

OFFICE BEARERS OF ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY, PUNE - 5



**Shri Shahu Chhatrapati, Kolhapur
President**



**Shri Yuvraj Sambhaji Chhatrapati,
Kolhapur
Vice-President**



**Shri Malojiraje Chhatrapati
Honorary Secretary**



**Shri Suresh Pratap Shinde
Honorary Joint Secretary**



**Shri Ajay Uttamrao Patil
Treasurer**



**Shri V. B. Patil
Chairman, Governing Council**



**Adv. Bhagwanrao Baburao Salunkhe
Chairman, Managing Committee**



Our Heritage

The All India Shri Shivaji Memorial Society was established in 1917 as a broad based educational and social welfare organization by the erstwhile Royal House of Kolhapur, supported by the Royal Houses of Indore & Gwalior, with a benevolent mission of the welfare of their subjects.

The Foundation-stone of the All India Shri Shivaji Memorial Society was laid at the hands of His Royal Highness, the Prince of Wales, on 19th November, 1921. The equestrian statue of Chhatrapati Shivaji Maharaj was executed by the famous Indian Sculptor, Shri Nansaheb Karmarkar and was unveiled by his excellency Sir Leslie Wilson, Governor of Bombay on 16th June, 1928.

The original plan for the famous heritage building for Shri Shivaji Preparatory Military School was conceived by the Tata construction Co., later redesigned by Rao Bahadur Jagtap and the building was constructed by Rao Bahadur Thube. At the instance of the Chhatrapati Rajaram Maharaj of Kolhapur, the building was inspected by then Commander-in-Chief of the British Army of the India and declared fit to house a Military School. His excellency Sir Frederick Sykes Governor of Bombay inaugurated the School on 20th September, 1933.

The renowned Engineering Colleges, College of Pharmacy, Polytechnic, Institute of Management and College of Hotel Management & Catering Technology are under the ambit of the Society.

Through its various institutions, AISSMS has provided the society with exemplary citizens. Some of the most decorated soldiers of the Indian Army have been the alumni of Shri Shivaji Preparatory Military School (SSPMS), the flagship institute of AISSMS. The students are persuaded to maintain strict discipline and regularity. State-of-Art infrastructure, facilities of international standards, highly qualified and experienced faculty and dynamic and comprehensive teaching learning processes are some of the highlights of institutes of AISSMS.



President Message



It gives me an immense pleasure to pen few words as prologue for the 13th edition of the annual magazine of AISSM Society Institute of Information Technology (IOIT) - AAYAM.

AAYAM is exclusively meant for showcasing the latent literary, artistic and technical talents of our students. The magazine provides an overview of the events and activities conducted at the institute.

The college is relentlessly striving to perceive and maintain academic excellence and at the same time is encouraging the students to participate in various co-curricular and extra-curricular activities. The various laurels bought by the students as well as the faculty members of our institute have also been noted in the magazine.

This magazine is an outcome of the sincere efforts of the faculty members and the enthusiastic students. I would like to wish success to the Principal, faculty members and the students in their future endeavors. I hope that readers will enjoy the magazine.

I wish the students to pursue their dream career.

Shri Shahu Chhatrapati, Kolhapur

President

All India Shri Shivaji Memorial Society, Pune-5



Secretary Message



It is a great pleasure to see the creative expressions of students who have contributed to **AAYAM**. This time the students have contributed their innovative ideas and articles related to magazine theme “**New Normal**”. This is indeed one of the important educational activities which provides a platform to young and talented students to express their views and knowledge they have acquired during college period. Magazine helps students to build-up their creative skills.

This magazine brings out the notable achievements of our institute in the fields of academics, research, sports and extra-curricular activities.

I am sure that everyone will gain knowledge from this Magazine. I invite you to read and immerse yourself in the unfolding art and be exulted.

My best wishes to Principal, Magazine team and Students.

Shri Malojiraje Chhatrapati

Honorary Secretary

All India Shri Shivaji Memorial Society, Pune -5



Principal Message



It gives me immense pleasure while presenting the 13th Issue of our College Magazine "AAYAM". It is a reflection of the creative expressions of our students.

This year the students have come up with the theme of 'New Normal'. The various colors of life are aptly displayed in the form of articles, poems, sketches, and photographs etc. The magazine compiles nature friendly engineering practices to sustain our surroundings and ecosystem.

The outbreak of COVID-19 has taught us that change is inevitable. It has worked as a catalyst for the educational institutions to grow and opt for platforms with technologies, which have not been used before. My heart is filled with pleasure to see the positive attitude and hard work of students and faculty members, put together in making AAYAM magazine during the pandemic.

I express my deep sense of gratitude to the Office Bearers of the All India Shri Shivaji Memorial Society's Shri Shahu Chhatrapati Maharaj, President, Shri Sambhajiraje Chhatrapati, Vice- President, Shri Malojiraje Chhatrapati, Honorary Secretary and all the Members of the Managing Committee and Governing body of the institute for their valuable guidance and support.

I also thank Prof. Harshada Magar, Assistant Professor, Department of Electronics and Telecommunications, Coordinator Media and Publication Committee and her team of Faculty coordinators of Media and Publication Committee and student Coordinators for providing a platform to the Students for expressing their creative thoughts and ideas in the form of AAYAM-2021.

Dr. P. B. Mane
Principal

Faculty Editorial

Faculty Editor in chief



People are still dying, but I am not supposed to be sad because this is, a new normal now. I need to fool, my poet's heart and write about that old moon, bruised by poet's words or those handfuls of stars, which I trace with the tip of my pen" –

What a true feeling expressed by Priyanka Srivastava about the new normal here.

The world is gradually emerging from the CoVid-19 nightmare. It is not returning to its previous state; rather, we are defining it as the "New Normal" or "Neo-Normal" – a world in which we coexist with the virus around us. This new style of life is vastly different from what we are accustomed to. Every element of our life has changed and continues to change. Most experts and academics believe that this

transition is irreversible and that many of the things we were accustomed to are now a thing of the past.

most of us will be trying to cope with the altered living and working conditions. It's not easy to stay buoyant in a pandemic. But when the news gets us down, we should keep our spirits up by focusing on the many good things in life.

While the crisis has resulted in enormous loss of life and livelihood, it has also compelled us to embrace many new and beneficial practices. Education has also changed dramatically. Even a few months ago, traditional education (classroom-based teacher-student learning) was the standard, and online classes were only known to a small number of people and used by even fewer students/teachers.

With the globe on lockdown as a result of the CoVid-19 catastrophe, every institution turned to online learning. Everyone moved online, from elementary schools to big universities. So much so that a few intellectuals have begun to refer to it as the future of teaching-learning.

Despite the fact that these are difficult times, I am hoping that this new normal will bring about great improvements in our lives in the long term. Regardless of the tough external conditions, individuals all around the world have begun to find hope and significance, as seen by different internet platforms.

It might be right to say that this epidemic has brought us all together.

This 13th edition of AAYAM is a tribute to positivity in all of us.

I would like to express my appreciation to Shri Shahu Chhatrapati Maharaj, President, Shri Sambhajiraje Chhatrapati, Vice-President, Shri Malojiraje Chhatrapati, Honorary Secretary, Dr. P. B. Mane, Principal, and other members of the Institute's Managing Committee and Governing Body of AISSMS.

I applaud the whole editorial board for their great teamwork as well as their diligent commitment and efforts in editing the magazine. I hope you enjoy reading the magazine as much as we did putting it together. Reading kaleidoscopic articles will take you on a trip to be inspired and motivated. Improvement suggestions are always appreciated at - mediaioit2020@gmail.com.

Prof. Harshada B. Magar
Media & Publication Coordinator

"Do not read, as children do, to amuse yourself, or like the ambitious, for the purpose of instruction. No, read in order to live." Gustave Flaubert

Message from Student Editor in Chief



Welcome to 13th edition of "AAYAM"!

New Normal

What a year we've had!

I'm pretty sure you're tired of reading this statement, but now I finally have the chance to use it so let me have my moment. The abrupt nature of the pandemic posed arduous situations that no one anticipated; those who say otherwise are as truthful as "I'm almost there". But as with all challenges we have almost made it through the dark times and now we emerge into what has been termed as " **The New**

Normal".

Every team in college faced obstacles and the Media team was no exception. As the student responsible for the functioning of the team, I ensured that we not only innovated the existing activities that were handed to us but also chose to push the envelope and start a new enterprise. We began a podcast called "The Reboot Show" which aims to help students in exploring new fields and ideas. The team worked hard and got so far, but in the end, it did matter. I won't go into the accolades, that's what social media is for, so go follow us there if you haven't already.

This year's magazine is a testament to the tenacious resilience and unwavering commitment of the Media & Publication Committee and also the enthusiasm of the contributors without whom this diverse collection of thoughts we dearly call AAYAM 2021 would not be possible.

I would like to express my heartfelt gratitude to our principal Dr P. B. Mane for his encouragement, I would also like to thank Prof. Harshada Magar and Media & Publication Committee members, who continually support our rather unconventional ideas and endow us with the resources and knowledge to bring them to reality. Like a famous headmaster once said, "Help will be given... to those who ask for it."

Before closing off this humble read of an editorial I would like to give a huge thank you to the Media team for all of their efforts in these trying times. Kudos to you! It was never easy, but that's what made it memorable...

Enjoy the read!

Mr. Akshay Upadhyay
BE E&TC
Student Editor-in-Chief

Recognition

The Institute is approved by The All India Council for Technical Education (AICTE), New Delhi, and the Director of Technical Education, Government of Maharashtra. It is affiliated to SavitribaiPhule Pune University (Id No.PU/PN/Engg/124/1998).The All India Shri Shivaji Memorial Society's Institute of Information Technology(Formerly Women's Engineering College), Pune-1 was established in the year 1999. This Institute is spread over an area of 11 acres and has an eight storied spacious and elegant building for various departments having an area of 16992 sqm.TheInstitute employs experienced faculty members and skilled non teaching staff. The institute has well equipped laboratories.The institute has a good industry institute partnership for carrying out research projects placements and training to the students.

Academic Programme

The Institution is providing programmes leading to the degree of Bachelor of Engineering in the following disciplines.

Graduation Courses

Sr. No.	Name of Course	Approved Intake
1	Artificial Intelligence and Data Science	120
2	Computer Engineering	120
3	Electronics & Telecommunication Engineering	120
4	Electrical Engineering	60
5	Information Technology	60
6	Instrumentation Engineering	60

Post Graduate Courses

Sr. No.	Departments	Sanctioned Intake
1	M.E (Power Electronics & Drives)	18
2	M.E(VLSI & Embedded Systems)	18
3	PhD(Electronics Engineering)	8 /guide

Governing body of the Institute

Shri Ajay Uttamrao Patil Treasure, AISSM Society, Pune-5	Committee Chairman
Shri Malojiraje Chhatrapati, Honorary Secretary, AISSM Society, Pune-5	Member
Shri Bhagwanrao Baburao Salunkhe, Member, AISSM, Society, Pune-5	Member
Shri Prashant Ramakant Brahme, Member, AISSM, Society, Pune-5	Member
Shri Sangramsingh Bhausahab Yadav, Member, AISSM, Society, Pune-5	Member
Shri Nikhil Ashok Khanse, Member, AISSM, Society, Pune-5	Member
Dr. Prakash Waman Wani	Member (AICTE Nominee) Industrialist, Technologist / Educationalist
Prof. Anant Govind Gosavi	Member (Savitribai Phule Pune University)
Dr. Abhay Wagh	Member (Government of Maharashtra)
Dr. A.K. Prakash	Member (Government of Maharashtra) Industrialist
Dr. Pradeep Bajrang Mane Principal, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member Secretary
Dr. Dyandeo Krushna Shedge Head of Department and Associate Professor in Electronics Engineering, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Teaching)
Prof. Hemant Pandurang Chaudhari Incharge Head of Department and Assistant Professor in Instrumentation Engineering, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Teaching)

College Development Committee

Shri Ajay Uttamrao Patil Treasure, AISSM Society, Pune-5	Committee Chairman
Shri Malojiraje Chhatrapati, Honorary Secretary, AISSM Society, Pune-5	Member
Shri Bhagwanrao Baburao Salunkhe, Member, AISSM, Society, Pune-5	Member (Education)
Shri Prashant Ramakant Brahme, Member, AISSM, Society, Pune-5	Member (Industry)
Shri Sangramsingh Bhausaheb Yadav, Member, AISSM, Society, Pune-5	Member (Social Service)
Dr.Pradeep Bajrang Mane Principal, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Committee Secretary
Prof.(Mrs) Sarika Nitin Zaware Incharge Head of Department, Computer Engineering, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Head of Department)
Dr.(Mrs) Dipali Rohit Shende Associate Professor in Instrumentation Engineering, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Teaching)
Prof.Milind Pralhad Gajare Assistant Professor in Electronics & Telecommunication Engineering, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Teaching)
Dr.Pramod Ganeshrao Musrif Assistant Professor in Physics, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Teaching)
Prof.Riyazahemed Abdulgani Jamadar Assistant Professor in Information Technology, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Research-Alumni)
Prof.(Mrs) Mousami Sandeep Vanjale Assistant Professor in Electronics & Telecommunication Engineering, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Co-ordinator IQAC)
Shri Ajay Jagannath Mate Office Superintendent AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Non-teaching)
Mr.Shubham Deepak Agrawal Final Year Electronics & Telecommunication Engineering, AISSMS Institute of Information Technology, Kennedy Road, Near R.T.O., Pune – 411 001.	Member (Students' Council)

Our Vision

To uplift the common masses by rendering value added education.

Our Mission

Empowering Society through dynamic education

Our Motto

Truth is eternal.

Quality Policy

We commit ourselves to provide quality education & enhance our students' quality through continuous improvement in our teaching and learning processes.

Objectives

- *To be nationally recognized as an educational institute that prepares students for successful professional career with high human values.*
- *To provide students sufficient understanding of scientific and engineering fundamentals to become competent engineering graduates.*
- *To provide expertise to students in experimentation, analysis, designing, solving real time problems that promotes development of inter disciplinary research and application oriented products.*
- *To develop multidimensional, globally competent professional students' community.*
- *To provide students joyful learning experience with learner centric teaching that leads to successful professional career equipped with lifelong learning skills leads to successful professional career equipped with lifelong learning skills.*

PROGRAM OUTCOMES (PO'S)

Graduates will be able to

1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. **[Engineering knowledge]**
2. Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. **[Problem analysis]**
3. Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. **[Design/development of solutions]**
4. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
[Conduct investigations of complex problems]
5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. **[Modern tool usage]**
6. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. **[The engineer and society]**
7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
[Environment and sustain ability]
8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. **[Ethics]**
9. Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings. **[Individual and team work]**
10. Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
[Communication]
11. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi disciplinary environments. **[Project management and finance]**
12. Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. **[Life-long learning]**

Department of Instrumentation Engineering

Vision

To be well known department that will serve as a source of knowledge and expertise in the field of Instrumentation for the society by rendering value added education by rendering value added education.

Mission

To impart dynamic education and develop engineers, technocrats, and researchers to provide services and leadership for development of the nation.

Program Education Objectives (PEOs)

1. To train graduates with the basic techniques and modern tools of instrumentation engineering to solve real life problems of the society.
2. To enrich graduates by imparting dynamic and value-added education to acquire good position in industry.
3. To motivate graduates to contribute as a socially responsible citizen, ethical leader for the development of the nation.
4. To encourage graduates for higher education, research, competitive examinations, and to become an entrepreneur.

Program Specific Outcomes (PSOs)

PSO1 : Students will be able to utilize their knowledge of measurement and control to solve the environmental, health, agricultural and safety related problems.

PSO2 : Students will be able to demonstrate their acquired skills related to modern engineering tools such as Distributed control system, programmable logic controller (PLC), supervisory control and data acquisition systems, lab view and embedded systems etc.

Department of Information Technology

Vision

To equip students with core and state of the art Information Technologies.

Mission

Imparting knowledge of Information Technology and teaching its application through innovative practices and to instill high morale, ethics, lifelong learning skills, concern for the society and environment.

Program Education Objectives (PEOs)

1. To prepare graduates to solve multifaceted and complex problems in IT industries.
2. To inculcate core professional skills with latest information technology to prepare graduates for employment and higher studies.
3. To develop cross domain competences that prepares graduates for lifelong learning in diverse career paths.
4. To make graduates aware of their social responsibilities toward environment and society.

Program Specific Outcomes (PSOs)

PSO1: Graduates will be able to demonstrate database, networking and programming technologies.

PSO2: Graduates will be able to apply core, professional and state of the art Information Technology.

Department of Computer Engineering

Vision

To create an Engineer, receptive to the changing demands of the global market.

Mission

1. To provide technically competent professionals in service to Nation.
2. To prepare graduates to respond to the needs of dynamically changing technology.

Program Education Objectives (PEOs)

1. To prepare graduates to work productively as successful Computer professionals.
2. To prepare students with latest skills in the field of technologies supplemented with practical orientation to face challenges of modern computing industry.
3. To provide environment that fosters professional growth, communication skill, team work, life-long learning skill and ability to create awareness in society about applications of technology.

Program Specific Outcomes (PSOs)

PS01: Problem Solving and Programming Skills: Graduates will be able to apply computational techniques and complete individual practical experiences in a variety of programming languages and situations.

PS02: Professional Skills: Graduates will be able to design and develop efficient and effective software by following standard software engineering principles.

PS03: Successful Career: Graduates will be able to become entrepreneur and to pursue higher studies / career in IT industries.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Vision

To provide quality education in Electronics & Telecommunication Engineering with professional ethics.

Mission

To develop technical competency, ethics for professional growth and a sense of social responsibility among students.

Program Education Objectives (PEOs)

1. To provide graduates of the program with pertinent skills to boost employability and all- round development.
2. To empower graduates of the program to exhibit professionalism and adopt lifelong learning in the emerging areas of technology.
3. To prepare graduates of the program to evolve as socially committed entrepreneurs sensitive to the needs of the society.

Program Specific Outcomes (PSOs)

PS01: Apply domain specific knowledge to develop electronics and telecommunication systems/applications.

PS02: Select different software tools, test and measurement equipment and use them efficiently for system solutions.

Department of Electrical Engineering

Vision

Contribute to the society by imparting quality education in the field of electrical engineering and prepare students to succeed in their professional career by inculcating in them high human values.

Mission

To develop innovative and socially responsible engineering professionals by delivering in-depth knowledge of electrical engineering.

Program Education Objectives (PEOs)

1. Equip students with skills to excel in academic and professional career.
2. Inculcate ability in the students to investigate problems in engineering and provide effective solutions.
3. Prepare graduates to engage in lifelong learning by developing in them professional social and Ethical attitude.

Program Specific Outcomes (PSOs)

PSO1: Graduates will be able to identify problems in the field of electrical engineering and then analyze /design/develop solutions.

PSO2: Graduates will be able to select and apply different software tools required for design and/or analysis of electrical systems.





Gems of IOIT

ME TOPPER



Nikita Markad
ME(Electrical) -1st Year
SGPA-9.160



Jithin C. J.
ME(Electrical) – 2nd Year
CGPA- 8.670

Department of Instrumentation Engineering



Neha Phadtare
SE
SGPA : 9.32



Khan Ifah
TE
SGPA : 9.04



Ranveerkumar singh
BE
SGPA


Toppers*Department of Information Technology*

Dhame Kshipra
BE
SGPA :9.61



Hrishikesh Joshi
TE
CGPA:8.73



Nitu Pushkar
SE
9.12

Department of Computer Engineering

Galande Animesh
SE-I
CGPA: 9.76



Deepak Kulkarni
SE-II
CGPA-9.84



Patil Vaidehi
TE-I
CGPA:9.46



Badgujar Sarthak
TE-II
CGPA:9.15



Muke Smita
BE-I
SGPA:9.55



Patel Parthit
BE-II
SGPA:9.5

*Department of Electronics & Telecommunication Engineering***SE E&TC**

Aamal Vedprakash
SE A
CGPA-9.38



Sheth Tanvi
SE B
CGPA-9.54



Gadhave Shrushti
SE C
CGPA-9.44



Limaye Swapnali
SE D
CGPA-9.04

TE E&TC

Acharya Aditi
TE A
CGPA-8.76



Neha Nilajkar
TE B
CGPA-9.72



Atharva Pawar
TE C
CGPA-8.78



Supriya Bankhele
TE D
CGPA-7.9

BE E&TC

Kunal Rustagi
BE
CGPA-9.14



Pratik Ravkhande
BE
CGPA -9.90



Garima Pandey
BE
CGPA -8.68

Department of Electrical Engineering

Bhavana Giri
SE Electrical
SGPA -9.16



Sneha Dalvi
TE Electrical
SGPA -9.22



Bhagyashri Patil
BE Electrical
CGPA -9.29

Department of Engineering Science

Bhavana Giri
SE Electrical
SGPA -9.16



Sneha Dalvi
TE Electrical
SGPA -9.22



Bhagyashri Patil
BE Electrical
CGPA -9.29

Media and Publication Committee 2021-22



Mrs. Harshada Magar



Mrs. Krutuja Gadgil



Mrs. Prajwal Gaikwad



Mrs. Divyani Rathod



Mrs. Pragati Mahale



Mr. Ashish Apate



Mr. Santosh Lavate

Designation	Staff	Students
Chief Editor	Mrs. Harshada Magar	Mr. Akshay Upadhyay
English Section Head	Mrs. Pragati Mahale	Mr. Omkar Navnath Waghmare
Marathi Section Head	Mrs. Krutuja Gadgil	Miss. Utkarsha Sulakhe
Technical Section Head	Mrs. Divyani Rathod	Miss. Neha Dhor
Art Section Head	Mr. Ashish Apate	Miss. Madhavi V. Shinde
Official Pages	Mrs. Prajwal Gaikwad
Annual Report	Mr. Santosh Lavate

Academic Programme

Sr. No.	UG Course	DTE Choice Code	INTAKE
1	Artificial Intelligence & Data Science	628299510	120
2	Computer Engineering (BE Honors Course - Data Science, Cyber Security, Artificial Intelligence & Machine Learning, Internet of Things (IoT), Virtual & Augmented Reality) (Value Added Course - Full Stack Development)	628224510	120
3	Electronics and Telecommunication Engineering (BE Honors Course - Data Science, Cyber Security, Artificial Intelligence & Machine Learning, Internet of Things (IoT), Virtual & Augmented Reality) (Value Added Course - Business Entrepreneurship Skill)	628237210	120
4	Electrical Engineering (Value Added Course - Electric Vehicles)	628229310	60
5	Instrumentation Engineering (Value Added Course - Cyber Security in Process Automation)	628246610	60
6	Information Technology (BE Honors Course - Data Science, Cyber Security, Artificial Intelligence & Machine Learning)	628224610	60

Sr. No.	PG Course	DTE Choice Code	INTAKE
1	Electronics and Telecommunication (VLSI and Embedded Systems)	628234120	18
2	Electrical Engineering (Power Electronics and Drives)	628290220	18
Sr. No.	Ph.D. Course	INTAKE	
1	Electronics and Telecommunication	8 Candidates Per Guide	

New Normal

Sections

Marathi Section

नव प्रकृतिस्त

English Section

Shaping the Pandemic

Technical Section

Technosmart

Art Section

Art Studio

Events

SDO

NSS

Alumni Meet

Annual Report 2020-21



मराठी
विभाग

नव
प्रकृतिस्त

● संपादकीय ●



जगात रहाणे म्हणजे सतत जुळवून घेणे. कोविड १९ महामारी उदयास आल्यावर आपल्याला अचानक नविन सामान्य परिस्थितीशी जुळवून घेण्यास भाग पडले. घरातून काम करणे, ऑनलाइन शालेय शिक्षण, लॉकडाऊन आणि क्वॉरंटाईन तसेच सार्वजनिक ठिकाणी फेस मास्क आणि फेस-शिल्ड घालणे अनिवार्य झाले.

कोरोना व्हायरसच्या सततच्या भितीमुळे शाळा व महाविद्यालयांमधल्या विद्यार्थ्यांसाठी ऑनलाइन शिक्षण हे नविन सामान्य मानले जात आहे.

दैनंदिन जीवनामध्ये आमूलाग्र बदल झाला आहे. नविन सामान्य परिस्थितीशी जुळवून घेताना व महामारीच्या मागील वर्षात झालेल्या बदलाविषयी विद्यार्थ्यांना काय अनुभव आला हे व्यक्त करण्यासाठी महाविद्यालयाच्या वार्षिक नियतकालिकाचा विषय यंदा 'न्यू नॉर्मल' ठेवण्यात आला आहे. विद्यार्थ्यांनी उत्कृष्ट प्रतिसाद दिला आहे.

मी सौ. ऋतुजा गाडगीळ, प्राचार्य डॉ. माने, मिडिया समन्वयक हर्षदा मगर मॅडम यांनी मला मराठी विभागाचे संपादक म्हणून संधी दिल्याबद्दल धन्यवाद, मी माझ्या विद्यार्थी समन्वयकांचे ही आभार मानते. सर्वात महत्वाचे मासिकासाठी योगदान दिलेल्या सर्व लेखक, लेखिका यांचे मनःपूर्वक आभार मानते.

—धन्यवाद !

प्रा. ऋतुजा गाडगीळ

सहाय्यक प्राध्यापक
विद्युत अभियांत्रिकी विभाग

● विद्यार्थी मनोगत ●



आतापर्यंत आपण जसं जगत आलो, तसं आता यापुढ आपल्याला जगता येणार नाही, ही कल्पनाच किती भयंकर असू शकते. पण आता हेच खरं आहे. पण आता नवीन सर्वसामान्य म्हणजेच (New Normal) न्यू नॉर्मल जगात आपण प्रवेश करून अस्तित्त्व टिकवून ठेवत जगत आहोत.

काय आहे हे न्यू नॉर्मल जग? न्यू नॉर्मल जग म्हणजे पूर्वी सारखंच पण, असंख्य नियमांचे पालन करून जगण्याचा केलेला प्रयत्न होय.

न्यू नॉर्मल जगात माणूस सामाजिक प्राण्यापासून एकटा, एकलकोंडा प्राणी होण्याकडे वाटचाल करतोय. यातून माणसात अनेक मानसिक बदलांची स्थित्यंतरेही पहायला मिळाली.

नात्यांमधला बदल, माणसातला माणुसकी व आपुलकी बदल झालेला

बदलही पहायला मिळाला. अनेक कुटुंब उध्वस्त झाली, आपली जवळची माणसे गेली. शारिरिक, मानसिक स्वास्थ बिघडली. बँक बॅलन्सची तर वाटच लागली. सर्व बिकट अशा परिस्थितीत मनुष्यप्राणी रु व त : च अ णि त त्व टिकविण्यासाठी जी धडपड करतोय, ते म्हणजेच न्यू नॉर्मल.

प्रत्येक माणसाने एकमेकांशी माणुसकीने वागून 'फक्त लढ म्हणा' म्हटलं की 'न्यू नॉर्मल' सुकर होईल.

असेच खुप आणि अनेक 'न्यू नॉर्मल' चे अनुभव घेऊन आम्ही तुम्हां सर्वांच्या भेटीला घेऊन येत आहोत AAYAM-2021 Magazine चे 'New Normal'.

या सर्व Magazine च्या कामांच्या गोष्टींमध्ये आम्हाला प्राचार्य माने सर, प्राध्यापिका हर्षदा मगर मॅडम, प्राध्यापिका गाडगीळ मॅडम आणि Editorial च्या सर्वच सदस्यांचे सहकार्य आणि वेळोवेळी मार्गदर्शन लाभले आणि या टीमचा एक भाग होण्याची संधी दिली त्याबद्दल धन्यवाद !

— उत्कर्ष सुलाखे

बी.ई - डी

अणुविद्युत आणि दूरसंचार

जन्म नांदीचा

आद्य नाटककार विष्णुदास अमृत भावे

महाराष्ट्रातील सांगलीत इ.स ९ ऑगस्ट १८१९ साली जन्मलेल्या महान कलाकाराने ५ नोव्हेंबर १८४३ रोजी विष्णुदासांनी म्हणजेच आद्य नाटककार विष्णुदास भावे यांनी सीता स्वयंवर या पहिल्या मराठी नाटकाचा प्रयोग सांगलीत केला. आणि महाराष्ट्र नाट्य कलेचे भरतमुनी म्हणुन वेगळी ओळख निर्माण झाली.त्यानंतर रामायणातील विषयांवर दहा नाटके लिहून त्यांचे प्रयोग त्यांनी सांगली संस्थानात केले. तेही लोकप्रिय झाले. सूत्रधाराकडून मंगलाचरण, नंतर वनचरवेषधारी विदूषकाचा प्रवेश, त्याचे आणि सूत्रधाराचे विनोदी संभाषण, विघ्नहर्त्या गजाननाचे स्तवन, सरस्वतीस्तवन, गजानन व सरस्वती ह्यांचा आशीर्वाद प्राप्त झाल्यानंतर नाटकास प्रारंभ, अशी विष्णुदासांच्या नाट्यप्रयोगांची पद्धती होती. नाटकाच्या आरंभापासून त्याची अखेर होईपर्यंत सूत्रधारास काम असे. सादर होणाऱ्या नाट्यप्रसंगांचे वर्णन सूत्रधाराने पद्यातून केल्यानंतर संबंधित पात्रे रंगभूमीवर येवून आपापली भाषणे करीत. सर्वच भाषणे आधी लिहीलेली नसत. नट स्वयंस्फूर्तीनेही तेथल्या तेथे प्रसंगोचित भाषणे करीत. नृत्य-गायनाला ह्या नाटकांतून बराच वाव दिला जाई. नाटकातील प्रवेशाला ‘कचेरी’ असे नाव दिलेले होते. भावे ह्यांनी पुढे महाभारतातील कथानकांवरही नाटके लिहिली. विष्णुदास नाटकांत पखवाजाची साथ प्रमुख असे. नाट्यप्रसंगाला अनुकूल असे कोमल, गंभीर वा तीव्र असे बोल पखवाजावर वाजविले जात असत. ह्या पखवाजाच्या आवाजावरून ह्या नाटकांना ‘तागडथोम नाटके’ असे म्हटले जाई. कर्नाटकातून सांगलीत येणारे लोक ‘तागडथोम बघायला जाऊया की ओ’ असे म्हणत असत. तसेच त्यांतील राक्षसांच्या ‘अलल् डुर्र’ अशा डरकाळीमुळे ‘अलल् डुर्र’ नाटके असे त्यांना संबोधिले जात असे.पण त्यापूर्वी विष्णुदास भावे सांगलीच्या राजदरबारात कठपुतळ्यांचे खेळ करीत असत. त्यांनी बनविलेल्या व खेळविलेल्या या कठपुतळ्या त्यांच्या निधनानंतर तशाच पेटाऱ्यात पडून होत्या. भावे यांच्या कठपुतळी खेळाच्या तीन चार संहिता उपलब्ध आहेत. द्रौपदी, स्वयंवर, ढोंगी महंताची नकल अशी त्यांची नावे आणि कठपुतळ्या या लाकडी असल्या तरी अतिशय हलक्या होत्या. शक्यतो उंबराच्या लाकडाचा व कागदाचा लगदा यापासून बनविल्या जात. रेखीव आकार प्रमाण बद्धता असूनही त्या चाकावर बसविल्या होत्या. त्या लोखंडी काठीच्या आधाराने आणि दोरीच्या साह्याने अशा दोन्ही प्रकारे खेळविता येत असत. विष्णुदास भाव्यांनी बनवलेल्या त्या बाहुल्या पुढे रामदास पाध्ये या कलावंताच्या हातात आल्या. त्यांनी व त्यांच्या पत्नी अपर्णा पाध्ये यांनी खूप दिवस खटपट करून भाव्यांच्या बाहुल्यांच्या रहस्याचा छडा लावला, आणि एके दिवशी, विष्णुदास भाव्यांना रंगमंचावर करता न आलेला सीता स्वयंवराचा प्रयोग त्याच बाहुल्या वापरून केला.कर्नाटकातील ‘भागवत मंडळीचे’ खेळ पाहून सांगलीचे त्याकाळचे संस्थानिक थोरले चिंतामणराव अप्पासाहेब पटवर्धन यांनी आपल्या पदरी असणाऱ्या सुभेदार अमृतराव भावे यांच्या विष्णु या बुद्धिमान मुलाला भागवत मंडळीतील नाटकाप्रमाणे खेळ करण्याची आज्ञा केली. त्यांची आज्ञा प्रमाण मानून इ.स ५ नोव्हेंबर १८४३ साली सांगलीच्या राजवाड्यातील दरबार हॉलमध्ये मराठीतील पहिले नाटक सीता स्वयंवर नाटकाचा जन्म झाला. या नाटकाची पहिली नांदी गाईली गेली. त्यासाठी त्यांनी कानडी नाट्य परंपरेत आवश्यक तेथे बदल केले. भावे यांनी स्वतःच नवीन पदाची रचना केली. सीता स्वयंवर करण्याआधी अहिल्येद्वार आख्यान श्रीमंतांपुढे सादर केले. हेच मराठीतील पहिले नाटक मानण्यात येते. इथंच मराठी रंगभूमीची मुहुर्तमेढ रोवली गेली. या सर्व आख्यानात खुद्द विष्णुदासांनी नाट्य कवितासंग्रह या नावाने १८८५ मध्ये संग्रहित केले. सीता स्वयंवर मराठी रंगभूमीवर आले तो दिवस होता ५ नोव्हेंबर १८४३. म्हणूनच हा दिवस नाट्यपंढरी सांगलीत व संपूर्ण महाराष्ट्रात मराठी रंगभूमी दिन म्हणून साजरा करतात.

विष्णुदासांनी रामावतारी आख्यानेच सादर केली. हीच मराठी रंगभूमीची सुरुवात होती. १८४३ ते १८५१ या काळात विष्णुदासांना राजाश्रय लाभला. विष्णुदासांच्या कंपनीने मुंबईलाही नाटकाचे प्रयोग केले. तेथे प्रेक्षकांनी या नाटकांना रसिकतेने राजाश्रयानंतर लोकाश्रयाला सांगलीकर नाटककार मंडळी फिरतीवर निघाली. १८४३ साली मुंबईच्या दौऱ्यापासून या सांगलीकर मंडळीनी तिकीटे लावून प्रयोग सादर केले. पैसे मोजून तिकीटे काढून नाटक पाहण्याची सवय लावली. राजाश्रयानंतर प्रशासकांनी विष्णुदासांच्या नाटकावर झालेल्या खर्चाची वसुली सुरू केली. त्याचा परिणाम विष्णुदासांनी सांगलीकर नाटक मंडळी स्थापन करून १८५१ ते १८६२ सालापर्यंत एकूण सात दौरे केले. १४ फेब्रुवारी १८५३ साली प्रथमच वृत्तपत्रातून नाटकाची जाहिरात आली. मुंबईच्या ग्रँट रोड थिएटरमध्ये मराठी नाटकाचा प्रयोग झाला. प्रथमच गोपीचंद या हिंदी नाटकाचा प्रयोग १९५४ मध्ये झाला. त्यामुळे हिंदी रंगभूमीचे जनक म्हणून विष्णुदासांचे नाव अखिल भारतात गाजले, म्हणूनच सांगली ही नाट्यपंढरी म्हणून ओळखली जाऊ लागली. या

विष्णूदासांनी एकूण ५२ नाटके लिहिली. त्यांची सर्व नाटके पौराणिक होती. नाटक मंडळीत पुढे १८६२ साली सुमारास विष्णूदासांनी नाट्य संन्यास घेतला पण त्यापूर्वी दरबारचे कर्ज व तसल मातीचा उलगाडा करण्यास हा नाट्याचार्य विसरला नाही. सांगलीकर संगीत हिंदी नाटक मंडळी आणि नूतन सांगलीकर मंडळींनी विष्णूदास भावे यांच्या पद्धतीची नाटके १९१० पर्यंत चालू होती.

नाट्यप्रयोगाची एक निश्चित संकल्पना समोर ठेवून नाटक सादर करणारी पहिली नाटकमंडळी महाराष्ट्रात सांगलीत विष्णूदासांनी उभी केली. व्यवसायनिवृत्तीनंतरचे आयुष्य त्यांनी सांगली येथेच घालवले व ९ ऑगस्ट १९०१ नाट्याचार्य विष्णूदास अमृत भावे यांचे निधन झाले. त्यांच्या नावाने भावे पुरस्कार ५ नोव्हेंबर रोजी रंगभूमी दिना दिवशी देण्यात येतो. त्यांच्या नावाने सांगलीतील विष्णूदास भावे नाट्य मंदिराची उभारणी झाली आहे. नाटक कंपनीने नाटक बसविले की त्यांचा पहिला प्रयोग या नाट्य पंढरीच्या विष्णूदास भावे रंगमंचावर करायचा ही जणू प्रथाच पडली आहे. नाट्य पंढरीबद्दल सर्वच नाट्य रसिकांना मनोमन आदराचे स्थान आहे.

आज नाटक खरंच संपूर्ण महाराष्ट्रभर पोहचले आहे का ?

व्यावसायिक नाटक फक्त मोठ्या शहरांपुरतच मर्यादित का? असा प्रश्न निर्माण होतो. अनेक मोठ्या मराठी कलाकारांची खरी सुरुवात ही याच नाटकाच्या रंगमंचावरून झाली आहे.

आजकाल सिनेमा सुद्धा वेबसिरीज मुळे व कोरोनाच्या महामारीमुळे मागे पडत चाललाय

अनेक तरुण मुलांना मराठी नाटक, मराठी कला, महाराष्ट्राची लावणी, लोककला हे माहितच नाहीये. महाराष्ट्राबद्दल असलेलं कमी ज्ञान ही मान खाली घालण्याची गोष्ट आहे.

महाराष्ट्राच्या कला, संस्कृती जपणं आपल्याच हातात आहे आपणच आपल्या महाराष्ट्राला अजुन उंचावर नेऊ शकतो यात काय वादच नाही.

चला तर मग महाराष्ट्राची भाषा, कला, संस्कृती जपुया महाराष्ट्रातील सर्व कलाकार, थोर मंडळींवर त्यांनी केलेल्या महान कार्यावर अपार प्रेम करुया व येणाऱ्या पिढीपर्यंत पोहचवुया आणि खऱ्या अर्थाने म्हणुया गर्व आहे मला मी महाराष्ट्रीय असल्याचा.

- प्रथम जमखंडे
द्वितीय वर्ष संगणक विभाग
(कलाकारी)

तो!

आजही तो येऊन गेला. अनपेक्षित भेट देऊन! खरं तर त्याचं असं अचानक येणं मला न उमजणारं होतं. पण त्याची हीच खासियत हल्ली मला जास्त आवडू लागलीये. आश्चर्यकारक धक्के घायला शिकलाय शहाणा! तसा तो हल्ली येत जात असतोच; पण त्याच्या मर्जीनुसार असं किती काळ जगायचं मी?

दर वेळी येताना सोबत काहीतरी घेऊन येतोच. बऱ्याचदा सुखद आठवणी आणि कित्येकदा त्याच्या सहवासातून मिळणारी, हवीहवीशी वाटणारी शांतता! त्याच्या स्पर्शाबद्दल काय बोलू मी! तो समोर असला की एक वेगळाच गारवा असतो हवेत..(खरं तर मनात). एक वेगळाच गंध अनुभवता येतो. तो दिसताच क्षणी सारं काही विसरून एखाद्या चित्रपटातील अभिनेत्याला पळत जाऊन घट्ट मिठी मारावी, असं काहीसं वाटतं!

तो! त्याच्या मर्जीचा राजा! थोडा विचित्र आणि खूप विक्षिप्त! पण तरी कसलं भारी ना? आपल्याला हवं तेव्हा यायचं काय, हवं तेव्हा निघून जायचं काय... ,असे वेगवेगळे आश्चर्यकारक धक्के देत राहायचं काय..,कधी हळुवारपणे तर कधी जोराने आपलं म्हणणं समोरच्याला पटवायचं काय... ! खरंच मानलं त्याला!!

दर वेळी काहीतरी शिकवून जाण्याचा वसा घेतलेल्या त्याने आजही एक गोष्ट सांगितली. आज समुद्र आणि नदी एकमेकांकडे पाहून हसले म्हणे. का रे? असं विचारलं तर सांगू लागला--- एका वेड्या नदीने समुद्राची थड्डा करण्याचा प्रयत्न केला. तुझं पाणी किती खारट आहे रे, शुद्ध हा शब्द तू कधी वाचलाच नसशील ना? बरं ते राहू दे, लोक येतात काय, तुझी मजा घेऊन जातात काय आणि तू मात्र तुझ्या विशालतेचा मोठेपणा मिरवत...कधी पुढे तर कधी मागे डुलतो आहेस. असं काहीतरी नदी समुद्राला म्हणाली.

तिने केलेली थड्डा त्याच्या लक्षात आली होतीच; मग लगेच समुद्राने स्मित हास्य करत नदीला उत्तर दिलं..... माझ्या शब्दकोशामध्ये 'खोल' हा शब्द असताना, मला 'शुद्ध' या शब्दाची पर्वा करण्याची गरज वाटत नाही.. खूप लांब निघून गेलो, असं लांबून पाहणाऱ्या लोकांना वाटत असलं तरी फक्त माझ्यासोबत येणाऱ्यालाच माझी 'दूरवर' पसरलेली प्रतिमा ठाऊक आहे. जितकी 'दूरवर' पसरलेली त्यापेक्षा जास्त 'खोल' मुरलेली. एकदा का कुणी माझ्या अंतरंगात डोकावून पाहिलं आणि माझा हात धरला, की मी त्या व्यक्तीचा हात कधीच सोडत नाही. आणि माझा

हात धरलेले लोक माझ्या शुद्धतेवर प्रश्न करत नाहीत. कदाचित हा त्यांचा 'मोठेपणा'! मी कसला डोमल्याचं मोठेपणा मिरवणार? आणि खारटपणा हा माझा खोडकरपणा आहे खरं तर. बाकी मजा मस्ती करत राहणं आणि मस्त पुढे मागे डुलत राहणं, एवढेच माझे छंद!

ती वेडी नदी त्या समुद्राचं बोलणं ऐकून भारावून गेली आणि न राहावून शेवटी त्या नदीने समुद्राला विचारलंच- तू माझाही हात घट्ट धरशील ना? (खडतर प्रवास करून फक्त आणि फक्त समुद्राला भेटण्यासाठी खूप लांबून खळखळत वाहत आलेल्या नदीला समुद्र कसा दूर करेल म्हणा!) आणि समुद्र उत्तरला- का नाही! फक्त एकदा का मी तुझा हात धरला, की तू तो कितीही सोडण्याचा प्रयत्न केला, तरी मी सोडणार नाही हे पक्कं लक्षात ठेव. माझं नाव तुझ्या नावापुढे लावण्यासाठी तुला मागचं सगळं विसरून फक्त माझ्यात सामावून जावं लागेल, एवढी एकच अट. बोल आहे तयारी?

(विशाल अशा समुद्राने मागणी घातल्यानंतर ती नदी नाही कसं म्हणेल? इतकीही वेडी नक्कीच नव्हती ती.) आणि नदी उत्तरली..कधी ना कधी मागचं सारं विसरून तुझ्या प्रेमाच्या समुद्रात मला बुडून जावंच लागणार, हे माहीत होतं अरे, पण तू अशी अट घालशील असं कधी वाटलं नव्हतं. माझ्या मागच्या प्रवासातील सर्व आठवणी आणि त्या आठवणी निर्माण करणारे सारे माझ्यासोबत कायम असणारच ना? शेवटी त्यांच्यामुळेच तर आज मी तुझ्यापर्यंत येऊन पोहोचलीये..

असं नदी गंभीरपणे म्हणत असताना तिचं बोलणं थांबवत समुद्र म्हणाला, अगं वेडे थांब जरा.. किती तो कंठ दाटून आलाय? मी मस्करी करत होतो अगं. आणि तुला जन्म देणारा तो डोंगर, तुझा प्रवास सुखकर करण्यासाठी तळमळणारी दरी, तुझ्या कठीण काळात तुला सांभाळणारी कित्येक झाडं, पानं, फुलं,वेली.., तुझ्या आतापर्यंतच्या आयुष्यात आलेल्या या सर्वांपासून तुला का दूर करेल मी? हा, फक्त थोडी मस्करी करण्याचा मीही आगाऊ प्रयत्न केला, इतकंच. तू मला उगाच खारट वगैरे चिडवणार, माझी चेष्टा करणार आणि मी बरा गप्प बसेल मग? समुद्र असं हसत म्हणत असताना रडणारी नदी समुद्राला खूप मारू लागली. शेवटी समुद्राने तिच्या गालावरील अश्रू पुसले, दोघेही काही वेळ एकमेकांकडे पाहत राहिले आणि नदीने समुद्राला घट्ट मिठी मारली, ती कायमची!

गेला, गेला. आज गोष्टीचा तात्पर्य न सांगता लगेच निघून गेलासुद्धा! पण हे असलं काहीतरी सांगून तो मला नेहमीच

त्याच्या प्रेमात पाडत असतो. खरंच तो खूप खूप खूप कमाल आहे! त्याच्या मर्जीचा राजा! आणि माझ्या मर्जीतील राजकुमार!! माझा पाऊस!!! आजही बरंच काही शिकवून गेला.....

