# PRATHIBIMBA 2021

*Journey of every svitian*

## SAI VIDYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU ,Approved by AICTE, Accredited by NBA, New Delhi,, Recognized by Govt. of Karnataka)

**NBA Accredited (ECE, CSE, ISE, Mechanical, Civil)**

RAJANUKUNTE, BANGALORE 560 064, KARNATAKA
Phone: 080-28468191/96/97/98 * E-mail: info@saividya.ac.in * URL www.saividya.ac.in

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PROUD MOMENT

# SAI VIDYA INSTITUTE OF TECHNOLOGY

has received Accreditation

## For our BE Programs

1. Electronics and Communication Engineering
2. Computer Science and Engineering
3. Information Science and Engineering
4. Mechanical Engineering
5. Civil Engineering

Sri Sai Vidya Vikas Shikshana Samithi ®

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# LEARN TO LEAD

**Contribute dedicated, skilled, intelligent engineers and business administrators to architect strong India and the world.**

**To impart quality technical education and higher moral ethics associated with skilled training to suit the modern day technology with innovative concepts, so as to learn to lead the future with full confidence**

## Courses offered

### Undergraduate Programs

1. BE in Electronics and Communication Engineering
2. BE in Computer Science and Engineering
3. BE in Information science and Engineering
4. BE in Mechanical Engineering
5. BE in Civil Engineering
6. BE in Electrical and Electronics Engineering

### Postgraduate Programs

1. Master of Business Administration (MBA)

**Sai Vidya Institute of Technology**, affiliated to Visvesvarya Technological University (VTU) Belagavi Karnataka approved by All India Council for Technical Education (AICTE) New Delhi and recognized by the Government of Karnataka was established in the year 2008 by **SRI SAI VIDYA VIKAS SHIKSHANA SAMITHI** which is a trust formed by a group of well-known academicians.

This Visionary group is committed to develop SVIT as a paradigm within a couple of years. The future of SVIT in Engineering Education is bright as the above professors are heading the departments and extend their service to develop the institution with the support of highly qualified and dedicated teaching and non-teaching staff.

Prof. M.R. Holla, a renowned professor and administrator with-over more than **50 years of academic and administrative experience** to his credit along with an excellent team of popular professors of RVCE Bengaluru. The team comprises of Prof. Y. Jayasimha, Prof. R.C. Shanmukha Swamy & Prof. A.M. Padma Reddy, in association with Shri R. Srinivas Raju, a practicing Civil Engineer, Shri M.K. Manohar renowned Chartered Accountant and Shri Narayana Raju , a well known administrator with more than four decades of experience at RVCE.

**SVIT** will provide students with a sense of history, an understanding of the ideals and principles, a commitment to law and morality, an appreciation of human creativity an analytically inquisitive mind. We believe that once the students experience these, they are ready to address the challenges of the rapidly transforming world.

# SRI SAI VIDYA VIKAS SHIKSHANA SAMITHI

## Board of Trustees

**Prof. M.R. Holla**
Founder Trustee and
President

**Prof. A.M. Padma Reddy**
Founder Trustee,
Vice President

**Shri. Srinivas Raju**
Founder Trustee

**Prof. R.C. Shanmukha Swamy**
Founder Trustee

**Prof. Y. Jayasimha**
Founder Trustee

**Shri. Narayan Raju**
Founder Trustee

**Shri. Manohar M. K**
Founder Trustee and
Treasurer

# Message from Director

I am extremely happy at the launch of the college magazine **"PRATHIBIMBA-2021".** Hope it will bring out innovative and interesting articles. This is an occasion for both students and staffs to exhibit their talents by publishing extraordinary articles and bringing out new ideas. It is a source to tap the potential of our students and staff.

The management has provided within a short period whatever possible infrastructure facility to develop the personalities of students. They also provided well equipped laboratories; a good library is also established. Ample opportunities are also given in sports and cultural activities to students to bring out their inherent qualities.

I am glad that many of the students have utilized this facility and came out successfully. They also participated in many inter-collegiate festivals and won over many prizes. A special training was given to students for placement activity, soft skills aptitude and technical. I am very happy that majority of the students got placed in good companies.

I congratulate the chief editor, executive editors and all the members of the editorial board.

**Prof. M.R. Holla**
**Director**

# Message from Additional Director

I congratulate the editorial team for bringing out yet another edition of the annual college magazine "**PRATHIBIMBA-2021"**

As additional Director of the institution , I am proud of the commitment of the faculty to the holistic development of young engineers towards which our efforts remains focused.

