on 21st April 2023. There were total 18 session chairs evaluated the research papers presented in eight technical sessions.



**Dr. Pravin Wankhede**  
Faculty Advisor



## ISTE

- A new committee was formed at the beginning of the session which comprises of final, third and second-year students from all the departments.
- Meeting with committee members was carried in order to plan the activities for the year and other guidelines were given.
- Student membership was renewed online through ISTE headquarters, New Delhi. 72 students became ISTE members.
- A workshop on “Python Programming and Industrial Projects” by Mr. Chandan Ratha, Chief Director, Maiden Careers, Bhubaneswar was organized for all students on 06th and 07th August 2022, 57 students registered and attended the same.
- A workshop “TECHFIST- Innovate Connect and Inspire” by Mr. M Y Kashikar and Prof. V K Bhangdiya, was organized for all students on 15th and 16th October 2022, 65 students registered and attended the same.
- A workshop “Go Coding” by Mr. Pranav Kheldar, was organized for all students on 10th and 11th December 2022, 64 students registered and attended the same.
- “Scientica” event was organized on 28th February 2023 the occasion of Science Day.
- A workshop on “Introduction to Cyber Security” by Mr. Adnan Akhiani and Mr. Abhijeet Gadlinge, was organized for all students on 07th and 08th April 2023, 68 students registered and attended the same.
- “GRAND PROJECT EXPO”, an exhibition of working or non-working, hardware or software projects on any topic was organized on 08th April 2023, in which 42 teams (165 students) participated. Winners were awarded with cash prizes.
- A workshop on “Android Development” by Mr. Abhishek Bawane, was organized for all students from 24th to 29th April 2023, 40 students registered and attended the same.



**Prof. Faizan I. Khandwani**

Faculty Advisor

## ITSA

### Events Under ITSA

- Conducted Interviews for Formation of ITSA Team for session 2022-23
- Conducted Brainiac 2023 Competition under ITSA
- Conducted A two day workshop “Hands on TABLEAU” on 25th and 26th of Feb. 2023
- Conducted Expert Talk on “Robotic Process Automation”
- Conducted Event Name ‘Technofesta’ and workshop ‘Introduction to python with data science’ .



**Prof. A. G. Sharma**

Faculty Advisor

## MOZILLA CAMPUS CLUB

Mozilla Campus Clubs on university and college campuses globally unite people to build the open web. They emphasize human interaction, sharing, learning, teaching, protecting, and creating on web platforms. Campus Clubs leverage the learning environments of educational institutions to foster innovation and collaboration among technology students. These clubs have evolved from Mozilla's history of student involvement, with programs like the Firefox Student Ambassador and Maker Party. The vision is to inspire invention, drive innovation, and effect global change through passionate volunteers worldwide. The mission is to ensure an open and accessible Internet that prioritizes individuals' empowerment, safety, and independence. Campus Clubs plan impactful activities and open-source projects to make a difference for the open web, campuses, and communities.

### Events under Mozilla club :

- Title of the Event: Student Awareness session on “AWS Cloud Architecting” - Date:27/02/2023 to 02/03/2023.
- Title of the Event: Expert talk on “Industry 4.0” by Ms. Medha Deshpande head of IoT platform at expert global solutions, Aurangabad. Date:21/03/2023
- Title of the Event: Chat GPT challenge a student Competition Encourage Exploration of Applications of ChatGPT/BARD/Other AI Solution One Smarter, -Date: 31/03/2023.

- Title of the Event: Two days workshop on “3D modeling in AR/VR using blender software” in pursuit -Date:21/04/2023.

**Prof. S. N. Khandare**

Faculty Advisor

## ACM

- A Webinar on “Career Opportunities after Engineering” by Mr. Arjun Chhabra, Faculty at ACE | Motivational Speaker | 5 Times GATE Qualified | M. Tech Structural Engineering | 4+ Yrs. of GATE/ESE/PSU Teaching Experience on 10th December 2022, 80 students were benefited.
- Free Live Virtual Program “Data Analytics/ Business Analytics using Power BI and Tableau” in association with ExcelR Solutions from 2nd January 2023 to 23rd January 2023.
- A Webinar on “Roadmap for Admission to Post Graduation (MS) in USA/ UK” by Mr. Siddhant Gupta, Graduate Research Assistant and MSCS student at University of Maryland Baltimore County, Maryland, United States on 17th February 2023, 62 students were benefited.
- Prof. S. D. Padiya (Faculty Sponsor) and Mr. Ubai Badri (Chairperson) participated in ACM India Student and Professional Chapter Summit 2023 at IISER, Pune, Maharashtra on 20th and 21st January 2023.
- A national level Valorant E-Sports Tournament “Enigma 3.0” under a national level technical symposium “Pursuit-2023” on 7th and 8th April 2023, 12 teams were benefited.
- A national level workshop “Introduction to Web Development” under a national level technical symposium “Pursuit-2023” on 7th and 8th April 2023, 55 students were benefited.

**Prof. S. D. Padiya**

Faculty Advisor

## SAEINDIA

Under the auspices of our institute's Mechanical Engineering department, SAEINDIA Student Chapter is active. 30 members of Team X-treme from the mechanical, electrical, electronic, and telecommunications fields are now working in this chapter. The team's major goals are to participate in a national competition, learn more about the field of advanced automotive technology, and get involved in the development and manufacture of a car.



### **Electric Go-Kart**

This year, our team planned and created an electric go-kart for the "National Electric Kart Competition (NEKC)" that will take place in Bhopal in June 2023. The institution has provided financial assistance and approved two lakh rupees for the manufacturing of the electric go-kart. Along with working during non-class hours, the captain, vice captains, and team members designed and built the electric go-kart in accordance with the rules throughout the semester.