(हा लेख सखा ऐवजी सखी बनून लिहिण्याचा प्रयत्न केला. जसा तो पाऊस त्याचीच समुद्र आणि नदी ही दोन्ही रूपं अनुभवतो, अगदी तसाच अनुभव घेतला! जो अनुभव श्रैल्लक्ष्मणेप मध्ये प्रत्येकाने घेतला असेलच. फक्त प्रत्येकाचा अनुभव वेगवेगळा! एखाद्या गोष्टीकडे नव्या प्रकारे पाहण्याची दृष्टी देणारा हा काळ! सर्व बाजूंनी विचार करायला लावणारा! प्रत्येक जण जेव्हा या संकटकाळातून बाहेर पडेल, तेव्हा त्याच्याकडे बरेच नवीन अनुभव असतील...आणि सारासार विचार करण्याची बुद्धी! आणि माझ्या मते विचारांमध्ये परिवर्तन झालेल्या समाजातील लोकांसाठी, हेच खऱ्या अर्थाने New normal असावं!)

- समर्थ कापसे
आर्टिफिशियल इंटेलिजेंस आणि डेटा सायन्स
(प्रथम वर्ष)

लॉकडाउन नंतर

आम्ही सामान्य परिस्थितीबद्दल लोकांचे कौतुक करीत नाही, परंतु आम्ही बऱ्याचदा अधिक अपेक्षा करतो. हे जीवन आहे का?

प्रश्न असा आहे की जीवन वाळवंटात पाण्याकडे जात आहे आणि ओएसिस पाहून ते अडकले आहे?

जरी सर्व काही चांगले असले तरीही आम्ही लोक चांगल्या आणि अधिक चांगल्याची अपेक्षा करतो. जेव्हा आम्हाला सर्वोत्कृष्ट ऑफर दिली जाते तेव्हा आम्ही तुलना करणे सुरु करतो. परंतु आम्हाला असा विश्वास नव्हता की अदृश्य सर्वशक्तिमान शक्ती आहे, जी हे सर्व पाहू शकते. परंतु वर्ष २०२० मध्ये आम्ही सर्वशक्तिमान सामर्थ्याचा अनुभव घेतला. कोविड विषाणूने प्लॅनेटवरील सर्व कामे बंद केली. सर्व चालू असलेली चाके थांबली. सर्व जगातील नकारात्मक बातम्या दूरदर्शनवर भरून गेल्या. लोक घराबाहेर पडू शकले नाहीत. या जगातील कोणालाही त्या उपायांची माहिती नव्हती, रोगाचा प्रसार झाल्याने प्रत्येकजण चिंताग्रस्त झाला.

अर्थशास्त्रज्ञ, वैज्ञानिक, डॉक्टर, धोरणकर्ते, पोलिस, शिक्षक किंवा कोणत्याही देशातील कोणत्याही सामान्य माणसाला त्याचे परिणाम माहित नव्हते. परंतु ही सर्व मने माणुसकीकडे वाटतात. अनिश्चितता नक्कीच वाढली परंतु चांगल्या आणि मानवतेवर विश्वास ठेवण्याची शक्ती वाढली. २०२० च्या लॉकडाऊनमुळे आम्हाला समजले की व्यक्ती, कुटुंबाच्या वास्तविक गरजा कोणत्या आहेत आणि आपल्या सर्वांनी त्या पाळल्या आहेत. लॉक डाउन पीरियड हा विकासवादी काळ होता, ज्यामधून आपल्या सर्वांनी नक्कीच बरेच काही शिकले. परंतु आपण या सर्व गोष्टी बऱ्याच काळासाठी लक्षात ठेवल्या पाहिजेत आणि नजीकच्या भविष्यात या शिकलेल्या गोष्टी वापरल्या पाहिजेत.

- वर्षा पाटील
अणुविद्युत आणि दूरसंचार
सहाय्यक प्राध्यापक



लॉकडाउन

चला तर लॉकडाऊन सुरु झाले .माझ्या उभ्या आयुष्यात पहिल्यांदा ठाण मांडून बसले आहे हे लॉकडाऊन.बऱ्याच लोकांना आवडत नसणार याची शास्वती आहे मला पण मला नक्कीच आवडते. उशिरा आरामात उठणे,मला घरची कामे करायलाही मजा येते. आयुष्यात इतक्या वाईट शिब्या मी खाह्या नसतील तितक्या दरोरोज खाते आईबाबांच्या.सोशल मीडिया वर बऱ्याच लोकांनी निसर्गाला किती आनंद झाला आहे माणुस घरी बसला आहे त्याची चर्चा सुरु केली आहे, पण मला काय वाटते जर माणुस निसर्गाच्या दुरावस्था करू शकतो तर हाच माणुस निसर्गाची सुव्यवस्था ही करू शकत नाही का?? म्हणून हे शिकण्यासारखे आहे आणि प्रत्यक्षात अप्यासारखे ही आहे . कारण नाण्याला दोन बाजू असतात.

लॉकडाऊन मध्ये नवीन नवीन पदार्थ बनवण्याचा आणि चाखण्याचा खुळ लागलय खूप लोकांना .मी काय म्हणते ते खूळ काही वाईट नाही पण जे गरीब आहेत ज्यांना एक वेळचे अन्न मिळत नाहीये त्यांना पण आपण खाऊ घालू यात की.मी काही बाई स्वयंपाकाचा गराड्यात पडत नाही कारण मी केलेला स्वयंपाक माझा शत्रुस खाऊ घालणार नाही ,इतकी वाईट नाहीये मी.

माझ्या घरा जवळील एका व्यक्तीला सांगण्यात आले की कोविड चाचणी करून घे तर सगळीकडे बोभाटा केला गेला की त्या व्यक्तीला करोना झालाय, कुटुंबाला व त्याला वाळीत टाकण्यात आले. ही गोष्ट अतिशय वाईट आहे. रोग हा प्रत्येकाला होऊ शकतो. करोना ना जात-पात बघतो ना धर्म बघतो ना पैसे पाणी बघतो. त्यामुळे रोग हा कोणालाही होऊ शकतो मला, तुम्हाला, कोणालाही. त्यामुळे आपण सगळ्यांनीच स्वतःची काळजी घेतली पाहिजे. आपण स्वच्छ राह्यात, सुरक्षित राह्यात. आपला लढा हा करोनाच्या विरोधात आहे ,ज्या लोकांना करोना झाला आहे त्यांच्या विरोधात नाही हे लक्षात घेणे खूप महत्वाचे आहे.आता तर चौथे लॉकडाऊन सुरु झाले. पण माझे विचार वेगळ्याच दिशेने वाहत आहेत. परीक्षा नाहीत,टेन्शन नाही. मग काय मज्जाच मज्जा, पण मला हेही सुचते की लॉकडाऊन का वाढतंय तर ते वाढतंय कारण करोनाचे पेशंट वाढतात ते जे चांगले नाहीये .त्यामुळे आपण घरी राहणे खूप जास्त हिताचे ठरेल . थोड्या दोन शिब्या तुम्ही ही खा आपल्या आई-बाबांच्या.

आता प्रश्न आहे की वेळ घालवायचा कसा ह्याचा, अरे लोकांनो लेखन करा,वाचन करा, स्वयंपाक शिका .मी काय म्हणते अमेरिका,ऑस्ट्रेलिया, जपान वरून शेवटी गोळी जमेल नक्की. चित्रकला आहेच की सोबतीला. जर तुमची चित्रकला माझ्यासारखीच पहिलीतल्या मुलासारखे असेल जी फक्त आईलाच आवडत असेल तर मग सोडा बरका.मी कुठे म्हणतोय की अभ्यास करा. बाकीच्या ही बऱ्याच गोष्टी आहेत की करण्यासारख्या .व्यायाम करा ,नविन भाषा शिका ,जे आवडेल ते करा, जे जमेल ते करा.

आई-बाबांशी बोला, त्यांना काय वाटते हे विचारा. पण जेव्हा आमच्या काळी... असे वाक्य येईल तेव्हा तिथून पळ काढा बर का.वेळ सत्कारणी लावा. ही सुवर्णसंधी वापरा आणि बहु गुणी होण्याचा प्रयत्न करा. आता उन्हाळा संपत आला आहे आणि पावसाळा सुरु होईल .तुम्ही खाह्याल्या आंब्याच्या कोय जमिनीत लावा. असे असंख्य झाडे तुम्ही लावू शकता. कावळे, चिमणी, पोपटी इत्यादी पक्ष्यांना पाणी पिऊ घालू शकता.ह्या लॉकडाऊनची सकारात्मक बाजू ओळखा .वेळ आहे बराचआपल्याकडे, तो सत्कारणी लावा .स्वतःची काळजी घ्या घरच्यांची काळजी घ्या. आता शेवटचं, टीव्हीवर, रेडिओवर, फोनवर, पेपरात बघून, ऐकून, वाचून पार वीट आला असेल तरी परत सांगते, STY HOME, STY SFE.

- शिवानी पोखरकर
तृतीय वर्ष
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ताळेबंदी

आजकाल लहानांपासून ते मोठ्यांपर्यंत सर्वांच्या ध्यानी-मनीअसणारा एकच शब्द, ताळेबंदी! अर्थात लॉकडाऊन. ही का झाली? कशी झाली? हे आपल्या सगळ्यांनाच माहिती आहे. आज ज्याने संपूर्ण जगात आपल्या प्रादुर्भावाने धैमान घातले आहे, अशा कोरोना, म्हणजेच कोविड-१९ ह्या विषाणूमुळेच आज ही ताळेबंदी करण्याची वेळ आली. तर हा कोरोना म्हणजे नक्की काय? तर हा एक संसर्गजन्य विषाणू. ह्याचा प्रसार संसर्गाने, म्हणजेच एकमेकांच्या नजीकच्या संपर्कात आल्याने होतो. जागतिक आरोग्य संघटना (थकज) ने तर ह्याला 'जागतिक महामारी' घोषित करून टाकलय! यावरूनच याचे गांभीर्य आपल्या लक्षात येते. आपण संपूर्ण जगभराने पाहिलेली ही ताळेबंदी, जसं आपल्या सगळ्यांना माहिती आहे कि, सर्व प्रकारचे वाहतूक सेवा बंद झाल्या, उद्योग धंदे बंद झाले, शाळा महाविद्यालय बंद झाले आणि सगळे घरी बसले

म्हणजेच काय तर सगळे एका छाताखाली आले, तेव्हा अनेक लोकांनी मदतीचा हात दिला म्हणजेच काय तर आपल्याला माणुसकी पाहायला भेटली. आपण सगळे पाहताच होतो कि ह्या काँवीड च्या परिस्थिती मध्ये डॉक्टर, नर्स, सफाई कामगार, पोलीस न चुकता त्यांचे कर्तव्य पार पाडत होते, त्याच्याबद्दल एक खूप सुंदर वाक्य वाचायला भेटलं ते म्हणजे, मंदिरे बंद आहेत, कारण देव स्वतः हॉस्पिटल मध्ये आपली सेवा करतात!

सर्व उद्योग धंदे बंद पडल्यामुळे खूप सान्या लोकांचे खायचे हाल झाले अगदी काही लोकांना त्यांचा जीव देखील गमवावा लागला, ह्या ताळेबंदी मध्ये लोकांना समाजायला लागलं कि, आपण जेवढे निसर्गाचा न्हास करू तेवढं आपल्या स्वतःसाठी किती भयानक आहे. सगळ्यात महत्वाची गोष्ट म्हणजे ताळेबंदी च्या काळात किती मोठ्या प्रमाणात प्रदूषणात घट झालेलेली

दिसून आली. ह्या सगळ्यात अत्यंत मन लावून काम करणार शेतकरी वर्ग फक्त जगाची भूक भगवण्यासाठी.

आता एवढा वेळ आपण जागतिक पातळीवर चाललं होत बरोबर ना, जर आपण आपल्या घरात डोकावून पाहिलं तर अशी एक व्यक्ती जी ताळेबंदीच्या आधी ही काम करत होती, ताळेबंदी

मध्येही काम करत होती आणि नंतरही करत आहे, ती म्हणजे आई. आपल्या सगळ्यांना तीच महत्व ह्या ताळेबंदी च्या काळात समजलं कि ती आपल्यासाठी किती करते आणि हे सगळ्या मध्ये तिची एक चा इच्छा असते कि तिच्याशी सगळ्यांनी नीट बोलाव आपण खरंच करतो का असा?

अजून एक ह्या ताळेबंदी ने शिकवलेली गोष्ट ती म्हणजे संयम. कारण ह्या काळात आपण संयमणे वागून, घरात बसून एक

महत्वाची जबाबदारी बजावली आहे बरोबर ना, आपणजर आपण संयमणे वागायला लागलो तर सगळ्यांना समजून घायला शिकलो. ह्या ताळेबंदी मुळे आपल्या वैयक्तिक विकासवर ही चांगला परिणाम झाला, ह्या ताळेबंदी मुळे अनेक लोकांना त्यांच्यातील गुप्त गुणांची जाणीव झाली आणि ज्यांना त्यांच्यातील गुण अधिपासून माहिती होते त्यांनी त्यात वाढ केली. आपण स्वतः ला पाहू शकलो, खूप काही नवीन गोष्टी शिकू लागलो, हे सगळं समजलं फक्त ताळेबंदी मुळेच!

—आकांक्षा शिंदे

द्वितीय वर्ष

माहिती आणि तंत्रज्ञान



हे कोरोना... तु आता आवशायला हवं

हे कोरोना तू आता आवशायला हवं, जगणंही स्वतःला सावरायला अरे बाबा बघता बघता वर्ष घेऊन गेलास त्याबदल्यात फक्त नैराश्य दिले अरे या वर्षाच्या सुरवातीला नवीन वर्षाच्या शुभेच्छांनी सगळ्यांच्या मोबाईलचे इनबॉक्स भरले, पण मार्चच्या अखेरीस तू मात्र सगळ्यांच्या जगणंच डिलिट केलंस. अरे वैताग आला तुझ्या उद्धटपणाचा सांग कधी मार्ग मिळेल पुन्हा नव्याने जगण्याचा, अरे दिसला असतास तर निरडद्या छाती ने लढलो असतो पण तू मात्र पाठीमागून वार करणाऱ्या शत्रूंच्या गटात बसतोस. तुझ्या हहाहाकरणे सगळी दुनिया हादरली ड्युटीवर डॉक्टर जाताना त्याची स्वलीशी चिमुकली बिथरली. अरे बाबा काम करून संसाराचा गाडा चालतो आणि लोक डाऊन च्या घोषणा नंतर वीदर भर पोटाच्या भुकेचं काय? हा प्रश्न मनाच्या अंतरात राक्षस म्हणून दवतो. अरे टीसभर आयुष्याला आभाळभर स्वप्नांची आस आमची. पण अडथळ्याच्या शर्यती तुझीच जास्त उंची. दरवर्षी चंद्रभागेच्या तिरी माऊलीच्या गर्दित विड्ढल उभा राहील यावेळी पोलिसांच्या वर्दीत आम्ही आमचा विड्ढल पाहिला.

-ओम गाजरे
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‘व्यक्त व्हा मुक्त व्हा’

लॉकडाऊनमध्ये एकदा सहज बिगबॉस मराठीचे मागचे भाग बघतांना एक भाग मनात वेगळ्याच कारणासाठी मनात घर करून राहिला, तर त्या भागात असं दाखवलं होतं - घरातील सदस्यांच्या मनामध्ये एकमेकांविषयी प्रचंड राग खदखदत होता, नावडत्या सदस्याविषयी सारखी नाराजी व्यक्त करताना हे सदस्य दिसत होते मग बिग बॉसने या सर्वांना एकमेकांविषयीचा हा राग व्यक्त करण्यासाठी चक्र ‘व्यक्त व्हा मुक्त व्हा’ असा टास्कच दिला.

बिग बॉसच्या घरातील गार्डन एरियामध्ये एक पंचिंग बॅग आणि त्यासोबत बॉक्सिंग ग्लोव्ह्स ठेवण्यात आले होते. तसेच सर्व सदस्यांचे फोटोज शेजारी मांडले होते. घरातील आपल्या नावडत्या व्यक्तींचे फोटो त्या पंचिंग बॅगवर लावून आपल्या मनातील राग बाहेर काढायचा होता. सदस्यांनीदेखील या टास्कमध्ये इतर सदस्यांविषयी वाटणाऱ्या कटू भावनांना वाट मोकळी करून दिली. त्यांच्या मनात साठलेला राग व्यक्त केला.

इतकं महत्वाचं असतं का हे राग, लोभ, आनंद, प्रेम प्रसंगी द्वेष देखील व्यक्त करणं ?
तर हो, हे आणि हेच खूप महत्वाचं आहे.

गेल्या काही वर्षात आणि आता नुकत्याच सरलेल्या वर्षात देखील प्रसिद्ध व्यक्तींच्या आत्महत्येच्या बातम्या आपण ऐकल्या त्यात अध्यात्मिक गुरु, समाजसेविका, अभिनेते ही होते,

तर आत्महत्या करणं सोयीचं वाटावं अशी नेमकी काय उलथापालथ चालत असते मनात ?

याविषयी मध्यंतरी एक छान फॉरवर्ड मेसेज वाचण्यात आला त्यात म्हटलं होतं की प्रसिद्ध व्यक्तीही हाडामांसाची माणसं असतात त्यांनाही भावनिक निचरा होण्यासाठी एक आउटलेट हवा असतो, कोट्यावधी रुपये खर्च करून धरण बांधले आणि समजा त्याला outlet च दिल नाही तर अक्षरशः धरण फूटले असते.. इतकं महत्वाचं असते हे waste weir

आपलं मानवी शरीर म्हणजे विविध पंचतत्वापासून सांधलेलेलं एक धरणच समजूया या शरीरात समस्यांची आवक अती प्रमाणात झाली तर हे धरण फुटणारच म्हणून आपलं outlet सदैव सताड उघडं ठेवा. आपल्या तोंडाचे outlet वापरून आपल्या समस्या आत्मस्वकीयांकडे सांगा, आपल्या अंतर्मनाचं outlet Open करण्यासाठी विपश्यना, ध्यान साधनेचा अवलंब करा आणि शक्य झाल्यास जगातील सगळ्यात मोठं outlet म्हणजे आपले डोळे. उघडा, फुटून जाऊद्या अश्रूचा बांधवाहून जाऊद्या स्ट्रेस, दूःख, उपेक्षापिस्तौल च्या गोळीने डोक्याला छिद्र पाडण्यापेक्षा, पंख्याला लटकण्यापेक्षा. हे केव्हाही सोपपनाही का ?

बेस्ट आउटलेट असतात आपले मित्र आणि मैत्रिणी त्यांच्या सोबत हसा ! बोला ! रडा ! भांडा ! पण व्यक्त व्हा !! मुक्त व्हा...!!

प्रसाद शिरगावकर ह्याविषयी छान वक्तव्य करतात ते म्हणतात आजच जग हायपर कनेक्टेड आहे क्षणार्धात बातमी जगाच्या कानाकोपऱ्यात पोहचते, व्हायरल होते आणि मग आपल्या मनात भावनांची प्रचंड वादळं निर्माण होतात, त्यांच्याबद्दल मनातून अगदी आतून काहीतरी वाटत असतं, खुपत असतं, बोलावसं वाटतं, भरभरून व्यक्त व्हावंसं वाटतं. त्याविषयी आपल्याला जे वाटतं ते आख्ख्या जगाला ओरडून सांगावंसं वाटतं.

व्यक्त व्हावंसं वाटेल तेंव्हा ते करावं ! भरभरून, भडभडून व्यक्त व्हावं. बरं असतं ते तब्येतीसाठी ! आपण जिवंत असण्याचं लक्षण असतं ते, पण हे करताना एक दोन महत्वाच्या गोष्टी करायला हव्यात. मुळात ज्या घटनेच्या बातमीने आपल्या हृदयात कालवाकालव झाली ती खरी आहे का हे तपासायला हवं. त्या घटनेच्या जमतील तितक्या बाजू तपासून घेऊन त्यातलं तथ्य शोधायला हवं अन ही तपासणी, हा शोध झाल्यावर पुन्हा एकदा, आपल्याला त्या घटनेविषयी काय वाटतं ते तपासून घ्यायला हवं. हे करून झालं की मग

आपल्याला जे वाटतं ते बिनधास्तपणे मांडायचं! आपल्या स्वतःच्या शब्दांत आपल्या स्वतःच्या हक्काच्या व्यासपीठावर (म्हणजे आपली फेसबुक वॉल, ट्विटर हँडल इत्यादी) मांडायचं. आपल्याला जसं वाटतं तसं मनमुरादपणे व्यक्त व्हायचं. कोणत्याही घटनेविषयी आपल्याला खरोखर काय वाटतं ते आपण तपासत राहून ते व्यक्त करत राहिलो, तर त्यापासून मुक्तही होत रहातो म्हणूनच (अभ्यासाने अन जबाबदारीने) नेहमी व्यक्त व्हा, अन मुक्त व्हा!! **

याच संदर्भात शिवाजी भोसले यांच्या 'आत्मभान जगण्याचं' या पुस्तकांत ते म्हणतात की प्रत्येक व्यक्तीचं जीवन दिवसेंदिवस गतीमान होत चाललयं. एकतर ते गतीमान होत असावं. किंवा गतीमान केलं जात असावं. जीवन गतीमान होण्याचं नेमक कारण तरी काय असावं? याचं उत्तर प्रत्येकाला माहिती असतं. पूर्वी नव्हतं ते आताचं कसं गतीमान झालयं? या गोष्टीचा अभ्यास करणं आवश्यक आहे. ऑफिस, नोकरी, व्यवसाय, शेती याकरिता झटणं आणि झगडणं असतं. ते टिकविणं.. वाढविणं.. आणि वाचविणं.. यातूनच जीवन अधिक गतिमान झालं असावं.

जीवनात जगण्यासाठी प्रत्येकाला पोट भरावचं लागतं. त्यासाठी काहीतरी करावचं लागतं. पोट भरण्यासाठी काहीचं केलं नाही, असं होत नाही. निदान खावं तरी लागतचं ना आणि हे खायचं म्हटलं तर त्यासाठी काहीतरी करावचं लागतं. प्रत्येकाकडे जीवनभर पुरेल इतक तरी सध्याच्या काळात साठविलेलं नसतं. ती आवश्यकताही सद्यस्थितीत वाटत नाही. पूर्वी तसं करावं लागतं होतं, ती आवश्यकता होती. आता साठवून ठेवणं अशक्य आहे.

एकीकडे जीवन जगण्याची आशा, अनंत ध्येय्य, जगण्याची उम्मेद, तर दुसरीकडे मानवाचं दुःख, ताणतणाव, यातना, जीवनात आलेलं नैराश्य, हातातून निसटून गेलेले क्षण पुन्हा हेवेसे असतात, पण ते शक्य असतं का? हळुवार निसटलेल्या क्षणांना परत आणता येतं का?

जीवन जगत असतांना प्रत्येक व्यक्तीला दुःख, यातना, ताणतणाव, चिंता, नैराश्य येतचं. आणि ते येणंही आवश्यक असतं. ते नसलं की जीवन अधुरचं असतं. त्याचं असणं महत्वाचं असतं. पण ते जीवघेणं नसावं. ते कायमचं नसतं, काही क्षणाचं असतं. त्याचं थांबण क्षणभर असतं. पण मनाला चटके देणारं असतं. दुःख, यातना, भावभावना, ताणतणाव, चिंता, नैराश्य काही क्षणासाठी येतं पण संपूर्ण जीवनचं व्यापून टाकतं. त्याचं व्यापून टाकणं अधिकाधिक मनाला खात जातं.

व्यक्तीचं दुःख, यातना, ताणतणाव, चिंता, नैराश्य यासोबतचं का नातं जोडलं जातं असावं? ते सोडून माणसांना जगता येवू शकता का? मानवी जीवनात त्यांच स्थान काय? असे कित्येक प्रश्न प्रत्येकांसमोर उभे आहेत. आणि या प्रश्नांचं उत्तर शोधणं खूप कठिण झालयं.

प्रत्येक घटनेला, माहिती, बाबींना दोन किंवा त्यापेक्षा अधिक बाजू असतात. तसचं जीवनाचं आहे. जीवन हे एकांगी चालूच शकत नाही. त्याची असंख्य कारणं आहेत. ती शोधणं आवश्यक आहेत. यासोबतचं आनंद, सुखासोबत दुःख चालत येत असतं. त्याला कवटाळायचं नसतं, त्याला बाजूला सारायचं आणि पुढे चालायचं, हेचं खरं जीवन असतं.

प्रत्येक व्यक्तीला स्वतःचं दुःख, यातना, मनातलं सांगायचं असतं. मन मोकळ करायचं असतं. मत मांडायचं असतं. ते व्यक्त होणं आवश्यक असतं. पण ते व्यक्त करायचं कुणाकडे? ऐकुण घेणारं कुणीचं नसतं. प्रत्येकाला वाटतं आपलं ऐकलं जावं. मात्र ऐकायचं कुणालाचं नसतं. कुणीतरी आपलं ऐकावं असं वाटतं तर इतरांचंही ऐकलं पाहिजे. आणि ही सुरुवात स्वपासून करावी.

प्रत्येकाचं मत आणि मन व्यक्त होणं आवश्यक आहे. ते मांडणं गरजेचं असतं. मनातं असलेलं मनात दडवून ठेवणं खूप कठिण असतं. ते दडवावं तरी किती? आणि कुठवर दडवावं? मनातलं जितकं दडवलं ते तितकचं बाहेर पडतं. त्यामुळे मनात दडवून ठेवणं अशक्य असतं. ते रित करावचं लागतं.

मनात असलेलं अधिक दडवून ठेवलं की मन अधिक खचून जातं. मनाचं खचलेपण अधिक होत. मानवी मनास, भाव भावनांना साचलेपण येतं. मन मनातचं अधिक भारी होत आणि डोळ्याच्या वाटेने बाहेर पडतं. डोळ्यात साठविलं जातं. मनात असलेलं बाहेर

पडणं आवश्यक असतं. साठवणलेलं रित होणं आवश्यक आहे. ते रित कराचं !

मन व्यक्त झालं तर भावभावना, यातना, तनावतातून मुक्त होता येतं. मुक्त व्हायचं असेल तर व्यक्त होणं गरजेचं ठरतं. व्यक्त झालं तर मुक्त निश्चित होता येतं. त्याकरिता बोलतं होणं गरजेचं ठरतं. व्यक्त होणं म्हणजे खचणं नव्हे तर जीवनाला काहीतरी नवं देण्यासाठी, नवं अंकुरण्यासाठी, बहरण्यासाठी एकप्रकारचं पेरणं असतं.

अनेकांना मुक्त व्हायचं असतं पण व्यक्त होता येत नसतं. त्यांचं मनाचं खोळंबलेपण मनालाचं अधिक खात जात. मनास, भावनास अधिक खालावत जातं. मनाचं खालावणं, खचत जाणं खूप गंभीर असतं. व्यक्त होण्यासाठी तसं एकुण घेणारं कुणी असावं लागतं. जवळचं कोणीचं नसतं, हे पण अव्यक्त होण्याचं कारण असावं. असं का होतं? आपलं ऐकण्यासाठी कुणीच का नसावं? याचा प्रत्येकांनी विचार करणे आवश्यक आहे.

आपण व्यक्त व्हावं आणि इतरांनी अव्यक्त रहावं असं नाही. तर त्यांनीही व्यक्त झालं पाहिजे. दोघांनीही व्यक्त झालं तर मनाचं दडपण, ओझं कमी होत जातं. हे ओझं कमी करावं असं वाटतं तर हक्काचं कुणीतरी असावं लागतं. हक्काचं कुणीचं नसलं की व्यक्त होता येत नसतं. आणि व्यक्त व्हावं ही कसं? बोलण्यास कुणीचं नसलं की व्यक्त कुणाकडे व्हावं? विश्वासाचं, आपुलकीचं, जिद्दाल्याचं कुणीतरी असावं लागतं ना हक्काचं असलं की केव्हाही व्यक्त होता येतं. पण हक्काचं कुणीचं नसलं आणि व्यक्त झालं तर पुन्हा नव्या समस्यांना, संकटांना सामोरं जावं लागतं. त्याकरिता व्यक्त होण्यापूर्वी समोरची व्यक्ती भावनांना जपणारी आणि समजून घेणारी आहे का? हे आवश्यक तपासून घ्यावं. प्रत्येकाकडे औषणं मिळतचं असं नाही पण मिठ नक्कीचं मिळतं. आणि भळलेल्या जखमेला बरं करता यावं याकरिता औषधचं हवं, नव्हे की मिठ..

दुःख, यातना, तानतनाव, भावभावना, नैराश्याच्या गर्तेत अडकलेल्यांना शिताफिने बाहेर काढण्याचं असतं. त्यांच्या मनाचं, भावनाचं, विचारांचं आणि एकंदरीत जीवनाचं ओझं हलकं करायचं असतं. मनाचं ओझं एकदा हलकं झालं की जीवनाचं जगणं अधिक सुंदर होत जातं.

‘जगा आणि जगू द्या’ ही विचारप्रणाली जीवनात प्रत्यक्ष साकारतांना अनेकांचं जीवन सुंदर व्हावं, याकरिता प्रत्येकाचं जगणं असावं. प्रत्येकांनी बोलत रहावं, सातत्याने व्यक्त होत रहावं. व्यक्त झालं की मुक्त होता येतचं. चला प्रत्येकाचं जीवन सुंदर करण्याकरिता व्यक्त व्हावं ! मुक्त व्हावं !!

- मयूर धुमाळ

लॅब असिस्टंट अणुविद्युत आणि दूरसंचार अभियांत्रिकी

पुस्तक ओळख

पुस्तक-शोध
लेखक-मुरलीधर खैरनार
प्रकाशन-राजहंस प्रकाशन
रुपये-५५०

भूतकाळ

कथानकाची सुरुवात महाराजांच्या काळात होते. सुरत दुसऱ्यांदा लुटल्यावर मिळालेली अमाप लूट दोन भागात विभागली गेली, एक भाग सुखरूप पोहचतो पण दुसरा मोठा भाग गोंदाजी नारो याच्या देखरेखीखाली स्वराज्यात येणार असतो, गोंदाजीला शत्रूच्या हातात सापडल्याची जाणीव होताच तो खजिना लपवला गेला.

वर्तमानकाळ

गेल्या साडे तीनशे शतकांपासून खजिन्याचा शोध या न त्या मार्गाने चालूच आहे. खजिना दोन गट शोधत आहे, केतकी आणि शौनक व दुसरा गट पावरफुल आबाजीचा.

प्रत्येकाच्या शोधामागे एक लपलेलं मोटिव्ह आहे आणि ते हळूहळू उलगडत जातं. केतकीच्या शोधला देखील साडेतीनशे वर्षांचा रेफरन्स आहे.

मूळ कथानक वेग घेतं जेव्हा इंग्लंडमध्ये असणारी केतकी शौनकची इतिहासप्रेमी मैत्रीण क्लारा भारतात येते. तिच्याजवळ तिच्या घराण्यात महाराजांच्या काळात भारतात असणाऱ्या एका पूर्वजांची ठेव आहे, ती ठेव भारतात येते आणि खजिन्याचा शोधची उत्कंठावर्धक कहाणी सुरु होते.



केतकी शोधत असलेली 'ती' अमूल्य गोष्ट त्या खजिन्यात आहे. नासिक परिसरात हा चित्तथराक शोध सुरु होतो.

क्लू वर क्लू मिळत जातात आपण गुंतत जातो, गुरफटत जातो. कथेत येणारी सगळी पात्र कथानक अजून रंजक करतात.

कोण अगोदर सोडवंतं गोंदाजीचं कोडं? कोण पोहचतं खजिन्यापर्यंत?

मस्ट रीड बुक!!

इंटरस्टिंग डिटेल्स

कथा पूर्णपणे नासिक बागलाण भागात आकार घेते, नाशिकला इंजिनिअरिंगची चार वर्षे काढल्याने कथेचा प्लॉट मला खूप जवळचा वाटला.

सप्तशृंगीचा डोंगर, सातमाळा डोंगर रांग, वणी गावाच्या आजूबाजूची गावं, राजदेहेर, कोळदेहेर, अहिवंत, रवळ्या जावळ्या, अचल्या, किल्ल्यांचा तसेच तवल्या डोंगराचा प्लॉट, आदिवासी लोकांचा भाया उत्सव, गौळ, माऊली त्याचं डिटेलिंग भन्नाट.

सप्तशृंगी डोंगराचा उभा कातळ गूढ वाटतो, मला तरी तो वाटत आलाय त्याच्यामागे काहीतरी रहस्य असेल असं नेहमी वाटायचं, पुस्तकात त्या अनुषंगाने एक ट्रिस्ट येतो तेव्हा 'बघा, हेच मी लहानपणापासून म्हणत होते' असं आपसूक

मनात आलं.

सर्वात कडी ट्रिस्ट म्हणजे क्रांतिकारक अनंत कान्हेरे यांनी ज्याला मारलं होतं तो नाशिकचा कलेक्टर जॅक्सन त्याचा ह्या रहस्यात असलेला सहभाग त्याची गुंफण एकदम अप्रतिम.. अप्रतिमच!

एक मात्र आहे की पुस्तकात खूप unnecessary references आहेत ज्यांची खरच गरज नव्हती. काही ठिकाणी आपण चुकून विकिपीडिया तर नाही वाचत आहोत असं वाटतं बऱ्याच ठिकाणी ते काढले असते तर ६०/७० पानं नक्की कमी झाली असती.

काही रहस्यांचे धागेदोरे तर इतके सहज सापडतात की एक दोनदा सहज तोंडात येतं ह्या, काहीही हा श्री.. आणि काही खूप भन्नाट पध्दतीने सोडवली आहे, तरीही पुस्तकाच्या blurb मध्ये म्हटल्यानुसार श्वास रोखून लावणारं रहस्य, वेगवान घटनाक्रम आणि बघातर तास चाललेला हा अद्भुत थरार पुस्तक खाली ठेऊ देत नाही.

२० वर्ष ह्या कथेवर लेखकाने काम केलंय, ह्याचा सिक्केल येणार होता पण त्यापूर्वीच त्याचं निधन झालं.

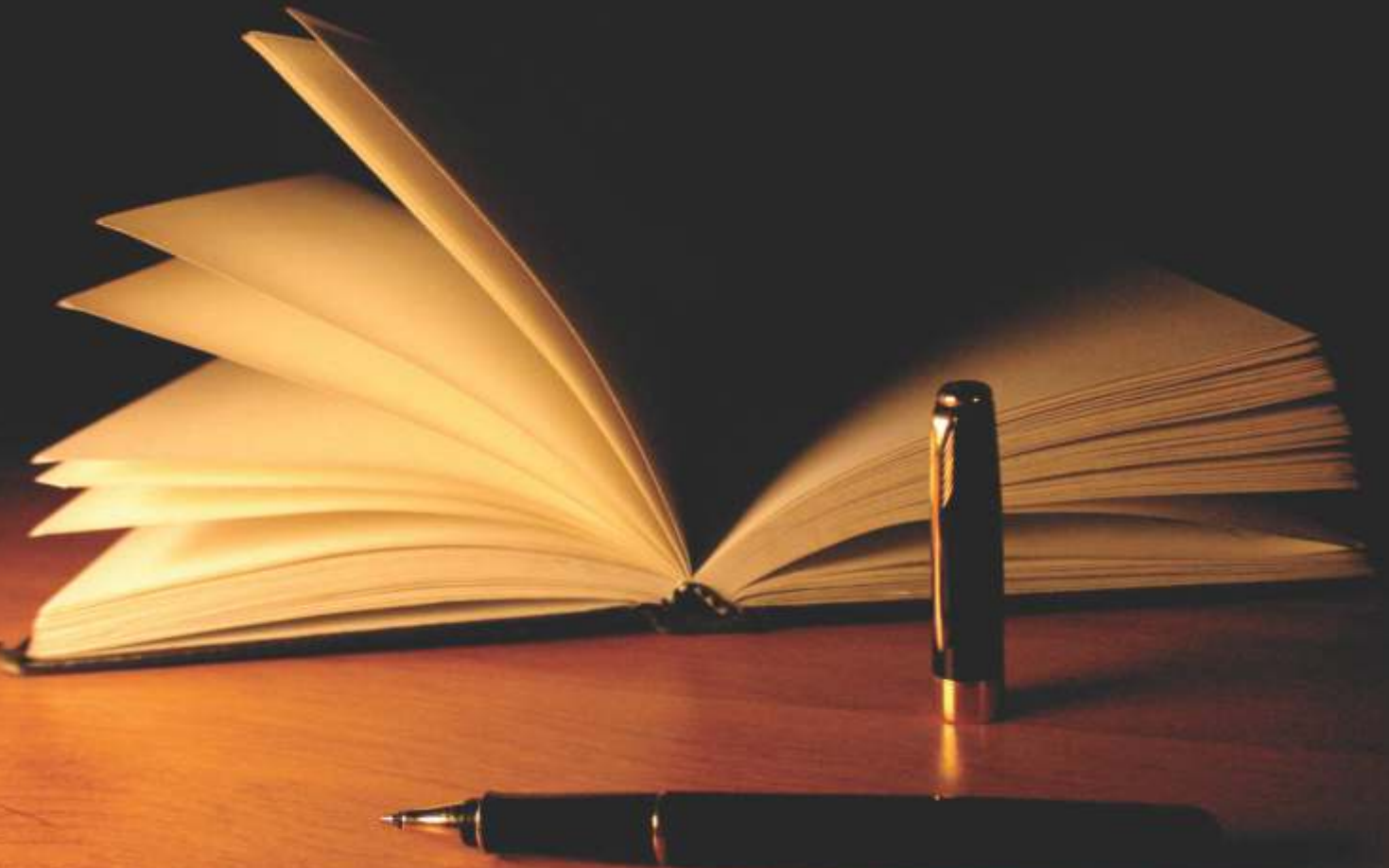
नासिककर, सातमाळा डोंगर किंल्ले भटकलेल्या वाचकांनी तर आवर्जून वाचा, खूप रिलेट होतं.

डॅन ब्राऊनची 'द विंची कोड' चं मराठमोळं फिलिंग येतं! पुस्तक खाली ठेवलं तरी डोक्यात ते अकरा किंल्ले, जॅक्सन, वणी, दरेगाव, नाशिक हेच फिरत असतं.

(लेखकाने खूप मेहनतीने अभ्यासपूर्वक ऐतिहासिक, भौगोलिक, वैज्ञानिक, अभियांत्रिकी संदर्भ दिले आहे तरीही आपण कादंबरी वाचतोय हे लक्षात असू देत, प्रसंग, घटना काल्पनिक आहे)

- हर्षदा मगर

सहाय्यक प्राध्यापक
अणुविद्युत आणि दूरसंचार विभाग



पाहुणा...

झाले सुरु नवीन वर्ष '२०२०',

'कोरोना' नावाचा नवीन पाहुणा अजूनही गेला का नाही!

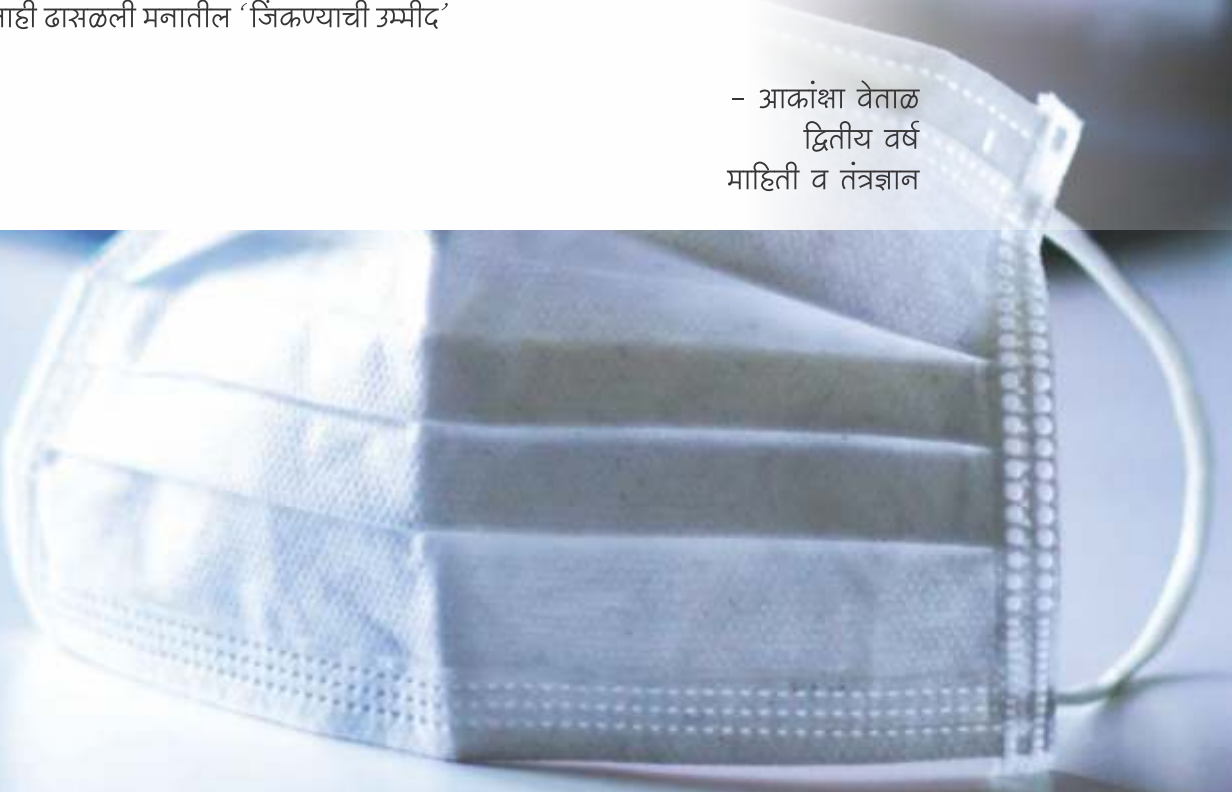
पाहुणा आल्यापासून सर्वकाही बदलले त्याला घाबरून 'लॉकडाऊन' सुरु झाले.

'लॉकडाऊन' चालू-बंद, चालू-बंद होत गेले. कोरोनाच्या आजाराने साथ देणाऱ्यांनी जीव गमावले. या पाहुण्याने चांगलेच केले हाल. पण महत्वाच्या गोष्टींची जाणीव मात्र मला फार. घरातील तुटलेली नाती जवळ आली. त्यासोबत घरातील कामेही करावी लागली. पण तीच कामे करणाऱ्या लोकांची जाणीव मात्र नक्की झाली.

श्रीमंतांच्या घरी काही काम नाही म्हणून बनले काही आचारी, पण काही काम नाही म्हणून झाली गरीबांची लाचारी. माणसाला माणूसकी कळली; जणू मदत करणाऱ्या माणसांत देवाची जाणीव झाली. एकमेकांना साथ देऊन आले '२०२१'.

अजूनही नाही ढासळली मनातील 'जिंकण्याची उम्मीद'

- आकांक्षा वेताळ
द्वितीय वर्ष
माहिती व तंत्रज्ञान



लॉकडाऊन - देशाला लागलेले ग्रहण

मित्रांनो वाचून नक्कीच तुम्हाला आश्चर्य वाटेल की, देशाला कधी ग्रहण लागू शकते का? ग्रहण हे चंद्राला लागते, सुर्याला लागते, देशाला कसे काय? पण मागच्या वर्षापासून कोरोनाचे हे जे संकट आलेले आहे ते जगाला जणू काही एक ग्रहणच लागलेले आहे. स्वर्गीय राष्ट्रपती डॉ. ए. पी. जे. अब्दुल कलाम यांची 'इंडिया २०२०' ह्या वर्षासाठी एक स्वप्न पाहिले होते. त्या स्वप्नात भारताने खूप प्रगती करावी अशी त्यांची इच्छा होती. पण वास्तविक २०२० मध्ये काही विपरीतच घडले.

कोरोनाचा जन्म २०१९ मध्ये चीनच्या वुहान ह्या शहरात झाला. ह्या विषाणूचे गांभीर्य योग्य रीतीने न घेतल्याने त्याचा प्रसार वेगाने चिनमध्ये तर झालाच पण २०२० च्या सुरुवातीपासून जगभरात त्याचे पाय पसरले गेले. कोरोनामुळे जगभरात लॉकडाऊन झाले. नाईलाजाने हळूहळू सगळ्या जगाची सर्व क्षेत्रातील पाऊले थांबू लागली. कित्येक परीक्षा पुढे ढकलल्या गेल्या तर काही परीक्षा रद्द झाल्या. असे वाटू लागले विद्यार्थ्यांचे शैक्षणिक वर्ष स्थगीत होईल. मात्र तंत्रशास्त्रामुळे विद्यार्थी घरात बसूनच मोबाईल, लॅपटॉपच्या द्वारे 'ऑनलाईन' शिक्षण घेऊ लागले. विद्यार्थ्यांनाच नव्हे तर ऑफीसमधील कर्मचाऱ्यांसाठी सुद्धा 'वर्क फ्रॉम होम'ची सुरुवात करण्यात आली.