My best wishes are with Principal ,HODs , faculty and the students of our institution.

Happy Reading!

**Prof. A M Padmareddy**
**Additional Director**

# Message from Principal

It gives me immense pleasure in bringing out annual magazine **PRATHIBIMBA-2021**, which is a curtain riser to all the stake holders concerned with the institution particularly students and staff. SVIT is one among reputed technical institutions imparting finest quality education. The evolution of the institute over the past 13 years has witnessed strong blend of state-of-the-art infrastructure and intricately intertwined human resource committed to provide professional education with thrust on creativity and innovation. The motivating environment in SVIT for knowledge assimilation, generation and dissemination with a sense of social responsibility, human values and concern for environment has carved a place for itself among the best technical institutes.

In SVIT, it is believed and practiced that excellence is a continuous process and in pursuit of which the institute has made deep forays into contributing world renowned technocrats, successful entrepreneurs, competent leaders, innovative scientists and researchers. Dear students "A desire can change nothing, a decision can change something but a determination can change everything". Life is a set of problems. An engineer has to solve problems in their domain areas with strong innovative ideas with scientific knowledge. Your commitment to become an engineer by devoting four year academic journey in SVIT will be fruitful and enjoyable in every aspect and the experience you gain from here and the moments you spend here will be cherished by you throughout your life

**Dr Ramesh Babu H S**
**Principal**

# Editorial Board

## Chief Editor

**Dr. Ramesh Babu H.S**

Principal

## Executive Editors

**Prof. Raveendra R S**

Dept. of Chemistry

**Prof. Vijaya B**

Dept. of Mechanical Engg.

**Prof. Mohan G**

Dept. of Mechanical Engg.

## Faculty Members

1. **Prof. Abhijith H V**
   Dept. of ISE
2. **Prof.Nayana K**
   Dept. of ECE
3. **Prof.Sushmitha G S**
   Dept.of CV
4. **Prof.Meghashree M**
   Dept.of CSE
5. **Prof . Shilpa Patil**
   Dept.of EEE
6. **Dr.Madhura K**
   Dept.of Mathematics
7. **Prof.Anil Kumar K V**
   Dept.of Chemistry
8. **Prof.Nayana B L**
   Dept.of Physics
9. **Prof.Ningambika G Meti**
   Dept.of MBA

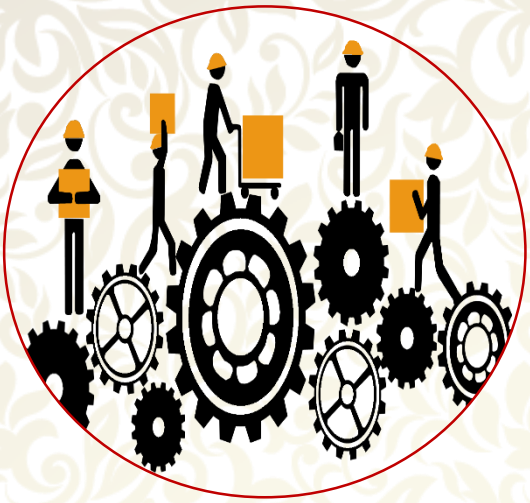
## Student Members

1. **Mr.Shreyas H L** 5th Sem ME
2. **Mr.Shashwath Shetty** 5th Sem ME
3. **Mr.Rajesh S** 3rd Sem ME
4. **Ms.Anjali R** 5th Sem CV
5. **Mr.Rachith C Jamkhandi** 5th Sem CV
6. **Ms K R Vaishnavi** 3rd Sem CV
7. **Ms. Padmashree J** 5th Sem ECE
8. **Mr. Anjan S** 3rd Sem ECE
9. **Ms.Ashwini R** 5th Sem CSE
10. **Ms. Varshitha M** 3rd Sem CSE
11. **Ms.Ishika Naveen** 3rd Sem ISE
12. **Mr.Akshay C U** 3rd Sem ISE
13. **Ms.Sharanya G S** 5th Sem ISE
14. **Ms.Sneha P Chatra** 3rd Sem EEE
15. **Mr.Nishat Balodi** 3rd Sem EEE
16. **Ms.Moulika K** 5th Sem EEE
17. **Ms.Nagajyothi R S** 5th Sem EEE
18. **Ms.Gupta Roshini Ashok** 1st Sem MBA
19. **Ms.Arpitha** 1st Sem MBA