On 23rd Feb 2023 organized orientation programme of National Electric Kart championship (NEKC) at mechanical workshop hall by the team X-terme. More than 20 students get benefitted from this workshop.



**Prof. Madhav Bhambere**

Faculty Advisor

## **ALUMNI ASSOCIATION (MAJI VIDYARTHI BAHUUDDESHIYA SANSTHA)**

Alumnus is the strength of any institute. The development cycle of any institutes cannot be completed in the absence of Alumni. Alumni are the backbone of any institute, and students are the building blocks. And to strengthen the bond between these two elements is the primary objective of Alumni association.

To do the same Alumni keep association on organizing Alumni Meets Frequently. Till date a total of 22 meets have been organized. Also since academic year 2014-2015 concept of Grand Alumni Meet has been started and till date a total of Six consecutive Grand Meets have been organized.

Grand Alumni Meet is a one day event in which various technical, motivational, discussion, brain storming and cultural sessions are arranged back to back.

And a continuous interaction between Alumni faculty and student add to the glory of event. This event is the one of star events of the Alumni Association which brings present past students along with faculty under the same roof and let them allow share their views and experiences.

Various Objectives Fulfilled by Alumni Association:

- To Maintain Members Directory
- To Set-Up A Guidance Cell To Aid Present And Past Students
- To Assist Students In Availing Project Facilities
- To Help Networking Amongst The Alumni

These objectives are fulfilled through continuous follow ups and results can be reflected in Table below which show statistics :

Sr No.	Area of Contribution	Total
1.	Placement	22
2.	Sponsored Project	01
3.	Expert talk (Skill Development)	21
4.	Lab Development	03
5.	Internship, Training and Industrial Visit	02
6.	Project Evaluation/Curriculum	16
7.	Library Books	84
8.	Scholarship	10,59,350/-

- To setup a guidance cell to aid present and past students
- To help networking amongst alumni for fulfillment of above two objectives Alumni Meets are organized on regular basis. A separate web portal and mobile application has also been launched.
- Maintaining a total 12154 members directory data update till date
- Publishing Alumni Newsletter Alumni association started publishing yearly newsletter since last four years
- Meet Sponsorship Apart from Grand Alumni Meet if our Alumni want to organize any meet than college provides sponsorship for such meets.
- Mentor- Work on this has been started since this academic year. Students of first year are attached with alumni for one to one mentorship.

As the path to improvement is unending, Alumni association will always keep on working continuously



**Dr. D. D. Nawgaje**  
**Prof. B. S. Rakhonde**  
 Coordinators - Alumni Cell

## PURSUIT-2023

Shri Sant Gajanan Maharaj College of Engineering, Shegaon organized a national level technical symposium, Pursuit 2023, on 7th and 8th April 2023. The aim of this symposium was to provide a platform for engineering students from various colleges to showcase their talents and skills. The event witnessed a participation of 781 students from renowned colleges, who actively took part in 9 different technical events and 8 skill development workshops. Pursuit 2023 was a grand success, attracting students with a competitive spirit to showcase their achievements and accomplishments.

The technical events included WEB-A-THON, Technofesta, Battle of Electronics, Mechscout, Speranza, Enigma 3.0, Grand Project Expo/ Technovation, Stranger Things, organized by different chapters like IEEE, ISTE, IEI-Electrical, IEI-Mechanical, ACM, Mozilla Campus Club, Electronics and Telecommunication, Information Technology, and Computer Science and Engineering student chapters. The workshops included UI/UX Designing, Introduction to Python with Data Science, Hello to Embedded System, Filmflash with Wondershare Filmora, Introduction to Web Development, Introduction to Cybersecurity, Stock Market 101: An Introduction to Investing, 3D Modelling in AR/VR Using Blender. The workshops were conducted by students for students, providing a unique opportunity for knowledge sharing and interaction.

Shri Raju Kendre, CEO, Eklavya India, Forbes and HT 30 Under 30, Chevening Scholar, FCDO, UK, was the chief guest at the inaugural function of Pursuit 2023. Shri Jagannath Nagre, Village Development Officer, Buldana, Member- Save the Soil Mission also addressed the students about project work at village development. The inaugural function began with the national anthem and was attended by Dr. S. B. Somani, Principal, Mr. S. P. Badar-Pursuit-2023, Chief Coordinator, and Dr. M. A. Dande, Parishkriti-2023, Chief-Coordinator. The guests enlightened the students about their personality development, scope for innovation, and advised students to find opportunities for research, higher education, and village development which would help society.

The valedictory function was held on the second day of Pursuit, where the winners of all the events were awarded with certificates and prizes. The participants were also given certificates as a token of appreciation.



Student coordinators, workshop resource persons, and volunteers were awarded with appreciation certificates. The event was powered by Vithoba Industries Pvt Ltd and sponsored by CDOT Systems Pvt Ltd.

The success of Pursuit 2023 can be attributed to the efforts put in by the members of each student chapter, motivated and dedicated faculties, and the support of the SSGMCE family. The symposium was a great success beyond expectations, and for this we express gratitude to our Hon'ble Shri. Shrikantdada Patil, Managing Director, SSGMCE, Shegaon for their valuable support and encouragement. We are also thankful to our respected Principal Dr. S. B. Somani for his motivation and guidance. We extend our gratitude to all the committee members teaching and non-teaching, administrative staff and our dedicated students. We extend our most sincere thanks to the entire SSGMCE family for their persistent support, guidance for making PURSUIT-2023 a great success.