महत्वाच्या कामांसाठी बाहेर पडतांना तोंडाला मास्क लावणे, एकमेकांपासून अंतर ठेऊन राहणे, घरी आल्यावर सॅनिटाईजर ने हाथ स्वच्छ करणे, हे सर्वांच्या सर्वईत येऊ लागले. प्रशासनाने असे कठोर कायदे करून कोरोनाला नियंत्रणात ठेवण्याचे प्रयत्न केले. कोविड सेंटर सुरु करण्यात आले. विलगीकरणामुळे या रोगावर नियंत्रण आणण्यात सरकारला यश मिळाले होते पण अशा जिवधोक्या रोगामुळे अनेक लोकांचा मृत्यू होत होता. कित्येकांनी आपले सगे-सोयरे, स्नेही गमावले.

या काळात आपले सफाई कर्मचारी, नर्सेस, डॉक्टर्स यांनी अत्यंत कौतुकास्पद काम करून दाखवले. हातावरचे पोट असणाऱ्या मजूरांची उपासमार सुरु झाली. कारण, रेल्वे, बस इतर येण्या-जाण्याची साधनेच बंद! पाई गावाकडे धाव घेणाऱ्या मजूरांच्या हाल-अपेक्षा पाहवत नव्हत्या. त्यांना शासनाकडून, खाजगी संस्थांकडून मदत मिळाली. कोरोनाची लस निर्माण करण्यासाठी जगातील वैज्ञानिक अटोकाट प्रयत्न करीत होते. या प्रचंड संकटावर अखेर अनेक देशांना मात करण्यात यश येऊ लागले आहे. आपल्या देशात या प्रयत्नाला नव्या वर्षात यश आले आहे. लसिकरणाचा कार्यक्रम सुरु झाला आहे. संकटकाळाने माणुसकी, संयम, धैर्य, चिकाटी शिकविली आहे. जात-पात, श्रीमंत-गरीब या भिती या काळाने पाडून टाकल्या. खऱ्या अर्थाने या संकटावर मात करून आपला देश आत्मनिर्भर झाला आहे. ग्रहण हे कधीच कायम राहत नाही. जसे चंद्र व सुर्याचे ग्रहण काही तासांनी सुटते त्याचप्रमाणे कोरोना हे देशावरचे ग्रहण हळूहळू सुटणार आहे.

जय महाराष्ट्र ! जय हिंद !!

-ईशा नाडकर
माहिती व तंत्रज्ञान

COVID-19

LOCKDOWN

COVID-19

LOCKDOWN

COVID-19

LOCKDOWN

सोपे नाही...

हे सर्व एक वाईट स्वप्न आहे. या आशेने त्यांनी त्यांचे डोळे उघडले परंतु त्यांना सत्याची जाणिव असून त्यामध्ये त्यांना जगायचे आहे ते त्यांना ठाऊक होते. त्यांनी आजूबाजूला पाहिले आणि बाहेर जाऊ लागले 'बाबा!' तुम्ही तुमचा मार्क विसरले आहात त्यांच्या मुलाने आवाज टाकला. त्यांनी मार्क लावले व त्यांचे केलेले काम पाहण्यास निघाले.

सर्वत्र लोक कोविडमळे निर्माण झालेल्या 'नव सामान्य' परिस्थितीशी जुळवून घेण्याचा प्रयत्न करीत होते. त्यांना डॉक्टर, पोलीस, सफाई कर्मचारी इ. यांच्या बदल प्रचंड आदर होता. कारण ते स्वतः त्यांचे आयुष्य धोक्यात घालून इतरांचे आयुष्य वाचवित होते आणि त्या बदल्यात त्यांना तो आदर मिळत नव्हता ज्यासाठी ते पात्र आहेत.

त्यांनी जिथे तिथे पाहिले तिथे लोक एका अनिश्चिततेच्या सावटाखाली जगत होते. अनेक लोकांनी अचानकपणे काहीही समाजावण्याच्या आत आपल्या प्रियजनांचा सहवास गमावला होता. आणि हे नवीन सत्य अत्यंत भयावह होतं. तसेच बऱ्याच लोकांचे उपजीविकेचे साधन त्यांच्या हातून हिरावून घेतले होते. लोक अन्नपाण्यासाठी धडपडत होते. रस्त्या-रस्त्यातून, गल्ली-गल्लीतून नवीन आयुष्य सुरू करण्याच्या संधी शोधत फिरत होते, भटकत होते.

जे काही घडत होतं, त्यांचीदेखील चांगली बाजू होती. लोक दयाळू झाले आणि प्रत्यक्षात ते एकमेकांशी अधिक जोडले गेली. सर्व गरजू लोकांची स्वइच्छेने मदत करायला लागले. नवीन स्वप्न आकांक्षा घेऊन लोक पुन्हा उत्साहाने प्रयत्न करीत होते. यावेळी सर्व संकुचित समाजाने विभागले गेले नाहीत. कोविड मुळे बाहेर येत नाही म्हणून सर्व घरी बसून असे. त्यामुळे ज्या पालकांना त्यांच्या कामामुळे त्यांच्या मुलांना-कुटुंबाला वेळ देता येत नव्हता ते आता त्यांच्या कुटुंबाला वेळ देत होते. सर्व संकटांना सामोरे जाऊन एकोप्याने राहत आहेत. त्यामुळे खूप जनांचे त्रास कमी झाले आहेत. सर्व घरी असल्यामुळे दळणवळण कमी झाल्यामुळे वायु प्रदूषणही कमी झाले आहे. त्यामुळे ओझोन पातळीही पुन व्यवस्थित होत आहे.

काचेच्या पडद्यावर पाहून त्यांनी सर्व बातम्या जाणून घेऊन आपले जीवन व्यतीत करीत आहे. कदाचित, अजूनही आशा आहे सर्व व्यवस्थित होण्याची. हे सर्व पाहत असताना त्यांना माणुसकीचा पुनर्जन्म झाल्याची जाणीव झाली. ते मनात पुटपुटत बोलले की, मी मनुष्यांना योग्य मार्ग दाखविला तरी ते मनुष्यांवर आहे ते काय निवडणार. काही लोक वाईट मार्ग निवडून कोविड सारखे विषाणू बनून एकमेकांना मारण्यास उठतात. तर काही लोक योग्य निर्णय निवडून मदतीचा हात देऊन माणुसकी जपतात.

एक दिर्घ श्वास घेत आपल्या उत्तम कलाकृतीकडे बघत स्वतःशीच बोलले 'खरेच देव होणे सोपे नाही'.

- पौर्णिमा लोखंडे
इनफॉर्मेशन टेक्नॉलॉजी



लाकडाऊन

आत पाहतो मी बाहेर
मनुष्य दिसेना घरा बाहेर

पाहुनिया ही स्थिती
मन आले दाटून
डोळे आले भरून

हळूच विचार येई
चला जाऊ मंदिरा
घालूया देवा साकडं

पण लक्षात आले तेव्हा,
देव पण आहे बंदिस्त
तोही आपल्या सोबत

मन हळवे ते
लागले विणवू देवा
होऊ दे स्तवन हवन
उघड उघड दार

तेच मन हसुन मने
अरे अरे थांब
नको होऊ अशांत
हीच ती वेळ

देव पाही परीक्षा
नको जाऊस बाहेर
विना कमा

-मिरा केशट्टीवार
द्वितीय वर्ष
माहिती व तंत्रज्ञान

कोविड १९ - दी न्यू नॉर्मल

दोन ते तीन दशकांपूर्वी जर पूर्व आशिया किंवा अफ्रिका खंडातील कोणत्या देशात एखादी कोंबडी आजारी पडली तर ही गोष्ट त्या कोंबडीसाठी आणि त्याच्या मालकासाठी दुःखद असावी असेच सर्वांना वाटेल परंतु कोणी विचारही केला नसेल की यामुळे जागतिक पातळीवर रोग पसरून लाखो लोकांचा जीव जाईल. तसेच २ ते ३ दशकांपूर्वी जर उत्तर अमेरिकेतील एका बँकेने जर कोही लोकांना कर्ज दिले आणि पुढे जाऊन त्या बँकेला जर आर्थिक संकटांना सामोरे जावे लागले तर ही त्या बँकेसाठी आरि कर्जदारांसाठी वाईट बातमी होती. परंतु कोणीही विचार केला नव्हता की अशी एखादी गोष्ट पूर्व जागतिक अर्थव्यवस्थेला वेठीस धरून जवळजवळ एक दशक त्याच्या गुडघ्यांवर आणेल. हेच आहे “जागतिकीकरण”.

ह्या जागतिकीकरणावर नमुद केल्याप्रमाणे काही वाईट परिणाम झाले परंतु यामुळे बऱ्याच चांगल्या गोष्टी व लाभदायक परिणामसुद्धा दिसून आले. चीन देशातील वुहान या प्रांतात डिसेंबर २०१९ मध्ये कोरोना या विषाणूची साथ पसरू लागली व काही महिन्यांमध्येच या विषाणू रोगाची साथ जवळजवळ जगाच्या प्रत्येक कानाकोपऱ्यातील देशात पोहचली.

ह्या साथीचे पसरण्यामागचे कारण जागतिकीकरण आहे असे म्हणण्यास काही वावगं ठरणार नाही, परंतु हेच एक कारण आहे असे नाही. बऱ्याच तज्ञांच्या मते चीनने सुरुवातीच्या काही महिन्यांत या विषाणूच्या साथीबाबतची तपशिलात्मक माहिती व याच्या गांभीर्याबाबत मौन पाळले तसेच **WHO** सुद्धा वेळीच सर्व देशांमध्ये याबाबतची माहिती देण्यास असमर्थ ठरली. परंतु या सर्व गोष्टी दुय्यम दर्जाच्या होत्या कारण यापेक्षाही मोठे संकट जगातील ही साथ पसरलेल्या देशांपुढे उभे व ते म्हणजे या विषाणूचा संसर्ग व साथ कशी थांबवता येईल तसेच लोकांचे जीव कसे वाचवता येतील. साथ पसरलेल्या जवळजवळ सर्वच देशांमध्ये सुरुवातीच्या काळात काही महिन्यांसाठी टाळेबंदी (लॉकडाऊन) घोषित करण्यात आले कारण ह्या नवीन विषाणूच्या साथीस रोकण्यासाठी व थांबविण्यासाठी टाळेबंदी सोडून ह्यापेक्षा चांगला प्रतिबंधात्मक उपाय नव्हता. सर्वांसाठी मार्स्क, सोशल डिस्टेंसिंग (सामाजिक अंतर) ठेवणे हे नियम पाळणे जरूरी व नियमात्मक झाले. सामान्यतः मार्स्क ही गोष्ट फक्त डॉक्टर, डेंटिस्ट व काही ठराविक ठिकाणी जिथे धूळ व प्रदूषण अधिक प्रमाणात असेल अशाच ठिकाणी वापरले जायचे परंतु ही सवय हळूहळू जरूरी असल्याने सर्वांच्याच वळणी पडली. टाळेबंदीमुळे सर्वच क्षेत्रांना याचा फटका बसला. विषाणूच्या साथीचा व टाळेबंदीच्या परिणामांच्या विळख्यातून वाहतूक, उद्योगधंदे, शिक्षण, प्रशासन, रोजगार व कामगार वर्ग कोणीच वाचू शकले नाही. तोटा कमी जास्त प्रमाणात सर्वच क्षेत्रांना बसला. शिक्षण क्षेत्रात शाळा व महाविद्यालये बंद असल्यामुळे विद्यार्थ्यांना झालेला त्रास, टाळेबंदी परिणामामुळे रोजगार बंद झाल्याने परराज्यातील कामगारांच्या घरी व गावी पोहोचण्यासाठीचा मेलोनमेल प्रवास व अथक परिश्रम कंपनींना झालेल्या तोट्यामुळे नोकरी गमावल्यामुळे मध्यमवर्गीयांची व्यथा, प्रशासन व न्यायालयेची खुंटीत प्रगती व पडझड हे सर्वांनी पाहिले.

परंतु या सर्वांपेक्षा मोठे नुकसान म्हणजे जिवितहानीचे. या विषाणूच्या साथीनं जगभरातील लाखो लोकांचा बळी घेतला. जग ह्यासाठी तयार नव्हते असे आढळत व महामारी संपूर्ण जगासमोर ठाण मांडून बसेल असा कोणीच विचार केला नव्हता. म्हणूनच जगातील सर्वात प्रगत व वैद्यकीय क्षेत्रात निष्णात असणारे देश सुद्धा ह्या विषाणूच्या साथीच्या विळख्यातून आपल्या नागरिकांचा जीव वाचविण्यास असक्षम असलेले दिसले. जगामध्ये महामारी आल्याचा हा पहिलाच प्रसंग नव्हे. या आधी सुद्धा असे प्रसंग येऊन गेले परंतु एकविसाव्या शतकात जिथे विज्ञान व तंत्रज्ञानाने उंच भरारी घेतली आहे अशावेळी एखादी महामारी संपूर्ण जगास वेठीस धरून यक्षः प्रश्न बनून समोर येईल ज्याचा उपाय कोणासमोरच नसेल, अशी परिस्थिती कोणाच्या स्वप्नात आली नसावी.

परंतु अशा परिस्थितीतही जेव्हा समोरील आढाणासमोर सर्वच हतबल झाले होते. वैद्यकिय क्षेत्रातील कर्मचारी, डॉक्टर, नर्सेस, साफसफाई कर्मचारी, अत्यावश्यक सेवेतील नोकरदार वर्ग यांच्या अथक परिश्रमांमुळेच परिस्थिती व आढाण सामान्य होण्यास मदत झाली. या महामारीमुळे जगाने अनुभवलेले मागील वर्ण हे सर्वांसाठीच अनपेक्षित भयावह तसेच डोळे उघडणारे होते. सध्या शिक्षण व नोकरदार वर्ग तंत्रज्ञानाच्या मदतीने घर बसल्या शिक्षण घेत व काम करत आहे. वाहतूक व प्रशासन पालिका हळूहळू गतिशील होत आहे, उद्योगधंदे सुद्धा थोड्याफार प्रमाणात सुरु झाले असल्याने कामगार वर्ग सुद्धा परत काम सुरु करण्यास सज्ज झाला आहे. वैज्ञानिकांच्या अथक परिश्रम व मेहनतीचे फल म्हणून उपलब्ध झालेल्या प्रतिबंधात्मक लसीमुळे मृत्युदरामध्ये लक्षणीय प्रमाणात घट झाली व हे सर्वात मोठे यश होते. हळूहळू सर्वच परिस्थिती पूर्ववत होण्याच्या मार्गावर आहे. ह्या एकूणच परिस्थितीने सर्वच जगास बऱ्याच गोष्टी शिकविल्या आहेत. वैद्यकिय क्षेत्राचे महत्त्व व या क्षेत्राच्या प्रगतीची आवश्यकता ह्यांचे महत्त्व सर्वांनाच कळून चुकले आहे. वैद्यकिय क्षेत्रात प्रगत व निष्णात असलेले देश जेव्हा या परिस्थिती समोरे अपयशी ठरले तेव्हाच यांच्यातील उणीवांची तसेच कमतरतांची जाणीव झाली व त्याप्रमाणे त्यात बदल घडवून आणण्यासाठी सर्वच देश गतिशील झाले आहेत. ज्या देशांनी लस विकसीत केली ते देश उर्वरीत देशांना लसीचा पुरवठा करून या महामारीविरुद्धच्या लढ्यात अधिक प्रबल व समर्थ बनण्यास सहाय्य करत आहेत. याचूनच दिसून येते की, जगातील सर्वच समस्या ह्या ७०० करोड लोकांमुळेच उद्भवतात परंतु हेच ७०० करोड लोक एकमेकांना सहाय्य करण्यास उपाय शोधू शकतात. मास्क घालणे हे काही ठराविक क्षेत्रातील ठराविक लोकांपर्यंत सिमित न राहता सर्वांसाठी प्रतिबंधात्मक उपाय म्हणून वापरणे जरूरीचे झाले आहे. सामाजिक ठिकाणी वैयक्तिक अंतर राखणे, घरूनच 'ऑनलाईन' पद्धतीने विद्यार्थ्यांचे चालू असलेले शिक्षण व तसेच घरूनच 'वर्क फ्रॉम होम' पद्धतीने नोकरदार वर्गाची चालू असलेली कामे ह्या अनोख्या गोष्टी आता सर्वांच्या सवयीच्या बनल्या आहेत. परंतु परिस्थिती पूर्ववत होत असल्याने नजीकच्या काळात काही वेळाने सर्वकाही पूर्ववत होईल. परंतु एक गोष्ट जी बदललेली असेल ती म्हणजे 'मानवाचा अशा परिस्थिती व आढाणांकडे बघण्याचा दृष्टीकोन.' चुकांमधून शिकूनच माणसांची प्रगती होते व या अनुभवातूनही बऱ्याच गोष्टी शिकायला मिळाल्या. ह्या शिकवणूकींमुळेच वैद्यकिय तसेच संबंधित क्षेत्रांमध्ये त्यांच्या विकासासाठी होणारे बदल हे सुनिश्चित करतील की पुढील काळात अशाच प्रकारच्या आढांना सामोरे जाण्यासाठी मानव व हे जग अधिक सक्षम व समर्थ असेल.

- शिवानी गोरड

चतुर्थ वर्ष

विद्युत अभियांत्रिकी

मी कुणाला कळलो नाही !

मित्र कोण आणि शत्रू कोण,
गणित साधे कळले नाही...

नाही भेटला कोणी असा,
ज्याने मला छळले नाही...

सुगंध सारा वाटीत गेलो,
मी कधीच दखळलो नाही...

ऋतु नाही असा कोणता,
ज्यात मी होरपळलो नाही...

केला सामना वादळाशी,
त्याच्यापासून पळालो नाही...

सामोरा गेलो संकटांना,
त्यांना पाहून वळलो नाही...

इतरांसाठी अनेकांचे विष पचवले,
मी रागावलो कुणावर नाही...

पचवून टाकले दुःख सारे,
कधीच मी हळहळलो नाही...

आले जीवनी सुख जरी,
कधीच मी हुरळलो नाही...

कधी ना सोडली कास सत्याची,
खोट्यात कधीच मळलो नाही...

रुसुन राहीले माझ्या अगदी जवळचेच,
मी कुणाला कळलो नाही...

- उद्धव वाईकर
विद्युत अभियांत्रिकी

अनुभव !

“आयुष्याचे निर्णय चुकतात आणि...
आयुष्य चुकत जातं....
कधी कधी प्रश्न कळत नाही
आणि उत्तर मात्र चुकत जातं...
सोडवताना वाटतं सुटत गेला गुंता,
पण....

प्रत्येकवेळी नवीन गाठ बनत जाते
दाखवणाऱ्याला वाट माहित नसते
पण चालणाऱ्याचे ध्येय मात्र...
हरवून जातं !

काही गोष्टी वाटतात...
तितक्या सोप्या नसतात !
‘अनुभव’ म्हणजे काय?
हे तेव्हाच कळते,
जेव्हा एखादी ‘ठेच’
काळजाला लागते...

- उद्धव वाईकर
विद्युत अभियांत्रिकी

कोरोना (कोरोनानंतरचे जग)

अतिसूक्ष्म व घातक विषाणु अशी याची ओळख आहे हा व्हायरस सर्वप्रथम डिसेंबर २०१९ मध्ये चीनमधील वुहान या शहरात आढळून आला होता. जागतिक आरोग्य संघटना (WHO) ने या व्हायरसला महामारी म्हणून घोषित केले आहे. हा संसर्गजन्य रोग असल्याने याचा प्रसार जगभरातील जवळपास १८० पेक्षा अधिक देशांमध्ये वेगाने पसरला आहे. संपूर्ण जगभरात या विषाणुच्या संसर्गांमुळे लाखोंच्या संख्येने लोक मृत्युमुखी पावले आहेत. हा आजर पूर्णपणे बरा करण्यासाठी यावर औषधे, लस तयार करण्यासाठी जगभरातून संशोधन प्रयत्न करीत आहेत.

कोरोनासारख्या साथी या आधीही या जगाने पाहिल्या आहेत पण कोरोनाची साथ वेगळी आहे याची प्रमुख कारणे...

1) दळणवळणाचा वेग (Speed of Mobility) 2) माहितीच्या प्रसाराचा वेग (Speed of Information) हे दोन्ही वेग आजच्या मानवी जीवनातील सर्वोच्च पातळीवर आहेत. या दोन्ही वेगात आणखी तिव्रता प्राप्त होणार आहे.

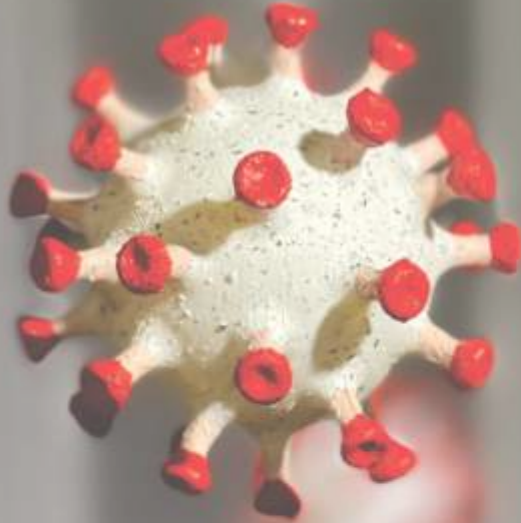
दळणवळण म्हणजे नेमके काय याचा संबंध या व्हायरसशी कसा? आज आपण एका ठिकाणाहून दुसऱ्या ठिकाणी जाण्यासाठी दहा वर्षांपूर्वी जेवढा वेळ लागत होता त्यापेक्षा कमी वेळात आपण त्या ठिकाणी पोहचू शकतो. त्यामुळेच चीनवरून संपूर्ण जगभर हा रोग पसरला. काही महिन्यांचाच काळ लागला. हा रोग एवढा पसरला की जगाला टाळे लावून बंद करावे लागले. जर दळणवळणाचा वेग नसता तर हा रोग एवढा पसरलाच नसता. म्हणूनच हा रोग रोखण्यासाठी पाहिल्यांदा दळणवळण बंद करण्यात आले. माणसांना एका ठराविक जागेत स्थानबद्ध करण्यात आले. आता हे भौतिक दळणवळण थंडावले पण डिजिटल दळणवळण म्हणजे माहितीचा वेग प्रचंड वाढला. कोरोनाचा प्रसार होण्यापूर्वी तो वाढलेलाच होता. पण कोरोनाकाळात तो शिखरावर पोहोचला आहे. तो आणखीही उच्चांक गाठणार आहे. आजपर्यंत 'तेल' (Petrol, Diesel, Fuel etc) हे जगाचे चलन होते. पण भविष्यात तेलासोबत 'डेटा' हे देखील जगाचे नवे चलन असणार आहे. भौतिक दळणवळणासाठी 'तेल' व डिजिटल दळणवळणासाठी 'डेटा' हे सुत्र मानवी व्यवहाराचा आधार ठरणार आहे.

जर 'डेटा' हे नवे चलन असणार आहे तर ते सामान्यांच्या भाषेत जेव्हा प्रकट होईल तेव्हा ते फक्त इंग्रजी किंवा मॅडरिनमध्ये नसेल. माहिती तंत्रज्ञान क्षेत्रात काम करणाऱ्या Google, Microsoft सारख्या अनेक कंपन्या आज लोकलायझेशन वर मोठी गुंतवणूक करीत आहेत. मातृभाषेत देखील हे काम होत आहे. कोरोनानंतरचे जग वेगळे असणार आहे. हे आता हळूहळू स्पष्ट होऊ लागले आहे. जगभरातील कंपन्या आणि राष्ट्रीय-आंतरराष्ट्रीय संस्थांनी या नव्या जगाचा अंदाज बांधण्यास सुरुवात केली आहे. हे अधिक स्पष्ट व्हावे यासाठी उदाहरण म्हणजे 'वर्क फ्रॉम होम' हा कोरोनामुळे दिसलेला प्रमुख बदल आहे. पण हा बदल तात्पुरता नसून आता हीच कार्यपद्धती कायमची करता येईल का? याचा जागतिक पातळीवर विचार होत आहे. TCS सारख्या कंपन्यांनी २०२५ पर्यंत आपली ७५% कर्मचारी घरून असे काय करतील या दिशेने कामही सुरू केले. तसेच शाळा, महाविद्यालयांनी 'लर्न फ्रॉम होम' सारख्या घोषणा करीत शिक्षणही ऑनलाईन करायला सुरुवात केली आहे.

याचाच अर्थ माणसे अधिकाधिक वेळ घरी राहणार आहेत. घरी असलेली माणसे घरातील लोकांशी प्रत्यक्ष आणि इलेक्ट्रॉनिक माध्यमातून जगाशी अप्रत्यक्षरीत्या संवाद साधणार आहेत. त्यांच्या या घरातील आणि जागतिक संवादाची भाषा कदाचित वेगवेगळ्या असू शकतील. जर भविष्यातील शाळांमधील वर्गांमध्ये शिकविले जाणारे शिक्षण हे ऑनलाईन पद्धतीने होऊ लागले. तर

त्यासाठी विविध प्रकारचे ऑनलाईन साहित्य निर्माण करावे लागेल. पाठ्यपुस्तके **PDF** करून हे काम होणार नाही. त्यासाठी डिजीटल माध्यमे म्हणजेच 'डेटा' तयार करावा लागेल. तो डेटा फक्त शब्द स्वरूपातच नसेल तर तो **Multimedia, Games** या स्वरूपात असेल. हा **Digital Content** शाळांसाठी, ऑफिसेस, बँकांसाठी एवढेच काय तर उद्या वाण-सामाण व भाजी विकणाऱ्या ॲपसाठी लागणार आहे. जग हे डिजीटल होणार आहे असे म्हणायला हरकत नाही. मोजक्या शब्दांत सांगायचे तर कोरोनानंतरच्या काळात माणसाचे जगणे वेगळे असणार आहे. त्याचा व्यवहार बदलणार आहे. भाषा व्यवहार देखील बदलेल.

- सुचिता इंगळे
विद्युत अभियांत्रिकी विभाग



माझी जग फिरण्याची सारी हौसच फिटली

आता कुठले न्यूयॉर्क, स्पेन आणि इटली
माझी जग फिरण्याची सारी हौसच फिटली!

कोरोना च्या लॉकडाउन मुळे घरातच राहायची सवय लागली,
आणि माझी जग फिरण्याची सारी हौसच फिटली!

नवरा आणि मुले घरकाम करायला शिकली,
आणि माझी जग फिरण्याची सारी हौसच फिटली!

अन्नाची खरी किंमत कळली,
उतू नये मातु नये ची महत्ता पण समजली,
आणि माझी जग फिरण्याची सारी हौसच फिटली!

जमीन जुमला पैसा आणि सत्ता सारीच फोल ठरली,
आणि माझी जग फिरण्याची सारी हौसच फिटली!

आहे अंगावर कपडा आणि पोटभर अन्न,
मग कसली गरज उरली,
आणि माझी जग फिरण्याची सारी हौसच फिटली!

-डॉ. मौसमी वंजाळे
सहाय्यक प्राध्यापक, अणुविद्युत आणि दूरसंचार विभाग

सुकून और चैन

क्या न्यूयॉर्क, इटली और क्या स्पेन,
घर पर ही रह कर पाए सुकून और चैन!

झाड़ू, पोछा, कपड़े और बर्तन, बढ़ गया है नेक पैर,
फिर भी,
घर पर ही रह कर पाए सुकून और चैन!

देख के दुर्दशा जगतकी भर आते हैं नैन,
क्या करे, फिर भी,
घर पर ही रह कर पाए सुकून और चैन!

कोरोना मुक्ति के लिए करते रहे प्रार्थना दिन रैन,
और करे भी क्या,
घर पर ही रह कर पाए सुकून और चैन!

-डॉ. मौसमी वंजाळे
सहाय्यक प्राध्यापक, अणुविद्युत आणि दूरसंचार विभाग

संसार कोणाचा?

तान्हुल्याला आंघोळ घालुन
 कालचा भात भरवुन माय निघाली संसार फुलवायला
 धोऱ्याच्या फुलांपासून ते बाबळीच्या काट्यांपर्यंत चालु लागली अनवाणी
 निरुपयोगी वाढलेल्या गुड्या एवढ्या झाडांच्या जंगलात शोधु लागली परीस.
 एक असा दगड जो की सगळं लखलखुन टाकेल तीला,
 तीच्या लेकीला, तीच्या अस्थीर पायांच्या आणि कधीच शुद्धित नसणाऱ्या नवऱ्याला.
 जीव प्राण सगळं एकत्र करुन शोधु लागली परीस
 शोधता शोधता रस्त्यावची कुत्री भुंकू लागली,
 मेम सहाब वॉचमन ओरडु लागले,
 कोणाचंही मणावर न घेता करु लागली आपलं काम.
 ती माय एकदिवस चोरुन एका बांधकामच्या आवारात शिरली,
 जवळ जवळ एक किलोभर परीस तिला सापडलं
 ठिगळं लावलेल्या झोळीत ती भरु लागली
 भरता भरता मागुन इमारतीतील एका खिडकीतून मोड्टी हाक आली
 'शुकशुक शुकशुक काय चाललंय तिकडे'
 त्या माय ने घाबरत घाबरत दुसऱ्या मजल्याच्या खिडकीकडे बघितले,
 पोटावर दोनदा हात आपटले आणि हात जोडले.
 पुन्हा संसाराच्या झोळीला उचलुन अनवाणी निघु लागली
 ज्या बाईने तीला हाक मारली होती ती तीच्या तान्हुल्याला खिडकीत भरवत होती,
 तीच्या तान्हुल्याने वीचारले
 मम्मा कोण ती तेंव्हा त्याची आई म्हणाली
 ती झोळीवाली बाई तुला उचलुन नेईल हं !!!

- प्रथम जमखंडे
 द्वितीय वर्ष, संगणक विभाग (कलाकारी)

दार

प्रत्येक घरानुसार, घरातील माणसांनुसार
 घरामध्ये येणाऱ्यांच्यानुसार, घराबाहेर जाणाऱ्यांच्यानुसार
 बाहेरचे घरात वाकुन बघणाऱ्यांच्यानुसार
 घरातून वाकुन बाहेर बघणाऱ्यांच्यानुसार
 बाहेरचे घरात कान लावून ऐकणाऱ्यांच्यानुसार
 घरातून बाहेर कान लावून ऐकणाऱ्यांच्यानुसार
 अतिशय जोरात थाप देणाऱ्यांच्यानुसार
 अतिशय जोरात उघडणाऱ्यांच्यानुसार
 टुक टुक कडी वाजवणाऱ्यांच्यानुसार
 खट्याक अशी आतून कडी काढणाऱ्यांच्यानुसार
 एका रुपयाच्या नाण्याच्या आकाराच्या
 भिंगेतून बघूनच उघडणाऱ्यांच्यानुसार,
 बाहेरून मुद्दामहुन त्या भिंगेला झाकणाऱ्यांच्यानुसार
 काहींच्यात तर, सकाळी उघडले की थेट रात्री बंद होणाऱ्यांच्यानुसार
 काहींच्यात दिवसभर बंदच राहणाऱ्यांच्यानुसार
 कधी कधी जोरात रागाने आपटणाऱ्यांच्यानुसार
 भिंतीला चिरा जातील म्हणून हाळूच उघडणाऱ्यांच्यानुसार
 कर्कश बेल वाजवणाऱ्यांच्यानुसार
 कधी कधी बेल वाजवून पळून जाणाऱ्यांच्यानुसार
 बेल वाजवून दुध, पेपर देऊन जाणाऱ्यांच्यानुसार
 वैणी म्या हाय अशी हाक मारणाऱ्यांच्यानुसार
 कोड टाईपमध्ये बेल वाजवणाऱ्यांच्यानुसार
 दुसऱ्याच्या पाठीवर चढून बेल वाजवणाऱ्यांच्यानुसार
 काखेत चढून आनंदासाठी व कुतुहलाने बेल वाजवणाऱ्यांच्यानुसार,
 थरथरत्या हातांनी काठीच्या सहाय्याने बेल वाजवणाऱ्यांच्यानुसार
 उघड झाक उघड झाक करत राहतं,
 कधीही थकत नाही.

सगळ्यांच्या आठवणी ह्याडेल मध्ये जपून ठेवतो तो.
 जवळ जवळ सगळेच त्याच्याशी एखाद्या अदृश्य नाळेसारखे जोडलेले असतात.
 लाखोवेळा धारेधार किल्ली एकतर आपल्या पोट्यात, नाहीतर कुलपात घेतं.
 खच्चुन तीनच हाडांच्या बिजागऱ्या पार गंजून जातात
 पण ते कधीही थकत नाही.

एक फुकटचा विश्वास टाकून त्याला बंद करून
मोठी जबाबदारी सोपवून गावो गावी हिंडतो.

पण आपण त्याला कधीच नीट वागवत नाही
ते फक्त आणि फक्त उघड झाक करत राहतं करत राहतं आणि करतच राहणार.

काहींच्याकडे सागवान लाकूड वापरलेलं तर काहींच्याकडे साधं.
काहींच्याकडे दोन फळकुटाचं तर,
काहींच्याकडे एकाच झाडाच्या बुंध्यात बनलेलं.

काहींच्याकडे लॅच असलेलं तर,
काहींच्याकडे कुलुप असलेलं.
दार, दरवाजा, डोअर, बागिलु, तलंपु अशी अनेक नावं असलेली ही वस्तु.
गेले महिने आणि आताचे दिवस व पुढील दिवस
त्याच्यासाठी सुखाचे जातील आणि जात आहेत.
लॉकडाऊनमुळे कोणी येणे नाही आणि कोणी जाणेही नाही.

आतापर्यंत श्रावण, गणपती, दिवाळीला फुलांच्या, लाईटच्या माळेने सजणारा हा
आज चक्र सॅनिटायझरने रोज न चुकता आंघोळ करतोय रोज सजतोय.
कित्येकजण त्या दाराशी निगडीत असतात पण आपल्याला कधी कळतच नाही
कारण आपण त्याचा त्याच्या मनाने कधी विचारच करत नाही.

- प्रथम जमखंडे

द्वितीय वर्ष, संगणक विभाग (कलाकारी)

पाऊस कधीचा पडतोय

पाऊस कधीचा पडतोय

मन माझं भरून वाहतयं

चाललेली घाळमेळ काही थांबेना

टपटपणाच्या आवाजाशिवाय बाकी काही ऐकवेना

पाऊस कधीचा पडतोय

घड्याळाच्या मधल्या काट्याप्रमाणे होत आहे माझं रिंगण

स्वतःच्या शरीराचा सुवास सोडत आहे परड्यातला चंदण

माडांच्या बुंध्यावरून पाणी जनु धबधबा बनून वाहतय

माझं मण कोणाची तरी वाट बघतय

पाऊस कधीचा पडतोय

कौलावरचा आवाज नाही नवा पण आज वाटे कंटाळवाणा

पाऊस पाडणे म्हणजे त्याच्यासाठी खेळच णा

स्वतःचा जीव जाळून अंगावरची चमडी

वितळून पुन्हा घट्ट करून थकली नाही मेणबती

असतात का एकमेकांच्यात घट्ट नाती

पाऊस कधीचा पडतोय

जांभंख खाली पडून मातिचा रंग बदलला

विजेच्या कडाक्यात फणसाचे झाड का वाटे पछाडलेला

आतली पडवी आज मला वेगळीच भासु लागली

बाईचा डोह हळूहळू भरु लागला

माझी घाळमेळ आजुन वाढु लागली

पाऊस कधीचा पडतोय

कुबेर नसलेल्या या भांडारात आहे मी

मोकळ्या गळ्याची नवऱ्याच्या सुखात सुख मानणारी पार्वती

वाट बघतेय कैलासात बसलेल्या शंकराची

पाऊस कधीचा पडतोय...

- प्रथम जमखंडे

द्वितीय वर्ष, संगणक विभाग (कलाकारी)

जब बंद पड़ा था कारवा
और सन्नाटे इन रातों में
चुपसी हे ये गलियां भी
और डर सभी के बातों में

अब कोई किसिका ना रहा
ये बंद कमरा सता रहा
आज़ाद है परिंदे वो
और चांद हमें चिड़ा रहा

ये शोर में भी खामोशी जो
अकेला हूं मैं, या साथ कोई॥
ये साया जो, हूं मैं ढूंढता
ये तू ही है, या और कोई॥

मौसम जो ये, गुजरा बगल से
बरसात थी, या बूंद कोई॥
हूं बेखबर, थोड़ा खोयासा
ये मैं ही हूं, या और कोई॥

- सर्वेश रोडी

द्वितीय वर्ष, अणुविद्युत आणि दूरसंचार विभाग

मोफत मराठी ई-पुस्तके डाउनलोड

महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळाच्या वेबसाईटवर ईपुस्तके पीडीएफ, इपब व .mobi फॉर्ममध्ये उपलब्ध आहेत.

महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळाचा पूर्वेतिहास :

तंत्र भारतातील महाराष्ट्राच्या ज्ञानविज्ञानाच्या क्षेत्रातील आधुनिक गरजा आधीच हेरून महाराष्ट्र राज्याचे तत्कालीन मुख्यमंत्री माननीय श्री. यशवंतराव चव्हाण यांनी दिनांक १ मे, १९६० ला महाराष्ट्र राज्याच्या स्थापनेच्या वेळी शासनाची जी धोरणविषयक प्रमेये जाहीर केली त्यात महाराष्ट्र राज्याच्या मराठी साहित्य, कला व संस्कृती या क्षेत्रातील कार्यकर्त्यांच्या कार्याची उपेक्षा होणार नाही ; एवढेच नव्हे तर त्या कार्याची प्रगती व विकास होईल ह्या दृष्टीने पावले निश्चितपणे टाकण्यात येतील ; असे आश्वासन दिले होते.

त्याच धोरणानुसार महाराष्ट्राचे साहित्य, इतिहास व संस्कृती यांच्या विकासासाठी दिनांक १९ नोव्हेंबर, १९६० ला शासनाने साहित्य संस्कृती मंडळाची स्थापना केली. त्यानंतर वेळोवेळी मंडळाची पुनर्रचना करण्यात आली. थोर विचारवंत तर्कतीर्थ लक्ष्मणशास्त्री जोशी यांनी मंडळाचे अध्यक्षपद भूषविले होते. त्यानंतर वेळोवेळी अनेक मान्यवर साहित्यिक व विचारवंतांची नियुक्ती या पदावर झाली. (संदर्भ – <https://sahitya.marathi.gov.in/history/>)

लिंक – <https://sahitya.marathi.gov.in/%e0%a4%87-%e0%a4%ac%e0%a5%81%e0%a4%95>

[%e0%a4%a1%e0%a4%be%e0%a4%8a%e0%a4%a8%e0%a4%b2%e0%a5%8b%e0%a4%a1/](https://sahitya.marathi.gov.in/%e0%a4%a1%e0%a4%be%e0%a4%8a%e0%a4%a8%e0%a4%b2%e0%a5%8b%e0%a4%a1/)

शासन व्यवहारासाठी शब्दकोश आणि शास्त्रीय व तांत्रिक परिभाषा कोश

मराठी भाषेच्या प्रचार आणि प्रसारासाठी परिभाषा आणि शब्दावल्या डिजिटल माध्यमातून मराठी भाषा विभागाच्या शब्दकोश विभागात ऑनलाईन उपलब्ध आहे.

१ मे १९६० रोजी महाराष्ट्र राज्याची स्थापना झाल्यानंतर राजभाषा मराठीचा शासन व्यवहारात वापर करण्याबाबतचे धोरण राबविण्यासाठी शासन निर्णय, सामान्य प्रशासन विभाग, क्रमांक ओएफएल-११५९ बी दिनांक ६ जुलै १९६० अन्वये भाषा संचालनालयाची स्थापना करण्यात आली. मराठी राजभाषा असल्याचे घोषित करणारा कायदा विधानमंडळात मंजूर होऊन दिनांक ११ जानेवारी, १९६५ रोजी महाराष्ट्र राजपत्रातून जाहीर झाला व तदन्वये मराठीचा राज्य कारभारात जास्तीत जास्त वापर करण्याचे ठरले. राजभाषा मराठीविषयक शासनाचे धोरण राबवताना आधुनिक तंत्रज्ञानाद्वारे विविध विषयावरील शास्त्रीय व तांत्रिक परिभाषा कोश तयार करणे, शासन व्यवहारासाठी आवश्यक परिभाषा घडविणे, शब्दावल्या तयार करणे हे भाषा संचालनालयाचे महत्वाचे उद्दिष्ट आहे!

(संदर्भ - मराठी शब्दकोश: शासन व्यवहारासाठी शब्दकोश आणि शास्त्रीय व तांत्रिक परिभाषा कोश)
विद्युत अभियांत्रिकी परिभाषा कोश मधील काही मराठी शब्द -

a.c generator-

प्र. धा.जनित्र (प्रत्यावर्ती धारा जनित्र)

a.c-

प्र. धा. (प्रत्यावर्ती धारा)

a.c. plate resistance-

प्र. धा. दि. धा.संरोध गुणोत्तर (प्रत्यावर्ती धारा दिष्ट धारासंरोध गुणोत्तर)

a.c.d.c. receiver-

प्र. धा. दि. धा. ग्राही (प्रत्यावर्ती धारा दिष्ट धारा ग्राही)

C.S.R conductor-

पो. प्र. . वाही (पोलाद प्रबलित ल्युमिनिअमवाही)

F.C.-(abbr. for automatic frequency control)

स्व. वा. नि. (स्वयंचालित वारंवारता नियंत्रण)

adjacent channel-

सन्निध प्रणाल

adjacent channel interference ratio-

सन्निध प्रणाल व्यतिकरण गुणोत्तर

aircraft antenna-

वायुयान आकाशग

air-friction damping-

वातघर्षण अवमंदन

ambient temperature-

परिवात तापमान

(संकलन-आयाम मराठी विभाग)

ENGLISH SECTION



"Shaping the
Pandemic"

■ Staff Editorial



I am delighted to present our amazing readers, the English section titled "Shaping the Pandemic"

This year our young minds are coming up with new, innovative and creative ways to bounce back from pandemic in a very positive way with a new theme of "New Normal". The objective behind the theme is to bring to you, an optimistic and mindful way to look at the problem. It's truly said that, "Every problem is an opportunity in disguise" by John Adams.

I think every day is a

new day, every day is a new opportunity and every day is a new chance. So, let's take it as an opportunity to embrace a new beginning to a New Normal.

I would like to express my sincere gratitude to Dr. P. B. Mane for his continuous support, encouragement and guidance. I also extend my gratitude to the head and entire team of Media coordinators. I am so glad to congratulate and appreciate the efforts of the students of media team especially Omkar Waghmare and Abhishek Zade.

I hope you will appreciate and enjoy reading as much as we enjoyed compiling the English Section.

Happy Reading...

Mrs. Pragati P. Mahale
Staff Editor: English Section
Assistant Professor, IT department.

■ Student Editorial



When it rains look for rainbows, when it's dark look for stars, likewise we should look for the positive aspect of any situation. It gives

me immense pleasure to collect positive aspects of this pandemic from my friends and put these ideas in front of you. As it may shape your pandemic in a positive way. I would like to express my gratitude to Mrs. Pragati Mahale Ma'am for guiding us.

Omkar Navnath Waghmare
Student Editor (English Section)

Olfactory Memory

*Back to the time when we first met
You said you're waiting at the tuition gate
So, I lied at my home
We bunked the tuition just to roam*

*We went to your favourite place
To get a pineapple milkshake I guess
I saw merry twinkles in your eyes
As you planned for me this surprise*

*You dropped your own glass staring at me
You were blushing as I laughed with glee
Then we took long walk by the lake
You were smelling like a shake*

*I thought this traipse by the lake
And trip to milkshake
Would be our forever
But today we are not together*

*Our paths have been separated by the fate
And only memories are left of the days we met
But they accompany me whenever I amble by the lake
"Your memories" they always smell like pineapple milkshake!*

*-Jayda Deorankar
SE C ENTC II*



New Digital Normal

Coping with COVID-19 is particularly complicated for any educational institution.

No doubt, COVID-19 has been a huge catalyst in forcing everybody to utilize technology. At the same time, it exposes the deep divide between who has bandwidth and who doesn't. Kids with parents who are digitally savvy have a huge advantage over those who don't.

The coronavirus pandemic taught us the importance of mental health in work and personal functioning. Workplace mental health has taken a front seat this year. Leaders must take charge of this area henceforth. What is needed is to go beyond HR functions to build mental health into the new normal of leadership, to transform the culture of stigma to acceptance and inclusion.

Remote Working's Longer Hours Are New Normal for Many. Working for continuous hours isn't healthy for your well-being and your productivity as well. You must take regular breaks and get your mind as well as eyes off work, stretch, eat a snack, watch a quick fun video. These tiny breaks will help you keep active through your working hours without feeling too much at once.

This is why it is necessary for women to help their same sex peers in order to make the workplace a better professional experience.