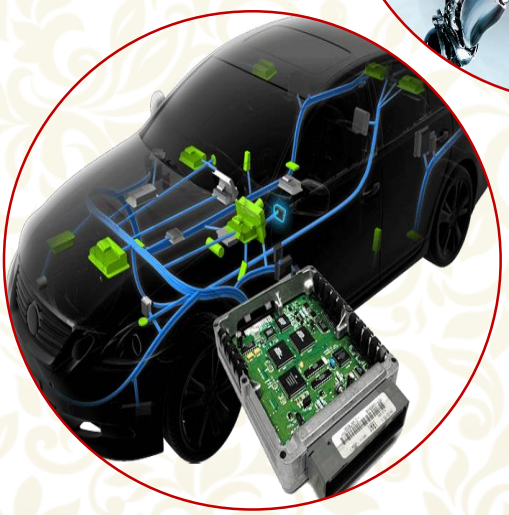
# Message from Executive editors

**It gives immense pleasure to bring out the college magazine "Prathibimba-2021". This magazine has been an effective platform for students and staff to express their talents and hidden skills. we would like to take this opportunity to express our sincere thanks to all the Trustees ,Principal, HODs and Faculty members of SVIT. We thank the Editorial Board Members for their informa suggestions and advice. We are indebted to the student members of the Editorial Board for their seamless efforts in bringing out the magazine in a colorful way.**

Prof. Raveendra R S
Prof. Vijaya B
Prof. Mohan G



# Department Profiles



# Department of Electronics and Communication Engineering

## Vision

**To become a center of academic excellence with innovations to make a significant contribution to the society in the field of Electronics and Communication Engineering.**

## Mission

- **To educate and empower the students with state-of-art knowledge and innovation in Electronics & Communication Engineering to meet the global challenges.**
- **To imbibe the professional competency and ethics congenial to the society through training.**
- **To include professional ethics and morals among the students and enabling them to become good Leaders.**
- **To inspire the students to the research and technology for societal issues.**

## PEOs

**PEO 1: Design & develop electronic systems.**

**PEO 2: Effectively communicate technical information, successfully lead and participate in a multi-disciplinary team environment.**

**PEO 3: Engage in lifelong learning through continuing education and industrial practice.**

**PEO 4: Demonstrate professional ethics and social awareness**

## PSOs

**PSO 1: Design and simulate Electronics and Communication systems using concepts and tools of electronic circuits, signal processing, VLSI technology and communication.**

**PSO 2: Architect, partition and select appropriate technologies for implementation of a specified electronics & communication system.**

**Prof. Vikramathithan A C**

Associate Professor and Head

**PRATHIBIMBA-2021** our annual college magazine showcases the various achievements and talents of students and members. I would like to appreciate and congratulate the editorial team for their efforts in bringing PRATHIBIMBHA-2021 in an elegant & presentable manner. I am privileged to offer my best wishes. I congratulate students & members who have contributed their articles in huge volume.

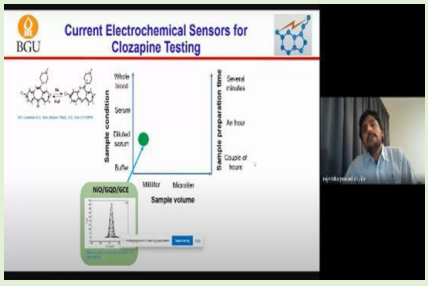
**Department of Electronics and Communication Engineering** at Sai Vidya Institute of Technology has an UG B.E intake strength of 120 students divided into two sections. The primary objective of the department has been to impart quality technical education to the students. The department is known for its quality, practical-based and research-oriented education imparted to students, which helps the students to face the real-world challenges of the fast- changing technical world. To make the students technically aware of the advancements in technology around the world the department provides additional training sessions, workshops, hands-on, webinars, Industrial Visits, Internship with remuneration and other events. We also provide the students with personality development classes for the students overall development

## Webinars Conducted

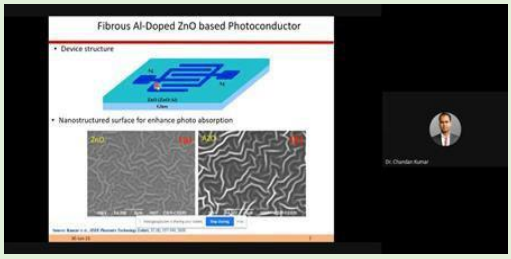
1. Higher Education Opportunities in Germany
2. Practical aspects of intellectual property rights and patents
3. Intellectual Property Rights: An Overview
4. Self-Awareness for Innovative Entrepreneurship in Industry 4.0
5. Leadership -A live Example "Indian Army Perceptive
6. Power of perseverance 5 steps to realize your dream
7. Enhancing Leadership Skills
8. Nanostructured ZnO Thin Film Based Ultraviolet Photodetectors
9. Benefits of yoga