**Prof. S. P. Badar**

Chief Coordinator

## PARISHKRITI 2023

“Parishkriti”, the flagship event of Department of Business administration and research, Shri Sant Gajanan Maharaj College of Engineering, Shegaon was organized during 7-8 April 2023. It was organized with the engineering’s technical symposium Pursuit 2023. Parishkriti 2023 included eight sub events- IPL Auction, business quiz, business plan, paper presentation, Squid games, ad/ poster design competition, Online Stock Market Quiz and online MS Excel Quiz. Out of these events, Business Plan competition was held under the banner of Yukti Nir Portal and Institutional Innovation Cell of All India Council for Technical Education.

The Event Was Sponsored by Nutan Udyog, Shegaon and Sanskriti Garments, Nandura. The judges/ evaluators for the events were people from industry and entrepreneurs. Their inputs were significant regarding the development of students. The total sponsorship amount this year was Rs. 10000. Prizes worth Rs. 9000 were distributed to winners. The theme of the event was- “Digital India”.

Mr. Raju Kendre, Founder and CEO of Eklavya Foundation, a TISS (Tata Institute of Social Sciences) pass out and a Chevening scholar was the chief guest for the inaugural function.

During his keynote address, he illustrated the opportunities for higher education in India and abroad through opting for various scholarships. He also expressed his willingness to organize a workshop on the similar lines for the students of the institute once a year in future.

Mr. Nagre, Village Development Officer, Buldana District was the guest of honor for the inaugural function. He elaborated the various aspects of soil conservation, water conservation and sanitation. He also appealed students to seek a career in agriculture and persuaded them with justification. Mr. Shailesh Chincholkar, Owner, Sanskriti Garmens, Nandura was the chief Guest for the valedictory function.

Around 380 students (in-house and from outside institutions) participated in various events. Students from Department of Business Administration, Shri Sant Gadge Baba Amravati University, SIPNA College, Ram Meghe College, Badnera, Vidyabharati college and College of Management, Wardha also took part in events. It was a thing of pleasure and contentment that a student basically from Africa also participated in two events. It happened for the first time that there was an abroad student in Parishkriti.

The encouraging thing was that many of these students participated in more than 3 events. The purpose of the event is served when sincere students who wish to develop themselves strive to keep their performances at par. Such a continuous involvement in events and activities finally enhances employability and entrepreneurial facets as well. The focus next year will be on increasing outside participation and sponsorship to truly provide a platform to students and make event much livelier.



**Dr. Mayur Dande**

Faculty Advisor

## COMMUNITY DEVELOPMENT & EXTENSION SERVICES CELL

- The letter has been sent to the heads of ELPO, CSE, IT, EXTC, AS&H and MECH Departments via email on September 13, 2022. The said letter requests all heads to depute faculty members for smooth conduction of events in their respective Department.
- The format of an 'Action Plan' has been sent to the coordinators of above mentioned Departments on September 13, 2022 to brief about activities or programs to be carried out during the session.

- All Departmental Coordinators have submitted their 'Action Plan' to the Chief Coordinator before deadline.

**Details of activities carried out during the session:**

Departm	Coordinator	Activity	Duration	Intended Audience
ENTC	Prof. K. S. Vyas	Workshop on "Electronics Engg. Equipment & its applications"	09/02/23 (1 day)	Students of 11th Standard, SSGM Convent
		Departmental Visit	13/12/22 (1 day)	Students of 9th Standard, Zila Parishad, Shegaon
IT	Prof. S. N. Khandare	"Fundamentals of Computers"	10/03/23 to 11/03/23 (2 days)	Students of 9th Standard, Indira Gandhi High School, Shegaon
		"Fundamentals of Computers"	16/12/22 to 17/12/22 (2 days)	Students of 9th Standard, Indira Gandhi High School, Shegaon
CSE	Prof. P. K. Bharne	"Workshop on Android & Web Development"	24/02/23 to 25/02/23 (2 days)	Students of 8th Standard, SSGM Convent
AS&H	Prof. N.S. Thakare	"Path for Self Development"	29/11/22 to 30/11/22 (2 days)	Students of 11 th & 12th Standard, Mahatma Gandhi School , Shegaon



**Prof. R. G. Raut**

Chief Coordinator

## NATIONAL CADET CORPS (NCC)

### Aims of NCC

- To develop character, comradeship, discipline, leadership, secular outlook, spirit of adventure and the ideals of selfless service amongst the youth of the country.
- To create a human resource of organized, trained and motivated youth, to provide leadership in all walks of life and always available for the service of the nation.



- To provide a suitable environment to motivate the youth to take up a career in the Armed Forces.

In year 1993 NCC unit was started in our college which is attached to 3MAH. SIGNAL COMPANY AMRAVATI with Enrolled Strength of 54 cadets.