Minal A. Zope
Assistant Professor
Computer Engineering Department

*I was lying in my bed at night, terrified to fall asleep. I didn't want to visualize another beautiful dream, where everything went back to normal, only to wake up to a cruel reality, where nothing will ever be the same again.
I miss the days when I could walk outside freely, without being cautious;
I miss my friends, with whom I made delightful memories;
I miss the feeling of warmth that made me speechless;
I miss...
But we have to learn to live this way henceforth;
because we like it or not, the world has changed, and we have to adapt to it;
now, this is our fate which we have to accept - this is the new normal.*

*-Devanshi Gangrade
TE-IT*

*I miss those days, when we used to eat pizzas at different outlets,
Now we try to make them at home and eat in us on plates.*

*I miss the old normal where we used to sit in canteen and ask our friends to bring chips,
Now we just share photographs , and enjoy alone its crisps*

*I miss the time when we were eager to meet new people and say hi,
Now we change our paths to not let anyone cross by..*

*In classes when we used our phones teachers used to scold,
Now if we put them down, they say to pick it up and hold..*

*On our way we used to see many advertisement boards,
Now we just stare at those empty roads..*

*But this new normal did teach me a thing,
The beauty of living beings...
Whether it be physical or virtual,
Real friends and close people will never leave you by,
Whenever you need me just call,
Said the muted phone guy...*

*-Prasad Nandode
SE B ENT C I*

*Hey March, can't believe you are back so early,
Gearing up for the day and one fine day you said "Stay"
"It will soon be over, I swear,
It's a small price to pay"*

*Sleep-in half a month,
A broken screen is my only window to you,
Inedible coffees and hair up in a bunch,
We never knew how deep the waters were*

*You've been through the world,
And I couldn't say what to make of this?
All I wanna be is with my friends,
And your cold soul could never understand*

*Long days, longer nights,
You finally made us succumb to you,
We were living borrowed time you said
And here you are again still not dead*

*Let's go out, just for old time's sake
And you showed your true colours,
Scared I rushed home,
My face hidden, shadowed by my doubts*

*Will it ever be the same?
Fearful of the worst,
I memorise all my memories,
Cold stones and cold bodies*

*Maybe turn a new leaf this time,
Wash your sins away,
Dear March, this time be a charmer
No more foes, normality has never felt so good*

*-Shristi Dhamange
SE A ENTC*

Sometimes to Find Something All You Need is to Get Lost.

"Um, it's been a few months, I guess. It's hard to keep track of time after a while. Which is kind of how I like it... When you don't have any reason to think of days as weekdays or weekends, you start to realize that all days are pretty much the same. And that kind of gives you the freedom to do whatever you want... The day is all just hours you're alive for. They can be filled with anything. Unexpectedness, wildness, maybe a little bit of lawlessness, even."

This extremely relatable excerpt is from a novel I read during the early stage of lockdown. Well, the novel, Let's Get Lost, by Adi Alsaid has got nothing to do with either pandemics or lockdowns. Let's Get Lost, was a YALSA Teens' Top Ten Nominee in 2015.

The novel is about a girl named Leila, who is going to Alaska to watch the Northern Lights and meets these five-amazing people on her way. And meets some more when she reaches Alaska. The novel is about being young and learning, failing and trying, and going after what your heart truly desires. And if you don't make it, not stopping to dream is important. There's perhaps something better waiting out there for you. And maybe what holds more significance in our little adventures are the journey and not the destination.

I really want to thank the author for such an amazing novel. I have read some of his other works and look forward to reading more.

-Pal Manojkumar

BE (D) ENT

Host- Literary Club of AISSMS IOIT

Book Review

The Midnight Library by Matt Haig What if between death and life after death, there was a library. A library full of books with the help of which you can choose to live an alternate life, a better life, perhaps.

Well, each one of us certainly would like to try their luck at a better life. But how do we define a better life?

A life spent researching about climate change, a life full of fame and money, a life where you're a TED Speaker, a life where you work at a zoo, a life in which you have a small family and a pet dog.

There are infinite options but there's only one of you. Who you are in this life is not who you are in another? So, what do you do? Are you willing to leave all of that you have right here in this life for fame, or love, or a childhood dream in another?

There are small things that we do that affect our surroundings in certain ways. Yeah you might not be taking care of animals at a zoo but you are here in this life and you water a plant daily.

Who will water that plant when you leave?

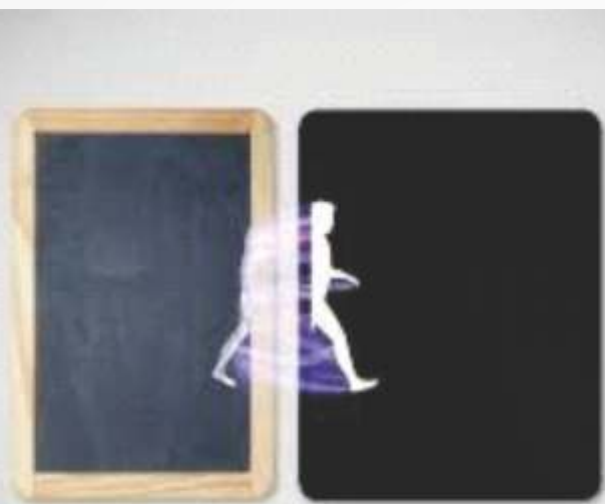
Go live your life without expectations. Dream but don't get lost in them. Find happiness in small things. Make a small gesture for someone to make them smile. It's all that life is about. No need to be a scientist to leave the world a better place. Turn yourself into a human that makes others feel they're in a better place when they are around you.



Education Transition after Covid-19 Pandemic

A **new normal** is a state to which an economy, society, education etc. settles following a crisis. In the year 2020-21 Covid-19 pandemic is big Crises all over the world.

The areas which have got affected are economy, health, travel-tourism, agriculture and Education.



New Normal in covid-19 in education field in ONLINE Teaching Learning. It has transformed the education system drastically and has brought a paradigm shift in teaching and learning methodologies forcing educational institutions across the globe to re-imagine traditional classroom learning and transition to an online mode of teaching to provide uninterrupted access to education and knowledge. Educational institutions were way behind in adopting technology, having focused more on classroom teaching and never having seriously considered online education

as a credible model, they were slightly more unprepared than other sectors. However, due to the incredible resilience and determination, educators were quick to adapt to the new normal. Instructors and educators have had to up skill themselves almost overnight to adjust to the new modes of teaching, ensuring that learning remains accessible to students even in the current circumstances. With learning shifting from the public space (classrooms) to a more personal area (online), the role of the educator has also evolved. As the demand for personalized learning and online courses continues to snowball, instructors are required to learn (upskill) as much as, or even more than their students to deal with the new demand for future-proof courses. As teaching and learning become more personalized, educators need to come up with innovative teaching methodologies on a case-to-case basis to suit the learner's requirement.

The COVID-19 has resulted in schools shut all across the world. Globally, over 1.2 billion children are out of the classroom.

As a result, education has changed dramatically, with the distinctive rise of e-learning, whereby teaching is undertaken remotely and on digital platforms.

The challenges of online learning

There are, however, challenges to overcome. Some students without reliable internet access and/or

technology struggle to participate in digital learning; this gap is seen across countries and between income brackets within countries.



Effectiveness of e-Learning

For those who do have access to the right technology, there is evidence that learning online can be more effective in a number of ways. Some research shows that on average, students retain 25-60% more material when learning online compared to only 8-10% in a classroom. This is mostly due to the students being able to learn faster online; e-learning requires 40-60% less time to learn than in a traditional classroom setting because students can learn at their own pace, going back and re-reading, skipping, or accelerating through concepts as they choose. The effectiveness of online learning varies amongst age groups.

Major world events are often an inflection point for rapid innovation – a clear example is the rise of e-Learning.

-Mrs. Archana Ganesh Said
Assistant Professor
Computer Engineering Department

Little sunflower

Today, it was something different. The skies turned light grey. Winds were flowing with high speeds. It seems there's going to be heavy pour of rain.

Rains in this season is unnatural. But for this little flower it wasn't. He thought it rains during this time. After all, he was a young sunflower. His eyes were desperately looking for sun. Little did he know, today, he won't be probably seeing his favourite thing. Soon enough, first drop fell from the skies. Where others were scared, this guy seemed to be happy. He was enjoying the wetness of the drops. It's like his destiny to feel this downpour.

The drops on his petals were like diamonds on a ring. The glow was different. He was

standing out from everyone else in this farm. The sun started peeking, questioning, who is so happy in this rain? Amazed by this small happy flower, he decided to come out and shine more light towards him. Just like a spotlight. The owner of farm was awestruck. To him, it was an awesome scene from a well-directed movie. This scene is now deeply imprinted in owner's mind.

Isn't it amazing how small things can make someone so happy...?

-Prasad Nandode
SE B ENT C I



My love is a sunflower

I could see this coming. Our relationship of 2 years was nearing its end. Even though you never found the courage to confess this to me, I could see that you were losing feelings for me. How do I ask you? My heart breaks.

Therefore, I decided to give you a sunflower, that I'd plucked from my nephew's bright yellow field, this morning.

As the evening will fade into night, the sunflower will start losing the yellow, her lover had dressed her into. Destiny will treat us the same, me and the sunflower.

You'll know why I had visited you today when the sunflower laying near your window will make one last effort to fill her eyes with the sight of her love - the sun.

-Prarthana Chandak
SE COMP I

*For a painter, day is not a journey from one time to another,
So it feels like a journey from one color to another, doesn't it?*

*From orange dawn to black night.
Something similar happens in life.*

*Rainbow childhood, pink youth and then a never ending juxtaposition between red and green (no's and yes's).
And man's destiny seems to me like that sunflower. His direction is never the same, he is looking wherever the sun goes.*

The same is true of destiny, its direction depends on what we do in life.

I think luck is the biggest lie story in human life. The truth in life are our actions - it is the sun of our life. Just as the day rises when the sun rises and the night falls when it sets, so the direction of your destiny and the color of life depends on the actions you take ...

-Sushil Shinde
SE COMP I

*It was chill and a windy twilight
I was driving by the plateau with my car
As all the sunflowers took a bow from the light
And I pulled my windows up, to keep all the warmth inside
I was finding a place to reside,
And just then I saw an iridescent bulb
Atop it stood like a flag so I
Planned to go to that sight,
It read "Welcome to the Hotel Moonlight",
And I thought destiny has just made it right
Then I turned to the left and swerved to the entrance
Excited to spend there a night
I checked in with some shillings and wishing I could do some chilling
I ordered a royal meal for the night
There came a waitress, and another behind her, with silver-grey knives
I asked what are the knives for? They said,
For you, they are to cut your life
We will chop your fingers and cut your toes and sell them to the lazaretto beside
And that's how they fed their babies fully and took in them the pride
I frightened and rushed to exit, there stood a night man gazing the moonlight
I begged him to let me go, as I offered him a handsome price to flee
He said, you can check out anytime you want but you can never leave*

-Shubham Nagarkar
SE INSTRU



DO
YOU
KNOW?

*It's in the sign and how the stars align
This destiny of mine
is being written by time divine
I am a seed of this hour
When? now? where? how?
I'll be what?
a sun someday or a sunflower
In both this cases, I'll be yellow
I'll glow bright or I'll be mellow.*

-Pranav Ahire
SE COMP I

Should I Take the World Seriously?

Robert Adams was an American Advaita (Non-Duality) teacher. He once said, "we didn't come in this world to straighten out the world. We didn't come here to make peace. You didn't come here to teach people anything or to show anybody anything. You are here in order to wake up, to awaken, to awaken from the mortal dream. That's all you're here for. You're not here for any other reason."

Strange...Isn't It?

When any aware person thinks about life. He should understand and seek answers of some questions like, what is life? What life do you believe you have? Do we really have life? Or we just appear to have a life? Like images of water appears in mirage, is our existence also as alive as water in mirage? Whatever we think about self is an optical illusion. Most of the people cannot tackle with themselves, meaning they are unable to remove anger, doubts, hatred and anxiety etc., from mind. Most of the people cannot practice self-enquiry, because they are very much attached to the world. And if you are in bad temper, you have to react on all situations in your life. When your ego is so strong, every time it will pull you back to the situation in life that you are going through. Whatever you think about yourself, you are not that.

Sometimes we just think, because we have capacity to think. But if we start to examine our mind our thinking may take us out of the big lie of existence. When you enhance watchfulness, you will understand the actual bunch of thought that we are always trying to hold. Using these bunch of thoughts, we always thinking about past and future. There is hardly a time when you do not think, and that is the time, when you are in present moment. We always believe that, we have to take care of our interests, our problems and people around us. For example, some people have been employed for so many years, but they always troubled about being unemployed. With such type of illusions, you may live painful life for years. The truth is, there is nothing in the universe that can make you suffer but your mind. Our mind that is striking us things about someone, or about something, or about some place or situation. When you give control to you mind, it will completely and absolutely force you to believe in its thought process. And your mind becomes your worst enemy.

Therefore, you can learn to hold or stop your thoughts, by practicing self-inquiry. Observe your thoughts and try to become the witness to your thoughts. There is nothing more beautiful than watching yourself think. In continuous practicing of self-enquiry, your belief of somebody will destroy totally. The truth is nothingness is your true nature. As you become wise you will understand that, everything in universe is predetermined. Your fear begins to melt and you need not to react on situations. Being yourself is key to know the nature of universe. There's no situation you have to heal. You merely have to be yourself.

"Be yourself". How do you do that? Just by observing your thought process. People call it absolute reality and it is possible by self-enquiry. If you lift yourself to that place where there is no world, no

universe, nobody. Buddha called it as "No Mind" state, where no thought present at all and you became pure consciousness.

It really makes no difference what you practice, whether you practice zen, or Taoism or traditional meditation. What you practice makes no difference. But what are you doing with the practice is important? Go deep within yourself and find your own reality. Or else you can still read many books, attend lectures and become totally confused. Choice is yours.

Leave the world as it is. Do not try to correct the world. I mean don't try to correct people, places or things. There are certain laws in this universe that take care of itself. There's a power and a presence that knows the way, and you are told to surrender to this power, to this presence. Learn how to surrender to present moment completely. Not for any others will, but for you. According to Robert Adams, "This is the highest teaching of any system. When you give up your ego, totally surrender, and allow the powers that be to direct you, and guide you, and take care of you and unfold as you, everything will work out."

-Ms. Amrapali S. Chavan
Assistant Professor
Computer Engineering Department



The coronavirus pandemic has drastically changed the way people live, act and work, the first-time history has ever seen such sweeping changes. Beside changing social and work ethics, measures taken to contain the virus have also reshaped greetings and the rules of everyday etiquette.

One thing that is certain, we know that adjusting to change can be challenging. Be it planned or unplanned change is inevitable and very much part of being human. Over the past few months, we've experienced an unexpected shift in our way of life due to COVID-19. Pre-pandemic who would've thought that "sanitizer" could become as precious as gold! And now a trip to do a weekly grocery shop seems like an adventure of its own. Before we know it, we've let go off our old normal and now settling into what seems to be our NEW NORMAL.

So how does a new normal look like? Masks and gloves may be common place, depending on where in the world you live. Queuing is now the norm, be it when visiting health professionals going to shops. Public transport looks very different with social distancing in place and commuters wearing masks and gloves. We do a double-take when we hear someone cough, sneeze or sniffle as we have been conditioned these past few months to be hyper vigilante for these symptoms.

Education as we know it has changed. Schools and universities have moved online, some blending face to face with online lectures. Due to social distancing social gathering have morphed.

Gone are the days of greeting friends and extended relatives with handshakes, hugs and cheek-kisses. Friendly gestures like these are now being curbed and now be replaced a wave from a distance. The wavy "dine out" has changed. many restaurants and cafes may only be serving take away at the moment, but even when they reopen for us to dine in there will likely be restrictions around how many are able to dine in, social distancing will be in place and shared plates may disappear for quite some time.

So how can we ease into this new way of living?

It is very human to miss the old ways, and as with any changes its easy to feel a sense of loss. Yes, there will be denial, anger may be even frustration and acceptance as we pivot and adjust to our new normal. But it's important to give yourself time to grieve what have you lost.

"WHEN EVER YOU SIT ON THIS CONTINUUM YOU WILL NEED TO EMBRACE RATHER THAN FIGHT THE UNCERTAINTY".

This is our chance to reinvent and create a better world where we can all work, rest and play in the new normal. We cannot rewrite the chapters of history already passed, but we can learn from them, evolve and adapt. The new normal may be a better normal, certainly a different normal.

-Aditi Aher
BE Electrical

NEW NORMAL- THE ELECTRICITY TODAY

Electricity is an essential ingredient of our daily life. Whatever we do we consume electricity. For instance, when we wake up in the morning, we start our tea maker for a cup of tea, switch on heater for bath and watch TV for breaking news and so on. Thus, we are 'electrically driven'. The electricity has been one of our basic needs after food, shelter and clothing. The advanced electrical technology has assigned us a new normal state of receiving electrical power from the grid. This article illustrates how the new normal state of electric supply has been established after going through number of successive developments and reforms.

The journey of electricity began in the late 19th century. The electricity was invented in form of a Direct Current (DC) by the great scientist Thomas Alva Edison in the year 1885. Initially the street lights in cities were illuminated. During the later period, the electricity arrived at homes, shops, offices and industries. Nikola Tesla in the year 1889 invented Alternate Current (AC) electricity. In India, the electricity arrived somewhere in 1920s. The first Electric Supply Act was passed in India in the year 1910. The main provision of this act was to boost up licensees to take up generation and distribution activities. Incidentally electricity was arrived in Pune in the year 1923. Poona Electric Supply Company (PESCO) was appointed as a licensee for Pune jurisdiction for generation and distribution of electricity.

. In the year 1948, the Electric Supply act was amended wherein the main provision was regarding establishment of State Electricity Boards (SEBs) in each state. Accordingly, in Maharashtra, the Maharashtra State Electricity Board (MSEB) was established in the year 1963. In 1956, the Indian Electricity rules were formulated. During the later period, in the year 2003 and in the year 2005, the supply act was amended for private participation and unbundling of State Electricity Boards. Accordingly, the former utility MSEB was trifurcated in three companies namely Mahagenco, Matransco and Mahavitaran. In the year 2001 the Electricity Conservation Act came in force. The main feature of this act was establishment of Bureau of Energy Efficiency (BEE) and Energy Conservation Building Code (ECBC).

As a result of above efforts, there had been significant improvement in power sector. These are called power sector reforms. Today, an interruption-less power supply having a good quality is at our disposal. At the time of independence in the year 1947, the installed capacity of India was only 1367 Megawatt. As of today, there has been tremendous hike in the installed generation capacity of about 375752 Megawatt. The following measures have been taken to maintain interruption-less and reliable source of electrical energy.

Renewable Energy Systems

The pie chart shows total installed capacity of power generation in India as on 31-03-2020, having a contribution of conventional and non-conventional generations. As can be seen, the thermal generation is highest in India, about 62% of the total installed capacity. Thermal generation comprises of fossil fuels such as coal followed by oil and gas. The existing stocks of coal are exhausting exponentially. The day is not far on which the coal based thermal generation would be standstill. Therefore, Renewable Energy Systems are coming up as an alternative against shortfall of the conventional generation. At present the ratio of conventional to non-conventional energy sources is around 76:24 percent respectively. In coming years efforts are being made to improve this ratio as 60:40. The main components of Renewable Energy Systems are solar, wind, tidal, bio-gas etc. The advantages of Renewable Energy Systems include sustainable development, free fuel such as solar and wind and lesser capital investment. Furthermore, the Government is offering subsidy and carbon credit to encourage use of renewable energy. In order to store energy obtained from Renewable Energy Systems, efforts are being done to develop energy storage systems. For example, pumped storage plants dynamically store hydro-electric energy.

Supervisory Control and Data Acquisition (SCADA) Systems

The operation of electrical equipment and collection of data is conducted through the automation systems called SCADA systems. The concept of Human Machine Interface (HMI) is implemented in SCADA systems. The devices for control and measurements such as relays and meters are connected to the SCADA systems. Through these equipment effective monitoring and control is governed by the SCADA systems.

Condition Monitoring

Condition Monitoring is a technique by which the fault being developed in future in an electrical system is detected in advance and thereafter the loss due to failure can be avoided. Some of the methods of condition monitoring are Dissolve Gas Analysis (DGA), Partial Discharge Measurements, thermal scanning, Puncture Insulator Detection (PID) testing, \tan measurements, Sweep Frequency Response Analysis (SFRA), Contact Resistance Measurements (CRM) and Leakage Current Measurements (LCM). In addition to condition monitoring discussed above, hot line maintenance also plays a vital role in maintaining lines and substations.

Life Extension Schemes

The life of equipment such as transformers, switchgears can be enhanced by implementing Life Extension Schemes. For this purpose, certain modifications or

augmentations are required to be undergone on existing equipment. The transmission and distribution utilities can avail financial aid from financial institutions like World Bank, Power Finance Corporation (PFC), Rural Electrical Corporation (REC) etc. for taking up Life Extension of substation equipment and lines.

Smart Grid Technologies

Smart grid is an integration of three technologies namely Electrical Technology, Communication Technology and Information Technology. In the advent of smart grid technology, there are two types of 'flows' in a network- flow of electric power and flow of information. The electrical power can be optimally utilized using smart grid technologies. The main components of the smart grid framework are Automated Meter Reading (AMR), Advanced Metering Infrastructure (AMI), Electric Vehicles, Microgrids, Distributed Generation, Distribution Automation, Outage Management Systems and Transmission Automation. In order to implement smart grid, sixteen locations have been identified all over India for undergoing pilot projects. In Maharashtra state, Baramati is selected for implementation of smart grid pilot project.

In this way the power sector in India has been equipped for maintaining uninterrupted and high-quality electric power to its consumers as a new normal.

-Dr. S. M. BAKRE
Assistant Professor
Electrical department



Life Goes On

How did we end up this way?

I don't know where to start,

*Is this the outcome of human destruction, or is it a kind of conspiracy?
Or maybe a punishment for our sinful deeds, the answer remains unknown.
Why are we facing this situation?*

*Where the world has come to a standstill, like a clock stuck at 00:00;
Where people are locked away in their homes, like a prisoner tossed in a cell;
Where we mourn the loss of millions of precious lives, like a trauma, haunting us for life.
Will we ever get past this?*

The closer we get to a solution,

the further away it seems to go;

The more we try to forget,

the more it appears to be in vain.

So, what are we supposed to do now?

*Pray, for the following generations to be safe; Hope, for a better future;
Love, the people around you;*

Live, in the moment.

*We don't know what will happen tomorrow, so let's gather some courage,
and try to be happy today.*

Put on a smile, hang in there,

and believe that everything will be alright. Always remember, Life Goes On.

**-Devanshi Gangrade
TE IT**



5 ways to practice Self-Acceptance

Self-love, Self-worth, Self-esteem, and Self-acceptance are terms that go hand in hand. Although they sound and seem identical at face value, there are some significant differences between them. These terms are ambiguous and are often used interchangeably at times due to which certain discrepancies arise.

Though they mean different things, they are highly dependent on each other.

Let me break it down for you:

We all ultimately want to be in a place where we truly love ourselves or experience 'Self-Love' - which solves a whole lot of problems in our life. But in order to love ourselves, we need to feel 'worthy' of being loved, which is where 'Self-Worth' comes into the picture. And in order to feel worthy - we need to feel confident and comfortable in our skin which equates to having 'Self-Esteem'. Though, we can only truly feel confident and comfortable about ourselves when we accept ourselves - which is what brings us to 'Self-Acceptance.'

Self-acceptance is where you begin your journey to self-love.

So how do we accept ourselves?

Merely stating that 'We must accept ourselves' is easier said than done.

It isn't as simple. It is a genuine effort that has

to be made on your end. If I'd ask you, 'Have you really accepted yourself', some of you would instantly jump up to answer 'Yes!', whereas a handful of you would be doubtful.

But even to the ones saying Yes, I'd like to ask again, do you truly accept yourself? In every way?



By now you already have an idea as to why self-acceptance is essential, but why does it play such an important role? Why is it the starting point of self-love?

To help you understand this better, let's do an exercise - close your eyes and think of someone who you dearly love unconditionally; it could be someone from your family or a friend or anyone for that matter.

Think about that person's personality, their characteristics, their mannerisms, also think about the things that you like about them, the things that you tolerate about them, and the things that you absolutely can't stand about them.

Does any of these things make you love them

any lesser? Would you have truly loved them unconditionally without knowing and 'accepting' their positives and negatives?

Now in place of that person, put yourself.



Do you know what exactly are your positives, negatives, strengths, weaknesses, your likes, dislikes, your passion and hobbies, the things that make you happy, things that make you sad... I could go on and on! There is just so much about a person that constitutes him/her.

If you do not truly know yourself, there's no way you can accept yourself.

Self-acceptance entails having compassion for yourself. This shouldn't be confused for self-pity. Only when we truly are compassionate to ourselves can we accept that we are not 'perfect', we're human and it's human to err. Sometimes we are too reluctant to accept certain things about ourselves because it makes us uncomfortable. Be compassionate enough to understand that it's perfectly fine to not be everyone else and as long as you are aware of your mannerisms, you're already on a good start.

Here are some ways you can get to know yourself better and accept yourself for who you are:

1. **Be mindful:**

If you feel that you're not able to truly understand yourself, then you need to be more mindful of your reactions and responses. Be mindful and observant of how you feel in a certain situation, or when someone tells you something. Pay close attention to the emotion that you experience and try reasoning as to why you feel that way.

2. **Forgive yourself:**

Don't be too hard on yourself for your mistakes. We are all living our lives for the first time and no one's cracked that secret formula of living a perfect life. What matters is what we learn from those mistakes. Your mistakes don't define you.

3. **Accept that it's okay to be imperfect:**

No human is perfect and someone who's perfect isn't human. Understand this basic fact. Everyone has their shortcomings and flaws – just that they do not display them publically. No one flaunts their flaws, but each and everyone has their own flaws. Normalize the idea that your imperfections are what make you human.

4. **Be your own best friend:**

Take care of yourself as you would for your

best friend. Look out for yourself. Appreciate yourself enough for the times you succeed and correct yourself when you make mistakes. Be your own cheerleader.

5. Don't give up!

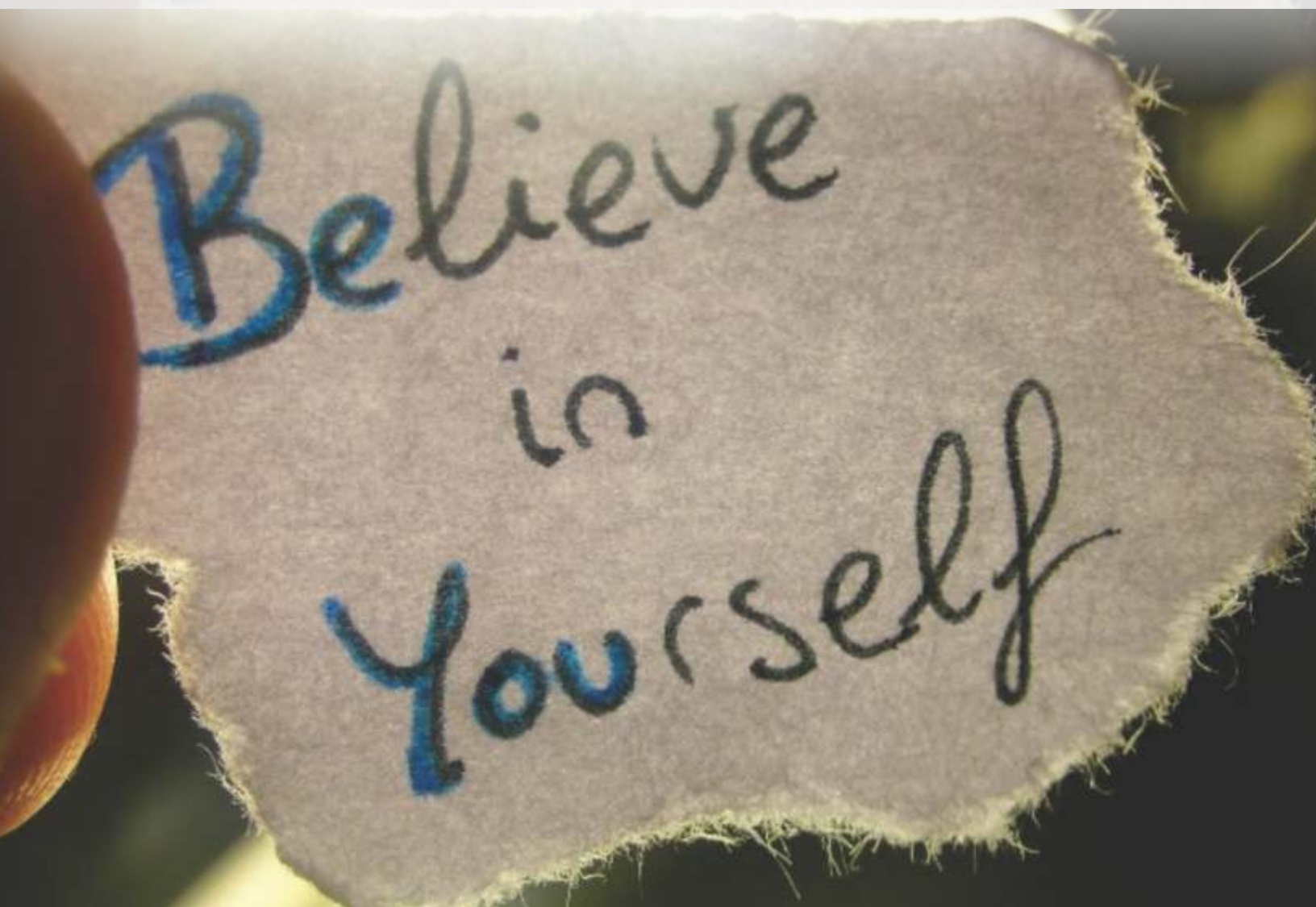
Fall seven times stand up eight. Life will keep pushing you to your limits till you think you can't go any further. But that is exactly where your journey of self-discovery starts. We learn a whole lot about ourselves when we are pushed to the edge – we discover things about ourselves that we didn't know before. Embrace your potential and

keep moving forward with the same zeal.

These were some tips that would help you get on the path of self-acceptance. Enjoy the journey of understanding yourself because the only person you have to live with for the longest time – from the day you were born till the day you breathe your last – is YOU yourself.

Cheers!

-Annette John
BE Computer Engineering II



Turn your Dreams into Reality.

Not everybody is equipped with the knowledge to properly attract their desires and get a much needed life makeover.

If you want to actualize your dreams, you got to do these 4 steps.

1) Be Crystal-Clear About What You Want.

How can you attain your desire if you don't know specifically what it is?

The more specific, the better.
It's not enough to want to 'be rich';
but you have to know how much you intend to earn daily/monthly/yearly, what your ideal net worth is, etc.

Be honest with what you really want, say it aloud, and write it down before moving on to step number two

2) Ask.

When we were kids, we could walk up to anybody and brazenly ask for candy or for ice cream without batting an eyelash.

As we grew up, however, we learned to keep our wants hidden from others and from ourselves as well.

But before you can ever receive anything, you gotta ASK for it!

Some people don't ask because they think they can't get it or don't deserve it.

It could be a result of past disappointments or failed experiences.

But think about it. If you ask, you have around 50/50 chance of getting what you want.

But if you don't ask, there's a 100% chance you won't get it.

So ASK anyway!

But the most crucial thing is to BELIEVE in what you're asking.

"Therefore I tell you, whatever you ask for in prayer, believe that you have received it, and it will be yours"

3) Recognize opportunities.

Once you have made your wants known, opportunities will start to open.

Doors and windows will open to help you reach your goal.

However, if you don't act on any of them, you can't exactly blame the universe for not giving you what you want.

You have to do your part as well.

For example, if you wish to manifest more money, expect jobs to start coming your way.

If you're too proud or too lazy to get a job, how are you going to help the universe and yourself fulfil your request?

4) Be grateful.

Be grateful as if the universe has already given you what you want.

Close your eyes and imagine the feeling of having already received that thing you're asking for.

Imagine how the excitement radiates from deep inside you and keep that emotion with you always.

Some people like to write these things down in their notebooks or post motivational posters on their walls.

However, the best channel of positive feelings is still yourself, so don't let anything get you down.

-Mrs. P. P. Mahale
Assistant Professor
IT department



Inner wellness for you

*Are you dealing with stress right now?
Here are some great ideas...*

1) Put some relaxing music on.

*Music has a lot of relaxing qualities,
depending on the person you are.*

*These days, there are lots of free apps
& sounds that boost relaxation.*

*They may mimic the sound of soft rain,
waves, or other nature sounds.*

*You may also opt for meditation-related
or healing music to soothe your soul.*

There are tons of them on YouTube.

*2) Talk to someone you trust or close
to you.*

*A close friend or family member can
provide you with the outlet you need.*

*Sometimes, being able to rant out your
frustrations can help you manage your
stress better and see things from a
different perspective.*

*Avoid people who will only stress you
out more - those negative, blaming,
complaining people who always sees
the glass half-empty.*

*Go to those who are willing to listen
and those who you know have your back.*

*If you're alone and don't have someone
to talk to, journaling is a fantastic
way to wipe out stress.*



Here's how to use a journal effectively.

3) Laugh every chance you get.

*You've probably heard it a thousand
times. Laughing is the best medicine.*

*Laughter decreases stress hormones
and also activates the immune system.*

*It also increases the amount of
oxygen in your body and boosts your
blood circulation.*

*Besides, there's nothing like a good
joke or a funny story to take your
mind off things for a little while.*

*Watch more comedy movies or funny
blooper videos; or reminisce the
times when something really funny
happened in the past.*

-Mrs. P. P. Mahale
Assistant Professor
IT department

The Elephant Rope (Belief)

A gentleman was walking through an elephant camp, and he spotted that the elephants weren't being kept in cages or held by the use of chains.

All that was holding them back from escaping the camp, was a small piece of rope tied to one of their legs.

As the man gazed upon the elephants, he was completely confused as to why the elephants didn't just use their strength to break the rope and escape the camp. They could easily have done so, but instead, they didn't try to at all.

Curious and wanting to know the answer, he asked a trainer nearby why the elephants were just standing there and never tried to escape.

The trainer replied:

"when they are very young and much smaller we use the same size rope to tie them and, at that age, it's enough to hold them. As they grow up, they are conditioned to believe they cannot break away. They believe the rope can still hold them, so they never try to break free."

The only reason that the elephants weren't breaking free and escaping from the camp was that over time they adopted the belief that it just wasn't possible.

Moral of the story:

No matter how much the world tries to hold you back, always continue with the belief that what you want to achieve is possible. Believing you can become successful is the most important step in actually achieving it.



-Mrs. P. P. Mahale
Assistant Professor
IT department

COVID IMPACT ON WORK CULTURE

The covid-19 lockdown has made work from home a pretty essential feature of the work culture today. Most companies have allowed all possible employees to carry with their routine work from their home. This has brought a kind of positive and professional relaxation into the lives of such people. This has made a virtual workplace and brought more flexibility to people who work in such companies. This has also affected the workwear as they need not to wear their daily professional clothes and rush to office. So, workwear has become casual and is practically not objected from higher authorities, (rather they themselves prefer it).

Looking to the basic financial aspects of it, mostly IT companies have now understood the pros and effect of employees working from home. The daily electricity consumption, daily maintenance of companies has reduced due to people working from home. Thus, companies now encourage employees who need not necessarily visit companies to work from home. This factor is being considered to carry out post-lockdown for most employees as possible for the company.

Thus, companies are increasingly understanding impact of employee happiness which of course helps increasing productivity. This may result to flexible working hours being appreciated more in the future. Moreover, social distancing will ironically help people understand the importance of and will bring them together on a positive note.

Companies have also now accepted the prediction of possible changes in future workplaces as well, and hence are now more dedicated to harnessing technology, so as to carry on their work, no matter the situation be. Thus, Covid life has brought many significant changes in lives of people and their work life, some changes may vanish post Covid and some maybe adapted or modified according to future demands, making people ready to accept current changing situations and adapting it in our own ways.

-Siddhant S. Nakhate
SE Electrical

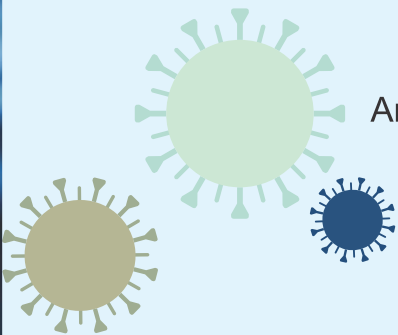


COVID-19

- Started with china and countries affected were 148,
- There is complete lockdown right from Disney land to India gate.
- In Italy to burry bodies there were no place,
- It took a bat to trouble the entire human race!
- Washing hands and wearing mask are steps very trivial,
- As currently they are the oxygen to our survival.
- Lucky were those kids who got direct promotion to higher classes,
- Watching Doremon or tom and jerry with mango juice in their glasses.
- Be indoors why to take irrelevant risks,
- Instead start binge watching Hotstar and Netflix.
- Avoid public gatherings be it a few people or 99
- Bring best version of yourself in time of quarantine.
- Stay and work from home is good steps by government authorities,
- It's for everyone be it common man or renowned celebrities.
- Nurses and doctors, we all give big salutation to you,
- By clapping on 22nd march on the 'DAY OF JANTA CURFEW'
- At the end its time to be serious, warna sabke bajega bara,
- We all know 'zindagi na milegi dobara.

-Deep Kale

Artificial intelligence and data sciences
FE A



“New Normal”

*A new way of living and going about our lives, work and interactions with other people.
This New normal...may be with us for a short period further or for a longer period too.
No one knows about it.*

*Covid-19 is a lot more contagious and infectious, and is not really associated with a certain lifestyle.
Therefore, our level of adaptation and the changes we have to make in our lives is much higher.
These adaptations and changes are considered our “New Normal”.*

*So, what it is like to be Normal in this New Normal?
It's like a blank page to all of us now...which we all need to fill up!*

Some of the ways to Fill up the blank Pages are:

1.GOOD OLD DAYS?

Now, it has been very typical to miss the old ways like the good old days, and as with any change it's easy to have a feeling of loss.

But it's important to give yourself time and stop thinking about what you have lost.

Once you've allowed yourself to stop thinking about past, there will be more space to start embracing your New Normal.

2.Be a Buzzing BEE!

Routine may help us here!

Having a routine can help create some sense of normalcy during time of chaos.

Like replacing GYMs by YOGAs

Replacing cafe coffees or the tapti wali Chai or maybe the Morning Anna ka Dosa's by fresh Home-made things or it may be fresh Self-Homemade dishes.

3.Be Enthusiastic Be Eager!

Now, with much of your life now happening between four walls, having a specific proper space at home to work or study. As you know sometimes the environment surrounding you is a lot affective.

Also, it can be challenging to carry on with the motivation to meet a deadline when you're in your pyjamas the entire day so try to dress-up...it may give you the proper Vibes.

4.Climb The Online Web World!

It does take a bit of creativity though, when we can't do a lot of the things that we previously did...but if we see there are many things which we can do using the Internet, Be it an online Social Gathering for birthdays, Marriages, or an Online Date rather to be in Café.

5.Be Positive. Have a Smile.

The New Normal may be quite challenging at times, so don't forget to celebrate small small things that makes you smile...

Made a nice cup of tea this morning? Great! Walked your dog today? Awesome!

Saw a funny meme on social media? Go ahead and chuckle!

6.Stay Informed and Not Alarmed!

As we adjust to our New Normal, it's helpful to keep an eye on the news due to the changing COVID-19. Get your information from reputable sources rather than from opinions on social media.

Give yourself the space and time to grieve, to celebrate, and to feel every emotion in between, during this challenging time.

May this help us all.

Thank you.

sTaY hOmE sTaY sAFE!

-Yash Bachhav
FE F



Life Changing Lessons Learnt

Covid-19 just ruined our lives but it also confronted me with the reality of people. The lockdown proved that people will only communicate with you when they need you. I know the world just can't revolve around me and also that people have their chores and tasks to deal with but just imagine people you love, not even contacting you for once in the entire process, not even asking you that how have you been. Often, we feel bad about this fact.

Lately, I realized that not all people are going to stay with you forever, not every person is going to like you but there is only one person who can stay with you forever and also in your difficult times and that person is you, yourself. Instead of pleasing people to have a chat with you I came across the fact that loving yourself is more important than pleasing others to stay in your life. Learning to live alone is the only skill we got to master. Once mastered you become fearless, bold, and confident. Things just take time; we should give ourselves space. Instead of wasting time on people who don't respect you, invest your time in reading wisdom literature. I am sure that will lift your spirits. It is not always possible that we surround ourselves with positive people, you will come across people who are pessimistic and that is completely normal, we are humans. We tend to have stress in our tough times. How calm and optimistic we stay even in our difficult times is all that matters. Stated: "Life is only good as YOU make it". This is our life and we are the ones who have the right to make it good or bad. People are fighting their battles every day without even expressing it to others, only in the hope that tomorrow will surely be a better day. "If you don't experience the bad days you won't experience the real sweetness of good ones." How we turn our bad days into good days is in our control and that is possible only if we work hard towards our goals and by focusing on the things that matter. Not

believing in myself was my biggest mistake. I used to trust people but I never trusted myself and the day I started trusting myself things started to change. I felt more independent and confident, with no regrets and no expectations from people. Another key is very important Self-Love. Often in the chores of life, we forget to give importance to ourselves, building ourselves is more important. Also, the factor that to live your life at peace we should learn to let go of things. Learning to let go of certain things is essential, holding on to things we can only end up hurting ourselves. So, we must leave certain things behind to move ahead in life.

Another lesson I learnt is to express Gratitude. Being grateful for the smallest things can create a positive vibration. We as humans we always complain, even if we are blessed with much more than we deserve we always complain about the little that we don't have. Complaining will just lower our energy but being grateful for what we have at present can boost you up. We should always remember that things that we have, someone out there is praying for those things.

Now if I think wasting precious hours of my life gossiping about people and also seeking validation from others was such a waste and also now, I don't need people around me always, I can talk to myself, having a book to read in one hand and sitting beside a window enjoying the serene rain is just enough.

-Sanjana Chhabria
TE D E&TC I

Remote Working- The New Normal

Be stubborn about your goals and flexible about your methods.

As we see we're all in different time zones so the 'Particular Time for working' doesn't really exist. A large part of working culture is based around the idea that people do their best work with differing schedules and that is okay.

Giving people the freedom to work where they want - safe with the knowledge they have and the expertise skills and drive to perform excellently whether they are at their desk or in their kitchen. The freedom of being able to work from anywhere and the flexibility to adapt your work to your life rather than the other way around.

Highlighting the upper hand of Remote Working. Remote working employees are more productive. Now the ultimate question how can someone be productive working from home? There are endless interruptions and no supervision to keep them on track. These are some of the genuine concerns but they deal it on their personal level. It is not going to affect your work. Similarly, remote work is the best way to attract and retain top talent.

People of all ages love the freedom and flexibility that comes with remote jobs. It also comes with lots of perks like saving amount of money for not having to travel to their workplace, other expenses like worrying about your professional attire, eating out, spending on junk and that keeps you healthy and saves the fuel too.

Remote employees help you save cost. Most of the start-ups are on low budget, so a penny saved is a penny earned. This can help you save big in lots of ways. Starting with buying or renting your office, adding to the cost comes the furniture,

computer systems, office supplies as well as maintenance, various bills, etc.

You can hire the best talent with a chance of getting 100% from them if they are in a happy working environment. You can also travel while you do your work, you can visit your family, catch up with old friends, make new friends in hometown all over the world. It's a new found freedom!

It's easy to discover the interest in relationship building with a more efficient schedule, you can invest more time into these interests. Working wherever you want keeps you happy and calm with lower stress and negligible pressure which you have in your cubicle.

That's how Remote Working is the new normal.

-Ishwari Vinod Ambre
SE IT



New Normal

Generally, when someone asks us about the normal lifestyle, we generally define it as our waking time, breakfast, exercise, going to college or work etc. etc. Well this might have been every second person's answer two years ago, as we had the same lifestyle for decades when this pandemic arose. Covid 19 also known as coronavirus not only brought a virus to the world but also led the whole world to stay at home. This busy world where staying outside was more usual than staying at home.

We were free as birds when this pandemic didn't exist as we had no restriction or no masks and not even the fear of being affected by the virus.

One day after college, we received news of the upsurge of the pandemic and headed back to our homes. It sounded fun that time as no college, no lectures sounded more like a relief. But who knew the holiday break for 2 weeks was about to last for 2 years? Still feels like yesterday. Now my new normal started with lectures online on laptop to ending my day with Netflix on Laptop. In a nutshell, we can say my life is now bounded with digital presence 24X7.

The most tragic part of this new normal is not being able to go outside. And even if we do, we always had our masks on. I remember the days we had dinner at restaurants and 9-10:00pm was normal but yes, it is the "old normal" now the past.

The new one has its own rules. 4pm sounds like late night now and completing all the tasks such as grocery or shopping is a roadies task to be completed before that limit. Also, we learned to smile fake from within our masks.

This new normal, did one good thing to us and that is the family time which was lost for a long

time. I still remember me and my family watching Ramayana and Mahabharata in the morning, playing ludo king and UNO, experimenting with new recipes and many more. This pandemic gave us the happiness of staying together and having fun.

Also, sometimes this made me feel depressed as seeing no new people and environment made me feel nostalgic of how good things were.

Slowly and steadily the world is starting to move again, meet each other but we students we are still in the bio bubble as our study from home seems never ending now. I wouldn't say I didn't like the new normal I of course did as I got some me time to work on my skills, make some memories to tell the future generation making it sound like we were on a war. But also, I miss going to college, meeting friends and actually learning from the world.

It is very human to miss the old ways, and as with any change it's easy to feel a sense of loss. Throw in a pandemic, along with changes to routines and plans for the weeks and months ahead in 2020, and it's more important than ever to acknowledge the challenges and difficulties that we face in light of COVID-19. Yes, there will be denial, anger, maybe even depression and acceptance, as we pivot and adjust to our new normal. But it's important to give yourself time to grieve what you have lost.