**workshops Conducted in association with the IEEE SVIT Student branch, IEEE SVIT Photonics Student Chapter and IEEE SVIT EMBS Student Chapter**

1. Emerging Trends in Biomedical and MEMS Sensor Technologies




2. Emerging Trends in Nanotechnology, Photonics and Biomedical Applications



## Invited Talks in Various National and International Webinars

**Dr. Narayan.K**, Professor, Dean R&D, Dept. of ECE was invited to deliver technical webinars across various institutes across India and globally

1. "**Development of Indigenous Fluorescent OLEDs**" on 5-8-2020 as part of FDP on Advances in Functional Devices, (AFD) 2020 organized by Vignan's Institute of Information Technology, Visakhapatnam
2. "**Design and Development of Opto-Fluidic Channel for Biosensing Applications**" on 7-8-2020 organized by Department of Medical Electronics Engineering/ Department of Electronics and Telecommunication Engineering/ Department of Electronics and Communication Engineering, M S Ramaiah Institute of Technology, Bangalore , Technically sponsored by IEEE Bangalore Section, and IEEE Sensors Council, Bangalore Chapter.
3. "**NIRF & Atal Ranking of Institution and Achievements (ARIIA)",** as part of the webinar organized by Arasu Engineering College, Affliated to Anna University Chennai Main Road, Kumbakonam 612 501, Tamil Nadu on 19-02-2021.
4. "**Quality Publications and its relevance to NIRF & Atal Ranking of Institution and Achievements (ARIIA)",** as part of the webinar organized by, Anjuman I-Islam, New Panvel Accredited by NAAC on 3-4-2021.
5. **"Introduction to Machine Learning"** at National University of San Marcos, Peru on 28th April 2021, 5th and 12th May 2021

**Prof. Pavan Kumar E**, Assistant Professor, Dept. of ECE was invited to deliver a technical webinar on **"Machine Learning"** organized by YUVA Innovation and KITES on 9th July 2021.

**Dr. Venkatesha M**, Associate Professor, Dept. of ECE was invited to deliver a technical webinar on

1. **"Advancements of Photonic Crystal Fibers for Sensing Applications"** at K.S.R.M College of Engineering (Autonomous) (Approved by AICTE, Accredited by NAAC & UGC, Affiliated to JNTUA, Ananthapuramu) (An ISO 9001:2015 Certified Institution) Kadapa – 516003, Andhra Pradesh, India on 28th and 29th June 2021.
2. Delivered a talk at 5-day Online Faculty Development Programme on **Recent Trends in the World of Photonics** July 26 - 30, 2021 and delivered talk on the topics Recent Trends in Photonic Crystal Fibers, Demo on Simulation Modelling using ANSYS Lumerical and Demo on Simulation Modelling using Intellisuite.

Wing Commander **Dr K Srinivas Rao**, Associate Professor, Dept. of ECE was invited to deliver a technical webinar on "Photonics in Microwave & Radar Applications" organised by IEEE Photonics Society on 6th August 2020.

## Publications by faculty

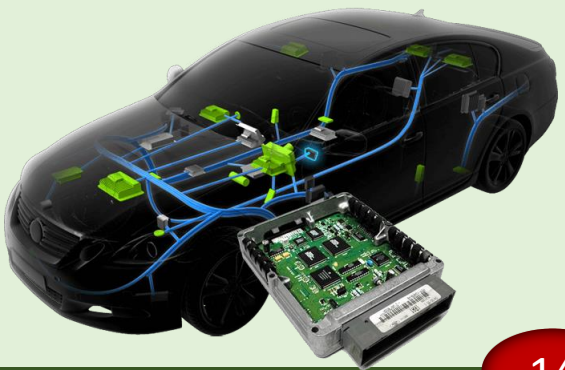
**In International Journals : 10**

**In International Conference : 8**

## Publications by Students

**In International Journals : 18**

**In International Conference : 22**



# Toppers List

"A" Section

## 2nd Year (3rd Sem)

1. Mr Shahank C
   1VA19EC074
2. Ms Shreya U S
   1VA18EC076
3. Ms Spoorthy G
   1VA18EC080
4. Mr Rohan A S
   1VA19E0C64
5. Ms Sneha U
   1VA19EC079

## 3rd Year (5th Sem)

1. Ms Apeksha G Raj
   1VA18EC009
2. Mr Manoj S
   1VA18EC055
3. Mr Kushal Kumar K S
   1VA18EC050
3. Mr Ashok Kumar S
   1VA18EC011
4. Ms Padmashree J
   1VA18EC073