### **ACTIVITIES OF THE YEAR 2018-2019**

<b>Sr.No.</b>	<b>ACTIVITY</b>	<b>DATE</b>	<b>PARTICIPATION STRENGTH</b>
1	Inter-National Yoga Day	21 June 2022	36
2	Re-Enrollment	23 Aug 2022	18
3	Motivation Campaign To BE II Yrs Boys	24 Aug 2022	50
4	New Enrollment and Registration	26 Aug 2022	18
5	Commencement of Training Parade	26 Aug 2022	36
6	Training Parade	WED, THURSDAY	36
7	Annual Training Camp CATC-I Amravati	Sept 2022	18
8	Independent Day Parade	15 Aug 2022	18
9	Annual Training Camp CATC-II	Oct 2022	18
10	Cleanliness Drive	2 Oct 2022	36
11	Digital Awareness Campaign		
12	Trekking Camp	Dec 2022	04
13	NCC Day Celebration	25 Nov 2022	Shegaon Town Level
14	Youth Day Celebration	12 Jan 2023	36
15	Republic Day Celebration	26 Jan 2023	36
16	Certificate Examination Cadre	Feb 2023	26
17	B Certificate Examination	Feb 2023	18
18	C Certificate Examination	Feb 2023	18

### **Achievements : Examination Result:**

<b>Examination</b>	<b>2021-22</b>	<b>2022-23</b>
B-CERT	07	07
C-CERT	00	03

**Participation of NCC Cadets in College and Community Service Activity:**

1. Youth Day & Youth Week Celebration
2. College Cultural festival CULFEST & Ganapati Festival
3. Pulse Polio Program of Maharashtra Health department
4. Digital Banking awareness programme
5. Swachha Bharat Abhiyan
6. Road Safety Programme
7. Various Rallies & Program Conducted at SHEGAON TOWN
8. Discipline committee volunteer service



**Capt. D. L. Bhombe**  
Faculty Advisor

**CAREER GUIDANCE CELL****SSGMCE Shegaon organized the following Webinar/ Expert Lectures/ Workshops/ Competitions in Academic Session 2022-23.**

- A webinar on “Career Opportunities in PSUs” by Dr Mukesh Biswas (IIT Kharagpur Alumni), Sr. HR Manager, Director General of Hydrocarbons, NOIDA for the engineering (third and final year) and MBA (final year) students on 23 July 2022, from 9.00 AM (IST) to 10.00 AM.
- A webinar on “Career Guidance on Civil Service Examinations” by Dr Vishal Bedurkar, Finance and Accountant Officer, Government of Maharashtra, and Founder, Dnyanjyoti Education, Pune for the engineering (third and final year) and MBA (final year) students on 30th July 2022, from 10.30 AM to 12.00 PM.
- A Webinar on “Career Opportunities for Engineers in Defence Research” by Mr Devendra Meshram, (MS, IIT Madras) Scientist and Head of Structural Research, DRDO, Bengaluru for engineering students on 13th August 2022, from 10.00 AM to 11.30 AM.
- An offline session on “How to Prepare for Civil Services Examinations?” by Mr G. SHREEDHAR (IPS), Superintendent of Police, Akola for engineering students on 20th August 2022, from 10.30 AM to 12.30 PM at SwadhyayKaksh, SSGMCE, Shegaon.
- An offline “Guidance Session on Param Vir Chakra, INDIAN ARMY” by Mr Yogendra Singh Yadav, Retired Commissioned Officer, Indian Army for engineering and management students on 13th September 2022, from 9.30 AM to 12.30 PM at Old Auditorium, SSGMCE, Shegaon.

-  **Prof. S. D. Padiya**  
Coordinator

**Knowledge Resource Centre :**

- Library Working Hours :**

- ### Details of Library Books :

- / 208



- Digital Learning Resources: 905
- Electronics Information Collection: 4295

**Details of Library Periodicals:**

- Technical Journals (International) - 38
- Technical Journals (National) -56
- Non-Technical Journals -15
- Online E- Journals -1913

**Online e-journals Access:**

- Science Direct Periodicals Package 2020, 275 journals on Engineering, Computer Science Collection, back file access from 2000.
- ASME e-journals Package, 32 journals & back file to 2000.
- IET e- journals Package 1600 Journals + Conference, Proceedings and Magazine Collection 32 Titles, 10year back file access.

**Central Library Services:**

- Online access to e books and e journals
- Online access to Library Information service through SLIM Library Software
- Round the clock Internet / Intranet Facility.
- Round the clock Wi-Fi Connectivity.
- Network Resource Sharing Service.
- Reprographic Services at nominal rate.
- Providing book sets to all the students.
- Digital Learning Materials.
- Books for competitive exam: - such as GATE, GRE, CAT, GMAT, TOFFEL, MPSC, UPSC, NDA, SSB, Banking etc.
- CAS and SDS Services.
- BAR CODE Services.
- Plagiarism Checkers Software Facility. Special Library facility

**Library Visitors:**

- The great social reformer Hon'ble Baba Saheb Amte
- Adorable Tukaramdada Gitacharya, Adayal Tekadi
- Swami Satya Swarupanandji Maharaj, RK Math Raipur
- The Great Author Ram Shewalkar, Wani

- Foreign delegates from various countries i.e. Oxford University London, China, Canada & America have visited our Central Library.
- Dr. Vikram Pandit Saheb Chairman of City Bank America.
- Dr. Kiran N Patil, Dy, Secretary, Technical Education Mantralaya Mumbai.
- Dr. D.N.Shingade, Joint Director, Technical Education, Amravati.
- Dr. Suresh Haware Saheb (Nuclear Scientist) Chairman Shirdi Saibaba Sansthan Trust, Shirdi.
- Shri Rajkumar Badole, Minister of Social Justice, Maharashtra
- Shri Mahesh M Deshpande, Dy, Director, Skill Development, Govt., Of Maharashtra.
- Bharat Ratna Sachin Tendulkar's Sister & her family, Mumbai.

 **Mr. D. P. Patil**  
Librarian

## CULTURAL COUNCIL

The Cultural Committee of Shri Sant Gajanan Maharaj College of Engineering, Shegaon strives to celebrate the cultural diversity in the college through events and activities. Over the years Cultural Council has been organizing events that bring together fun, knowledge, creativity and freshness. Its inception has always brought out the best talents through its extracurricular activities.