Once you've allowed yourself to grieve, there will be more space to start embracing your new normal

-Sanyukta kamble
SE IT

Lockdown and Social Media

Social media can either be like your getaway car or a toxic place, depending on how you utilise it. On some days, seeing all your friends happy on their stories or doing something productive when you feel significantly down and are still in your pajamas, tossing and turning on your bed will make you feel guilty for not doing your utmost. Know that it is entirely okay for you to feel that way. It is okay for you to take a day off and do nothing. We often subconsciously compare someone else's best moments with our regular ones, which, needless to say, leads us to think that the person there is living such a great life.

A social media story or post does not embody one's entire life; it is just a fragment of their good times. Lilly Singh, my favourite YouTuber, once said, "Never compare your blooper reel to someone's highlight reel," and honestly, I feel more real words have never been spoken. Remember that you are not alone in this; we are all in this together. Let us hold on to that little ounce of hope that is hidden beneath our fear and sorrows. Let us try and be kind and supportive to as many people as possible, who knows what unspoken battles are they fighting every day. Let us not forget our benevolence and simply be there for each other in these challenging times.

*-Tanisha Nayak
TE IT*



Techno Smart



Technical
Section

■ Staff Editorial



Dear Readers,

Mind is like wind which is not constant every times. It flows continuously with different ideas and thoughts. This wind helps to grow young innovators and writers. We can't hold or stop the wind but we can use this wind. AAYAM is the platform for this wind where writer write the thoughts, ideas and ne inventions so people can use this wind for their purpose like energy creation.

I am thankful to all writers who's the shining stars of AISSMS College and gives response to my

call and penned their ideas for "TECHNO SMART". I also acknowledge constant hard work of student editor Ms. Neha Dhor who proved to be catalysts in mobilizing the students to write their ideas, views and thoughts. I would also like to extend my sincere thanks to our Head of Department Dr. A. A. Shinde for her constant support and guidance through the entire Process of planning and publication of this Magazine.

Finally from our Entire Team of "TECHNO SMART" I wish you to all readers a Happy Reading!!!!

Ms. D. L. Rathod
Assistant Professor

■ Student Editorial



generic topic "TECHNO SMART" has been selected for technical section.

I thanks to all the writers for contributing to the technical section of "AAYAM". I would also like to thank Ms. D. L. Rathod Madam for giving this opportunity & for supporting. Indeed it was wonderful experience and great learning.

Neha Dhor
Student Editor
(Technical Section)

To meet the increasing demands and making life easier for wellbeing of the society we live in and to think about implementing the latest technology. In order to be aware about latest technology this year, a

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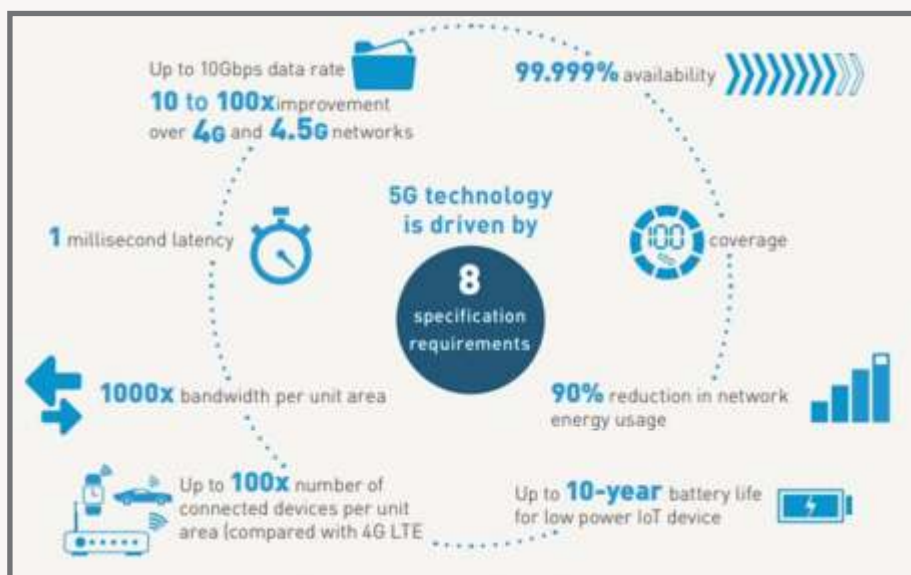
- New Normal Through advance 5G
- Cyberwarfare
- ADAS- The Future of Autonomous Mobility
- Artificial Intelligence
- Machine Learning in a new normal daily life
- Build Great Software Products At Any Scale
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- How Computer get fast, moores law and quantum problems
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- Technology to creat new normal
- The UCL-Ventura
- Smart Factory-Next Step to Industry Evolution
- Data Science - The Fuel for Industry

NEW NORMAL THROUGH ADVANCE 5G

Faster and more reliable internet doesn't just mean we can load webpages more quickly and spend less time waiting for videos to launch on YouTube. Each successive advance in mobile connectivity from 3G onwards has unlocked new use cases for the internet. 3G made web browsing and data-driven services useful on mobile devices, 4G led to the growth of streaming video and music platforms as bandwidths increased, and 5G, likewise, will open more doors in terms of what is possible.

5G means that services relying on advanced technologies such as augmented reality and virtual reality as well as cloud-based gaming platforms like Google's Stadia or NVidia's GeForce Now become a viable proposition, anywhere at any time. They also threaten to make cable and fiber-based networks redundant, with their need for us to be tethered to a particular location.

The fifth generation of the mobile internet is going to bring the kind of speed most people associate with Wi-Fi to uploading and downloading data from remote locations. This will lead to sharp improvements in the



way applications can be written, deployed and interacted with by mobile users. This also includes the development of data-intensive applications and the Internet of Things is meant to deliver higher multi-Gbps peak data speeds, ultra low latency, more reliability, massive network capacity, increased availability, and a more uniform user experience to more users. Higher performance and improved efficiency empower new user experiences and

industries.

5G is based on OFDM (Orthogonal frequency-division multiplexing), a method of modulating a digital signal across several different channels to reduce interference. 5G uses 5G NR air interface alongside OFDM principles. 5G also uses wider bandwidth technologies such as sub-6 GHz and mmWave.

Like 4G LTE, 5G OFDM operates based on the same mobile networking principles. However, the new 5G NR air interface can further enhance OFDM to deliver a much higher degree of flexibility and scalability. This could provide more 5G access to more people and things for a variety of different use cases. 5G will bring wider bandwidths by expanding the usage of spectrum resources, from sub-3 GHz used in

4G to 100 GHz and beyond. 5G can operate in both lower bands as well as mm Wave which will bring extreme capacity, multi-Gbps throughput, and low latency. 5G is designed to not only deliver faster, better mobile broadband

services compared to 4G LTE, but can also expand into new service areas such as mission-critical communications and connecting the massive IoT.

In short, 5G and other advanced, high-speed networks make all of the other trends we discuss here available anywhere, any time. A great example is Norwegian fishery operator Salmar that uses a 5G network to automate the care and feeding of its fish. Image recognition algorithms are used to detect which fish are over or under-feeding, and automatically dispense food and medicine needed to keep them healthy. Initiatives like this will become increasingly important during 2021, where businesses look to increase automation across their workforces.



-Sumeet Saibi
SE Instrumentation



Cyberwarfare

Cyberspace has become another important dimension of warfare, where nations can carry out conflicts without the clashes of traditional troops and machines. This allows countries with minimal military presence to be as strong as other nations in cyberspace. Cyberwarfare is an Internet-based conflict that involves the penetration of computer systems and networks of other nations. These attackers have the resources and expertise to launch massive Internet-based attacks against other nations to cause damage or disrupt services, such as shutting down a power grid.

An example of a state-sponsored attack involved the Stuxnet malware that was designed to damage Iran's nuclear enrichment plant. Stuxnet malware did not hijack targeted computers to steal information. It was designed to damage physical equipment that was controlled by computers. It used modular coding that was programmed to perform a specific task within the malware. It used stolen digital certificates so the attack appeared legitimate to the system.

The main purpose of cyberwarfare is to gain an advantage over adversaries, whether they are nations or competitors.

A nation can continuously invade other nation's infrastructure, steal defense secrets, and gather information about technology to narrow the gaps in its industries and military. Besides industrial and militaristic espionage, cyber war can sabotage the infrastructure of other nations and cost lives in the targeted nations. For example, an attack can disrupt the power grid of a major city. Traffic would be disrupted. The exchange of goods and services is halted. Patients cannot get the care needed in emergency situations. Access to the Internet may

also be disrupted. By affecting the power grid, the attack can affect the everyday life of ordinary citizens.

Furthermore, compromised sensitive data can give the attackers the ability to blackmail personnel within the government. The information may allow an attacker to pretend to be an authorized user to access sensitive information or equipment.

If the government cannot defend against cyberattacks, the citizens may lose confidence in the government's ability to protect them. Cyberwarfare can destabilize a nation, disrupt commerce, and affect the citizens' faith in their government without ever physically invading the targeted nation. Cybersecurity professionals must have the same skills as cyber attackers. Cybersecurity professionals must work within the bounds of local, national and international law. Cybersecurity professionals must also use their skills ethically. Finally, this article briefly explained cyberwarfare and why nations and governments need cybersecurity professionals to help protect their citizens and infrastructure.

Rishabh Jagtap
ENTC, BE (B)



ADAS- THE FUTURE OF AUTONOMOUS MOBILITY



Remember the movie *Tarzan the wonder car* which was based on a story of a self-driving car? It was a purely fictional story and, in those years, such things were possible only in a movie. But we know that yesterday's science fiction is today's reality. ADAS technology is one of those reality that we can experience today.

Advanced driver-assistance systems (ADAS) are electronic systems in a vehicle that uses advanced technologies to assist the driver. It comes under the level 2 of vehicle autonomy, one of the 6 levels of autonomous driving. They can include many active safety features which in turn helps the driver to drive the vehicle without any worries. ADAS uses sensors in the vehicle such as radar and cameras to perceive the world around it, and then either provides information to the driver or takes automatic action based on what it perceives.

Most of the ADAS features commonly include “warning” systems. For example, if the vehicle detects an object such as another vehicle or a cyclist in a location where the driver may not be able to see them, features such as blind spot warning or rear

backup warning will alert the driver. Likewise, if the system determines that the vehicle is drifting out of its lane, it could activate lane departure warning to alert the driver.

When these detections are coupled with a technology that takes action beyond a simple warning, ADAS becomes an active safety system – meaning the vehicle will “actively” control braking or steering. These features most commonly include “assistance” in the name. These features can dramatically increase the effectiveness of ADAS to save lives. A study related to accidents all over the globe found that forward collision warning systems lower front-to-rear crashes by 27% & when the system also includes the ability to automatically brake, the same percentage gets doubled. Similarly, rear-view cameras reduce rear crashes by 17%, but rear automatic braking lowers them by a massive 78%.

ADAS also includes propulsion functions such as adaptive cruise control, which varies speed to ensure that a vehicle maintains a safe distance from the vehicle in front of it. More sophisticated ADAS features can even manage steering and propulsion

without the need for hands-on control from the driver under certain conditions, such as highway driving or stop-and-go traffic. These are typically referred to as Level 2+ active safety systems, and represent some of the most advanced functionality currently available on the market.

Some of the features which comes under true ADAS systems are active lane keep assist, brake assist, blind spot assist, active park assist, adaptive cruise control, pedestrian detection & the list goes on. Major automobile brands like Mercedes Benz, BMW, etc are already putting these features in their products since a decade. The latest entrant in the list is not just the newest but also the most advanced ADAS equipped automobile company- Tesla motors. Tesla has engineered their own advance ADAS system called the Tesla Autopilot in which the car automatically drives itself without any human interference. Today, even manufacturers like Mahindra, MG motors are equipping their vehicles with basic ADAS functionality in mass

market cars. The days are not so far wherein the autonomous driving will become a normal thing for everyone of us. But, as every technology has their pros and cons, ADAS is not an exception to it. The technology has not grown to that extent where complete control can be given to a machine and one can sleep peacefully in his/her car. Even manufacturers say that even if a vehicle has ADAS features, it doesn't mean that the driver should keep himself away from all the controls of the vehicle. Next thing is, right now, we don't have the proper infrastructure like roads, markings, restricted speed limits because of which autonomous driving will be difficult to operate, at least not in India though! But all these limitations can be corrected in future which will make the doors open for mass market ADAS based vehicles.

Prateek Hanchate
BE D
E&TC



Artificial Intelligence



Artificial intelligence

Artificial intelligence is a boon to the human society. Basically artificial intelligence means that the machines which actually mimic all the human actions and the response to stimuli. It is done by using computer system and the machines are been programmed according to the need. There are some of the sub-types of artificial intelligence- reasoning, knowledge representation, planning, learning, natural language processing, perception and the ability to move and manipulate objects.

Looking into the history of artificial intelligence, it was founded as an academic discipline in 1956. The major applications of AI are as follows: expert systems, natural language processing, speech recognition and machine vision, etc. AI research has used the hit and trial method in many different approaches during its lifetime, including simulating and training of the brain, modelling human problem solving tendency, formal logics, large databases of knowledge and emulating animal behaviour. In its first decades starting at the 21st century, highly mathematical statistical machine learning has dominated the field, and this technique has proved highly successful, helping to solve many challenging problems throughout industry and academia.



History of artificial Intelligence



Applications

Artificial intelligence helps in curing cancers, for automating the automobiles and also to increase human intelligence. Today, we already have adopted artificial intelligence in our day-to-day life. We use it in Google maps, Alexa, Face Detection and Recognition, Text Editors or Autocorrect, Chatbots, Social Media, E-payment and many more applications as such. Artificial intelligence makes our living easier and better. It reduces human efforts

and saves time. Artificial Intelligence applications which are widely used all over the world include up to the minute search engines, smart advisable systems which are very often in use by various companies like YouTube, Amazon and Netflix, helps in recognising the natural human language such as Siri or Alexa, automatic cars e.g. Tesla, and are capable of throwing one's hat in the ring at the pro level in strategic game systems such as chess and Go.

Ms. Jijnyasa Sandeep Joshi
SE Instrumentation

Machine Learning In A New Normal Daily Life

ML is one of the most exciting technologies that one would have ever come across. As it is evident from the name, it gives the computer that makes it more similar to humans: **The ability to learn**. It is a branch of artificial intelligence based on the idea that systems can learn from data, identify patterns and make decisions with minimal human intervention.

The need for Machine Learning Engineers are high in demand and this surge is due to evolving technology and generation of huge amounts of data aka Big Data. On an Average, an ML Engineer can expect a salary of ₹ 719,646 (IND) or \$111,490 (US). Herein, we share few examples of machine learning that we use every day and perhaps have no idea that they are driven by ML.



1. Virtual Personal Assistants

Siri, Alexa, Google Now are some of the popular examples of virtual personal assistants. As the name suggests, they assist in finding information, when asked over voice. Machine learning is

an important part of these personal assistants as they collect and refine the information on the basis of your previous involvement with them.



2. Traffic Alerts (Maps)

Now, Google Maps is probably the app we use whenever we go out and require assistance in directions and traffic. Everyone using maps is providing their location, average speed, the route in which they are traveling which in turn

helps Google collect massive Data about the traffic, which makes them predict the upcoming traffic and adjust your route according to it.



3. Social Media Services

From personalizing your news feed to better ads targeting, social media platforms are utilizing machine learning for their own and user benefits. Here are a few examples that you must be noticing, using, and loving in your social media

accounts, without realizing that these wonderful features are nothing but the applications of ML. People You May Know, Recommendation, Face Recognition.



4. Self Driving Car

Well, here is one of the coolest application of Machine Learning. It's here and people are already using it. Machine Learning plays a very important role in Self Driving Cars and

I'm sure you guys might have heard about Tesla. The leader in this business and their

current *Artificial Intelligence* is driven by hardware manufacturer *NVIDIA*, which is based on Unsupervised Learning Algorithm.



5. Online Video Streaming (Netflix)

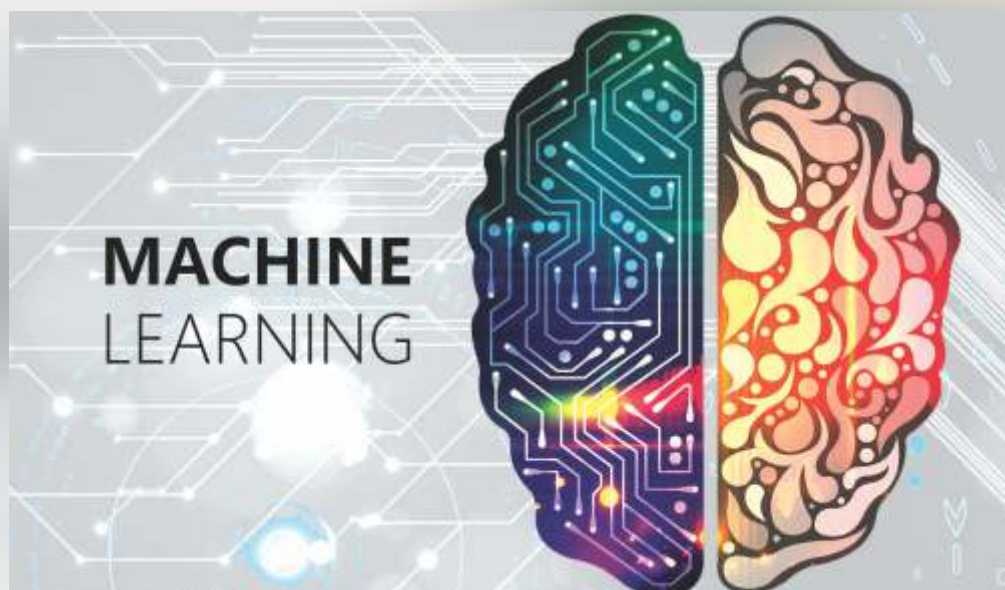
With over 100 million subscribers, there is no doubt that Netflix is the daddy of the online streaming world. Netflix's speedy rise has all movie industrialists taken aback – forcing them to ask, “*How*

on earth could one single website take on Hollywood?”.

The answer is Machine Learning. The Netflix algorithm constantly gathers massive amounts of data about users' activities like: When you pause rewind or fast forward, The Date and Time you watch, Browsing and Scrolling behavior and a lot more. They collect this data for each subscriber

they have and use their Recommender System and a lot of Machine Learning Applications. That's why they have such a huge customer retention rate.

It remains not worth amazing how machine learning and artificial intelligence have changed our life by making it easier, also with some of AI and ML trends we are expecting more growth in technologies. We have screened various applications here, the machine learning is used back in the arena to impact our daily lives, it also allows us to take business decisions, optimize operations and augment productivity for industries to stand out in the market.



BUILD GREAT SOFTWARE PRODUCTS AT ANY SCALE Jenkins in a Nutshell — to put it concisely



Ever thought about how do we get our software products ready in very little time? Every time the end-users get the newly updated fresh software ready without any delay. The tool behind this is Jenkins. Are you all excited to learn more about Jenkins and its Use-Cases? If Yes, then this is for you.

Jenkins is an open-source automation tool written in Java with plugins built for Continuous Integration purposes. Jenkins is used to build and test your software projects continuously making it easier for developers to integrate changes to the project, and making it easier for users to obtain a fresh build.

Jenkins is a free and open-source automation server. It helps automate the parts of software development related to building, testing, and deploying, facilitating continuous integration and continuous delivery. It is a server-based system that runs in servlet containers such as Apache Tomcat. Jenkins provides hundreds of plugins to support building, deploying, and automating any project.

You may now wonder what are those terms in the image shown above? Let's have a look at them all one by one...

Commit: The “commit” command is used to save your changes to the local repository. Note that you have to explicitly tell Git which changes you want to include in a commit before running the “git commit” command. This means that a file won't be automatically included in the next commit just because it was changed.

Build: In Jenkins, a user creates job(s) which is typically a configuration for running autonomous tasks. Every time you run a job, Jenkins compiles the job configuration inside the project workspace to perform the defined steps. Each run of this job is called a build and each step is called a build step.

Test: Writing automated tests for Jenkins and its plugins is important to ensure that everything works as expected — in various scenarios, with multiple Java versions, and on different operating systems — while helping to prevent regressions from being introduced

in later releases. To make the development of tests simpler, Jenkins comes with a test harness, based on the JUnit test framework.

Stage: A stage block defines a conceptually distinct subset of tasks performed through the entire Pipeline (e.g. "Build", "Test" and "Deploy" stages), which is used by many plugins to visualize or present Jenkins Pipeline status/progress.

Deploy: Jenkins provides good support for providing continuous deployment and delivery. If you look at the flow of any software development through deployment, it will be as shown below.

Many companies, open-source projects, and other organizations use Jenkins. Some of the are as listed - Cloudera, Cloudbees, Github, NASA, Dell, ebay, Facebook, SpaceX, Yahoo!

Jenkins uses a variety of plugins to make the DevOps process easy. Plugins are the primary means of enhancing the functionality of a Jenkins environment to suit organization- or user-specific needs

Some useful Jenkins Plugins are given below:

- Pipeline Plugin
- Slack Plugin
- Thin Backup
- Timestamper
- Dashboard View
- Job Config History Plugin
- Build-timeout
- Git Plugin and
- GitHub pulls request builder plugin.

Uses of Jenkins :

1. Jenkins lowers the Effort of repeated coding.
2. Jenkins can be configured to run CI and CD concepts properly
3. Integration of Individual Jobs.
4. Greater data support for project management.
5. Code deployment to Production.
6. Synchronization with Slack
7. Manual Tests Option

-Mansi Deshmukh

" Crypto currency "

"Innovation is the outcome of a habit, not a random act."

So let us talk about the emerging monster innovation know by name "CRYPTO"

Crypto currency is a type of CURRENCY without physical appearance. It is a digital asset designed to work as a medium of exchange wherein individual coin ownership records are stored in a ledger existing in a form of a computerized database.



It uses strong cryptography to secure transaction records, to control the creation of additional coins, and to verify the transfer of coin ownership.

Here, are some important conditions of Crypto currency,

- The system does not require a central authority; its state is maintained through distributed consensus.
- The system keeps an overview of crypto currency units and their ownership.
- The system defines whether new crypto currency units can be created. If new crypto currency units can be created, the system defines the circumstances of their origin and how to determine the ownership of these new units.
- Ownership of crypto currency units can be proved exclusively cryptographically.
- The system allows transactions to be performed in which ownership of the cryptographic units is changed. A transaction statement can only be issued by an entity proving the current ownership of these units.
- If two different instructions for changing the ownership of the same cryptographic units are simultaneously entered, the system performs at most one of them.

BITCOIN, was the first to be released as open-source software in 2009, is the first decentralized crypto currency. Since the release of bitcoin, many other crypto currencies have been created.



The most important types of cryptocurrencies are Bitcoins and other are as follow:-

Today's current rate of cryptocurrency is:-



Here are some advantages of crypto currency:-

Transaction Speed Anonymity No restriction on payments Secure Payment information No Inflation

-Ms. Vaishnavi Suhas Phadtare
SE Instrumentation

If Analytics is The Engine

"If Analytics is the engine, then Data is the 21st century fuel," says Simon Quinton. Without data, businesses would not be able to uncover useful insights that could help streamline their business. Without customer data, improved customer satisfaction or personal creation will not be possible.

If you are looking for Best tech Jobs in demand right now or future jobs you will get a list of job opportunities in industry stating:

- *AI architect*
- *Business intelligence analyst*
- *Cloud architect*
- *Data (analyst, scientist, engineer)*
- *Developer (web, software, mobile)*

And if you look close into it you will get to know that in every field or industry there is a demand of Knowledge domain or skill set of Artificial Intelligence and Data Science.

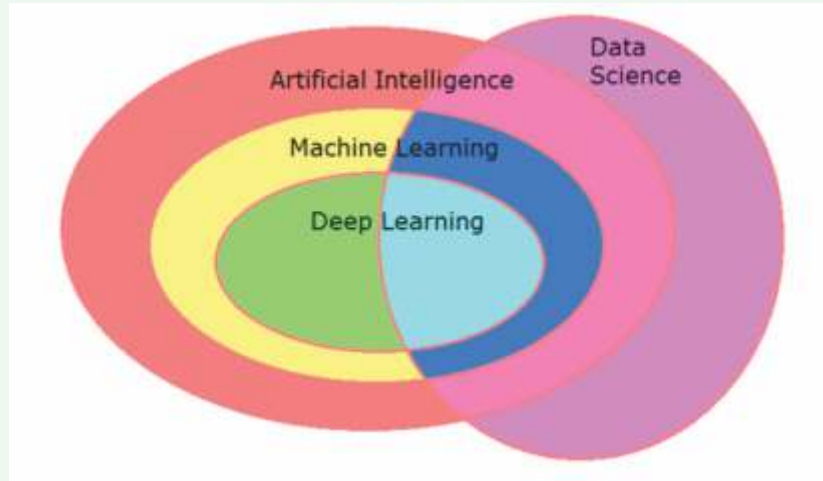
Most artificial intelligence work positions in demand are those of machine learning developers, software engineers and data scientists. But people often get confused with these terminologies as they get additional details about DS or vice versa any time they search or talk about AI, so they either think or confuse that AI and DS are the same or come along with it, but here I'd like to notice key differences between the two domains or rather say ecosystems.

Artificial Intelligence Vs Data Science

1. *AI is implementing a predictive model for forecasting events to come. Data Science, on the other hand, is a systematic method involving pre-processing, analysis, visualization and prediction.*
2. *AI uses computer algorithms while Data Science is composed of various statistical techniques.*
3. *AI's about granting the data model autonomy while Data Science is about discovering hidden trends in the data. AI is for building models that emulate cognition and human understanding. On the other hand, with Data Science, we build models that use statistical insights.*

So basically we will understand that AI is application oriented domain where DS is Analytics oriented where Analysis is done with help of various mathematical models. (Statistics, Probability and Linear Algebra, etc).

To better understanding simply get a look at Venn diagram for AI&DS



For insight into the diagram we had to learn the two interchangeably used terms. Artificial Intelligence is a broad, yet largely unexplored domain. Data Science is a discipline using AI to produce predictions while also focusing on data transformation for analysis and visualization. Hence, in the end, we conclude that while Data Science is a job that performs data analysis, Artificial Intelligence is a tool for making better goods and autonomously imparting them.

As it is required by the world.

Demand for skilled professionals in data science, including data scientists, ML, and AI Engineers, is on the rise. The supply of qualified professionals in the area, however, is creeping at a much slower pace. IBM predicts that by 2020, Data Science will take up 28 percent of all digital jobs, but unfortunately, due to a shortage of qualified candidates, job openings remain empty for as much as 45 days. IBM's The Quant Crunch Report also states:

"Machine learning, big data, and data science skills are the most challenging to recruit for, and can potentially create the greatest disruption if not filled."

With so many vacancies in Data Science, now is the time to upskill and take advantage of the golden opportunity!

High salaried jobs

Data Science is a highly advanced and exclusive field of study and there is no doubt that professional's make big money in this area. For example, according to Pay Scale a data scientist's average salary in India is Rs 6,99,928, and a data analyst's average salary is Rs 4,04,924.

Many of the Data Science work positions have a relatively similar pay scale. The best part – you'll never have a boring career as Data Science is always developing. There will be plenty of opportunities for employment, upskilling and gaining more.

Application Areas

Data Science is a dynamic discipline that has found applications in all sectors, including healthcare services, finance, e-commerce, business and consulting. But only a handful of individuals have the necessary skill-set to make it big in Data Science. Also, job functions in data science also have overlapping skills, which imparts a degree of versatility and agility to Data Science professionals. There are plenty of vacancies to fill but there are not enough candidates to fill those roles.

1. Data Scientist

By now, we are quite sure you would have understood the roles and responsibilities of data scientists. They are primarily involved in collecting data from multiple touchpoints, analysing it, interpreting it for inferences and insights and coming up with effective solutions for business concerns. Machine learning and artificial intelligence are integral parts of data science, where techniques from both such as regression, predictive analytics and more are applied for insight generation.

2. Machine Learning Engineer

Machine learning engineers are some of the most in-demand workers in artificial intelligence, with an average income of over a Rs. 671,548. They are most sought-after by businesses, and are hired for operations immediately if considered necessary. Machine learning engineers come with software skills, natural language handling, statistics, applied math and working knowledge of tools like IntelliJ, Eclipse and more. If you're an AI aspirant, you might want to consider becoming a machine learning engineer for more.

3. Research Scientist

A research scientist plays an interdisciplinary role. He or she will go back and forth between working on projects focused on artificial intelligence and machine-learning. Deep learning, reinforcement learning, natural language processing, machine vision, and more will require a research scientist. You need to have expertise in parallel computing, distributed computing, algorithms and computer engineering if you want to become a research scientist.

4. Business Intelligence Developer

A creator of business intelligence brings business acumen to the table apart from the artificial intelligence and machine learning skills. He or she is responsible for crunching large amounts of market insights data, and working from a variety of viewpoints to increasing a company's income. Business intelligence engineers are responsible for holding company development on their shoulders, from developing and managing data for cloud-based applications to optimizing workflows and processes.

Apart from these, the potential for employment in artificial intelligence and machine learning also stretches through work roles such as

• Full stack developer	• Software architect
• Data analyst	• Data warehouse engineer
• Product manager	• Front-end develop

-Mr. Chetan Nimba Aher
Assistant Professor
Computer Department

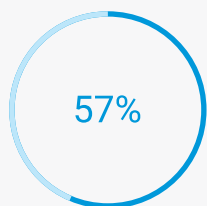
E-SPORTS

During Covid pandemic everyone was sitting at home playing online games, watching Television. According to media survey, “During the crisis, a third of consumers have, for the first time, subscribed to a video gaming service, used a cloud gaming service, or watched esports or a virtual sporting event.” Furthermore, in previous years, Survey had found that “a quarter of consumers rank playing video games as one of their three favorite entertainment activities.”

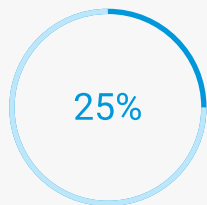
For an industry that has only started to mature over the past 10 years, Covid-19 was just fuel to the fire of a rapidly growing market that is on pace to surpass \$1.5 billion by 2023. And as trends like streaming, virtual and augmented reality, and in-game entertainment (like the Travis Scott performance within Fortnite) all continue increases, we have only just scratched the surface of the role esports and gaming can play in the future of our society. There are three core areas that are expanding quickly: investments, advertising, and sponsorship.



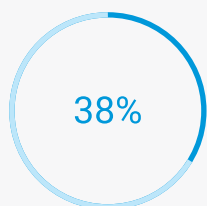
2 YEAR MARKET GROWTH



ASIA CONTRIBUTES



COMPOUND ANNUAL GROWTH RATE



Survey predicts that eSports will be one of the top media trends to shape the coming decade. With an industry that's predicted to break more than \$1.5 billion in revenue next year, eSports are hotter than ever before. Activate notes that, globally, the industry could scale to \$7 billion by 2023. BGMI, Fortnite, Call of duty, etc. Are some of biggest eSport platforms.

Nothing that the explosive popularity of eSports has driven a larger focus on community. The gaming industry in 2020 will rely on creating a community as a driving force more than ever. With in-game chat options, influencers, apps, and forums, gamers have more channels to join a larger discussion. Social media and forums are connecting players to each other and the game, creating a deeper level of engagement. While 'interactive' leads



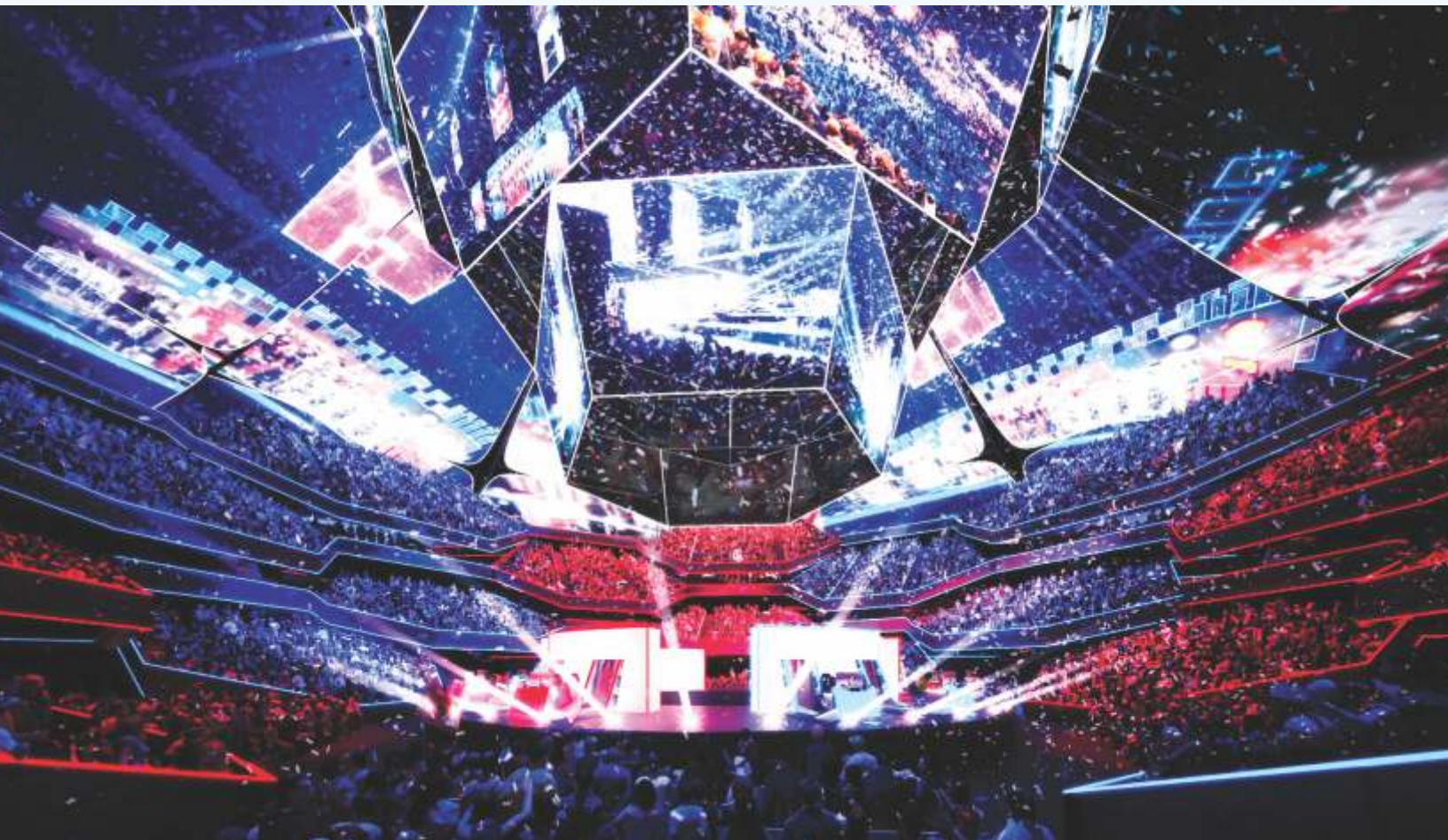
most people to think about VR or AR options, with the big focus and opportunity available to create communities now this will be the true way that the gaming experience becomes more interactive. Influencers are becoming celebrities now a days, giving them popularity and way of income.

One of the biggest benefits of eSports in the workplace is improved collaboration and team building skills. “Our eSport competition has helped the

teams develop cooperation and team-leading skills, which definitely carries over to the workplace,” says Luka Arezina, Editor in Chief at DataProt. “The matches can get intense, where one small mistake can cause a team to lose, so it also builds trust by simulating the real-time reactions of people when they are under pressure.”

The introduction of 5G will also become a central component of the eSports competitive landscape. Increasing number of Internet users giving audiences for eSport. There’s an increasing demand to provide the infrastructure needed to enable seamless engagement, interactivity between players and fans, and to do so in a fast, secure, and reliable virtual environment. Investing in infrastructure will enable connected communities, enhanced gaming experiences, and ultimately, a much broader fan base.

-Sumeet Saibi
SE Instrumentation



How Computers get fast, Moore's Law and Quantum Problems



This is the IBM Gene/L, 2005's fastest supercomputer on the planet with a capacity of doing more than 100 Trillion Calculations per second or (100 Teraflops).

And this is Nvidia's newest flagship GPU of 2021, the RTX 3090. Having an MSRP of \$1500 & capable of doing 142 Teraflops. (Yes, faster than the fastest supercomputer of 2005.) So what exactly happened in just 15 years that allowed us to go from a hall full of a supercomputer consuming a few thousand watts of power, requiring more to cool it, and costing tens of millions to a device which anyone can own costing a meager fraction at a couple of thousand dollars and not requiring more than 400W of power to operate?

Generally, there are many factors that make newer computers faster, new and improved architecture, better designs optimizations in fundamental blocks like transistors (CMOS, FinFETs etc.). But the one that generally has a huge part in increasing the performance of computers per generation is the



process of node shrink.

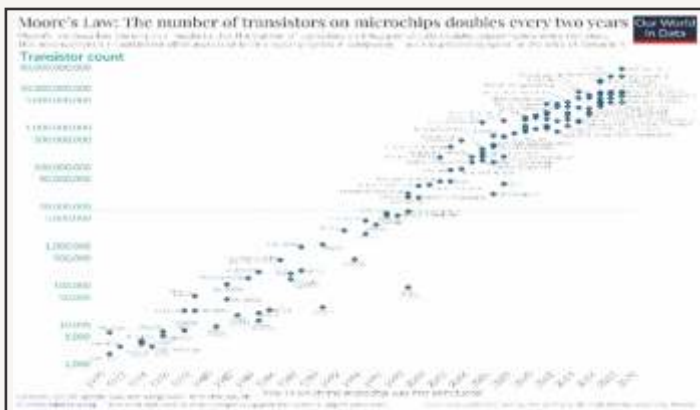
Each Processor is made from a fundamental building block known as a transistor. There may be upwards of one billion transistors in a single processor to allow it to perform these large number of calculations. These transistors are so small they are measured in nanometers (nm) which is a billionth of a meter or 10^{-7} meters. So if you see that a transistor is marketed as 14nm or 10nm or 7nm, it is the size of the transistor and the smaller the size the better processor will perform.

For example, a CPU with a 7nm node can fit twice as many transistors as that of a 14nm CPU with the same architecture and die area. It also reduces the power consumption of the CPU and allows the processor to reach higher clock frequencies.

Each Processor is manufactured by factories specifically referred to as “Fabs”, TSMC (Taiwan Semiconductor Manufacturing Company), Global Foundries, Samsung and Intel to name a few of these fabs. There is because there is no universal standard to calculate nanometer value. Different processor manufacturers or fabs calculate it in different ways. So, 10nm TSMC is not equivalent to 10nm Intel or 10nm Samsung.

Moore's Law

Moore's Law refers to Gordon Moore's observation and the prediction in 1965 that the number of transistors on a microchip doubles every two years, though the cost of computers is halved. Moore's Law states that we can expect the speed and capability of our computers to increase every couple of years, and we will pay less for them.

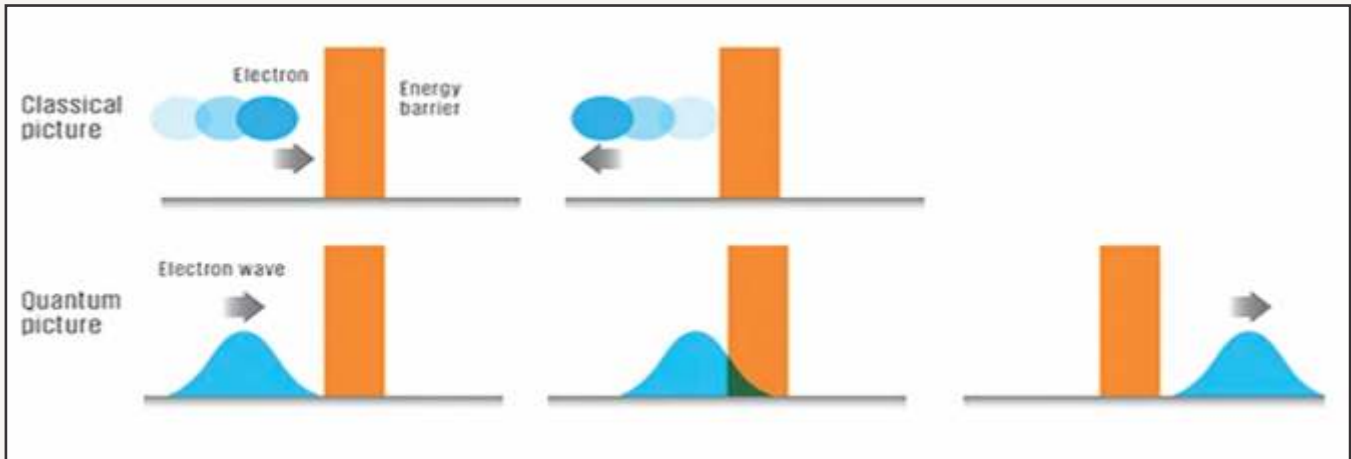


Source- Max Roser, Hannah Ritchie

In the late 90s and early 2000s, transistors shrunk in size by half every two years, leading to huge improvements on a regular basis. But recently further shrinking has gotten more complicated. We have not seen a transistor shrink from Intel's 14nm process since 2014 as their 10nm process was struggling with low

yield rates but Alder Lake is expected to launch in November this year which will be based on the 10nm process and new architecture. These new processes are the first major shrinks in a long time, especially from Intel, and represent a brief rekindling of Moore's law.

The Quantum Problem & Future-There will be a point when shrinking of the node will be physically impossible due to the phenomenon known as "Quantum Tunneling". The gates of the transistors will be so close together that electrons will be able to teleport beyond it.



"In classical electrodynamics, an electron (blue) would bounce back from an energy barrier (orange) if its energy did not exceed the barrier height. In fact, electrons have a finite probability of passing through the energy barrier. The thinner the barrier, the higher the probability that such a tunneling event might occur."
Source: IEEE

Changes will have to be made in techniques, architecture and mass production of these chips to continue Moore's Law forward. Research into Tunnel Field-Effect Transistors or TFETs has been advancing rapidly recently. Suman Datta and his colleagues at Pennsylvania State University (PSU) were the first to demonstrate III-V TFETs. They used channels made of a mix of indium, gallium, and arsenic and have set a record, with an "on" current that was 50 times as high as with the best germanium TFET. It is also possible with all the advancements in Quantum Computing we all might have a quantum computer in our pockets in the future.

-Atharva Shinde
BE-D E&TC Dept

BLUE EYES TECHNOLOGY



We live in a world where science and technology have been emerging throughout history. In today's world, its role is indispensable. We need science and technology in every sphere of our life, from treating chronic diseases to booking a cab. Artificial Intelligence (AI) is the field of science and technology, presenting us with immense possibilities for the future along with our present.

One such technology is the **“Blue Eyes Technology”**. This technology has been conducted by the research team of IBM at its Almaden Research Centre (ARC) in San Jose, California, since 1997. The term ‘Blue’ refers to Bluetooth which enables reliable wireless connection, and ‘Eyes’ refers to seeking information from our feelings. Its

an amalgamation of both hardware and software technologies with whose assistance we can build machines having a human-like sensory and perceptual ability. Due to this, gadgets can naturally interact with human beings as humans interact with one another through speech, facial expressions, and touch.

The Blue Eyes technology consists of two hardware components - Data Acquisition Unit (DAU) and Central System Unit (CSU). Its software components include- Connection Manager, Data analysis module, and Visualization module. The software present continuously monitors the conditions of our surroundings. When the conditions change, the software performs real-time analysis of the incoming data and then triggers several operations based on these captured data. This technology identifies human emotions using image processing techniques by extracting the eye portion from the captured image and compares it with the images stored within the database. This high-end technology facilitates the computers to speak, listen and feel our presence with various tools of AI, like fingerprints, facial recognition, retina scans, video calls, etc.

The devices used for collecting the information here are as unique as the technology itself. These are specialized to acquire data through touch (Hand Emotional Sensors), vision (Eye Emotional Sensors), and hearing (Voice Emotional Sensors). These devices include - Emotion Mouse, Semitic Mouse, Expression Glass, Magic Pointer, etc.

Blue Eyes Technology is valuable in many aspects of technology. It ensures a convenient way of simplifying our life by providing a user-friendly and interactive environment. There is a vast scope of Blue Eyes Technology in the imminent future, and the possibilities are limitless.

-Devanshi Gangrade
TE – IT

How artificial intelligence is transforming the world ?

What is Artificial Intelligence(AI)?

AI is a set of technological tools and algorithms that provides us with predictions, recommendations, and decisions to alter digital and real environments that are based on various data.

Artificial intelligence is supposed to perform the tasks that initially were considered to be predominantly done by humans.

Artificial Intelligence Examples in the Real World

The impacts of artificial intelligence is not only visible but also tangible. Take out your Android phone and say, “Ok, Google.” Once you’ve uttered it, you’ll hear a pleasant woman’s voice. This is artificial intelligence in its manifestation as virtual assistants, or, as sometimes also called chatbots. However, it should be noted that some companies and people still prefer to distinguish between chatbots and virtual assistants.