## Final Year (7th Sem)

1. Ms.Kavya H
   1VA17EC042
2. Mr B M Uday Prakash
   1VA17EC012
3. Ms Anusha S
   1VA17EC120
4. Ms Harshith D S
   1VA17EC034
5. Ms Amrutha K C
   1VA17EC005

# Toppers List

"B" Section

## 2nd Year (3rd Sem)

1. Ms Janhavi M
   1VA19EC034
2. Mr Srivatsa PM
   1VA18EC054
3. Ms Harshini V
   1VA18EC029
4. Ms Radha G
   1VA19EC058
5. Ms Divyashree G
   1VA19EC022

## 3rd Year (5th Sem)

1. Mr. C S Likith
   1VA18EC019
2. Mr Raghunandan
   1VA18EC082
3. Mr Sudarshan M K
   1VA18EC100
4. Mr Sahil Malik
   1VA18EC089
4. Ms Tanuja R
   1VA18EC104

## Final Year (7th Sem)

1. Mr Sourabh V Bhat
   1VA17EC101
2. Ms Kavya U P
   1VA17EC044
3. Ms S P Bhavana
   1VA17EC086
4. Ms Sneha P
   1VA17EC100
5. Ms Kunti Narasimhappa Gari Vidya
   1VA17EC045
5. Ms Ritu andrea
   1VA17EC085

## Vision

**To attain centre of excellence in Electrical and Electronics Engineering and contribute professional Engineers**

.

## Mission

- **Impart high quality education with a focus on fundamentals and practical applications of Electrical and Electronics Engineering concepts.**
- **Inculcate professional knowledge on recent trends in Electrical and Electronics Engineering through Industry - Academic interactions and training.**

## PEOs

- **PEO 1: To provide a strong foundation in Electrical and Electronics Engineering fundamentals to understand and analyze with intent to design and develop products / applications to address practical issues.**
- **PEO 2: To inculcate ethical attitude, effective communication skills, leadership qualities and team spirit for a successful professional career with concern for society.**
- **PEO 3: To encourage professional development and higher learning through training and research activities**

## PSOs

- **PSO 1: To Apply science, engineering, mathematics through differential and integral calculus, complex variables to solve Electrical Engineering problems.**
- **PSO 2: To demonstrate proficiency in use of software & hardware to be required to practice Electrical Engineering profession.**
- **PSO 3: To apply the knowledge of ethical and management principles required to work in a team as well as to lead a team**

**Dr. T G Manjunath**

Professor and Head

"It is indeed a happy moment for our Electrical and Electronics Department as the SVIT bringing out the edition of ***PRATHIBIMBA-2021***. The most important aspect we could derive from this amazing effort is that it brings out the various technical and analytical skills of the budding engineers. I wish them all the very best for releasing magazine."

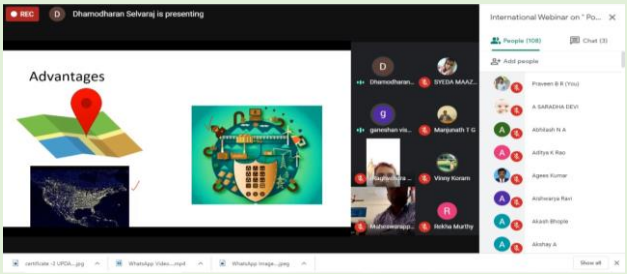
This Department is headed by **Dr. T G Manjunath** with an experience of more than 20 years in teaching Electrical and Electronics Engineering. The Department has an excellent team dedicated and experienced faculty members guided and motivated by **Prof. R C Shanmuka Swawy** (Founder Trustee and Dean Administration).

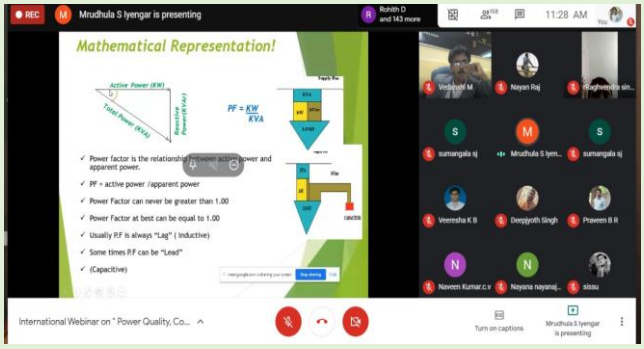
The Department has well equipped laboratories. The D.C & A.C machines lab, Power Electronics Lab, High Voltage & Relay Lab, Control System lab and Measurements & Circuit Simulation Labs are set up in the department for the students to learn and Practice.