### Activities in 2022-2023

#### • Ganesh Utsav

SSGMCE celebrated GANESH UTSAV - 2022 from 31st August'2022 to 4th September'2022. On 31st August'2022 - Anant Chaturdashi, Ganeshotsav started by welcoming Lord Ganesha for Sthapana at A Department, Vidhya Vibhag with rituals – Maha Aarati and Pooja in an atmosphere full of devotional fervor. The Sthapna of Idol of Lord Ganesha was made by the hands of Dr. S.B Somani, Principal SSGMCE. Students danced with enthusiasm and zeal to the beats of traditional instruments like Dhol – Taasha. The start of every next day morning witnessed the gathering of resident faculty – staff members and , students turning out for performing the Pooja and for seeking the blessings of Bappa. We also saw age old cultural rituals of India being followed by today's generation in the form of "Rangoli & Antakshari". The evenings were adorned with bhajan samaroh. The last day of Ganeshotsav Celebration observed with special Pooja and Worship.

Visarjan was carried out with a procession of traditional lezim and lord Ganesha bid adieu to everyone and blessed us till he visits next year.

- **Youth Festival**

Youth fest is thoroughfare organized by Sant Gadge Baba Amravati University, where the multidisciplinary students come together to unveil their talent. This is an event where the students strive hard to acclaim proficiency in the field of literary and performing arts. Youth Festival 2022-23 was organized at Shri Shivaji Arts and Commerce College, Amravati, from 12th October 2022 to 15th October 2022. SSGMCE's delegation included 52 participants along with the volunteers and accompanists. This fest organized by the university, provides a great opportunity to collaborate and compete with multidisciplinary students and creates a sense of belonging and connectedness.

Participation:

Sr.No.	ACTIVITY	No. of participants
1	Debate	2
2	Elocution	1
3	Spot Photography	1
4	Quiz Competition	3
5	Western Group Song	6
6	Group Song Indian	6
7	Spot Painting	1
8	Poster Making	1
9	Folk Dance	10
10	One Act Play	9
11	Mime	6
12	Cartooning	1
13	Clay Modelling	1
14	Light Vocal Indian	1
15	Classical Vocal	1
16	Mehendi	1
17	Rangoli	1



- **Alumni Meet**

The Alumni Association of SSGMCE organized “ALUMNI MEET 2023” a programme to facilitate, consolidate and coordinate Alumni Activities at SSGMCE on 14th January 2023. It is a platform to reconnect and celebrate the growth, where the dreamers meet the doers. Cultural Council is responsible for the cultural activities planned for the day. The day started with the Flagmarch that gave an outlook of college campus in the way to New Auditorium. The Alumni were welcomed with the traditional tilak ceremony. At 1.00 pm, 100 students came together to perform flashmob in front of the college library. Through their performance they created an atmosphere of joy and filled the audience with enthusiasm. The Grand Alumni Meet was concluded with the Cultural Night, where the alumni and students had enthralled the audience with their outstanding stand-ups and amazing song and dance performances.

- **Yeh Shaam Mastani – Pre Culfest Event**

On 31st March 2023, “Yeh Shaam Mastani” a pre culfest event was organized at Open stage behind New Auditorium that marked the beginning of CULFEST’23. The evening was made mesmerising with the jamming session (a musical event), stand-up comedy and poetry session. The ambience of the place and enthusiastic involvement of the students made this first ever pre-cul fest event on the open stage a remarkable one.

- **CULFEST**

With utmost thrill and the loudest band, “CULFEST’23” the biggest annual fiesta of SSGMCE was conducted on 1st April 2023. The most awaited event was a fun packed ride of laughter, frolicsome beats and grooves and graceful dances. The fest was inaugurated by the hands of Dr. S.B. Somani, Principal SSGMCE, along with the traditional arti and opening remarks. The theme of CULFEST’23 was “Safar Cinema Ka” a walk into an incredible film land depicting the era’s of the world of cinema. The day was an amalgamation of various artistic performances by students and faculties. It included 17 singing and 39 dance performances. At the end of the day, the best anchor, singer and dancer were awarded with mementos and certificates, along with the felicitation of students who have brought laurels to the college. The day of amusement and buzz was concluded with the closing remarks given by Mr. Shreyash Rane (General Secretary) and Ms. Suchitra Nair (Girl’s Representative).

The cultural activities of 2022-23 were conducted successfully with the collaborative efforts of faculty and students. Teamwork between the students of Council has guaranteed the success and the smooth run of the events carried out throughout the year. With an aim to nurture and give platform to the students to showcase their talent we look forward to amplify our efforts and take it to a much larger scale in the upcoming academic years.

 **Prof. U. A. Jawadekar**  
Faculty Advisor

## THE INSTITUTION OF ENGINEERS (INDIA) –MECHANICAL

Institute of Engineer's India, SSGMCE Mechanical Engineering student chapter is a student body of Mechanical Engineering students which runs under the

Prof. K V Chandan as faculty advisor and Atharv Kute as student Convener. IEI is a charter body of Govt. of India, established in 1935 and runs students chapters in entire country in various technical capmuses and holds various curricular and co-curricular activities such as Students conferences, quizzes, expert talks and many more social and student focused activities. This Year chapter kicks session with "Tree Plantation Drive on August 15, 2022 participating 30 students organized by Shegaon Municipal Corporation and Go Green Foundation Shegaon. The CEO of the Shegaon Municipal Corporation, Ms. Jayshree Katkar, was the guest of honor.