Impact of Artificial Intelligence in Everyday Life

How does artificial intelligence affect our lives in other spheres? You might not even notice it, but one of the main manifestations of AI is in the way we entertain ourselves and meet new people, or encounter our partners online. We, as smart human beings, will always derive considerable pleasure out of books, music, TV shows, and movies we like. And without giving it much thought about what lies behind our everyday activities, we use recommendation systems to choose entertainment for our liking. These are just a few uses of artificial intelligence in daily life. And the chances are — you know these AI-powered examples very well.

- YouTube recommendation engine
- Netflix recommendation engine
- Google Translate
- Google Maps
- Social media sensitive content search
- Photo and video editing apps

AI Application in Business

AI is going to be an integral part of almost every business domain. Automotive, marketing, and advertisement, agriculture, healthcare, e-commerce, criminal justice, and many others will definitely benefit from using artificial intelligence. Let’s see some significant examples of AI applications in business.

1. **Artificial intelligence in the automotive industry :-** When you think about artificial intelligence in automobiles, the first thing that comes to your mind is a self-driving car. Even though hardly any vehicle is fully autonomous, self-driving cars are not that distant and obscure future anymore

2. **Artificial intelligence in advertising and marketing :-** It might be too early to talk about what the full impact of artificial intelligence is going to have on marketing and advertising. Still, the technology does have some good potential that can be unlocked in the future. For example, personalization is going to be the new block in marketing and advertising. If you target people using the same marketing techniques, tools, and methods, do not expect you'll yield spectacular results in time to come. But AI can be a real game-changer in how marketing and ads campaigns are being run today. For instance, personalized advertisements are a hit with various companies. Many corporate giants as Facebook, Google, YouTube, have already been using ads powered by AI for targeting specific audiences.

Conclusion :- Artificial intelligence is no longer mere science fiction as it has long gone far beyond theories and assumptions. Even though some of the advanced manifestations of AI, like fully autonomous vehicles or a super drug that will cure major diseases, haven't arrived yet, we still can observe its presence in almost any sphere of human activity — from entertainment, automotive, e-commerce to the economy. AI is everywhere — in the smartphone you are carrying around with you to IoT devices.

-Chetan Agarwal
TE 2nd Shift
Computer



Cyberwarfare

What Is Blockchain?

Blockchain is like the future of online technological transactions. It is a database that stores information by chaining it together in sequential order. It has an inherently secure recording system that makes it impossible to be tampered with or hacked. Unlike typical databases, information is not copied or transferred in blockchain; it is distributed.

Everyone has access to this information, and changes are evenly recorded across everyone's dashboards in a way that enhances complete transparency.

Just like the name implies, blockchain deals with information blocks. These blocks store information or transactions, and when a block is full, it is added to the other blocks and chained sequentially to the order.

How Does It Work?

As explained, this database stores information on blocks that are chained together. One block has a specific storage capacity, and once this is filled, it is added to the chain, and a new block is formed. After each block is added to the chain, the transaction is time stamped and irreversible.

The most amazing thing about this technology is that since this database is like a spreadsheet dispersed across many computers, everybody can see the transactions made, but nobody can corrupt it.

How Can Blockchain Technology Affect the Educational Sector? And Will It Be Good?

Technology improvements are especially beneficial to the learning environment. Still, blockchain takes these benefits to a whole new level. Every university or college is beginning to adopt this technology for better management and an overall enhancement of the educational experience for each student. Here are a few ways this technology has positively affected education:

- **Increased Security**

With blockchain technology, no document can be “lost” or “misplaced”. The highly secure chronological method of storing information and transactions on this database provides complete security. Any data entered into the system cannot be wiped off or tampered with. This is especially great for pupils who mischievously change the grades on their report sheets. This technology will put an end to file corruption.

- **Storage Of Important Files**

This is important as a lot of institutions are facing this problem. For instance, a school has graduated thousands of people. If this establishment were to store its digital data and records, it would need more storage space. Using a hard disk file is as risky as it is dangerous. Losing that disk would mean that the records of

thousands of students have been wiped. Blockchain will solve that problem. You can store as much data as you want, and it will remain safe.

- **Reduce Fraud**

Sometimes job applicants fake their school transcripts and reports. This is such a big disadvantage to companies because they are at risk of employing an under qualified staff through this means. With block chain, schools can post their transcripts and results online, and employers can use this means to access and verify academic qualifications before employment.

Conclusion

This technology is a budding promise for the new era of education. With blockchain, impossible concepts are gradually coming into fruition, and labor is being exchanged for quick software with better accuracy and lighting speed.

-Shruti Mehta
TE Shift 1
Computer



Technology To Create New Normal



We've looked at how people are adapting to isolation and lockdown, and the physical and mental needs that are arising as a result of Covid 19 Crisis. As long as the world has not found a cure for Covid-19, we may have to adjust to a “new normal”, meaning a new way of living our lives. We have anti-retroviral drugs that can control the disease, but not cure it. Therefore, our level of adaptation and the changes we have to make in our lives is much higher. These adaptations and changes are considered our “new normal”.

The pandemic has permanently changed the nature and landscape of work, and both employees and employers are already adjusting to this new reality. Technology plays a crucial role in this new normal, which will change definitions of the workplace, both remotely and on the job site. Today, many people work remotely than ever before, and the majority of them want to continue the same. As face-to-face human interactions are likely to decrease owing to increased hygiene concerns so various tech ways are coming into picture in more profound ways. Starting from the education sector to the professional sector, the world will notice lesser movements especially in schools, colleges and other educational institutions. More emphasis on digital and online learning and project. This trend was not quite popular in the education sector but gained a greater momentum after the outbreak of the pandemic whereby all the schools, colleges and universities were closed and they completely had to shift to virtual classroom mode to keep continuing the classes that came to a halt otherwise.

To prepare for the new normal, companies have redirected investments from bigger office spaces and on-site support to new technological solutions to allow for safe, and productive work environments. Government agencies also have to adjust their focus accordingly. Considering the increased need for health-care services

during the pandemic, technology has played a critical role in the health-care sector. In addition to the information systems that are normally used in healthcare, the new applications of video conferencing for doctor appointments, contact tracing applications, and emergency messaging services were deployed during this time. The disruption caused the food industry, manufacturing, and retail industries to review and adapt their business models. Restaurants adapted delivery or take-out-only options, while other small businesses set up websites with online shopping in an attempt to continue with their businesses.

High-end technology with an uninterrupted high-speed internet connection for powering the video lectures, online projects, work-from-home etc. is now no more an option for education sector and professional sector. In this way, productivity has risen since commuting time, expenses and energy are saved and more output is gained with minimal input.

So the new normal continues to evolve. Even after the pandemic ends, the use of these technologies will expand beyond the pandemic response, and, if anything, will become even more widespread. In a nutshell, the time has come to prepare for a different world in the coming future at the earliest to guarantee our healthy survival.

-Deepali Yewale
Assistant Professor
E & TC



Low-cost breathing aids developed by Mercedes High Performance Powertrains, University College London and University College London Hospital have been shipped to hospitals around the world in a life-saving partnership.

CPAP (Continuous Positive Airway Pressure) devices were used in the first COVID-19 outbreaks to keep patients off invasive ventilators in China and Italy, but they were in short supply in the UK – and difficult to mass manufacture cheaply and quickly.

It took just 100 hours from the first meeting, between Mercedes HPP engineers, and clinicians from UCL and UCLH, to produce the first UCL-Ventura CPAP device with Mercedes' Brixworth factory repurposed to manufacture them.

Teams reverse-engineered an off-patent mechanical device, previously used in the NHS, to create a less oxygen-hungry version. This involved redesigning the entrainment port and improving flow and pressure. Mercedes set up a rig to do flow tests on filters, while simulation engineers, more used to designing inlet ports and compressors for F1 engines, improved fluid flow through the jet pump.

Applying motorsport characteristics of competitive ingenuity and adaptability helped to drive the success of this healthcare innovation; from idea to hospital testing took just 100 hours, with Medicines and Healthcare products Regulatory Agency approval gained in ten days.

The UCL-Ventura device blueprints and manufacturing information is freely available online, with over 1900 teams in 105 countries having downloaded the device. They have now been shipped to around 130 hospitals in the UK, Palestine, and Uganda, and locally manufactured in countries such as India, Pakistan, South Africa and Mexico.

- Aditya Rege
SE Instrumentation

The UCL Ventura



Smart Factory-Next Step to Industry Evolution

Smart Factory is a concept for expressing the end goal of digitization in manufacturing. It is a highly digitized system that continuously collects and shares data through connected machines, devices, and production systems. The data can then be used by self-optimizing devices or across the organization to proactively address issues, improve manufacturing processes and respond to new demands. Smart factories are an amalgamation of Artificial Intelligence, Cloud Computing and Industrial IoT.



The manufacturing practice adopted by smart factories is the most optimized application of technologies arising from the fourth industrial revolution known as Industry 4.0. The key components differentiating a smart factory from a regular industry are:

- **Industrial IoT(IIoT):** Industrial machines and devices are linked to each other by data communication systems facilitating information exchange between machines and people.
- **Sensors:** Distinct data is needed to be collected at various points to regulate said process. Sensors are attached to machines at measuring points to achieve the same.
- **Cloud Computing:** Collected data needs to be stored for comparison and analysis. Traditional methods of recording are being replaced by cloud storage. Cloud computing allows storage, processing, and sharing data with greater flexibility at a lower cost.
- **Big Data Analytics:** The accumulation of data over time can provide insights into how efficient the production process is. Spotting error patterns, running predictive quality assurance with high accuracy, delivering the right information at the right time enables shop floors to improve optimally and quickly.

Benefits of a Smart Factory

Smart factories optimize efficiency and productivity by widening scope of the capabilities of both manufacturing devices and people. By focusing on creating a continuous, efficient production process through data collection, smart factories can aid decision-making processes with stronger evidence.

By continuously improving the productivity of manufacturing processes, smart factories can lower costs, reduce downtime and minimize waste. Identifying and reducing misplaced or underused production capacities mean opportunities for growth without investing in additional monetary and/or physical resources.

Notable Smart Factories-

The Tesla Gigafactory, Berlin(Germany)

The Berlin Gigafactory, launched in 2021, will be the first of its kind, with Tesla promoting it as the most advanced high-volume electric vehicle production plant in the world. It will be used for building batteries, powertrains, and vehicles.

Schneider Electric, le Vadreuil(France)

Recognized as one of the most advanced manufacturing sites in the world, applying Fourth Industrial Revolution technologies at scale, the factory has implemented EcoStruxure™ Augmented Operator Advisor giving +2% to +7% production increase and 30% energy savings.

-Kaushal Agashe
(SE Instrumentation)



Data Science - The Fuel for Industry

In 2020, every single human created at least 1.7 MB of data per second! And it is estimated that more than 4.39 billion people all across the globe are connected to the internet so far. More than 2.5 quintillion bytes of the data is created every single day, and this number goes on accelerating. Around 1 million people login to Facebook every minute. 4,500,000 videos are streamed over Youtube every 60 seconds. 55,140 photos are shared on Instagram each minute, which increases by 12% every year. Google processes 4.5 million searches every second. Every action performed by an individual on the internet is nothing but data. And well, you might be wondering what is so special about it? All this data collected when we scroll, like, comment, post, search, is nothing more than garbage! But the surprising fact is, all the social media platforms like instagram, youtube are making millions and billions of dollars just with this garbage! And this art is known as the mighty Data Science. All the data on the internet is nothing but the fuel for the industry. Data Science is the tool that converts the garbage on the internet to gold.

By using this huge chunk of data, the recommendation systems and the ads on the internet work. Processing on this data gives an analysis of what the majority of the population is up to on the internet. Personalized ads work in the same way. The chunk of data collected from social media is massive than any other medium.

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from noisy, structured and unstructured data, and apply knowledge and actionable insights from data across a broad range of application domains. Data science

is related to data mining, machine learning and big data. In recent years, the field of data science has become very important and apparent in relation to the computer science field.

Data science uses techniques such as machine learning and artificial intelligence to extract meaningful information and to predict future patterns and behaviors.

Advances in technology, the internet, social media, and the use of technology have all increased access to big data. The field of data science is growing as technology advances and big data collection and analysis techniques become more sophisticated.

Data science continues to evolve as one of the most promising and in-demand career paths for skilled professionals. Today, successful data professionals understand that they must advance past the traditional skills of analyzing large amounts of data, data mining, and programming skills. In order to uncover useful intelligence for their organizations, data scientists must master the full spectrum of the data science life cycle and possess a level of flexibility and understanding to maximize returns at each phase of the process.

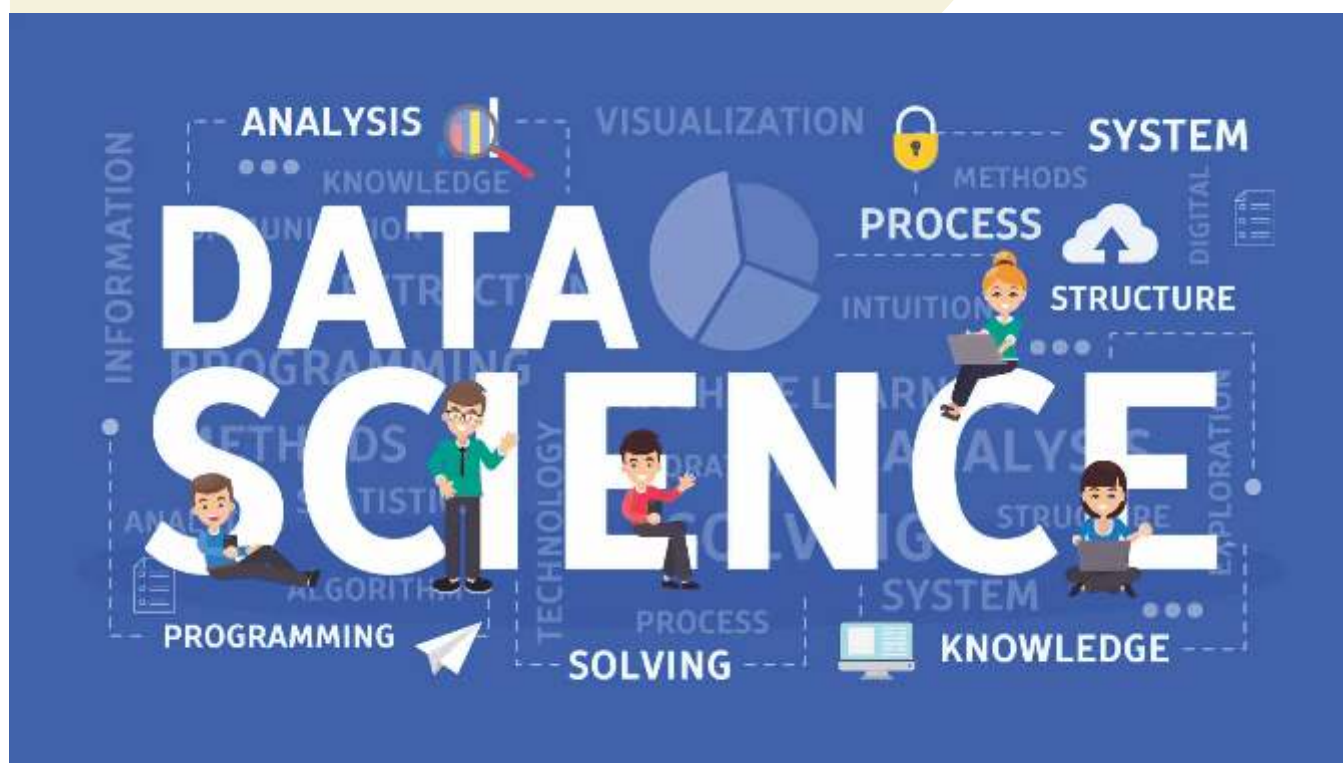
Data mining applies algorithms to the complex data set to reveal patterns that are then used to extract useful and relevant data from the set. Statistical measures or predictive analytics use this extracted data to gauge events that are likely to happen in the future based on what the data shows happened in the past.

Machine learning is an artificial intelligence tool that processes mass quantities of data that a human would be unable to process in a lifetime. Machine learning perfects the decision model presented under predictive analytics by matching the likelihood of an event happening to what actually happened at a predicted time.

Using analytics, the data analyst collects and processes the structured data from the machine learning stage using algorithms. The analyst interprets, converts, and summarizes the data into a cohesive language that the decision-making team can understand. Data science is applied to practically all contexts and, as the data scientist's role evolves, the field will expand to encompass data architecture, data engineering, and data administration.

Data scientists have changed almost every industry. In medicine, their algorithms help predict patient side effects. In sports, their models and metrics have redefined “athletic potential.” Data science applications have even tackled traffic, with route-optimization models that capture typical rush hours and weekend lulls. Companies such as Netflix mine big data to determine what products to deliver to their users. Netflix also uses algorithms to create personalized recommendations for users based on their viewing history. Data science is evolving at a rapid rate, and its applications will continue to change lives into the future. And that makes data science an immortal weapon in the world of technology!

- Prarthana Chandak
TE COMP - 1





Art Studio

Staff Editorial

New Normal means flexibility enables individuals to learn at their own pace as they prepare for their future. The pandemic has completely changed where and how learning takes place, with digital technology being at the centre of teaching and learning for the first time. This has increased interest in how technology can improve learning both inside and outside the classroom after the pandemic.



However, to achieve this we will have to ensure that every young person has access to digital technology; understand and spread best practices in using technology to improve learning, and provide teachers with support in utilizing technology in schools, colleges. The pandemic has also fundamentally shifted who is involved in education. Formal learning primarily involves students and teachers. The pandemic has fundamentally changed this learning process for not only teachers but also parents. Therefore, parents are also taking part in shaping future of their children's.

The pandemic interruption has accelerated many necessary technology changes. Certainly, it was not the root cause, but it was a catalyst. For better ecological behaviors and collaborative working many technologies are evolving. Fortunately, in the aftermath-many technologies could readily be applied, such as digital transformation, e-mobility, biotechnology and secure collaboration.

In this fast-moving digital world, education needs to be inclusive but not conformist. The United Nations declares, education should ensure inclusive, equitable quality and promote lifelong learning opportunities for all. "The coming years will be a vital period to save the planet and to achieve sustainable, inclusive human development"

Mr. Ashish Apate
Faculty Editor
(Art Section)

Student Editorial

New Normal Means a current situation, social custom, etc., that is different from what has been experienced or done before but is expected to become usual or typical.

We will not go back to normal. Normal never was. Our pre-corona existence was not normal other than we normalized greed, inequity, exhaustion, depletion, extraction, disconnection, confusion, rage, hoarding, hate and lack. We should not long to return, my friends. We are being given the opportunity to stitch a new garment. One that fits all of humanity and nature.

Things may never go back to normal. You may need to create a new normal. And that's okay.

"Normal" is never going to be static... it's elusive. The minute we think we've found it; something often comes along that shifts it. We're constantly chasing it. So maybe what we need to do is learn to be comfortable in the uncomfortable. In those moments where there is no normal, where we may struggle to find peace.



Madhavi V. Shinde
Student Editor
(Art Section)



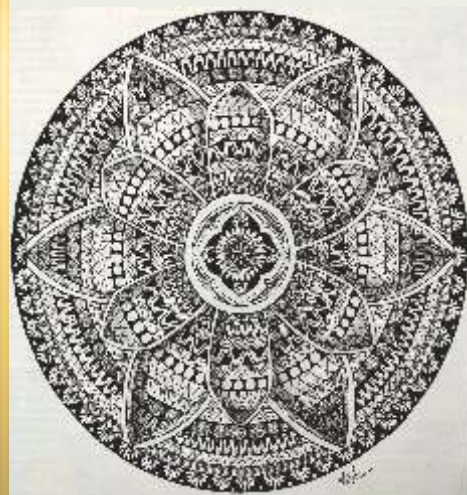
Sandhya Ahire (Assistant Professor E&TC)



*Dr. Nidhi Sharma
Assistant Professor (Engineering Sciences)*



Sandhya Ahire (Assistant Professor E&TC)



Vaishnavi Gatage, E&TC



Vaishnavi Gatage E&TC



Vaishnavi Gatage E&TC



Sandhya Ahire (Assistant Professor E&TC)



Suyog, BE Electrical



Sumit Zambre, TE Electrical



Ritik Jain, FE



Siddharth Solankure, FE



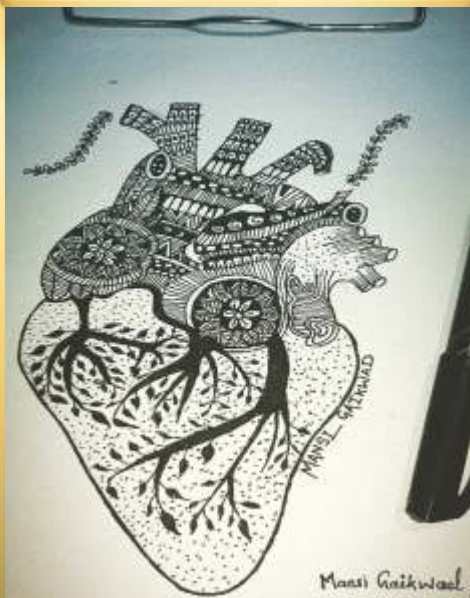
Aakanksha Patil, SE Instrumentation



Prajwal Gaikwad
Assistant Professor (Computer Engineering)



Ashish Apate
Assistant Professor (Engineering Sciences)



Mansi Gaikwad, Electrical



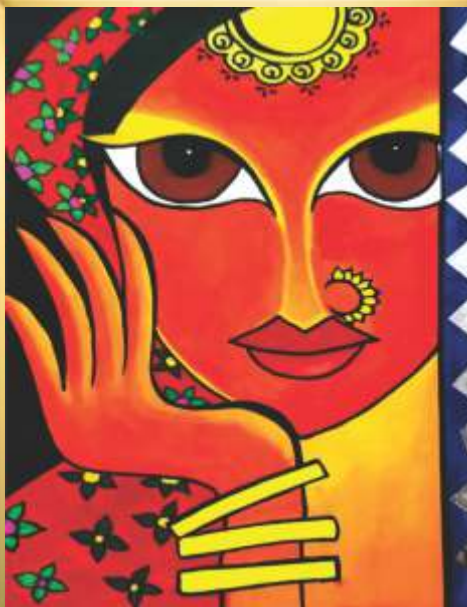
Mansi Gaikwad, Electrical



Mansi Gaikwad, Electrical



Mansi Gaikwad, Electrical



Vaishnavi Phadtare, SE Instrumentation



Dnyaneshwari Zite, FE



Vaishnavi Phadtare, SE Instrumentation



Vaishnavi Phadtare, SE Instrumentation



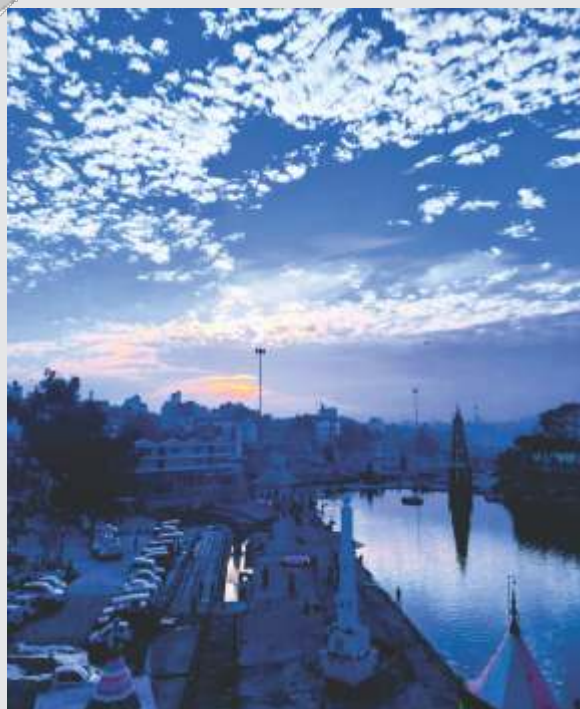
Shraddha kumar, FE



Shraddha kumar, FE



Shreyash Darade, FE



Nahush Waghmare, FE



Madhavi Shinde, FE



Adarsh Gurav, FE



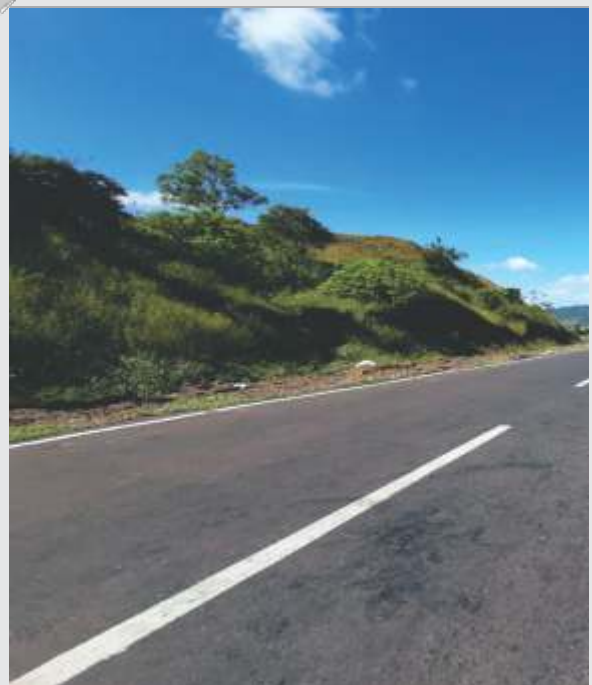
Adarsh Gurav, FE



Adarsh Gurav, FE



Ashish Apate
Assistant Professor (Engineering Science)



Ashish Apate
Assistant Professor (Engineering Science)

ALUMNUS, 2010 BATCH,
COMPUTER ENGINEERING DEPARTMENT.

Leadership & Communication Expert

**Founder of SORT |
Professional Development Services Company**



MS. RESHMA WABLE

She is an internationally certified NLP Practitioner (NFNLP, USA) and Soft skill trainer (SQA & NABET). She specializes in effective communication and enhanced time management skills thereby scaling up productivity. She has trained 100+ budding Image Consultants & Soft Skill Trainers. She coaches the CEO's and decision makers of various organizations. She has conducted Train the Trainer Programs for PAN India organizations. She has been training students from professional degree courses such as engineering for managing time and enhance the way they communicate. She is also a voice-over artist for many brands.

She is a Computer Engineer from AISSMS IOIT. She says the foundation to face challenges, make decisions and good team work were something fostered during graduation years. Principal Sir and all the teachers were just there for all of us for support and guidance. The Alumni meet gives us all an opportunity to meet our peers, seniors and juniors and build a bigger collaborative space and maintain friendships. Over the years the institute has advanced exponentially in providing students with so many platforms where they can evolve technically as groomed professional and personally to lead more meaningful life. I feel that it is this healthy approach shapes a student like a potter moulds clay.

She conceptualized and formed SORT- A company which provides professional development services such as leadership, communication, time management, sales, business and general etiquette trainings.

She comes from defence background is a hard task master. She has actively been participating in various sports since school days, was in Bharat Scouts and Guides, led the college girls' volleyball team during the degree course in engineering.

She started endurance cycling in 2013 & has successfully completed various cycling expeditions in India. She did Pune to Kanyakumari cycling in December 2013, Manali to Khardung la in 2014, Somnath to Rajkot in 2017 and Leh- Pangong tso- Khardung la in 2019.

She has authored a poetry book titled 'Humblings of the Heart' in year 2014, which is available globally in hard book and e-book format.

She loves to cook, paint, write, play violin & do stargazing as and when time permits.

She has been learning and practicing pranayama and meditation since childhood and is on a mission with her gurus to teach this ancient wisdom to the seekers.

Mr. NILESH WANKHEDE

**INDUSTRY NAME :
BSNL, RTTC, CHINCHWAD PUNE**

**DESIGNATION :
Principal**

**EMAIL ADDRESS-
nilesh.wankhede@gmail.com**



Interview by-

Mrs. V. K. PATIL, AP E&TC Department
Mrs. H.B.Magar , AP E&TC Department

Q.-Sir we would like to hear about your journey in this Telecom field.

Ans-Yes. After completing my graduation, I straight away went to Mumbai and started finding a job in the telecom field itself. After having various interview processes with various companies, I got selected by the bank of America. So there were only two branches in India at that time. And initially, I thought, what will I be doing? A telecom engineer, what will be doing in the banking industry? So initially I thought, okay, let's see what the systems are. But the bank of America is having one of the best telephone equipment in the banking industry. So I learned a lot over there and I started maintaining a telecom switch. A digital switch was there then their computer network was spanning on three floors of Indian Express towers in Nariman Point, Mumbai and I was maintaining that network, a cabling network plus the Lease line network, and international Lease line network. So wonderful experience was there to get at that time. And I worked there for two and a half years later on I got chances to shift to another bank, but I decided to prepare for government jobs. Maybe my father also was in the Department of Telecom, so probably from childhood

itself, I was dreaming of a government job probably in the Telecom field itself. So I started preparing for UPSC and eventually got selected in BSNL.

I joined as a JTO in BSNL. I preferred this industry because there are a lot of things to learn technically as well as you have a chance to roam around BTS antennas, transmission networks, and whatever is required at that time. That was very much fun basically. 2G was starting in BSNL at that time in around 2001, I started my journey from that network, eventually learned about optical communication and the transmission network. The most technical field in the telecom world is RF engineering and tuning the network practically is a difficult task. Apart from maintaining the network, doing technical installations, and commissioning, you have to deal with a lot of people public also since it is a Telecom service industry. So those fields were also required. After working for six and a half years in the mobile field, I was transferred to the broadband section of the manufacturer section. The high-speed Internet connectivity was provided first by BSNL with a 2 Mbps connection at that time in 2005 it was like a used thing at that time. So again the equipment installation and

customer interface I was handling for two districts. That was again a great experience. Yes, but from handling the equipment you must handle your customers also. After all this, I was interviewed for the training sector and working here principal for this training center.

Q. Such a wonderful journey. Sir, We would like to hear from you what abilities or personal qualities do you believe contribute most to your success in this field?

ANS-As I said earlier, this is the telecom service industry. so it requires specific skills to handle customers. BSNL working with different verticals such as mobile telephone industry or landline telephones, broadband communications, various services in satellite communication, and various enterprise business services are also there. So apart from technical knowledge in all these fields of telecommunication, customer handling is the most important. Customers may be retail customers or enterprise customers. We need to follow up with them with some kind of SLS service level agreement. So those soft skills are required.

Q. Sir, students should opt for the government sector or not, and what advice you will give to E&TC students that are reluctant to do a job in the core domain and interested in the IT sector.

Ans-Yes, I think government jobs are always popular, but the competition and current status in India's private sector are booming like anything, especially in telecom. I would suggest that initially, everyone should go for the private sector. For me, there was job security, so-called job security in government jobs. But I have my friends in various private organizations. We normally talk about this thing and I would ask or suggest students join the private telecom sector industry, gain basic experience first, and then try giant companies.

Q. What are the skillsets that are very important in this field?

There are some important branches of the telecom world such as -digital switching systems, digital transmission systems, optical fiber communication, broadband communication, and mobile communication. To work here technical skills are very much important also while doing engineering itself, students can join various skill development-related courses apart from technical skills. Soft skills like customer handling are very important to be in telecom.

Q. Sir, do you have any advice for someone interested in this field or job?

Okay, As I mentioned, there are seven branches of the telecom field. So every branch is providing numerous opportunities while doing their education itself, students can opt for various courses, internship opportunities in the private sector or government sector so that some kind of experience, hands-on experience they can get and later on they can join any basic telecom company. now, Internet service providers are everywhere. They can join any small company just to gain experience, an initial experience like how the links are established and how customers are being handled, etc. So that is my advice to the new entrance that they should look for how to manage telecom systems. Now and then new generation software is coming, so be updated.

Q. What do you see as the main challenges the telecom industry facing as a global industry as well as a local industry?

Ans-The challenge in the telecom industry currently is security i.e. information security. Maybe it starts from link security and all telecom policy itself. We have three components of telecom policy that is establishing the digital communication infrastructure. First, everything is being converted to digital communication second the


telecommunication reach, means those areas are to be targeted where telecom services are not available. The third thing is security. Security means we have to ensure the sovereignty, safety, and security of whoever is a user of telecom services in the digital telecom domain. So challenges related to all these things up there. So, these things are happening in India. Some companies also have successfully tested 5G services over a 4G network. Although a soft switch was installed and services were tested successfully. But actual rollout can be done only after allotment of spectrum. Probably by the first quarter of 2022 the spectrum will be allotted and mostly from the next financial year we will see 5G being rolled out. As compared to others if you are talking about the global status of telecommunication, some countries have installed and started their 5G services. But yes, India is not far behind. There is a great growth aspect related to 5G technology and this will be providing the best job opportunities in India. Probably the highest number of opportunities will be in India as far as jobs are concerned and telecom industry jobs are concerned, these opportunities will not be direct with the big organizations. So maybe vendors of the big organizations, big folks, will be a deciding factor for the growth of the economy.

Q. What are the different courses BSNL offers to students.

Ans-BSNL offers 4-month, 6 Month, 2 weeks, 4week vocational courses which help students to understand BSNL networks. We have visited, hands-on so that students get practical knowledge. We train them on fiber optics communication, Computer networks, Communication system, how to handle calls, how data centers look like. etc.

Q. Sir, what advice you can give us to bridge the industry-academic gap?

Ans- Students should start visiting the telecom industry from the second year first semester itself so that when they come to last year they will get proper insight and when they apply for a job this knowledge will be helpful for them. Academic knowledge is also very important for a strong foundation only thing to remember is to pair theoretical knowledge with hands-on, Industrial visits, short-term training, an internship in the industry itself.



Thank you very much sir for giving such cutting-edge knowledge to our students. It will be helpful for our students and it will be useful for bridging the gaps for academia and industry. Students have to get in touch with the industry starting from the second year, that is our major takeaway from this interview.

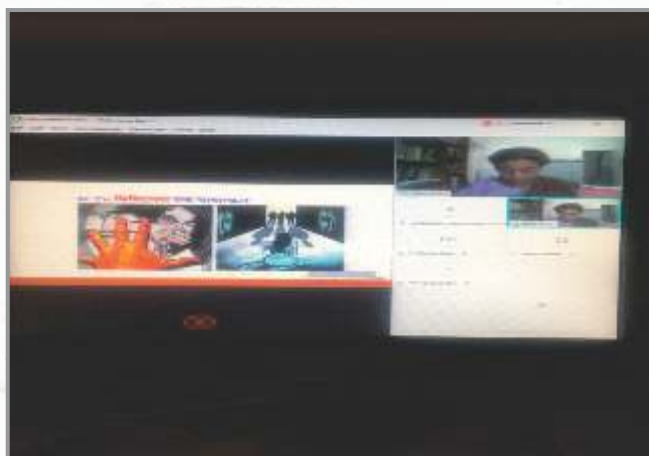
Student Welfare Organization 20-21



Integrity Pledge: 24/10/2020



Sadbhavana Day:20/08/2020



Gender Equality Webinar :06/07/2020



Webinar by SPPU :08/08/2020



Teachers Day: 05/09/2020



Constitution Day: 26/11/2020

Student Welfare Organization 20-21



National Youth Day: 12/01/2021



Netaji Subhashchandra Bose Jayanti: 23/01/2021



Road Safety Program: 17/02/2021



Road Safety Program: 17/02/2021



Shivjayanti Celebration: 19/02/2021

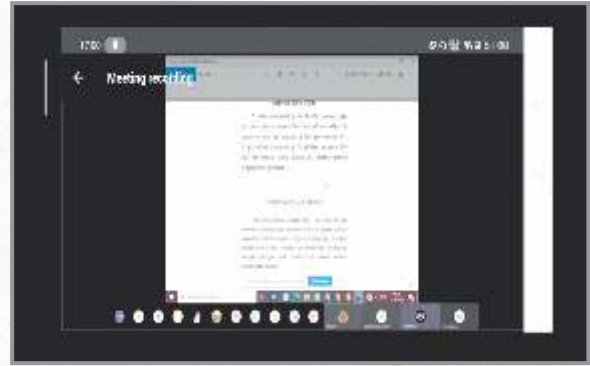


"Catch the Rain": 16/04/2021

National Service Scheme Year 20-21



Tree Plantation Activity at Home -27/06/2020



Sadbhavana day Pledge by students-21/08/2020



NSS Day Quiz conducted on 24/09/2020 by Mr. S. R. Kokane & Mr. C. K. Bhange



Mahatma Gandhi Jayanti-02/10/2020



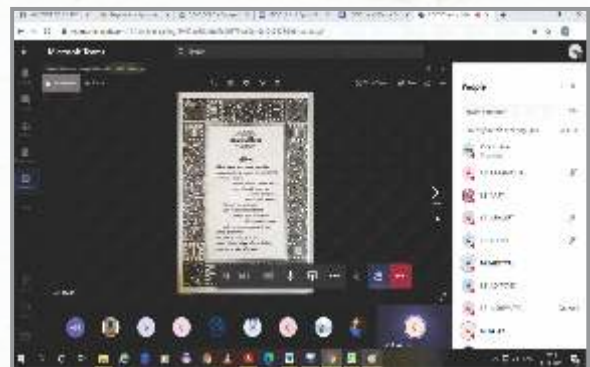
Hand Wash Day 15/10/2020



Integrity Day Pledge Certificate 28/10/2020



Unity day Pledge taken by Students on MS Team.2nd November 2020



Constitution Day Celebration on MS Team 26th November 2020

National Service Scheme Year 20-21



Savitribai Phule Jayanti-03/01/2021



Veermata Jijau & Swami Vivekananda Jayanti 12/01/2021



Covid Awareness Report -14/01/2021



Financial Literacy -18/01/2021



Republic Day Report -26/01/2021



Polio Campaign -30/01/2021



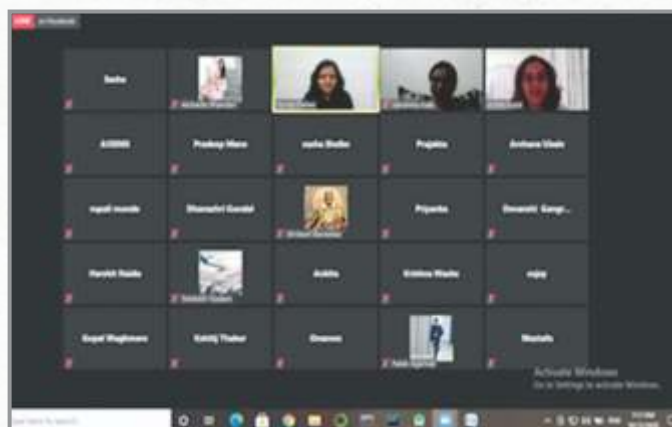
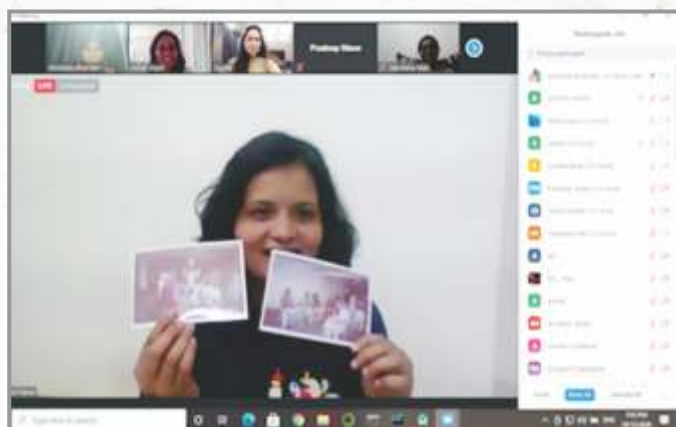
Road Safety Awareness Program -17/02/2021



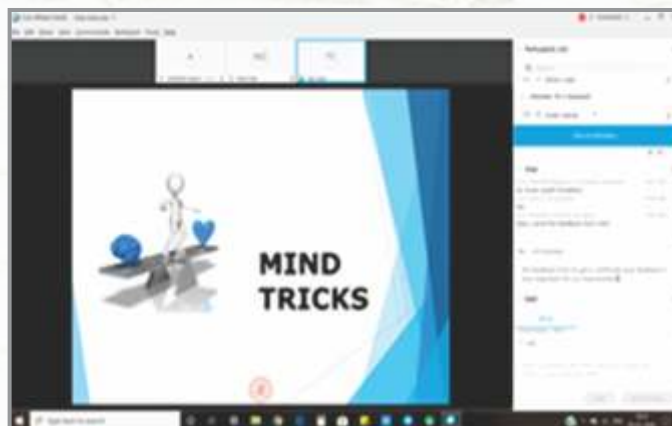
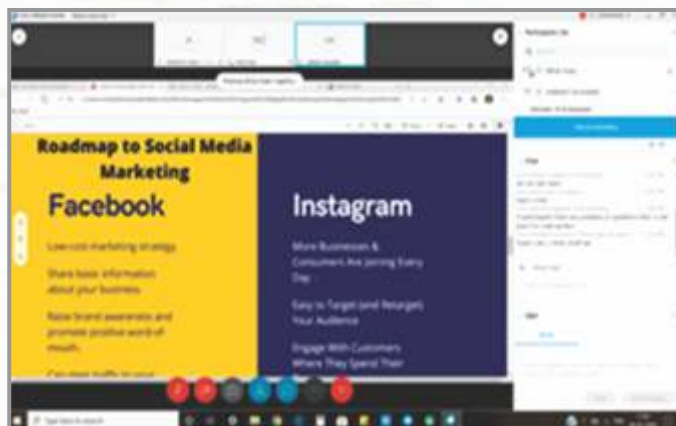
Shivaji Maharaj Jayanti -19/02/2021

Alumni Activities 20-21

Topic : “Coffee and Conversation with Alumni” in association with Alumni cell and CSI Students chapter.
Date(s) : 18/12/2020
Alumni Name : Ms. Sonali Patwe, CEO, Perseverance system, 2007 batch, Computer
Organized by : Minal Zope **Venue** : Online



Topic : “Alumni –Connect Webinar Series” Duration in days : 6 days
Date(s) : 03/07/2020 to 08/07/2020
Alumni Names : Mr. Akshay Dumare, Mr. Omkar Gurav, Mr. Parag Sanyashiv, Mr. Tejas Shah, Mr. Shreyash Pawar, Ms. Samruddhi Kulkarni, Ms. Reshma Wable, Mr. Milan Singh Thakur
Organized by : Minal Zope **Venue** : Online



Alumni Activities 20-21

Topic : “Workshop on Time management and productivity in association with IEEE student chapter and Alumni Association”

Alumni Name : Ms. Reshma Wable, alumna, 2010 batch, Computer, Founder of SORT, Communication and Productivity Coach
Organized by: Minal Zope
Date(s): 18/08/2020, 19/08/2020.
Venue : Online

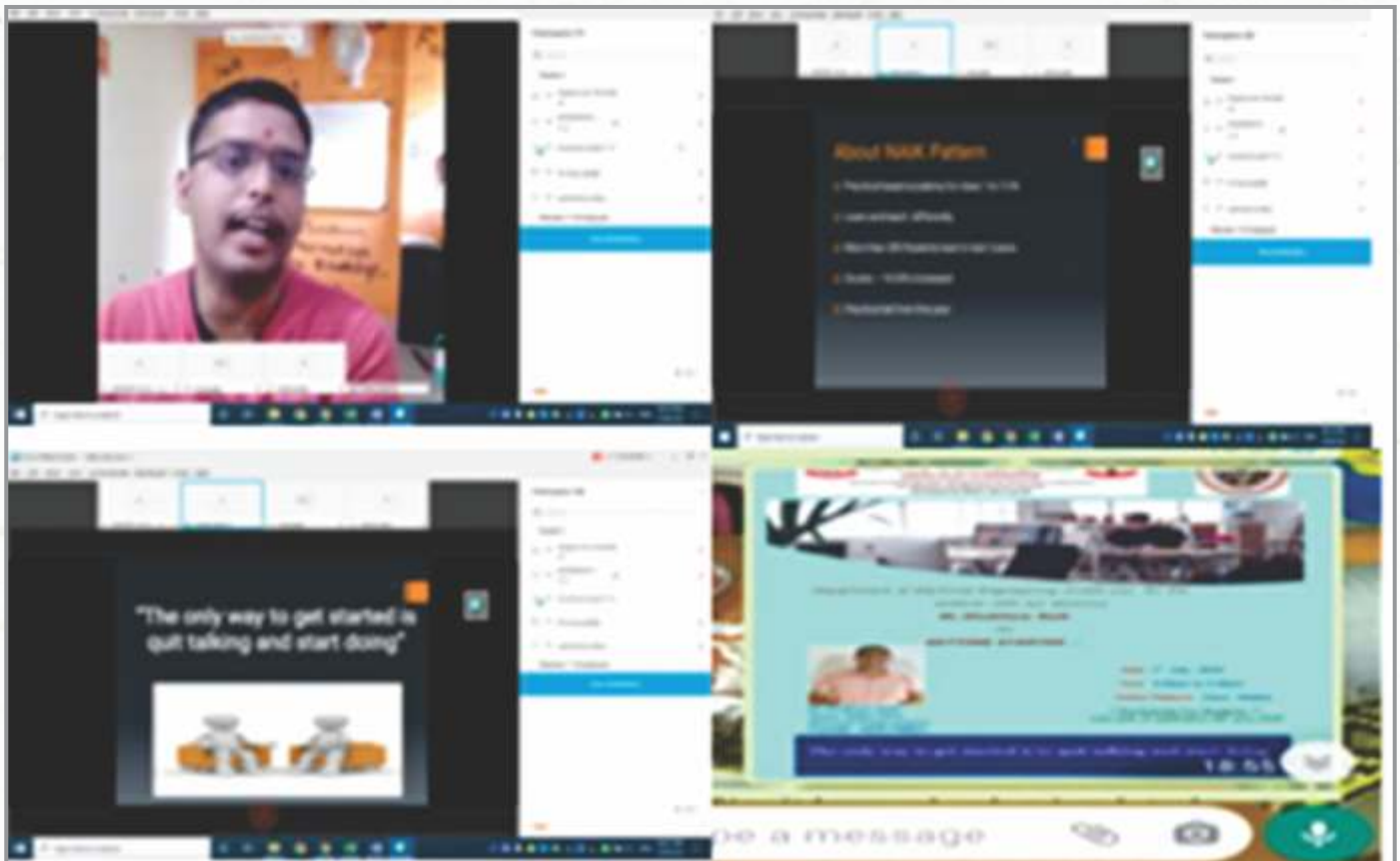


Topic : Conducted online webinar on “Getting Started” in association with Alumni cell.