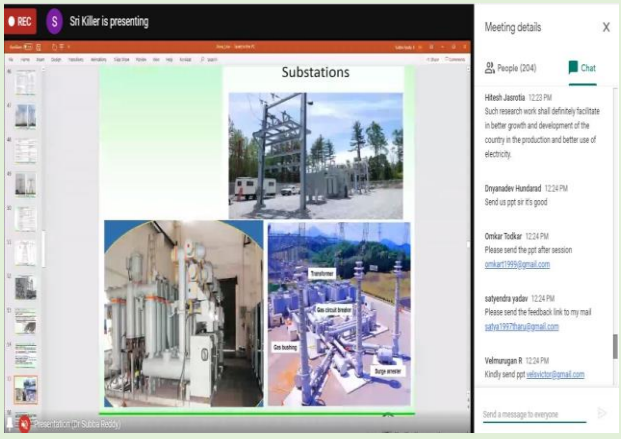
The Electrical & Electronics Engineering course is designed to impart knowledge in Power Generation, Conversion, Transmission and Distribution of Power, Electronic circuits, Control Systems, High Voltage, and VLSI etc

## Webinars Conducted

1. Electrical protection , switchgear and applications
2. Electrical protection, switchgear and applications
3. Power Quality, Control and DC Micro grid
4. Need of UHV Transmission in India – Recent Advances




## Publications by faculty

**In International Journals : 04**

**In International Conference : 02**

## Publications by Students

**In Journals / Conferences : 04**

# Toppers List

## 2nd Year (3rd Sem)

1. Ms Sneha P chatra
   1VA19EE015
2. Ms Jalajakshi V M
   1VA19EE003
3. Mr M S Sourav
   1VA19E006
4. Mr Madhusudhan R
   1VA19EE007

## Final Year (7th Sem)

1. Ms Kritika Sharma
   1VA17E010
2. Mr B Karthik
   1VA17EE004
3. Mr K Shreyas
   1VA17EE008
4. Ms Sushma R
   1VA17EE023
5. Mr Abhilash N A
   1VA17EE001

## 3rd Year (5th Sem)

1. Ms.Tanushree R
   1VA18EE014
2. Ms Nagajythi R S
   1VA18EE004
3. Ms Moulika K
   1VA18EE003
4. Mr Sachin S
   1VA18EE009
5. Ms Rashmi R
   1VA19EE402

## Vision

**Contribute dedicated, skilled, intelligent Computer Engineers to architect strong India and the world**

.

## Mission

- **Provide quality education in Computer Science by promoting excellence in Instruction, Research and Practice.**
- **Promote Professional interaction and Lifelong Learning**
- **Encourage the youths to pursue career in Computer domain with modern innovation and ethics**

## PEOs

**PEO 1: Graduates will have the expertise in analyzing real time problems and providing appropriate solutions related to Computer Science & Engineering.**

**PEO 2: Graduates will have the knowledge of fundamental principles and innovative technologies to succeed in higher studies, and research.**

**PEO 3: Graduates will continue to learn and to adapt technology developments combined with deep awareness of ethical responsibilities in profession**

## PSOs

**PSO 1: Demonstrate the knowledge and understanding of working principles, design, implement, test and evaluate the hardware and software components of a computer system.**

**PSO 2: Apply standard Software Engineering practices and strategies in software project development**

**PSO 3: Demonstrate the knowledge of Discrete Mathematics, Data management and Data engineering.**

**Dr. Shantakumar B Patil**
**Professor and Head**

We celebrate more than **13 years** as a department at **Sai Vidya Institute of Technology**. Our degree program goes back to the presentation of the first Under Graduate degree in **2008**, with a student ratio of **60** in its cradle. The Department of CSE is **accredited by NBA and approved by AICTE.**

We have a foundation of quality in education and research instituted by its founders and continued by its predecessors. **Research & Development Centre** at CSE Branch encourages teachers & research Scholars to take up their research activities. Department & Research Centre also encourages students to take up research-oriented projects in its center which leads students to gain lot of knowledge & Exposure in research activities. The department of CSE is mentored by one of the predominant Teacher & Mentor, **Prof. A. M. Padmareddy,** who is also a well-known author among Computer Science community in VTU with more than 35 years of experience. The Department is currently headed by **Dr. Shantakumar B Patil** having vast experience in academics & research, supported by a team of well qualified, dignified and experienced staff members.