On the eve of engineers day, an expert talk on Journey through Einstein's Brain was held on September 15, 2022 by Dr. Mukund Moharir, a scientist/engineer at NASA, addressed more than 80 faculty and staff members of SSGMCE about the journey of Einstein's theory of relativity. Session on GATE Exam Awareness & Preparation Strategy on September 30, 2022 by Prof. K V Chandan of SSGMCE conducted a session on GATE exam awareness and preparation strategy for 45 students. Two-Days Hands-On Workshop on Web Development on October 1-2, 2022 by Abhishek Gawali and Nikhil Babhulkar and Workshop on Fusion 360 for 3D Printing on November 26-27, 2022, and December 3, 12, 2022 by Prof. K V Chandan and N G More of SSGMCE enhances the knowledge of interdisciplinary students in web developments and 3-D printing . Expert Talk on Expectation of Engineers from Industry - January 3, 2023 by Jagdish Wadhokar and Mr. Parsnis gave an expert talk on the expectations of engineers from the industry, which was attended by 50

students. Webinar on Boundary Layer Theory - January 4, 2023 by Dr. Sagar Agnihotri of UPASLA, University Sweden, conducted a webinar on boundary layer theory, which benefited 2M and 3M students. SCIENTICA: A science day competition was held on February 28, 2023, featuring a science-based movie and competition provides insights into the work of a renowned scientist and served as a source of inspiration for aspiring scientists and engineers. Expert Talk on Opportunities for core Engineering Students in Power Sector on March 27, 2023 by Mr. Atul Kumar Bhole, Chief Superintendent at Kakrapar NPP, NPCL, Gujarat, attended by 3M and 4M students, along with faculties from Mech and Elect departments.

Mechscout, which is a treasure hunt event and The Workshop on Filmflash with Wondershare Filmora added technical and creative skills to the participants as covered with the basics of video editing.

The IEI Mech Student chapter is one of the platform of the student by the students for the student's over all & consistent development of the student.



**Prof. K. V. Chandan**  
Faculty Advisor

## THE INSTITUTION OF ENGINEERS (INDIA) –ELECTRICAL

IEI - Department of Electrical Engineering Students' Chapter continuously works for the betterment of the student community. It organizes, coordinates and manages programs for student development including expert talks, webinars, workshops and Hands-on Trainings. During 2022-23, it has organized many such events. The students showed great deal of enthusiasm and got benefitted.

The prominent programs of the many organized by IEI- Department of Electrical Engineering Students' Chapter are listed below.

- Expert Talk on "Affordable and Clean Energy – The New Paradigm of Sustainable Development & Role of Electrical Engineers" by Dr. D. P. Kothari (Former Director, IIT Delhi, Ph.d., FNAE, FNASc, Fellow- IEEE, LMISTE, Hon Fellow - ISTE)
- Expert Talk on "Career Opportunities for Electrical Graduates & Importance of GATE" by Mr. Ramesh Pabba (B.E., M.Tech., Ph.D., Senior Faculty at ACE Engineering Academy, Hyderabad).



- Appreciation of University Sports Achievers & IEI – Electrical Student Body Members 2021-22 by the Electrical Engineering Department, SSGMCE, Shegaon
- Two - Day Workshop on “Transformer Fundamentals and Testing” by Mr. Sunil Sardey (Retired Executive Engineer, MSETCL)
- Two - Day Workshop on “Power Distribution, Automation and SCADA System” by Mr. Anil Patil (Retired Executive Engineer, MSEDCL)
- Quiz Competition “The Mind Fizz – Quiz Competition” by IEI – Electrical Engineering Students’ Chapter, SSGMCE, Shegaon
- Expert Talk on “The Right Approach to Crack Core Campus Placement Drive” by Mr. Tushar Hingne and Miss. Komal Chandal (GET- Torrent Power & SSGMCE Alumni)
- One – Day Workshop on “Introduction to Web Development” by IEI – Electrical Engineering Students’ Chapter, SSGMCE, Shegaon
- Technical Event “Speranza” by IEI – Electrical Engineering Students’ Chapter, SSGMCE, Shegaon
- Expert Talk on “How to Identify Intellectual Property at the Early Stage of Innovation” by Mr. Piyush Dalke (Assistant Professor, SSGMCE, Shegaon).



**Prof. P. R. Bharambe &  
Prof. P. R. Dhabe**

Faculty Advisor

## SCIENCE WORLD

The new Science World team has been constituted by the Faculty Advisor together with former Science World Committee, which includes students of B.E. Second Year. Students of B.E. First Year were selected on the basis of following three rounds:

1. Aptitude Test that, evaluates logical thinking of aspirants.
2. Group Discussion that, showcased student’s ability to present their ideas.
3. Personnel Interview wherein, students were asked to present their skills.

The results of above mentioned rounds were published on December 21, 2022 & December 27, 2022 respectively. In total, 28 students were selected & they will lead the said Committee for the Academic Year 2022-23. The constituted committee conducted ‘Orientation Program’ on February 16, 2023. The Logo & Vision of committee have been launched by committee in the presence of Principal, Dr. S.B. Somani Sir.

**Details of activities carried out during the session:**

Event Name	Date	Intended Audience
Wit-mania: Fun Event	April 30,2023	B.E. First Year
Elocution	February 28, 2023	Science Enthusiasts

**Prof. R. G. Raut**

Faculty Advisor

**INSTITUTION'S INNOVATION COUNCIL (IIC)**

SSGMCE has established Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC)' to create a vibrant local innovation ecosystem, Start-up supporting Mechanism, Establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas and Develop better Cognitive Ability for Technology Students. SSGMCE-IIC is actively involved in organizing and conducting seminars, workshops, field trips, project exhibitions, entrepreneurship boot camps, Idea competitions etc.