Date(s) : 01/07/2020, Alumni Name: Mr. Shubham Naik, 2017 Batch, Electrical Department

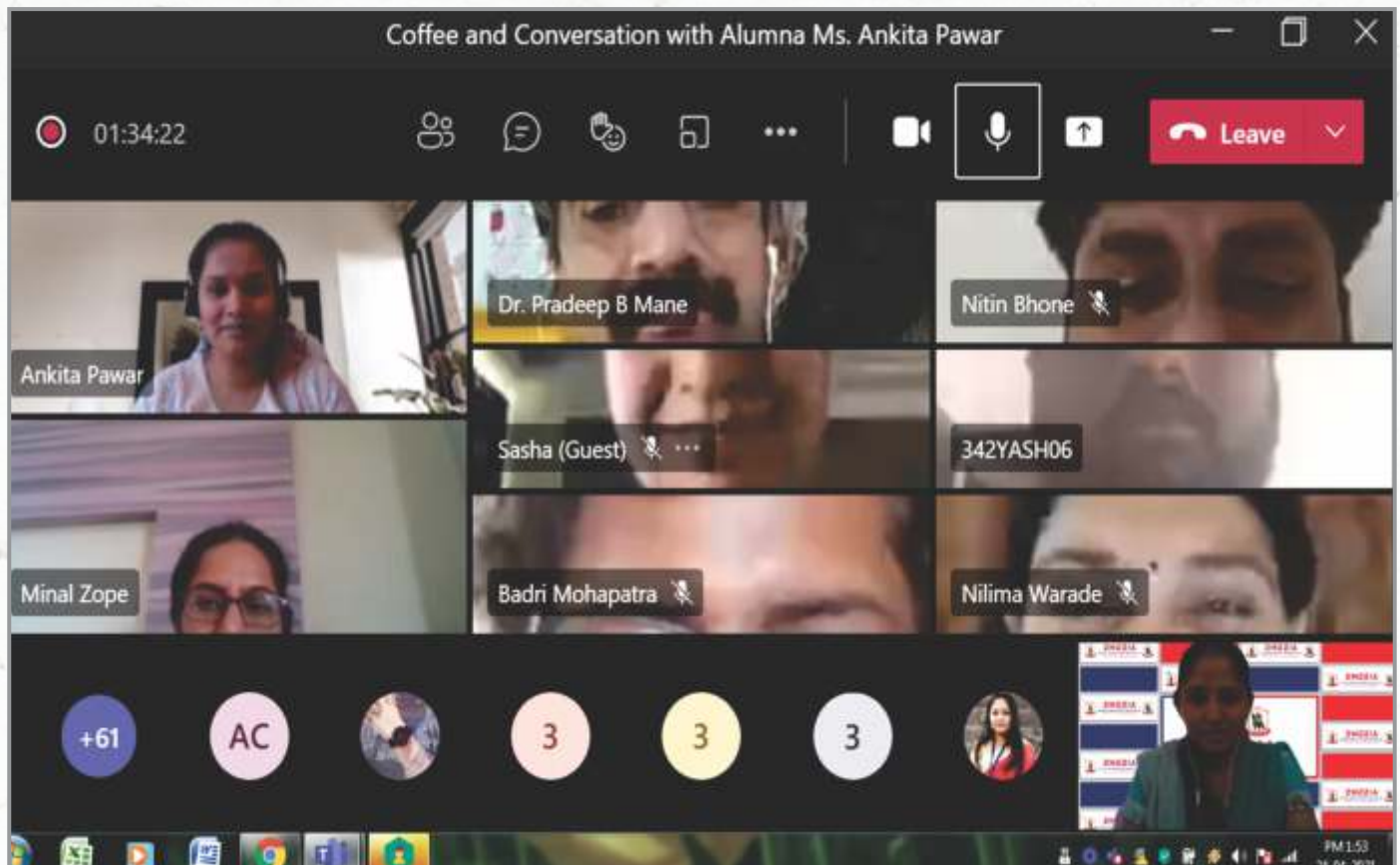
Organized by : Mrs. Sujata Powniker

Venue : Online



Alumni Activities 20-21

Topic : “Coffee and Conversation with Alumni” in association with Alumni cell.
Date(s) : 24/04/2021, Alumni Name : Ms. Ankita Pawar(2015 Batch) Assistant Manager at Michelin
Organized by : Mrs.Archana Ubale
Venue : Online



Topic : “Coffee and Conversation with Alumni” in association with Alumni cell.
Date(s) : 19/05/2021
Alumni Name : Miss. Krutika Kharde, Jr. scada engineer at sintag technology,
 Miss. Shrutika Kharde, trainee electrical engineer at Vanderlande.2019
Batch, Instrumentation,Organized by: Dr. Badri Narayan Mohapatra, **Venue** : Online



Department of Instrumentation Engineering

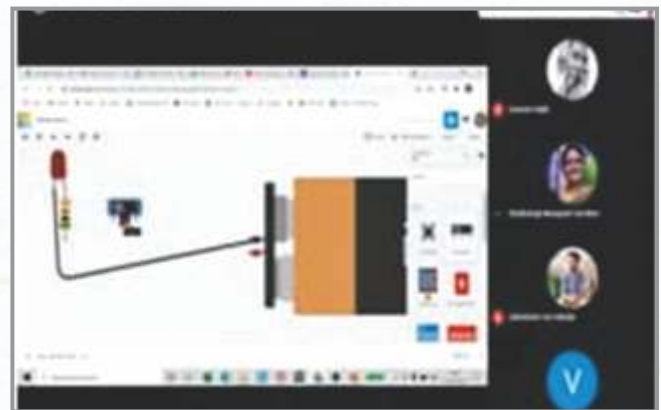
“DeltaV Distributed Control System (DCS)” offline Workshop



Students are working under supervision of Mr. S. R. Kale



Certificate distribution of the workshop by Dr. P. B. Mane (Principal) in presence of Dr. D. R. Shende (HOD)



Expert Lecture : Project Based Learning Skills ” on dated 10/3/2021 by Mrs. Shubhangi Verulkar , K. C. CEMSR, Thane



Virtual Visit : In Association with IEEE student Section Industrial Virtual Visit at Inker Robotic Solutions Pvt Ltd. organized by Miss D. L. Rathod, and Mr. S. R. Kale-25/02/2021.

Department of Instrumentation Engineering



Webinar: Webinar on "Scope of Instrumentation in Embedded & Semiconductor Industry" was conducted by Mr. Deepak Ukey, Software Design Engineer, Samsung Semiconductor India, R & D Bangalore, on 22/03/2021 in association with ISA Student section, AISSMS's IOIT.



Webinar : In Association with IEEE student Section Expert lecture on "Introduction to LabVIEW" conducted by Ms. D. L. Rathod, and organized by Dr. Mrs. V. V. Kale on date 17/03/2021



Webinar : Webinar on "Robotics and Machine learning: Projects and job opportunities" by Mr. Venkatesh Bhamidipati, Head of Technology, Senso Vision Systems, Bengaluru on 24th February 2021 in association with ISA Student section, AISSMS's IOIT.

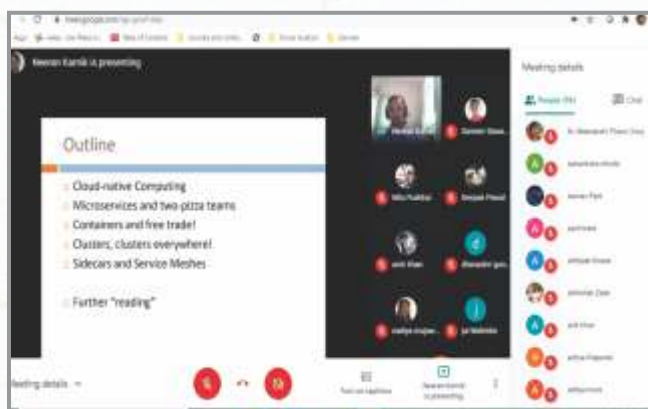
Department of Information Technology



MoU signed between IT department and Industry



Inauguration of IGNITER 2020



Expert Lecture

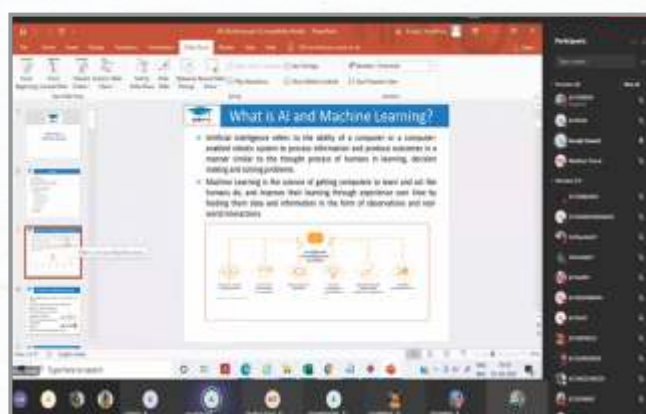
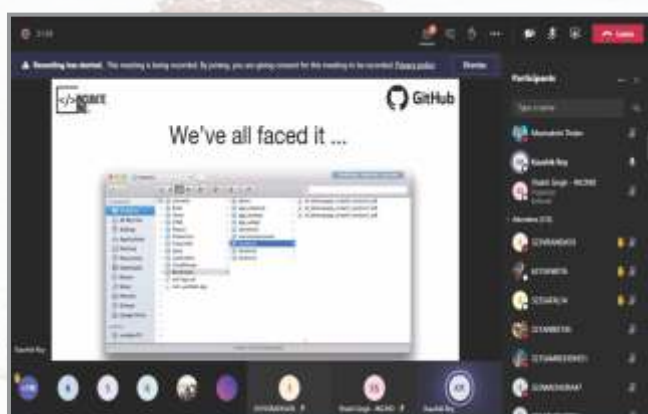


Industrial Visit

Department of Information Technology



Social Work by students



Workshop under ACM student chapter



Kavi Samelen



Shiv Jyanti celebration

Department of Computer Engineering



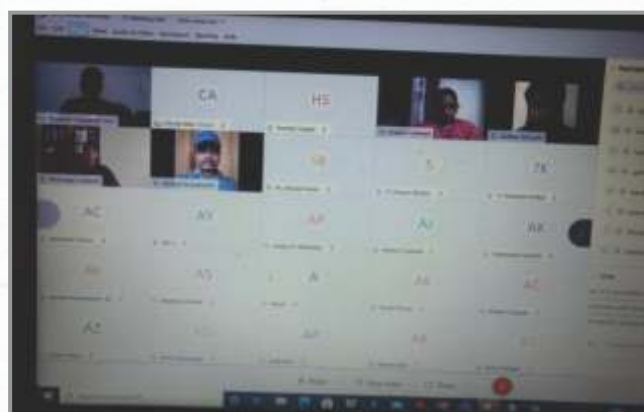
Vodafone University Engagement Program-One week certification Workshop on Linux and Data Analytics
Date: 11th Feb 2021



Workshop on "Yoga and Meditation for Life" conducted by resource person Mr. Girish Joshi, Ms. Bhagyashree Hottagimath and Ms. Priyanka Bunde, organized by Minal Zope. Date: 11th and 12th Feb 2021



webinar on "Latest cyber security algorithms in IT industries" by resource Person Mr. Amol Aher from SecMyIT Pvt Ltd, Pune. Date: 10th Feb 2021



Webinar on "Career Counselling in Civil Services" in association with Computer Society of India by Mr. Ajinkya Suryawanshi, Deputy Chief Executive Officer Group A MPSC 2019. And Mr. Padamkar Gaikwad, Deputy Collector Group A MPSC 2019 Date: 16th Sept 2020



Students of Computer Department won 1st prize in Hackathon 2020



Students of Computer Department won 2nd prize in Abhikalp 2020

Department of Computer Engineering



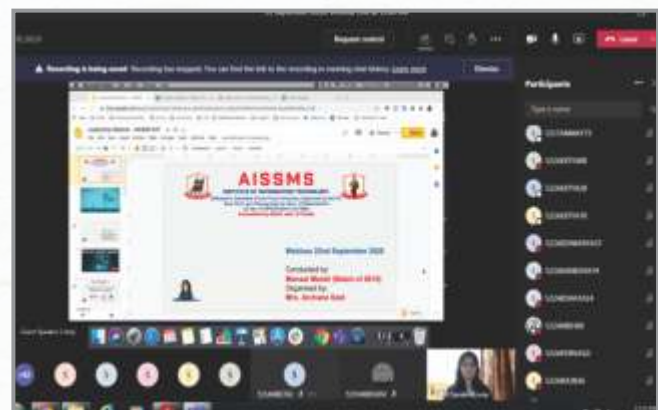
Workshop on "Data Science Honors Course" by Sonali Patwe Tushar Kute, MITU Skillologies Pune
Date: 3rd March 2021



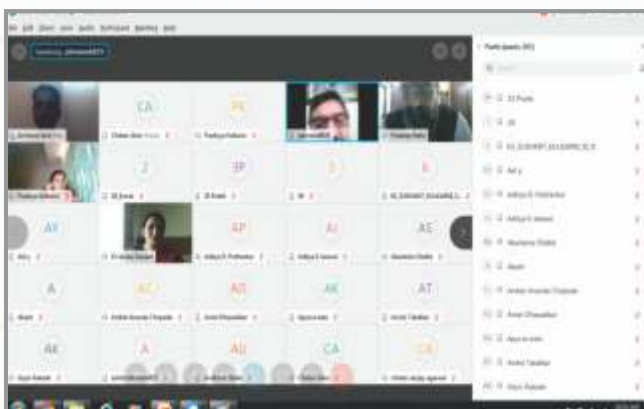
Workshop on "Data Statistics and Computational Intelligence Techniques using Python" Tushar Kute, MITU Skillologies Pune
Date: 5th to 16th Oct 2020



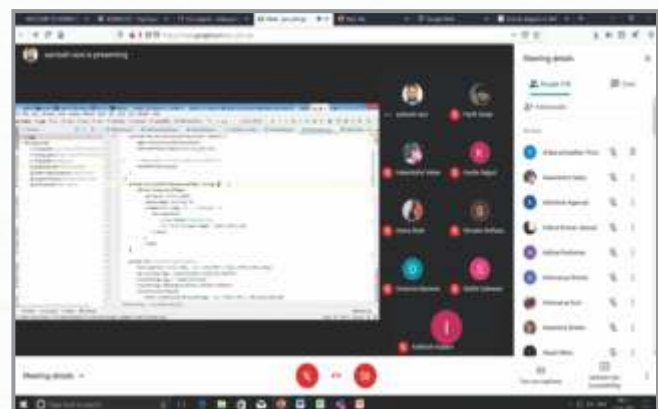
Webinar on "Case Study :ETL and Data Warehouse Design" by Mrs. Shailaja Bhadaonkar, IBM India Pvt.Ltd
Date: 26th Sept 2020



Webinar on "Leadership Skills" by Ms. Manasi Mantri
Date: 22nd Sept. 2020

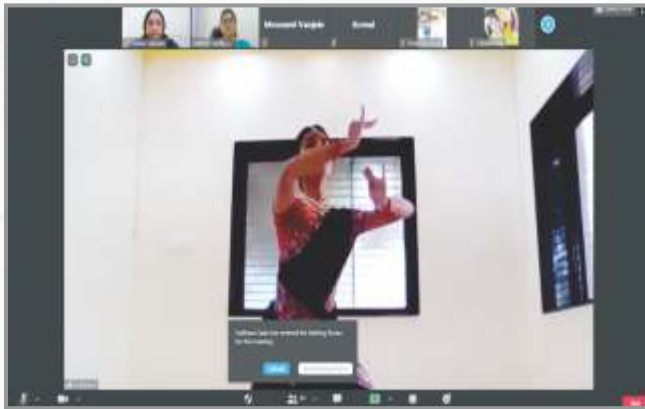


Webinar on "Computer Society of India (CSI) Membership: Activities and Benefits" by Mr Pradeep Rathi : Regional Vice-President on Computer society of India's National Executive Committee. And Ms. Pradnya Kulkarni: Chairman, CSI Pune Chapter
Date: 10th Oct 2020



workshop on "Web Application Development using PHP, Mysql with Shared hosting " conducted by Santosh Raut, Accenture Pune
Dates: 15th feb ,17th Feb and 16th March 2021

Department of E & TC



Adishakti Event Date-12/09/2020 Organized by-Department of Electronics & Telecommunication & IETE



Webinar Speaker- Dr.Rajesh Borade Date-30/06/20



ENTC signed MOU with Ethnus Consultancy services Pvt Ltd Bangalore.



Topic-Applications of DSP Speaker-Mr. Ashish Shinde Date-07/08/2020



Virtual Industrial Visit Place-IMATA Bangalore Date-20/10/2020

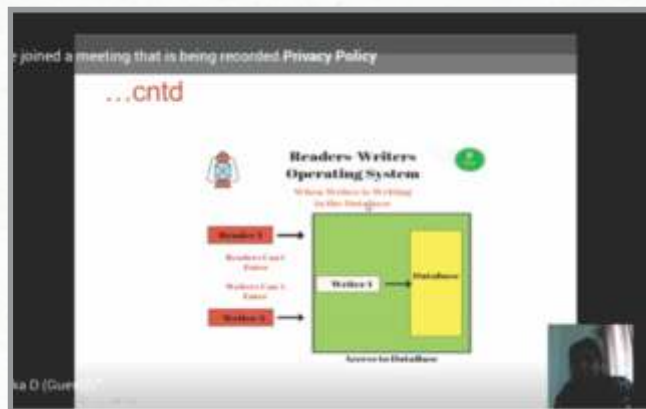


Online Faculty Development Program Topic- Computational Intelligence on cyber security in association with Logixcode security and IETE Pune.
Date- 26/10/2020 - 02/11/2020

Department of E & TC



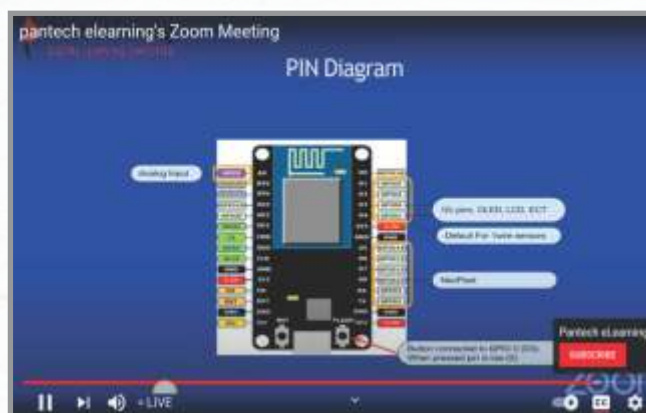
Dr.V.K. Bairagi receiving SPPU-Best Innovative Teaching Award-2020-21



Guest Lecture on "Deadlock Prevention in OS" by Priyanka Devsarkar organized by M.R.Wanjre & Sweta Patil for students of TE E & TC on 22/04/2021



One month Internship on Industry 4.0 by Gustovalley Innovations LLP. from 03/03/2021 to 03/04/2021



A National level online Workshop on "Internet of Things using ESP 8266" conducted by Pantech eLearning on 27/01/2021 to 28/01/21 -coordinated by Mrs. Varsha Patil



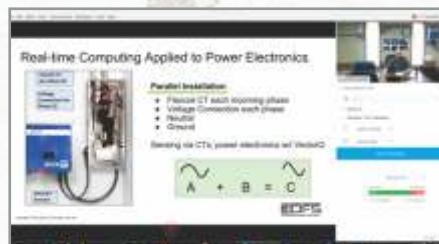
Visit of PCOE IEEE students and staff to the IEEE affordable Lab on 23/02/2021. LtoR-Dr M P Sardey (HOD E&Tc Department), Meera Thorat (PCOE Staff), Dr Aspana Shiralkar (HOD Electrical Department), Varsha Patil (IEEE agriculture Lab in charge)



Visit of Agriculture Exhibition "KRUSHIK" to Baramati with 14 staff members of E & TC Department on 22/01/2021.

Department of Electrical Engineering

Webinars By International Speakers



Webinar on “Improving efficiency and Power Quality using Software Defined Electricity” dated 02/06/2020 by Chris Doerfler Cofounder, 3DFS Software-Defined Electricity, USA

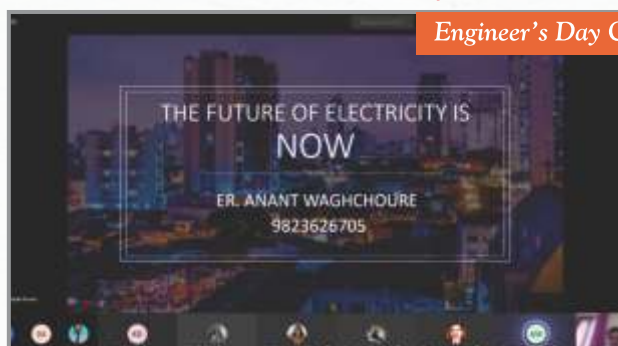


Webinar “Priorities for Power Quality Research in the Integrated Grid” dated 06/08/2020 by Mark McGranaghan Vice President, Innovation, Electric Power Research Institute (EPRI) Palo Alto, CA, USA



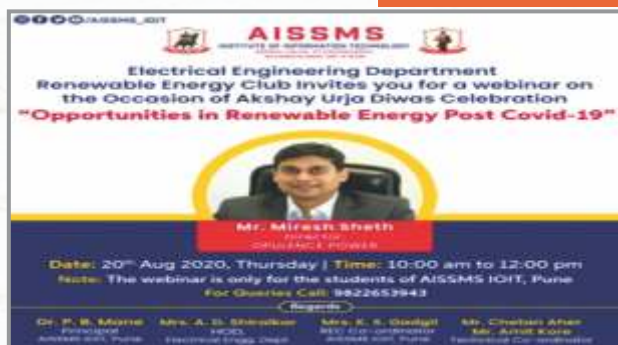
Webinar “Power Quality Demonstrations” dated 14/09/2020 by Dan Carnovale ,Manager - Power Systems Experience Center Eaton Corporation, Pittsburgh, USA

Engineer's Day Celebration – 15/09/2020



Expert talk by ErAnantWaghchoure ,Megger India Ltd , on The Future of Electricity is NOW

AkshayUrjaDiwas Celebration – 20/08/2020



Expert talk by Mr. Miresh Sheth, Director, Opulence Power on Opportunities in Renewable Energy Post COVID 19

Women Empowerment Program “SAKHI” by Student's Chapter of Institution of Engineers IE(I) on 22/10/2020



Chat with Dr, Maithilee Gadgil , MBBS. DNB – Obstetrics & gynecology

Department of Electrical Engineering

Industry Institute Interaction

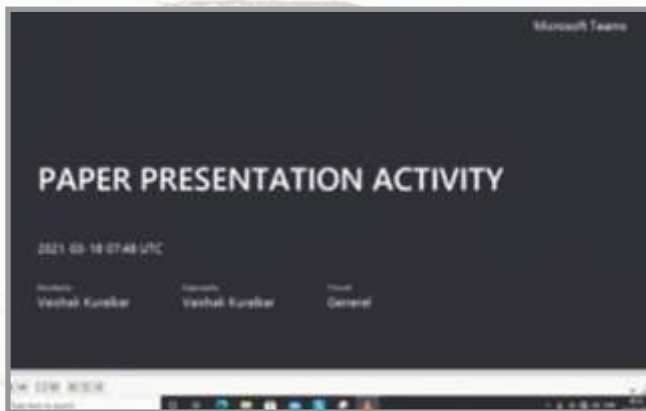


Industrial Visit to Ramelex



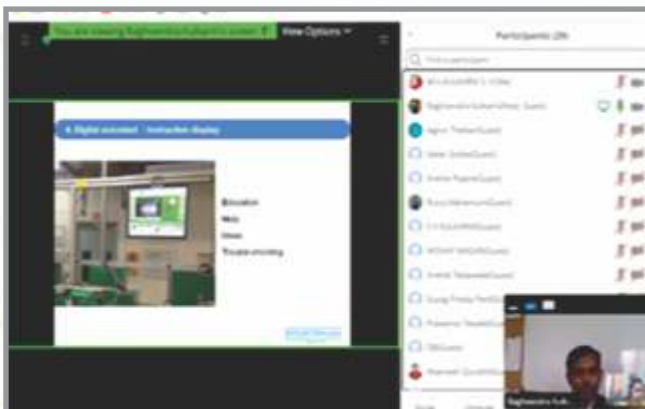
MOU with pqExcel Solutions LLP

IE (I) Activity



Paper Presentation

IEEE Activities



Webinar by Raghvendra Kulkarni, SENSORMAN- Dipani Sensorman Devices Pvt Ltd

EESA Activities



Expert talk on Project based Learning by Mr. Kiran Belle) for Half yearly report

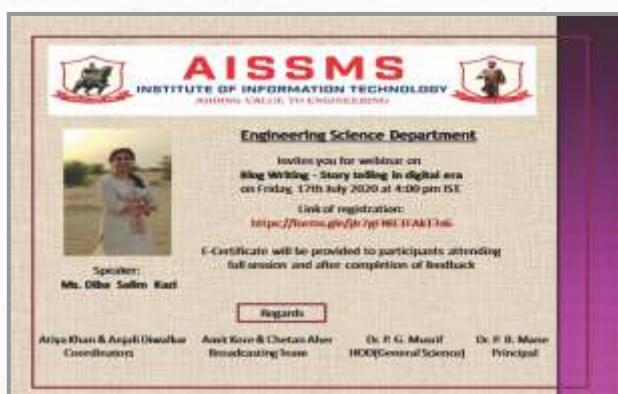
Department of Engineering Science



Webinar on “Steps Towards Sound & Healthy Sleep”, 2nd July 2020.



Webinar on “Stress management”, 30th August 2020



Webinar on “Blog Writing – Story Telling in Digital Era”, 17th July 2020



Five days FDP on “Amplifying Proficiency in Advanced



Dr. S. G. Dhande addressing students & staff member, 5th September 2020.



Civil Engineering”, 27th to 31st August 2020.

Department of Engineering Science



Webinar on “Engineers for a self-reliant India”, 15th September 2020.



Webinar Series – Frontiers Chemistry, 3rd to 7th Nov 2020.



Fifteen Days Internship Program for students on “CNC Programming”, 29th September to 10th October 2020.



FE Induction Program, 3rd February 2021.



Industrial visit at “Tata incubation, Innovation & Invention centre”, S. M. Joshi college campus Hadpsar Pune, 16th March 2021.



Virtual Industrial visit at “Rohit foam LLP”, 26th March 2021.

Department of Electrical Engineering

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Komal Desale



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Akshada Shelar

Aman Kumar
Sinha

Anubhav Chaudhary



Ashitosh Gaikwad



Ashwini Rokade



Deep Patadia



Priyansh Jain



Ganesh Shinde



Gauri Sangale



Hitesh Patil



Samen Bendale



Neelam Gajbhiye



Mehul Ingale



Mohit Pawar



Murtuza



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NandawaleShubham
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Datta Supekar



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Guruprasad Tupe



Harshit Pandey



Janhavi Dhope



Janhavi Deoghare



Kakshi Dongare



Kaushal Parmar



Ketaki Upare



Mayuri Thorat



Megha Patil



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Pratik Nath



Pratiksha Munot



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Ajinkya Jagind



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Akanksha Sonawane



Akshay Bansode



Alister Fernades



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Atal Deshkumh



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Gaurav Jaisinghani



Gauravi Joshi



Gayatri Bhosale



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Jagruti Tatiya



Kajal Patil



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Nalband



Mrunali Gorde



Mrunmay Pathe



Muskan Shaikh



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Nidhi Shah



Nikhil Tagad



Nishigandha Chavan



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Paras Patil



Puja Kasture



Prachi Pingle



Prajakta Gore



Pranjal Kumavat



Prashant Parde



Prathamesh Mohite



Pratik Hopal



Pratik Patil



Pratiksha More



Pritam Bagad



Richa Sirwani



Rishab Bhat



Ritesh Choudhary



Riya Makhija



Rohit Kharche



Rohit Thombare



Rucha Khartadkar



Rupam Patil

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CLASS OF 2021



PRINT MEDIA

लोकमत

आकांक्षा आपल्या शक्यता आहेत;
त्यांना उंच ठेवा: डॉ. रघुनाथ माशेलकर

हलेकमल नुज गेटवर्क
पुनः। तयतम ध्येय आनि आ
ठेक आमविकासपुन नवनि
कशी सावती जास सकेत, इति
मेडियन मवले आ
“आय” हे इन्वेस्टशन म
नवनिर्मितीसाठी असले प
आणि तामाठी अ
नवनिर्मितीसंदर्भीत आवडी
कलसवला हवे, असे मत डॉ.प
मोहनराव यांनी व्यक्त केले।

[illegible]

ध्येय आणि आकांक्षांना उंच ठेवा : डॉ. माशेलकर

आपकी प्रतियोगिता के लिए शुभकामनाएं।

। पुणे : वसिष्ठजी

[illegible][illegible]

कालेन्द्रजी तथा बाला जीवि अत्यन्त हीन
लोक जहाँ रहे, जहाँ बाल जीवि
समस्त ही. गुरुजी कीलकर लोको
आका केले.

विषयसूची: भाग-२+३, विषयसूचीगत
अनुसंधान अनुसंधानाधीन अधिनियम
आवेदन के भी अर्थात्, अधिनियम
तदनुसार ही अधिनियम अनुसार हल

मिडिल डिग्री, एज्युकेशनल
अनलोजीजटीवे प्रान्स डॉ. पी. वी.
बने, डॉ. जलदित चौधरी, डॉ. मे.
राय, टी.वडन सोलरज एडिटर

આચાર્યશ્રી વિશ્વમયજીને બહુ સારું
હોયે શરતે હશે.
આચાર્યશ્રીને પ્રામદીયક ન
મનપ્રાપ્તિનાર હાં, કોઈક નિયમનાર

[illegible]

પ્રાણે, ભુ મિતી ને સેવન દોરે, તા
મિતી યાવર યાવરિય જોગ મિત્ર,
અપદંડિયે મુને વિદ્યારામે અખચ

॥ वेदीं पञ्चवेदाङ्गस्य ऋषिर्गणेशः
वेङ्कटेशः कालीकेशश्चैव त्रयमेव
सुप्रसन्नं त्रिमूर्तिं शशिम्बुम्बम् ॥

कैसे, शाहीबखानावाला लिखक, लिखकता करनेवाली नहीं ही। औरत पढ़ाई करानेवाली के रूप में।

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Aspirations are your possibilities; Keep them high

Dr. Raghunath Mashelkar

An International Conference on "Emerging Smart Computing and Informatics-ESCI-2021" was organized at AISSMS IOIT, Pune. This three days conference was scheduled from 05 to 07 March 2021. The inauguration was done by Dr. Raghunath Mashelkar through an online platform.

Dr. Raghunath Mashelkar during his speech asserted the magic of achieving high aspiration with assured innovation success. When the aspirations are high then the vast possibilities are open for you. He added that "I" in India must stand for "innovation" should not stand for individual or imitations in this regard we have to make a paradigm shift in our innovation strategy.



Society sent his well-wishing message for guests and participants on behalf of AISSMS society and wished for the grand success of the conference. Shri Suresh Shinde, Honorary Joint Secretary AISSMS Society, addressed the gathering by inspiring words; he said "The world is becoming smart so as we in terms of education and enlighten opportunities and through 5-A's-Ask, Advise, Assess, Assist, and Arrange. We should move toward the smartness." At the time of inauguration Honorary Joint Secretary Mr. Suresh Shinde, IEEE's Pune section president Mr. Girish Khilare, Vice-chair Dr. Jagdish Chaudhari secretary Dr. Neha Sharma, Mr. Dinanath Kulkarni were present.

through 5 A's—Ask, Advise, Assess, Assist, and Arrange. We should move toward the smartness." At the time of inauguration Honorary joint Secretary Mr. Suresh Shinde, IEEE's Pune section president Mr. Girish Khilare, Vice-chair Dr. Jagdish Chaudhari secretary Dr. Neha Sharma, Mr. Dinanath Kolkar was present.

राष्ट्रीय प्रोग्रॅमिंग
स्पर्धा उत्साहात

पुणे : कोरोना पार्श्वभूमीवर विद्यार्थ्यांनी ज्ञान व कौशल्य वाढीसाठी एअरएलएसएमएस इन्स्टिट्यूट ऑफ इन्फर्मेशन टेक्नॉलॉजी महाविद्यालयाने राष्ट्रीय प्रोग्रॅमिंग स्पर्धा आयोजित केली आहे. संगणक अभियंत्रितकी विभागाच्या प्रा. नेहा साठेल यांनी विद्यार्थ्यांप्रमुख डॉ. पाटील, डॉ. प्राचार्य डॉ. पी. बी. माने, यांच्या मार्गदर्शनाखाली आणि विस्डम स्प्राउट्स प्रशिक्षण व करीअर सोल्यूशन यांच्या वांनि ही स्पर्धा पार पडली. विस्डम स्प्राउट्सचे व्यवस्थापकीय संचालक स्वनील पेटकर, आयटी डेड अनुज बिडकर, सारा जोशी, विद्यार्थी प्रतिनिधी निरंजित टाकूर आदि संपाचे सहकार्य लाभले.

२,४६८ विद्यार्थ्यांचा
प्रोग्रॅमिंग स्पर्धेत सहभाग

पुणे, दि. १६ - 'एआयएसएसएमएस'च्या इन्स्टिट्यूट ऑफ इन्फॉर्मेशन टेक्नॉलॉजी महाविद्यालयात ज्ञान व कौशल्य वाढीसाठी घेतलेल्या राष्ट्रीयस्तरीय प्रोग्रॅमिंग स्पर्धेत एकूण २,४६८ विद्यार्थ्यांनी सहभाग घेतला.

कोनाच्या पार्श्वभूमीवर विद्यार्थ्यांचे ज्ञान व कौशल्य वाढीसाठी संस्थेतील संगणक अभियांत्रिकी विभागाच्या प्रा. नेहा पाटील यांनी विभागप्रमुख डॉ. सारिका झावरे, प्राचार्य डॉ. पी. बी. माने यांच्या मार्गदर्शनाखाली व विस्डम स्पाउट्स प्रशिक्षण व करिअर सोल्युशनच्या संयुक्त विद्यमाने ही राष्ट्रीयस्तरीय कॉर्डिंग स्पर्धा आयोजित केली. यात विविध २५ राज्यांतील २०० शहरांतील २३०हून अधिक शैक्षणिक संस्थेतील विद्यार्थ्यांनी सहभाग घेतला.

महिला दिनानिमित्त महिलांना
लाठी-काठी प्रशिक्षण



। पुणे : प्रतिनिधी

ऑल इंडिया श्री शिवाजी
मेमोरिअल सोसायटीच्या इन्स्टिट्यूट
ऑफ इन्वॉर्मेशन टेक्नॉलॉजी
महाविद्यालयामध्ये जागतिक
महिला दिनानिमित्त सर्व महिला
सहकाऱ्यांना स्वसंरक्षणाचे धडे
मिळवले, या उद्देशाने जिमखाना
विभागाच्या वतीने लाठी-काठी
प्रशिक्षणाचे आयोजन करण्यात
आले. या कार्यक्रमाचे उद्घाटन
डॉ. प्राचार्य प्रदीप माने यांच्या
हस्ते झाले. या वेळी जिमखाना
विभागप्रमुख प्रा. दीपाली मोरे,
आय.क्यू.ए.सी. प्रमुख मीसमी
खेजळे, विद्युत विभागाच्या प्रमुख
डॉ. अश्विनी शिराळकर, माहिती

तंत्रज्ञान विभागप्रमुख डॉ. मीनाक्षी
बेलोर आदी उपस्थित होते.

डॉ. मोने म्हणजे, महिलांवरील अत्याचारांच्या घटनांमध्ये वाढ झालेली असताना अशा प्रकारच्या उपक्रमांमुळे महिला सहकाऱ्यांचे मनोबल वाढेल, असे नमूद करत महिलांनी सक्षम होत समाजातील वाईट प्रवृत्तींचा नाश करण्यास तयार व्हावे, असे आवाहन केले.

शाहू लक्ष्मी कला क्रीडा
अकादमीच्या प्रा. अनुराधा एडके
यांनी महाविद्यालयाचे विशेष
कौतुक केले. प्रास्ताविक डॉ. निर्धा
शर्मा यांनी केले. डॉ. प्रदीप माने
यांच्या मार्गदर्शनाखाली हा उपक्रम
आयोजित केला.

PRINT MEDIA



ए.आय.एस.एस.एम.एस.आय.ओ.आय.टी. महाविद्यालय, पुणे



ए.आय.एस.एस.एम.एस.आय.ओ.आय.टी. महाविद्यालय, पुणे

डॉ. पी. बी. माने यांना उत्कृष्ट प्राचार्य पुरस्कार

पुणे, ता. ११ : सावित्रीबाई फुले पुणे विद्यापीठाचा तंत्रज्ञान विभागातील व्यावसायिक अभ्यासक्रम गटात उत्कृष्ट प्राचार्य पुरस्कार ऑल इंडिया श्री शिवाजी मेमोरियल सोसायटीच्या 'आयओआयटी' महाविद्यालयाचे प्राचार्य डॉ. पी. बी. माने यांना देण्यात आला. तसेच नाविन्यपूर्ण शैक्षणिक कामगिरी पुरस्कार प्राध्यापक डॉ. विनायक के. बैरागी यांना देण्यात आला. कुलगुरू डॉ. नितीन करमळकर यांच्या हस्ते या पुरस्कारांचे वितरण करण्यात आले. या वेळी डॉ. रवींद्र कोल्हे, डॉ. एन. एस. उमराणी, डॉ. प्रफुल्ल पवार उपस्थित होते. संस्थेचे सचिव मालोजीराजे छत्रपती, मानद सहसचिव सुरेश शिंदे, अजय पाटील, विश्वास पाटील, भगवानराव साळुंखे यांनी दोघांचेही अभिनंदन केले.

रविवार दि. ३१/०१/२०२१

डॉ. व्ही. के. बैरागी यांना अभिनव अध्यापन पुरस्कार



संगमनेर (प्रतिनिधी) सावित्रीबाई फुले पुणे विद्यापीठाकडून नियोजन व विकास विभागातर्फे गुणवत्ता सुधार योजने अंतर्गत देण्यात येणारा शैक्षणिक वर्ष - २०२०-२१ साठीचा ग्रामीण विभागातील व्यावसायिक अभ्यासक्रमातील सर्वोत्कृष्ट अभिनव अध्यापन पुरस्कार डॉ. व्ही. के. बैरागी यांना

घोषित झाला आहे. विद्यापीठाच्या वर्धापनदिनी शानदार कार्यक्रमात हा पुरस्कार विविध मान्यवरांच्या हस्ते प्रदान करण्यात येणार आहे.

विद्यार्थ्यांना शिकविताना नेहमीच वेगवेगळे प्रयोग करून विद्यार्थ्यांच्या मनावर त्यांनी आपले अधिराज्य गाजविले आहे. त्यांच्या अशाच नाविन्यपूर्ण उपक्रमांची दखल विद्यापीठ प्रशासनाने घेऊन त्यांना हा पुरस्कार जाहीर केला आहे. त्यांना मिळालेल्या या पुरस्काराबद्दल त्यांचे सर्वत्र कौतुक होत आहे. दैनिक युवावार्ता परिचाराच्यावतीने डॉ. व्ही. के. बैरागी यांनी पुढील वाटचालीस शुभेच्छा.

[illegible]



Somnath Dhonde, chairman

always do everything possible

For the residents of Vedanta, Wakad, combating the pandemic is something that had its roots in a bigger scale thing as many people as within. Somnath Dhonde, chairman, says, "We were first in Pune PMDC to set up isolation centre inside a premises of the society so as people who need to be quarantined or isolated still benefit from it. We do the provision of 20 beds and oxygen facility. I had converted a 2-1 BHK flat and clubhouse to isolation centre."

Dhonde says, "The work is what was working in the isolation centre with Covid-19 positive patients were looked with all the necessary equipment that are needed at the hospital." Dhonde adds that they had partnered with a grocery store to put up a stall in the society premises.

To take sanitisation matters into their own hands, Dhonde says that they bought a sanitiser spray to sanitise the premises of the society. "We had our own staff who would equip a PPE kit and sanitise the common areas like lifts and kitchen twice every day," Dhonde concludes.

Amir Munir



The society had their own staff sanitising the premises daily

[illegible]

-Sakai-26/04/21-Page1

Yash Gamade / M, E AND TC / ASSISTANT
INSTITUTE OF INFORMATION TECHNOLOGY

3rd IEEE International Conference on Emerging Smart Computing and Informatics 2021 (ESCI) Report**“Aspirations are your possibilities; Keep them high” - Dr. Raghunath Mashelkar.**

Inauguration of ESCI-21: Lamp lightning by Shri Suresh Shinde, Honorary Joint Secretary AISSM Society

ESCI-2021 is the platform where academics and industry researchers present their latest algorithms, models and technologies and explore new trends and ideas on smart computing and informatics. The aim of this conference is to provide an allied platform for emerging trends in smart computing, networking, communication, signal and image processing, cyber security and IoT. The key intention is to provide an opportunity for the global participants to share their ideas and experiences in person with their peers expected to join from different parts of the world. In addition to this, the gathering will help the delegates to establish research environment as well as to find the international linkages for future collaboration in their career path. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment.

The inauguration was done by Dr. Raghunath Mashelkar through an online platform. Dr. Raghunath Mashelkar during his speech asserted the magic of achieving high aspiration with assured innovation success. When the aspirations are high then the vast possibilities are open for you. He added that-“I” in India must stand for “innovation” should not stand for individual or imitations in this regard we have to make a paradigm shift in our innovation strategy.

According to him, successive pole vaulting can be achieved through ‘Assured total innovation framework’ Any innovation you do see that should be affordable, scalable, sustainable, universal, rapid, distinctive, if you find

one or two criteria missing then we bound to fail over a period of time.” said he.

He congratulated AISSMS IOIT for organizing such a wonderful conference through the online platform and grabbing opportunities in the adversity of the current situation and wished the best for it.

Shri Malojiraje Chhatrapati, Secretary AISSM Society sent his well-wishing message for guests and participants on behalf of AISSMS society and wished for the grand success of the conference.

Shri Suresh Shinde, Honorary Joint Secretary AISSM Society, addressed the gathering by inspiring words; he said “The world is becoming smart so as we in terms of education and grabbing opportunities and through 5 A’s - Ask, Advise, Assess, Assist, and Arrange. We should move toward the smartness.”

Dr. P.B. Mane Principal of AISSMS IOIT highlighted the reasons for organizing the conference and threw light on the proceedings of the conference he said that upcoming engineers should take the benefit of such conferences to encourage knowledge sharing and be enlightened about innovative ideas. Extending the thought of the Assured framework of Dr. Mashelkar on behalf of all teachers he promised to bring quality education through innovation.

IEEE’s Pune section president Mr. Girish Khilari briefed the gathering by highlighting the need of raising the bar of quality and standards in higher education by focusing on important keywords like the benefit of humanity, improving global condition. Enhance public understanding.

At the time of inauguration Honorary joint Secretary Mr. Suresh Shinde, IEEE’s Pune section president Mr. Girish Khilari, Vice-chair Dr. Jagdish Chaudhari secretary Dr. Neha Sharma, Mr. Dinanath Kolkar was present. This conference aimed to provide an allied platform to emerging trends in smart computing, networking, communication, automation, IoT signal, and image processing and also to provide an opportunity to global participants to share their ideas and experiences. Dr. Suresh Lamar anchored the function while Principal Dr. P.B. Mane presented the vote of thanks.