Specific courses provide fundamental knowledge and skills in core aspects of computing like programming, data structure, operating system, algorithms, computer networks, databases. Students also gain proficiency in interdisciplinary subfields of computing like machine learning, data mining, and data science.

With the advancement and modernization of today's hardware & software components within computers which have grown in complexity, capacity & multitasking, the demand for quality computer engineers with expertise in software engineering has increased manifold. Keeping this as the goal, the Computer Science and Engineering department meets the VTU Curriculum & IT Industry requirements. The faculties are involved in proctoring, research, conduction of other co-curricular activities like Seminars, Workshops, Training, Industrial intractions & Conferences apart from regular teaching.

## Webinars Conducted

1. An Insight into web application Development
2. Machine Learning
3. Robotic process automation
4. Webinar on trend in “SAP”
5. Open source
6. Machine learning application in health care
7. Overview of Machine learning

## Publications by faculty

**In International Journals : 13**

**In International Conference : 02**

## Publications by Students

**In Journals / Conferences : 16**

## MOOC Certifications :

**Faculty : 218**

**Students: 22**

# Toppers List

## 2nd Year (3rd Sem)

1. Mr Yashas H M
   1VA19CS061
2. Ms Janhavi T N J
   1VA19CS020
3. Ms Trupti
   1VA19CS058
4. Mr Parthasarathi J N
   1VA19CS035
4. Mr Sparshithraj
   1VA19CS050

## 3rd Year (5th Sem)

1. Ms Vaishnavi A
   1VA18CS053
2. Mr Amod Udupa
   1VA18CS004
2. Ms Vaishnavi Jaiswal
   1VA18CS054
3. Mr Ganesh Shankar Hegde
   1VA18CS013
4. Mr Amith A Balerao
   1VA18CS003

## Final Year (7th Sem)

1. Ms. K Pallavi
   1VA17CS020
2. Ms Disha Chiplonkar
   1VA17CS013
2. Ms Sanjana Arun Kumar
   1VA17CS045
3. Ms Rachana R Shastry
   1VA17CS039

## Vision

**Architect dedicated and intelligent Information Technology Engineers to address evolving global needs**

.

## Mission

- **To provide quality education by creating and nurturing innovative and technologically steadfast learning environment.**
- **To inculcate moral ethics in students enabling them to become socially committed professionals with leadership qualities**

## PEOs

**PEO 1: Serve as IT professionals with proficiency in developing solutions to complex engineering problem**

**PEO 2:Pursue higher education , research and preserve the essence of lifelong learning.**

**PEO 3: Exhibit high standards of social and professional ethics, entrepreneurship and leadership qualities.**

## PSOs

**PSO 1: Analyze, design and develop secure Information system by organizing data efficiently.**

**PSO 2: Analyze, design, develop, test and maintain software that satisfy the specified requirements.**

**PSO 3: Apply the knowledge of network communication concepts, computation and optimization techniques to provide solutions to real time IT problem**

**Dr. Vrinda Shetty**
Professor and Head

**Department of Information Science and Engineering (ISE)** started its course of journey of four year B.E course in the year 2008-09 with an intake of 60 students.

The department of ISE is headed by **Dr. Vrinda Shetty**, having vast experience in academic & research work. The department prepares its students to become responsible professionals who are strong in the fundamentals of Information Science and Engineering.

The branch has an excellent team of young, dynamic & dedicated faculty members who are highly qualified with rich & vast experience in teaching & industry. The faculty are involved in proctoring, research, conduction co-curricular activities like seminars, workshops & conferences apart from regular teaching. The faculties use the latest teaching aids like PowerPoint Presentations etc. for effective teaching.
The department encourages its faculty and students to interact with the outside world through student internship, workshops, seminars, paper presentation, faculty consultancy, faculty development programmes, industry collaboration and association with professional societies. The department equips its students with entrepreneurial problem solving techniques with more emphasis on ethical practices, inclusive societal concerns and environment. The department also emphasis is on team work through inter-disciplinary projects, co-curricular and social activities.