**Objectives of IIC**

- Students/Faculty associated with IICs will have exclusive opportunity to participate in various Innovation related initiatives and competitions organized from institution level to international level.
- Win exciting prizes/Certificates every year.
- Meet/Interact renowned Business Leaders and top-notch academicians.
- Opportunity to nurture and prototype new ideas.
- Mentoring by industry Professionals.
- Experiment with new technologies
- Visit new places and see new culture.

**Functions of IICs**

- To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bound fashion.
- Identify and reward innovations and share success stories.
- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.

- Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize Hackathons, idea competition, mini-challenges etc. with the involvement of industries.

**Quarter:- Quarter I**

**Type:- IIC Calendar Activity**

ACTIVITY	DATE
Workshop on "Entrepreneurship and Innovation as Career Opportunity	26/11/2022
Inter/Intra Institutional Idea Competition/Challenge/Hackathon	30/11/2022
Reward Best Ideas - Manage through YUKTI-NIR	30/11/2022
Exposure and field visit for problem identification	28/11/2022
Motivational Session by Successful Innovators	16/11/2022
Motivational Session by Successful Entrepreneur/Start-up founder	19/11/2022

**Quarter:- Quarter I**

**Type:- Celebrations Day**

OCCASION	DATE
National Education Day	11/11/2022

**Quarter:- Quarter I**

**Type:- MIC driven Activity**

ACTIVITY	DATE
Launch of 5G services	1/10/2022

**Quarter:- Quarter II**

**Type:- Celebrations Day**

OCCASION	DATE
National Startup Day	16/1/2023
National Youth Day	12/01/2023
National Science Day	28/02/2023
National Energy Conservation Day(India)	14/12/2022



**Quarter:- Quarter II****Type:- IIC Calendar Activity**

ACTIVITY	DATE
Inter/Intra Institutional Innovation Competition/Challenge/Hackathon	14/1/2023
Reward Best Innovations - Manage through YUKTI-NIR	14/1/2023
Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialisation of Lab Technologies & Tech-Transfer	27/2/2023
Field/Exposure Visit to Pre-incubation units such as Ideas Lab, Fab lab, Makers Space, Design Centres, City MSME clusters, workshops etc.	21/02/23
Session on Achieving Problem-Solution Fit & Product-Market Fit	24/02/2023
Workshop on Entrepreneurship Skill, Attitude and Behavior Development	21/02/23

**Quarter:- Quarter II****Type:- MIC driven Activity**

ACTIVITY	DATE
Orientation Session on IIC 5.0 & Features	11/01/2023
Leadership Talk with Prof. T. G. Sitharam, Hon'ble Chairman, All India Council for Technical Education (AICTE)	30/1/2023

**Action Plan & Scheduled Activities****Conduct an orientation-cum-mentoring session for ATL Schools**

ACTIVITY	DATE	VENUE
Orientation program ATLs Tinkering Labs of Institution's Innovation Council (IIC).	27-03-2023	Jawahar Navodaya Vidyalaya, Shegaon Dist Buldana.
Exposure Visits: One Day Exposure visit by School students to IIC Institute and Interaction with Institute Student Innovators	27-03-2023	SSGMCE SHEGAON MAHARASTRA
Orientation-cum-mentoring session for ATL Schools.	17-04-2023	SHIVAJI MULTIPURPOSE HIGHER SECONDARY SCHOOL AMRAVATI (M.S)

**Dr. S. B. Patil**

Chief Coordinator

## ENTREPRENEURSHIP CELL

The entrepreneurship cell of SSGMCE, known as 'E-Cell' is formed with an objective of fostering entrepreneurship skills amongst the students of SSGMCE.

About Us: The Entrepreneurship Cell, SSGMCE was initiated with a vision to promote entrepreneurship amongst the students of SSGMCE and to build an exhaustive resource pool to aid potential student to become entrepreneurs. Since our inception, we have organized various events ranged over social entrepreneurship events on campus to business plan contests and we have definitely brought about a surge in entrepreneurial activities on campus.

It is a student-driven and faculty-guided cell striving to channel the competencies of the budding engineers. Now comprises an overwhelming strength of 25+ students across various branches of SSGMCE of activities like seminars, talks & prototype building of the ideas are conducted for the students to strengthen of success comprising of Patience, Persistence, Perspiration, Passion, Perseverance, and Pragmatism. With a variety of programs E-Cell plays a key role in the development of entrepreneurial skills and giving an opportunity to the deserving. At the same time, it has been invoking a sense of responsibility towards the nation in students by empowering social start-up's as well.

Vision: Entrepreneurship in India is yet to reveal its hidden potential. Because we come up with a vision to impart the root of entrepreneurship to each of the individual. It will not only help India to frontier with the world leaders but also unlock the quality of brains that we are so proud of. With this idea, The Entrepreneurship Development Cell, SSGMCE wishes to inculcate and enrich the entrepreneurial environment in India by creating an easily accessible and exhaustive set of resources for the entrepreneurs, which including the students, the budding professionals, mentors, angel investors and the venture capital through various fun-filled yet educating sessions such as Start-up Showcases, competitions, e-Talks and so on and so forth.

Mission : With an aim to strive towards promoting entrepreneurship, we at E-Cell SSGMCE are a group of enthusiasts working continuously to provide a platform foster, inspire and help young and aspiring students to open the door to promising & exciting world of entrepreneurship.