Felicitations of Dr. Raghunath Mashelkar

L to R: Dr.P.B. Mane (General Chair IEEE ICESCI-2021), Dr. Raghunath Mashelkar(Chief Guest,ESCI-21),
Shri Suresh Shinde, Honorary Joint Secretary AISSMS, Dr. Suresh Limkar (Organizing Chair IEEE ICESCI-2021)

वार्षिक अहवाल २०२०-२१

एआयएसएसएमएस आयओआयटी महाविद्यालय

२०२०-२१ शैक्षणिक वर्षात महाविद्यालयाने ३री आय.इ.इ.इ आंतरराष्ट्रीय परिषद 'इमर्जिंग स्मार्ट कम्प्युटिंग अँड इंफॉर्मॅटिक्स-ईएससीआय २०२१' यशस्वीपणे आयोजित करून एक महत्त्वपूर्ण टप्पा गाठला. परिषदेला एकूण ७०८ पेपर्स प्राप्त झाले होते, ज्यामधून सादरीकरणासाठी १५४ पेपर स्वीकारण्यात आले. परिषदेचे उदघाटन ख्यातनाम संशोधक डॉ. रघुनाथ माशेलकर यांनी ऑनलाइन व्यासपीठाच्या माध्यमातून केले. सावित्रीबाई फुले पुणे विद्यापीठाच्या शैक्षणिक वर्ष २०२०-२१ च्या 'युनिव्हर्सिटी फाऊंडेशन डे अवॉर्ड' शहरी क्षेत्रांतर्गत प्राचार्य डॉ. प्रदीप माने यांना 'बेस्ट प्रिन्सिपल (प्रोफेशनल कोर्सेस)' म्हणून सन्मानित करण्यात आले तसेच 'बेस्ट इनोव्हेटिव्ह टीचिंग अवॉर्ड' (प्रोफेशनल कोर्सेस) म्हणून ईअँड टीसी विभागाचे प्राध्यापक डॉ. व्ही. के. बैरागी यांना पुरस्कृत करण्यात आले. एएमसीएटी-२१ (एस्पायरिंग माईंड कॉम्प्युटर अझाप्टिव्ह टेस्ट) परीक्षेतील अंतिम वर्षाच्या विद्यार्थ्यांच्या कामगिरीच्या आधारे एएमसीएटीमध्ये उत्कृष्ट कामगिरी करणाऱ्या भारतातील पहिल्या १०% महाविद्यालयांमध्ये आयओआयटी महाविद्यालयाला 'राष्ट्रीय रोजगार पुरस्कार - २०२१' देखील मिळाला. उद्योग संलग्न तंत्रज्ञान संस्था २०२० च्या एआयसीटीई-सीआयआय (अखिल भारतीय तंत्रशिक्षण परिषद - भारतीय उद्योग परिसंघ) सर्वेक्षणानुसार संस्थेला 'गोल्ड कॅटेगरी - २०२०' अंतर्गत गटबद्ध केले गेले.

'वीक मॅगझीन रँकिंग-२०२०' 'पश्चिम विभाग अभियांत्रिकी महाविद्यालय' गटाच्या सर्वेक्षणात, महाविद्यालय १९ व्या आणि अखिल भारतीय खाजगी अभियांत्रिकी महाविद्यालयाच्या गटात १०३ व्या क्रमांकावर आहे. टाइम्स अभियांत्रिकी सर्वेक्षण २०२० मध्येही महाविद्यालयाने खाजगी संस्थेत ९३ वा आणि अखिल भारतीय संस्थांमध्ये १०४ क्रमांकाचे स्थान मिळवले आहे. 'इंडिया टुडे - २०२०' क्रमवारीत महाविद्यालय अखिल भारतीय संस्थांमध्ये १८८ व्या क्रमांकावर आहे.

क्षितिज ठाकूर (तृतीय वर्ष संगणक अभियांत्रिकी), यश साळोखे (तृतीय वर्ष संगणक अभियांत्रिकी), श्रेयस दडगे (तृतीय वर्ष इंस्ट्रुमेंटेशन इंजीनियरिंग), उर्विका नेमा (तृतीय वर्ष ई अँड टीसी अभियांत्रिकी), आदित्य थोरात (तृतीय वर्ष संगणक अभियांत्रिकी), सृष्टी पाटिल (तृतीय वर्ष ई आणि टीसी अभियांत्रिकी), ताहर पत्रावाला (तृतीय वर्षाच्या संगणक अभियांत्रिकी) संघाने एसजी 'स्मार्ट व्हेइकल मॅनेजमेंट सिस्टम' ह्या प्रकल्पासाठी हॅकाथॉनचा पहिला टप्पा यशस्वीरित्या पूर्ण करून, प्रथम १०० क्रमांकात स्थान पटकावत- १,००,००० / रुपये अनुदान प्राप्त केले. सदर स्पर्धा दूरसंचार विभाग, एनआयटीआय(नीती) आयोग व भारत सरकार द्वारा समर्थित होती. सावित्रीबाई फुले पुणे विद्यापीठाच्या डीआयसी (डिझाइन इनोव्हेशन सेंटर) आयोजित 'डिझाइन स्टार्ट अप कॉम्पिटीशन - २०२०' मध्ये ही सदर प्रकल्पाला द्वितीय क्रमांकाचे बक्षीस प्राप्त झाले आहे. भारत सरकार व विमानतळ प्राधिकरण मंत्रालयाने समस्येच्या निवेदनावर आयोजित 'स्मार्ट इंडिया हॅकाथॉन-२०२०-सॉफ्टवेअर एडिशन ग्रँड फिनाले' मध्ये संगणक विभागाच्या विद्यार्थी संघाला 'बेपत्ता

वार्षिक अहवाल २०२०-२१

एआयएसएसएमएस आयओआयटी महाविद्यालय

विमानाच्या शेवटच्या ज्ञात स्थानावरून शोध क्षेत्राची गणना आणि प्लॉटिंग करून शोध आणि बचाव करण्यासाठी 'सॉफ्टवेअर टूल विकसित करणे' ह्या निवेदनांतर्गत प्रकल्पासाठी प्रथम क्रमांकाचे रु. १,००,००० /- बक्षीस मिळाले, यामध्ये संगणक विभागाचे असोसिएट प्राध्यापक डॉ.के.एस.वाघ यांच्या मार्गदर्शनाखाली अंतिम वर्ष संगणक शाखेचे विद्यार्थी- आदित्य मानकर, अभिषेक गायकवाड, तन्मय हर्षे, रुतुराज घोडके, प्राची पिंगळे, सेजल ओसवाल हे संघात सहभागी होते.

महाविद्यालयात शैक्षणिक वर्ष २०२०-२१ मध्ये आर्टिफिशल इंटेलिजन्स आणि डेटा सायन्स या नवीन अभ्यासक्रमाचा समावेश करण्यात आला आहे. कोविडच्या संकटातही महाविद्यालयात २५०हून अधिक ऑनलाईन वेबिनार, एक्स्पर्ट लेक्चर आणि कार्यशाळांचे आयोजन करण्यात आले. महाविद्यालयाला वर्ष २०२०-२१ मध्ये विविध प्रकल्पांसाठी, प्रयोगशाळा अद्यावृत्त करण्यासाठी, राष्ट्रीय सेवा योजना (एन.एस.एस) कार्यक्रमांसाठी विविध स्रोतांकडून सुमारे रु -५३४६२५०/- चे अनुदान मिळाले आहे.

All India Shri Shivaji Memorial Society's
INSTITUTE OF INFORMATION TECHNOLOGY
ANNUAL REPORT 2020-2021

Preamble

In the academic year 2020-21, the Institution walked up a very crucial milestone by successfully organizing the 3rd International conference on 'Emerging Smart Computing & Informatics' (ESCI 2021) from 05th March 2021 to 07th March 2021. The conference received overall 708 papers from which 154 papers were accepted for presentation. Keynote talks, Technical Talks and Tutorial were conducted by well-known speakers all across the globe. The inauguration was done by eminent scientist Dr. Raghunath Mashelkar through an online platform. Dr. Pradeep Mane, Principal, Awarded as the 'BEST PRINCIPAL (Professional Courses)' and Dr. V.K. Bairagi, Professor, Department of E&TC, Awarded as the 'Best Innovative Teaching Award' (Professional Courses) from the Urban Area category under the University Foundation Day Award of Savitribai Phule Pune University for the Academic Year 2020-21. The institute also received 'National Employability Award-2021' by Aspiring mind for being amongst top 10% colleges in India that excelled in AMCAT based on performance of final year student in AMCAT-21 Exam. The institute is grouped under 'Gold category-2020' as per AICTE-CII survey of industry linked technical institute 2020. In the 'Week Magazine Ranking-2020' institute ranked 19th in a west zone engineering college survey and 103th in all India level private engineering college survey. The institute also got ranked by 'Times Engineering Survey 2020' With a ranking position 93 in private institutes and overall, 104, among all the institutes of India and ranking position 188th among all the institutes of India by 'INDIA TODAY-2020' ranking. Kshitij Thakur (Third Year Computer Engineering), Yash Salokhe (Third Year Computer Engineering), Shreyas Dadage (Third Year Instrumentation Engineering), Urvika Nema (Third Year E&TC Engineering), Aditya Thorat (Third Year Computer Engineering), Shrushti Patil (Third Year E&TC Engineering) & Taher Patrawala (Third Year Computer Engineering) successfully completed Phase-I of SG Hackathon and shortlisted in Top 100 & won the grant of Rs. 1,00,000/- for project- 'Smart Vehicle Management System' conducted by Department of Telecommunication, NITI AAYOG and Government of India. The same project was also awarded 2nd rank at 'Abhikalp Start-up Competition-2020' conducted by DIC (Design Innovation Centre) of SPPU. Computer department student team bagged first prize of Rs. 1,00,000/- in 'Smart India Hackathon 2020- Software Edition Grand Finale' Organized by Government of INDIA on Problem Statement : 'Developing a Software Tool to aid Search and Rescue by Calculating and Plotting Search Area from the Last Known Position of a Missing Aircraft' for Ministry of Airport Authority of India. Team Members were BE Computer students- Aditya Mankar, Abhishek Gaikwad, Tanmay Harshe, Ruturaj Ghodke, Prachi Pingle, Sejal Oswal under the mentorship of Mentor of Dr. K. S. Wagh, Associate Prof. in computer department.

Infrastructure Development:

• **Up gradation of Laboratories:**

Sr. No.	Name of the Department	Amount (Rs.)
1.	Instrumentation	16,05,000
2.	Information Technology	Nil
3.	Computer Engineering	2,85,000/-
4.	Electronics Engineering	Nil
5.	E&TC Engineering	32,450.00 /-
6.	E&TC (Affordable Agriculture lab)	80,000/- (Grant Rx from IEEE)
7.	Electrical Engineering	2,08,754/-

Academic Excellence Achieved:**a) B.E. Examination results:**

Sr. No.	Name of the Department	Result
1	Instrumentation Engineering	100%
2	Information Technology	94.54%
3	Computer Engineering	BE 1st shift-89.23% BE 2nd shift-100% Overall-94.61%
4	Electronics Engineering	92.85%
5	Electronics & Telecommunication Engineering	BE A-95.25% BE-B – 96.72% BE C- 95.12% Overall :95.69 %
6	Electrical Engineering	92.06%

Campus Placement :**• List of companies visited campus :**

Sr. No.	Name Of the Company	Engineering Branch/ Stream	Eligible Students
1	BNY Mellon	Instrumentation & Control	14
2	ATOS	Instrumentation & Control	14
3	TCS NQT	Instrumentation & Control	14
4	Cognizant	Instrumentation & Control	14
5	Microsoft	Instrumentation & Control	14
6	Vernacular.ai	Instrumentation & Control	14
7	Quest Ingenium	Instrumentation & Control	28
8	L&T Infotech	Instrumentation & Control	28
9	Paypal	Instrumentation & Control	3
10	Cisco	Instrumentation & Control	28
11	Google	Instrumentation & Control	28
12	Walkover	Instrumentation & Control	28
13	Laser & Toubro Infotech	Instrumentation & Control	4
14	Hexaware Technologies limited	Instrumentation & Control	14
15	Goldmansach	Instrumentation & Control	14
16	Virtusa Consulting	Instrumentation & Control	14
17	Morgan Stanley	Instrumentation & Control	28
18	J P Morgan Chase	Instrumentation & Control	14
19	Flextronics	Instrumentation & Control	14
20	PayPal	Instrumentation & Control	14
21	NCR Corporation Ltd.	Instrumentation & Control	14
22	Saama Technologies	Instrumentation & Control	14
23	Evosys Mastek Ltd.	Instrumentation & Control	14
24	X L Dynamics	Instrumentation & Control	28

25	Unitelworks	Instrumentation & Control	28
26	Tech Mahindra	Instrumentation & Control	14
27	Johnson Control	Instrumentation Engineering	58
28	Rayka Engineering Solutions	Instrumentation Engineering	58
29	SAP	Instrumentation Engineering	58
30	Vanderland	Instrumentation Engineering	58
31	Moglix	Instrumentation Engineering	58
32	Fever FM	Instrumentation Engineering	58
33	Needing Intern	Instrumentation Engineering	58
34	TALKD PVT LTD	Instrumentation Engineering	58
35	Wakefit	Instrumentation Engineering	14
36	e-Zest Solutions Ltd.	Instrumentation Engineering	14
37	Siemens	Instrumentation Engineering	58
38	Enzigma Software Pvt. Ltd	Instrumentation Engineering	14
39	Mobigic Technologies Pvt. Ltd.	Instrumentation Engineering	14
40	SINTEG Technologies	Instrumentation Engineering	14
41	Goldmansach	BE Computer	Comp-62,
42	Virtusa Consulting	BE Computer	Comp-62,
43	Birlasoft	BE Computer	Comp-62,
44	Juspay	BE Computer	Comp-62,
45	Google	BE Computer	Comp-62
46	Larsen & Toubro Infotech Ltd.	BE Computer	Comp-62
47	WNS	BE Computer	Comp-62,
48	SocieteGenerale	BE Computer	Comp-62,
49	Hexaware Technologies limited	BE Computer	Comp-140,
50	Morgan Stanley	BE Computer	Comp-62
51	Cisco	BE Computer	Comp-62
52	J P Morgan Chase	BE Computer	Comp-62,
53	Microsoft	BE Computer	Comp-62,
54	Walkover	BE Computer	Comp-140
55	Flextronics	BE Computer	Comp-62
56	PayPal	BE Computer	Comp-62,
57	Hewlett Packard(HP)	BE Computer	Comp-62,
58	Vernacular.ai	BE Computer	Comp-62,
59	NCR Corporation Ltd.	BE Computer	Comp-62,
60	QuestIngenium	BE Computer	Comp-140
61	Jio Platforms Limited	BE Computer	Comp-62,
62	Saama Technologies	BE Computer	Comp-62,
63	EvosysMastek Ltd.	BE Computer	Comp-62,
64	NTT Data	BE Computer	Comp-62,
65	X L Dynamics	BE Computer	Comp-140
66	Cognizant	BE Computer	Comp-62,
67	TCS	BE Computer	Comp-62,
68	BNY Mellon	BE Computer	Comp-62,
69	ATOS	BE Computer	Comp-62,
70	Bentley Systems	BE Computer	Comp-66,

71	Udchalo Up Curve Business Services	BE Computer	Comp-62,
72	Winjit Technologies	BE Computer	Comp-62,
73	Aventior	BE Computer	Comp-62,
74	Amazon	BE Computer	Comp-102, (60 %)
75	iASYS Technology Solutions Pvt. Ltd.	BE Computer	Comp-62,
76	Unitelworks	BE Computer	Comp-140
77	Tech Mahindra	BE Computer	Comp-62,
78	General Electric	BE Computer	Comp-62,
79	Hitachi Consulting Software Services	BE Computer	Comp-66,
80	Flextronics	Computer	146
81	PayPal	Computer	146
82	Hewlett Packard(HP)	Computer	146
83	Vernacular.ai	Computer	146
84	NCR Corporation Ltd.	Computer	146
85	QuestIngenium	Computer	146
86	Saama Technologies	Computer	146
87	Evosys Mastek Ltd.	Computer	146
88	X L Dynamics	Computer	146
89	BNY Mellon	Computer	146
90	Bentley Systems	Computer	146
91	Udchalo Up Curve Business Services	Computer	146
92	Coditas Solutins	Computer	146
93	Aventior	Computer	146
94	Unitelworks	Computer	146
95	General Electric	Computer	146
96	Bitwise	Computer	146
97	Webtech Developers Pvt. Ltd,	Computer	146
98	Tudip Technologies	Computer	146
99	Square Yards	Computer	146
100	eClerx	Computer	146
101	Mobigic Technologies Pvt. Ltd.	Computer	146
102	e-Zest Solutions Ltd.,	Computer	146
103	Teradata	Computer	146
104	Vighnaharta Technologies Pvt. Ltd	Computer	146
105	Pune Based Leading Software MNC	Computer	146
106	TCS NQT	Computer	146
107	Xoriant	Computer	146
108	JP Morgan Chas	Electrical	81
109	Morgan Stanley	Electrical	81
110	Goldman Sach	Electrical	81
111	Walkover	Electrical	81
112	L & T InfoTech Ltd.	Electrical	26
113	Vernacular	Electrical	81
114	Hewlett Packard(HP)	Electrical	26
115	Birlasoft	Electrical	26
116	PayPal	Electrical	26

117	Hexaware Technologies Ltd	Electrical	26
118	Virtusa	Electrical	81
119	Societe Generals	Electrical	81
120	TCS	Electrical	26
121	NTT DATA	Electrical	26
122	CAPGEMINI	Electrical	6
123	Amazon	Electrical	37
124	Neilsoft	Electrical	37
125	TCS	Electrical	37
126	Square Yards	Electrical	37
127	I Research	Electrical	44
128	Birlasoft	Electrical	44
129	L&T Infotech	Electrical	44
130	Hexaware Technologies limited	Electrical	44
131	Cognizant	Electrical	37
132	Coriolis Technologies Pvt. Ltd.	Electrical	44
133	TALKD Pvt. Ltd.	Electrical	81
134	Goldmansach	Electrical	81
135	Virtusa Consulting	Electrical	81
136	Juspay	Electrical	81
137	Google	Electrical	37
138	SocieteGenerale	Electrical	81
139	Morgan Stanley	Electrical	44
140	J P Morgan Chase	Electrical	81
141	Microsoft	Electrical	37
142	Walkover	Electrical	81
143	Flextronics	Electrical	81
144	PayPal	Electrical	44
145	Hewlett Packard(HP)	Electrical	81
146	Vernacular.ai	Electrical	81
147	NCR Corporation Ltd.	Electrical	81
148	QuestIngenium	Electrical	81
149	Saama Technologies	Electrical	81
150	Evosys Mastek Ltd.	Electrical	81
151	BNY Mellon	Electrical	81
152	Unitelworks	Electrical	81
153	eClerx	Electrical	81
154	Mobigic Technologies Pvt. Ltd.	Electrical	
155	Godrej & Boyce Mfg. Co. Ltd.	Electrical	
156	TCS NQT	Electrical	
157	Goldmansach	BE & TE All Branches	
158	Virtusa Consulting	BE All Branches	
159	Birlasoft	Computer, IT, E&TC, Electronics, Electrical	
160	Juspay	BE Computer, IT, Electronics, Electrical	
161	Google	BE All Branches	
162	Larsen & Toubro Infotech Ltd.	BE All Branches	

163	WNS	BE Computer, IT,	38
164	SocieteGenerale	BE Computer, IT, E&TC, Electrical.	38
165	Hexaware Technologies limited	Comp, IT, E&TC, Electrical, Instru	38
166	Morgan Stanley	BE All Branches	91
167	Cisco	BE All Branches	91
168	J P Morgan Chase	BE & TE All Branches	38
169	Microsoft	BE All Branches	38
170	Walkover	BE All Branches	91
171	Flextronics	BE All Branches	38
172	PayPal	BE All Branches	38
173	Hewlett Packard(HP)	BE Comp, IT, E&TC, Elex, Electrical	38
174	Vernacular.ai	BE All Branches	38
175	NCR Corporation Ltd.	BE All Branches	38
176	QuestIngenium	BE All Branches	91
177	Jio Platforms Limited	BE Computer, IT, E&TC	38
178	Saama Technologies	BE All Branches	38
179	EvosysMastek Ltd.	BE &ME All Branches	38
180	NTT Data	BE Computer, IT,	38
181	X L Dynamics	BE All Branches	91
182	Cognizant	BE All Branches	38
183	TCS	BE All Branches	38
184	BNY Mellon	BE Comp, IT, E&TC, Electrical, Instru	38
185	ATOS	BE All Branches	38
186	Bentley Systems	BE Computer, IT,	20
187	Udchalo Up Curve Business Services	BE Comp, IT, E&TC,	38
188			
189	Winjit Technologies	BE Computer, IT,	38
190	Aventior	BE Computer, IT,	38
191	Amazon	BE Computer	38
192	iASYS Technology Solutions Pvt. Ltd.	BE Comp, IT, E&TC,	38
193	Unitelworks	BE All Branches	91
194	Tech Mahindra	BE All Branches	38
195	General Electric	BE Computer, IT,	38
196	Hitachi Consulting Software Services	BE Computer, IT,	20

Sr. No.	Name of Student	Department	Company	No. of Eligible students
1	Ranveer Singh	Instrumentation & Control	TCS	33
2	Subhash Konar	Instrumentation & Control	I Research Services	33
3	Shubham Mule	Instrumentation & Control	Insight Success	33
4	Kiran Lanke	Instrumentation & Control	Johnson Control India	33
5	Somesh Thombare	Instrumentation & Control	Johnson Control India	33
6	Saurabh Khamgaonkar	Instrumentation & Control	Sap Engineers	33
7	Subhash Konar	Instrumentation & Control	Johnson Control	33
8	Saurabh Tiwade	Instrumentation & Control	Johnson Control	33

9	Thombre Shravani Sandeep	Instrumentation & Control	Amazon	33
10	Mahendra Khaire	Instrumentation & Control	Just Dial	33
11	Omkar Joshi	Instrumentation & Control	Concentrix	33
12	Pooja Birajdar	Instrumentation & Control	Concentrix	33
13	Shamal Sudam Gund	Instrumentation & Control	Thermax	33
14	Shravani Thombre	Instrumentation & Control	Thermax	33
15	Saurabh Sharad Khamgaonkar	Instrumentation & Control	Thermax	33
16	Kedar wavare	Instrumentation & Control	BYJU'S	33
17	Somnath Patil	Instrumentation & Control	Future Automation Pvt. Ltd.,	58
18	Vishal Thengal	Instrumentation & Control	FERRERO IND PVT LTD	58
19	Ojas Nikumbh	Instrumentation & Control	Swaraj News	58
20	Akanksha Wattamwar	Instrumentation & Control	Lucas TVS PVT LTD	58
21	Prajwal Zurunge	Instrumentation & Control	Insights success media and techno pvt ltd	58
22	Sarvesh Patil	Instrumentation & Control	Scope International	58
23	Abhishek Kadam	Instrumentation & Control	Genius Polymer Industries	58
24	Rutvij Mahamuni	Instrumentation & Control	Vanguard Engineers	58
25	Altamashali Qureshi	Instrumentation & Control	Amazon	58
26	Siddharth Kasabe	Instrumentation & Control	TALKD Pvt. Ltd.	58
27	Shreya Ghosalkar	Instrumentation & Control	Square Yards	58
28	Pranav Sunil Dalvi	Instrumentation & Control	Square Yards	58
29	Aditya Baradkar	Instrumentation & Control	Sap Engineers & Consultants	58
30	Vishal Jambagi	Instrumentation & Control	Ryka engineering solutions	58
31	AmolShivnathSuradkar	IT	Birlasoft	38
32	Atharva Rajesh Shewale	IT	Birlasoft	38
33	Durvesh Umesh Palkar	IT	Birlasoft	38
34	Rupam Anil Patil	IT	Birlasoft	38
35	Hrishikesh Shridhar Joshi	IT	Birlasoft	38
36	Tithi Choudhary	IT	Birlasoft	38
37	ShrinivasKendre	IT	L&T Infotech	38
38	RiyaMakhija	IT	L&T Infotech	38
39	Krishna Sonawane	IT	L&T Infotech	38
40	TithiChoudhary	IT	L&T Infotech	38
41	MrunmayPathe	IT	Jio	38
42	Tithi Choudhary	IT	NTT DATA	38
43	Pritam Bagad	IT	Winjit Technologies Pvt. Ltd	38
44	Ritesh Choudhary	IT	Winjit Technologies Pvt. Ltd.	38
45	Kadam Ajinkya	IT	Infosys	38
46	Shruti Dusane	IT	Amazon	38
47	Durvesh Palkar	IT	Cognizant	38
48	Tithi Choudhary	IT	Cognizant	38
49	Pritam Bagad	IT	Cognizant	38
50	Aditya Pawar	IT	Cognizant	38
51	Ritesh Choudhary	IT	Cognizant	38
52	Prathmesh Mohite	IT	Cognizant	38
53	Aakanksha Sonawane	IT	Nihilent Technologies	38

54	Vaishnavi Vilas More	IT	Nihilent Technologies	38
55	Ritesh Mangilal Choudhary	IT	Nihilent Technologies	38
56	Durvesh Palkar	IT	TCS	38
57	Prathmesh Mohite	IT	TCS	38
58	Pritam Bagad	IT	TCS	38
59	Ritesh Choudhary	IT	TCS	38
60	Shubham Chaudhari	IT	TCS	38
61	Siddhant Pravin Lunawat	IT	TCS	38
62	Tithi Choudhary	IT	TCS	38
63	Vaishnavi Vilas More	IT	TCS	38
64	Ajay Shyamlal Jangid	IT	TCS	38
65	Alister Fernandes	IT	TCS	38
66	Atharva Shewale	IT	TCS	38
67	Rucha Khartadkar	IT	Qualitykiosk Technologies Pvt. Ltd.	52
68	Rutuja Surdi	IT	Qualitykiosk Technologies Pvt. Ltd.	52
69	Vaishnavi Jadhav	IT	Qualitykiosk Technologies Pvt. Ltd.	52
70	Shubham Chaudhari	IT	Datametica Solutions Pvt. Ltd.	52
71	Atharva Shewale	IT	Datametica Solutions Pvt. Ltd.	52
72	Rucha Khartadkar	IT	Datametica Solutions Pvt. Ltd.	52
73	Atharva Shewale	IT	Accops Systems	38
74	Manasi Jagatap	IT	Qualitykiosk Technologies Pvt. Ltd.	52
75	Ajinkya Kadam	IT	Qualitykiosk Technologies Pvt. Ltd.	52
76	Nidhi Shah	IT	Qualitykiosk Technologies Pvt. Ltd.	52
77	Aditya Adkar	IT	Amazon	91
78	Arjun Pendharkar	IT	Amazon	91
79	Richa Sirwani	IT	Amazon	91
80	Vishwadi pIngale	IT	Amazon	91
81	Akanksha Sonawane	IT	TALKD Pvt. Ltd.	38
82	Ajinkya Kadam	IT	Bitwise	52
83	Aakanksha Sonawane	IT	Square Yards	38
84	Vaishnavi Jadhav	IT	eclerx	52
85	Richa Sirwani	IT	Xoriant	52
86	Durvesh Umesh Palkar	IT	Xoriant	52
87	Amol Shivnath Suradkar	IT	Xoriant	52
88	Aditya dattaram Dukare	Computer	birlasoft	62
89	Akash Rajesh Thakare	Computer	Birlasoft	Comp-62
90	Divya Dinesh Pathak	Computer	Birlasoft	Comp-62
91	Deep Yogesh Patadiya	Computer	Birlasoft	Comp-62
92	Vinay Hiroo Surtani	Computer	Birlasoft	Comp-62
93	Vaidehi Sudhir Patil	Computer	Birlasoft	Comp-62
94	Vivek Wagaj	Computer	Birlasoft	Comp-62
95	Yash Sanjay Shende	Computer	Birlasoft	Comp-62
96	Yash Jitendra Kasat	Computer	Birlasoft	Comp-62
97	Nikhil Ramdas Mandale	Computer	Birlasoft	Comp-62
98	Aniket Nargotra	Computer	Birlasoft	Comp-62
99	Annette Thankachan John	Computer	Birlasoft	Comp-62
100	Aaditya Mankar	Computer	L&T Infotech	Comp-62

101	Danesh Adil Pagdiwalla	Computer	L&T Infotech	Comp-62
102	Snehal Bhanudas Wadode	Computer	L&T Infotech	Comp-62
103	Sonam Sunil Zirpe	Computer	L&T Infotech	Comp-62
104	Annette John	Computer	L&T Infotech	Comp-62
105	Apurva Rahul Itkarkar	Computer	L&T Infotech	Comp-62
106	Kakshi Vilas Dongre	Computer	L&T Infotech	Comp-62
107	Vranda Gupta	Computer	Jio	Comp-62
108	Sakshi Naik	Computer	Jio	Comp-62
109	Abhishek Gaikwad	Computer	EvosysMastek Ltd.	Comp-62
110	Priyansh Jain	Computer	Hexaware Technologies Limited	Comp-62
111	Evana Mariam Thomas	Computer	NTT DATA	Comp-62
112	Annette Thankachan John	Computer	NTT DATA	Comp-62
113	Harshit Pandey	Computer	NTT DATA	Comp-62
114	Ruturaj Sushil Ghodke	Computer	NTT DATA	Comp-62
115	Akshada Shelar	Computer	Winjit Technologies Pvt. Ltd.	Comp-62
116	Sharon Raju	Computer	Winjit Technologies Pvt. Ltd.	Comp-62
117	Abhishek Gaikwad	Computer	Winjit Technologies Pvt. Ltd.	Comp-62
118	RitikaSahsani	Computer	Winjit Technologies Pvt. Ltd.	Comp-62
119	Vaishnavi Jeure	Computer	Winjit Technologies Pvt. Ltd.	146
120	Datta Supekar	Computer	Winjit Technologies Pvt. Ltd.	146
121	Sayali Patil	Computer	Winjit Technologies Pvt. Ltd.	146
122	NEHA GHOLE	Computer	Winjit Technologies Pvt. Ltd.	146
123	Sarthak Badgujar	Computer	Winjit Technologies Pvt. Ltd.	146
124	Tanmay Harshe	Computer	Winjit Technologies Pvt. Ltd.	146
125	Priyansh Jain	Computer	Winjit Technologies Pvt. Ltd.	146
126	Abhishek Gaikwad	Computer	Evosys Mastek Ltd.	146
127	Priyansh Jain	Computer	Hexaware Technologies limited	146
128	Ritu Narayani	Computer	Hexaware Technologies limited	146
129	Sarthak Badgujar	Computer	Hexaware Technologies limited	146
130	Evana Mariam Thomas	Computer	NTT DATA	146
131	Annette Thankachan John	Computer	NTT DATA	146
132	Harshit Pandey	Computer	NTT DATA	146
133	Ruturaj Sushil Ghodke	Computer	NTT DATA	146
134	Supekar Datta Rajendra	Computer	iAsys Technologies	146
135	Dimpal Pimpalshende	Computer	Cognizant	146
136	Komal Supekar	Computer	Cognizant	146
137	Prem Pawar	Computer	Cognizant	146
138	Shubham Nadhavale	Computer	Cognizant	146
139	Vaidehi Patil	Computer	Cognizant	146
140	Vranda Gupta	Computer	Cognizant	146
141	Ajit Patare	Computer	Cognizant	146
142	Shreya Sawant	Computer	Cognizant	146
143	Ruturaj Ghodke	Computer	Cognizant	146
144	Vinay Surtani	Computer	Cognizant	146
145	Sanskruti Pardeshi	Computer	Cognizant	146
146	Ritu Narayani	Computer	Cognizant	146
147	Annette John	Computer	Cognizant	146

148	Guruprasad Tupe	Computer	Cognizant	146
149	Gholap Siddhesh Rajesh	Computer	Cognizant	146
150	Evana Mariam	Computer	Cognizant	146
151	Harshit Pandey	Computer	Hitachi Consulting	146
152	Guruprasad Babasaheb Tupe	Computer	Nihilent Technologies	146
153	Ramkrishna R. Kakani	Computer	Nihilent Technologies	146
154	Kanaad Sanjay Rampurkar	Computer	Nihilent Technologies	146
155	Adinath Dattaram Dukare	Computer	TCS	146
156	Apurva Rahul Itkarkar	Computer	TCS	146
157	Datta Rajendra Supekar	Computer	TCS	146
158	Evana Mariam Thomas	Computer	TCS	146
159	Guruprasad Tupe	Computer	TCS	146
160	Harshit Pandey	Computer	TCS	146
161	Janhavi Dhope	Computer	TCS	146
162	Neha Vijay Ghole	Computer	TCS	146
163	Nikhil Mandale	Computer	TCS	146
164	Nikhil Singh	Computer	TCS	146
165	Pooja Khandelwal	Computer	TCS	146
166	Priyansh Jain	Computer	TCS	146
167	Ramkrishna Kakani	Computer	TCS	146
168	Ritika Sahsani	Computer	TCS	146
169	Ruturaj Ghodke	Computer	TCS	146
170	Sanskriti Pardeshi	Computer	TCS	146
171	Shubham Nadhavale	Computer	TCS	146
172	Shweta Rajendra Jagtap	Computer	TCS	146
173	Sonam Sunil Zirpe	Computer	TCS	146
174	SURABHI PATIL	Computer	TCS	146
175	Vaidehi Patil	Computer	TCS	146
176	Harshit Pandey	Computer	Cognizant	146
177	Vinit Shah	Computer	Cognizant	146
178	Abhishek Gaikwad	Computer	Persistent Systems	146
179	Aditya Mankar	Computer	Persistent Systems	146
180	Ruturaj Ghodke	Computer	Persistent Systems	146
181	Ajinkya Nikam	Computer	BTOSC Infotech	146
182	Shubham Dilip Dalvi	Computer	Qualitykiosk Technologies Pvt. Ltd.	146
183	Tanvi Patil	Computer	Qualitykiosk Technologies Pvt. Ltd.	146
184	GuruprasadTupe	Computer	Datametia Solutions Pvt. Ltd.	146
185	Gauri Sangale	Computer	Datametia Solutions Pvt. Ltd.	146
186	Apurva Itkarkar	Computer	Datametia Solutions Pvt. Ltd.	146
187	Surabhi Kungare	Computer	Datametia Solutions Pvt. Ltd.	146
188	Tanmay Harshe	Computer	Datametia Solutions Pvt. Ltd.	146
189	Mayuri Thorat	Computer	Datametia Solutions Pvt. Ltd.	146
190	Priyanka Gaikwad	Computer	Datametia Solutions Pvt. Ltd.	146
191	Sunny Wable	Computer	Datametia Solutions Pvt. Ltd.	146
192	Shraddha Kachare	Computer	Datametia Solutions Pvt. Ltd.	146
193	Ritika Sahsani	Computer	Datametia Solutions Pvt. Ltd.	146
194	Ajit Patare	Computer	Datametia Solutions Pvt. Ltd.	146

195	Siddharth Nilakhe	Computer	Eccentric Engine	146
196	Vivek Wagaj	Computer	Accops Systems	146
197	Nikita Gore	Computer	Qualitykiosk Technologies Pvt. Ltd.	146
198	Sunny Wable	Computer	Qualitykiosk Technologies Pvt. Ltd.	146
199	Mayuri Thorat	Computer	Qualitykiosk Technologies Pvt. Ltd.	146
200	Aditya Shinde	Computer	Qualitykiosk Technologies Pvt. Ltd.	146
201	Mehul Ingale	Computer	Qualitykiosk Technologies Pvt. Ltd.	146
202	Tanmay Harshe	Computer	Coriolis Technologies Pvt. Ltd.	146
203	Vaidehi Patil	Computer	Datametica Solutions Pvt. Ltd.	146
204	Priyansh Jain	Computer	Datametica Solutions Pvt. Ltd.	146
205	Sayali Patil	Computer	Datametica Solutions Pvt. Ltd.	146
206	Keshav Katkar	Computer	Datametica Solutions Pvt. Ltd.	146
207	Vranda Gupta	Computer	Amazon	146
208	Surabhi Kungare	Computer	Amazon	146
209	Tanvi Patil	Computer	Amazon	146
210	Sejal Oswal	Computer	Amazon	146
211	Vivek Wagaj	Computer	Wiley m three	146
212	Satyam Deshmukh	Computer	Talent Serve	146
213	Komal Daundkar	Computer	TALKD Pvt. Ltd.	146
214	Kalyani Patil	Computer	Enzigma Software Pvt. Ltd.	146
215	Rutuja Hulsure	Computer	Coditas Solutions	146
216	Sanket Gulhane	Computer	Coditas Solutions	146
217	Ramkrishna Kakani	Computer	Bitwise	146
218	Yash Shende	Computer	Square Yards	146
219	Tanvi Sachin Patil	Computer	Square Yards	146
220	Susmita Gade	Computer	Square Yards	146
221	Pratiksha ashok pandhare	Computer	Square Yards	146
222	Neha Mishra	Computer	Tudip Technologies	146
223	Shweta Rajendra Jagtap	Computer	Xoriant	146
224	Neha Sham Nilajkar	E&TC	Birlasoft	42
225	N V Roshni	E&TC	L&T Infotech	42
226	Vaibhav Sunil Pawar	E&TC	L&T Infotech	42
227	Samiksha Sarkar	E&TC	L&T Infotech	42
228	Vedashree Praveen Nilare	E&TC	L&T Infotech	42
229	Nehal Gholse	E&TC	Evosys Mastek Ltd.	42
230	Vaishnavi Anil Vajrkar	E&TC	Hexaware Technologies limited	42
231	Archana Kashid	E&TC	Amazon Development Center Pvt Ltd.	42
232	Mayuri Khedkar	E&TC	Amazon Development Center Pvt Ltd.	42
233	Pooja G. Bharati	E&TC	Astra Autolities	42
234	Prajakta Hoval	E&TC	Bharat Electronics	42
235	Atharva Pawar	E&TC	Cognizant	42
236	Aditi Khaire	E&TC	Cognizant	42
237	Soumya Bhadani	E&TC	Cognizant	42
238	Roshni Naduvile Veetil	E&TC	Cognizant	42
239	Gaurav Kolhe	E&TC	Cognizant	42
240	Vedita Kharabe	E&TC	Cognizant	42
241	Devashish Kopargaonkar	E&TC	Cognizant	42

242	Gayatri Jadhav	E&TC	Nihilent Technologies	42
243	Shradha Mungase	E&TC	Nihilent Technologies	42
244	Aditi Acharya	E&TC	TCS	42
245	Apeksha Deepak Upale	E&TC	TCS	42
246	Harshavardhan C. Sidagam	E&TC	TCS	42
247	Purva Karunakar Shetty	E&TC	TCS	42
248	Soumya Bhadani	E&TC	TCS	42
249	Sunil Mahadev Pattar	E&TC	TCS	42
250	Vaishnavi Vajirkar	E&TC	TCS	42
251	Vedita Kharabe	E&TC	TCS	42
252	Prasad Waykole	Electrical	TATA Consultancy Services	32
253	Arpit Ghate	Electrical	Amazon	81
254	SharwariPimparkar	Electrical	TATA Consultancy Services	32
255	Sushant Londhe	Electrical	Neilsoft	32
256	Shubham Khaire	Electrical	Neilsoft	32
257	SharwariPimparkar	Electrical	Neilsoft	32
258	GargeeAuti	Electrical	Square Yards	81
259	Shubham Ahire	Electrical	Square Yards	81

Activities Conducted: - (Entrepreneurship activities, Soft Skills, visits etc)

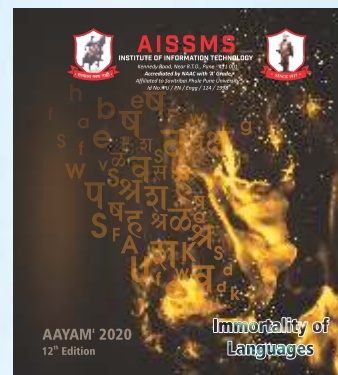
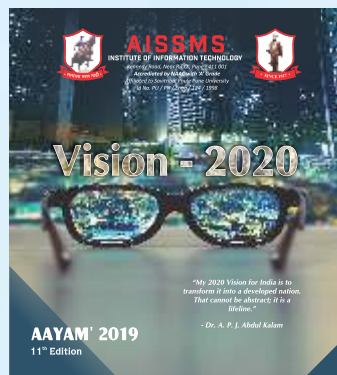
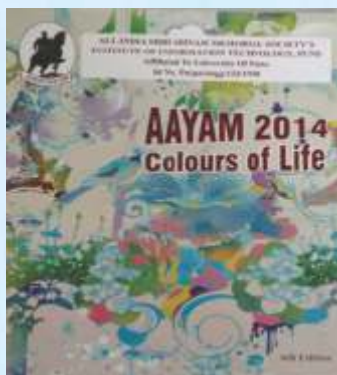
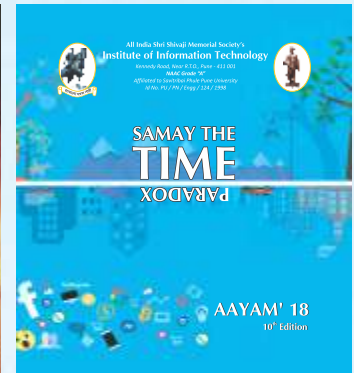
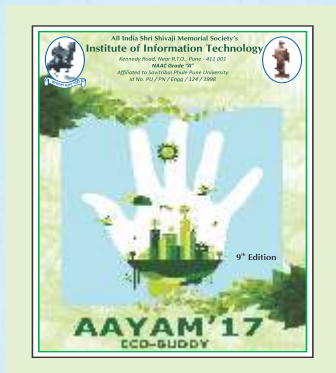
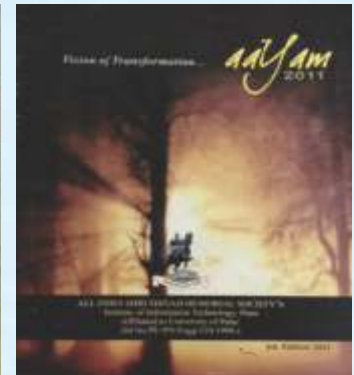
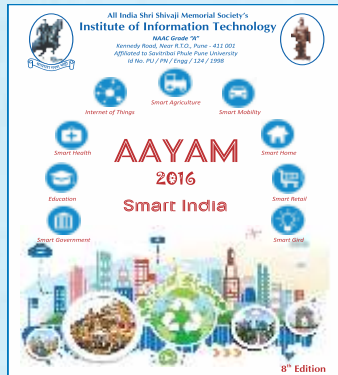
Training Activities-

Sr.No.	Name Of the Company	Training Activities
1	Reliance Retail	Internship Opportunities
2	Career Launcher	Internship Opportunities
3	BYJUS	Internship Opportunities
4	Skillbit	Internship Opportunities
5	Woosite	Internship Opportunities
6	Meridian	Internship Opportunities
7	Snapdeal	Internship Opportunities
8	WNS	Internship Opportunities
9	JP Morgan Chase	Internship Opportunities
10	Flextronics	Internship Opportunities
11	YourStory	Internship Opportunities
12	Super 77	Internship Opportunities
13	ClearTax	Internship Opportunities
14	Sony Pictures	Internship Opportunities
15	SND Media	Internship Opportunities
16	NarwalLinc	Internship Opportunities
17	Imedge	Internship Opportunities
18	Pixel Fox Studios	Internship Opportunities
19	IMATA (Mr. Nagaraj)	Raspberry Pi
20	Two Days Workshop on Time management and productivity: Ms. Reshma Wable: Communication and Productivity Coach	SE class Soft skill training workshop organized by Sujata Powniker in association with Alumni branch
22	Sikachi & Associates	ETABS Online Software Training Course
23	Inker Robotics	Virtual Visit
24	Aspiring Minds	AMCAT TEST Conducted

The full annual report 2020-21 is available on the following link-
https://aiissmsioit.org/wp-content/uploads/2021/09/AISSMS-IOIT-Annual-Report_2020-21_A.pdf

AAYAM Success Story

Successive Edition of AAYAM



Schools, Colleges and Courses Offered

- **AISSM Society's College of Engineering, Pune - 1 BE, ME & Ph.D.**
Accredited by NAAC A+ Grade
- **AISSM Society's College of B. Pharmacy, M. Pharmacy and Ph.D. Research Center, Pune - 1**
Accredited by NAAC A Grade
- **AISSM Society's College of Hotel Management & Catering Technology, Pune - 5, BHMCT, BSc-HS.**
Accredited by NAAC A Grade / NBA Accredited for BHMCT
- **AISSM Society's Institute of Information Technology, Pune - 1, BE, ME & Ph.D.**
Accredited by NAAC A Grade
- **AISSM Society's Institute of Management (MBA), Pune - 1.**
Accredited by NAAC A+ Grade
- **AISSM Society's Polytechnic, Pune - 1.**
- **AISSM Society's Private Industrial Training Institute Bori Bhadak, Tal. Daund, Dist. Pune.**
ISO 9001:2015 Certified Institute
- **Shri Shivaji Preparatory Military School, Pune – 5 (Secondary)**
- **Shri Shivaji Preparatory Military School, Pune – 5 (HSC Science & Commerce)**
- **Shri Shivaji Preparatory Military School, Pune–5 (MCVC)**
- **Shri Shivaji Preparatory Military Primary Boarding School, Pune – 5**
- **Shri Shivaji Preparatory Military Day School & Junior College, Pune–1 (Secondary)**
- **Shri Shivaji Preparatory Military Day School & Junior College, Pune – 1(HSC Science & Commerce)**
- **Shri Shivaji Preparatory Military Day School & Junior College, Pune – 1(MCVC)**
- **Shri Shivaji Preparatory Military Primary Day School, Pune – 1**
- **Shri Shivaji Preparatory Military Nursery School, Pune – 1**



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