**Various Activities under E-Cell :**

ACTIVITY	DATE
Expert talk on Business Incubation Process	17/09/2022
Know your surroundings	15/09/2022
Pitching competitions	08/10/2022
Competitions on "Eureka"	20/10/2022
The Entrepreneurial Snapshot Challenge	30/10/2022
Competitions on Making an After movie	01/11/2022
Expert talk on "The Tell Tale Entrepreneur"	10/12/2022
Entrepreneurial Mania 1&2	17/12/2022
Expert talk on "Business Tactics In Rural Area"	19/12/2022
Fleshier Intro	27/12/2022
Competitions on Weekly blog_ Social Media	27/12/2022
Competition Event on "Stranger Things"	07 /04/2023
Workshop on Stock Market 101 "	08/04/2023

**Prof. Piyush Dalke**

Faculty Advisor

**NPTEL**

Our college has started National Programme on Technology Enhanced Learning (NPTEL) local chapter, since 2016. In the session 2022-23 (Autumn) total 21 students have completed the different certified courses on this platform. For the 2021-22 (Spring) semester total 18 students have registered for different NPTEL course exams.

**MOOCS**

In the session 2021-22 (Autumn) total 52 students have completed the different certified courses on the other MOOCs platforms like Udemy, Coursera, EDX, Great Learning etc.

**Prof. K. P. Sable**

Coordinator



## UNNAT BHARAT ABHIYAN CELL SSGMCE

Institute is member of Unnat Bharat Abhiyan since April 2019. Received seed money of Rs 50000 for general expenses. Two projects which are successfully deployed in village Kherda (Gosawi), Janori and House hold survey and Village development survey of villages Alasana, Gaulkhed, Tivhan Khurd, Takali Dharav on is completed. Total 450 entries are uploaded and Village development plan is also uploaded..

Unnat Bharat Abhiyan of SSGMCE is a socially active body headed by Prof.N.S.Thakare Assistant Professor, Department of Applied Sciences and Humanities has adopted 5 villages namely village Kherda (Gosawi), Janori, Alasana, Gaulkhed, Tivhan Khurd, Takali Dharav and has been actively conducted Awareness camps, Sanitation Drives, COVID 19 Awareness through E messages and Voice Broadcasts, Food Distribution and Mask Distribution camps were organized by UBA, SSGMCE during this lockdown period.

We at UBA, SSGMCE is committed to work for society and to help the people living in the nearby area who are not well aware of the govt. schemes and policies. It is a continuous work for the upliftment of society and we are not leaving any stone unturned for this mission.

### About Unnat Bharat Abhiyan

Unnat Bharat Abhiyan is a flagship program of MHRD, Govt. of India to uplift the citizen in our villages and in rural India. Presently, 70% of the population in India lives in rural areas engaged in an agrarian economy with agriculture and allied sector employing 51% of the total work-force but accounting for only 17% of the country's GDP. There are huge developmental disconnects between the rural and urban sectors such as inequity in health, education, incomes, and basic amenities as well as employment opportunities – all causing great discontent and large-scale migration to urban areas. To bridge the gap of urban and rural developmental differences and to uplift current rural India the Unnat Bharat Abhiyan of SSGMCE has collaborated with higher educational institutions of India such as SGBAU Amravati University for bringing the mainstream industrial knowledge among the common people of rural India. Unnat Bhārat Abhiyān (UBA) is a much needed and highly challenging initiative in this direction.

## **Vision and Mission**

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India.

The Mission of Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.

## **Major Area of Intervention**

In order to move towards the holistic development of the villages. There are two domains namely, human development and economic development ,which need to be developed in an integrated way. The major of these two domains are given below

### **1. Human Development**

- Health
- Education and culture
- Skills and entrepreneurship

### **2. Economic Development**

- Organic farming
- Water management and conservation
- Renewable energy sources
- Artisans and rural industries
- Development and harnessing of local natural resources
- Basic amenities
- e-support

 **Prof. N. S. Thakare**  
Faculty Advisor



**Shri Sant Gajanan Maharaj  
College of Engineering**  
SHEGAON, MAHARASHTRA, INDIA





**SSGMCE**  
SHEGAON

# SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING, SHEGAON

SHRI SANT GAJANAN MAHARAJ  
COLLEGE OF ENGINEERING

## Courses Offered :

**DTE College  
Code : 1101**

### UG Courses

Electrical Engineering  
(Electronics & Power)

Electronics & Telecommunication  
Engineering

Computer Science  
& Engineering

Mechanical  
Engineering

Information  
Technology

### PG Courses

M.E. Electrical  
Power System

M.E. Digital  
Electronics

M.E. Computer  
Engineering

M.E. Advanced Manufacturing &  
Mechanical System Design

Master of  
Business Administration

#### Designed by :

Apurva Patil (3R)

Snehal Kubade (3N)

Ajinkya Nagre (3R)



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# Vision

To impart world-class Engineering and Management education in an environment of spiritual foundation to serve the global society.

# Mission

To develop excellent learning center through continuous design and upgradation of courses in closed interaction with R&D centers, Industries and Academia.

To produce competent, entrepreneurial and committed Technical and managerial human, with Spiritual foundation to serve the society.

To develop state-of-the-art infrastructure, centers of excellence and to pursue research of global and local relevance.

To strive for "Sarve Bhanvantu Sukhinah" - the ideal of our parent organization Shri Gajanan Maharaj Sansthan, Shegaon through symbiosis of Science and Spirituality.

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