## Webinars Conducted

1. An Insight into web application Development
2. Machine Learning
3. Robotic process automation
4. Webinar on trend in “SAP”
5. Open source
6. Machine learning application in health care
7. Overview of Machine learning
8. Network Simulator-II
9. Advanced Data Analysis with deep learning techniques
10. Role of Handwriting Analysis in the Success of a Software Engineer
11. Institute to Industry
12. Careers in IT Industry Apart from Coding

## Publications by faculty

**In International Journals : 7**

**In International Conference : 12**

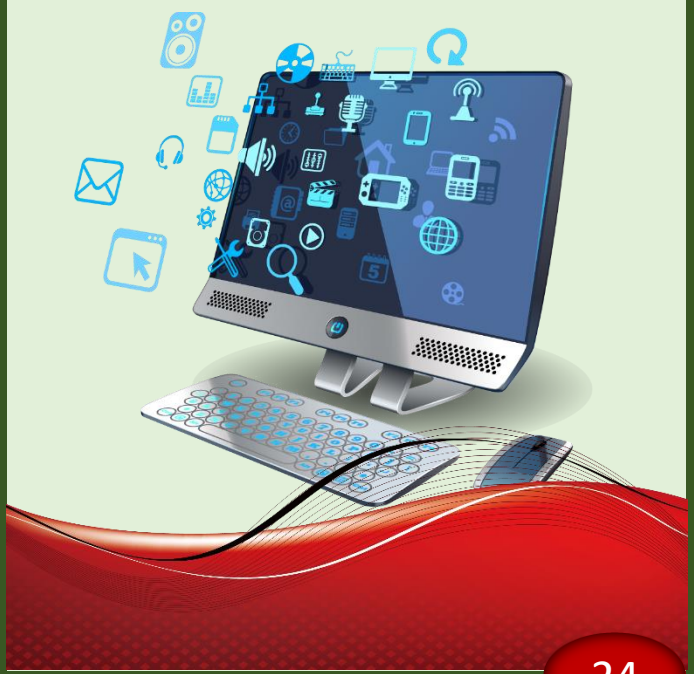
## Publications by Students

**In National Journals / Conferences : 10**

### MOOC Certifications :

**Faculty : 04**

**Students: 22**



# Toppers List

## 2nd Year (3rd Sem)

1. Ms Sriraksha R
   1VA19IS050
1. Ms Ishika Naveen
   1VA19IS023
2. Mr K Dhanush Bhat
   1VA19IS024
3. Mr Akshay C U
   1VA19IS007
3. Ms Sangeetha D V
   1VA19IS045

## 3rd Year (5th Sem)

1. Ms Holla Shreya
   1VA18IS007
2. Ms Pooja Guttal
   1VA18IS007
3. Ms Sai Chandana
   1VA18IS036
4. Ms Parvati Adiga
   1VA18IS022
5. Ms Sahana S M
   1VA18IS035

## Final Year (7th Sem)

1. Ms Aishwarya G
   1VA17IS003
2. Mr.Ritik Chitragupt
   1VA7IS038
2. Ms Navaratna Venkataramana Hegde
   1VA17IS030
3. Ms Shruthi N
   1VA17IS046
4. Ms Vandana C K
   1VA17IS052
5. Ms Rachana K
   1VA7IS020

# Department of Mechanical Engineering

## Vision

**To establish Mechanical Engineering Department as an excellent centre to produce skilled and intelligent engineers as architects for a strong nation and the world.**

## Mission

- **To impart quality technical education in Mechanical Engineering domain through an excellent teaching-learning environment.**
- **Instill ethical values among students to create technologically superior global man power through industry participation**

## PEOs

- **PEO 1: Our graduates will be competent with strong fundamentals and sound knowledge in the field of Mechanical Engineering.**
- **PEO 2: Our graduates will practice and incorporate design, manufacture and carryout research activities to mould themselves as successful engineers.**
- **PEO3: Our graduates will process themselves personally and professionally in taking up state of the art technological challenges and pursuing leadership roles.**

## PSOs

- **PSO 1: Characterize the performance of a Mechanical Component or a Mechanical System using computational tools.**
- **PSO 2: Design Mechanical Systems including drives, energy conversion systems , RAC and Fluid power systems as per specifications**
- **PSO 3: Select , plan and implement the process for manufacturing of Mechanical elements and for assembly of Mechanical Subsystems**

**Dr A V Seetha Girisha**
**Professor and Head**

The **Mechanical Engineering Department at SVIT** was established in the year 2010 with an intake of 60 students. Mechanical Engineering is one of the most opted courses in engineering arena which has created ever standing demand as the graduates in this course are offered worldwide placement opportunities in Design and Manufacturing sectors of the Industries**.**

The department is headed by **Dr. Seetha Girisha A V** along with a team of enthusiastic and well qualified teaching faculty members with an excellent teaching experience.

The department has spacious and well equipped laboratories to cater the academic requirements of students as per the university curriculum. The department is emphasizing more on mini projects by students to impart more practical knowledge than they get out of their course of study. Periodically, workshops, seminars & technical symposia are organized in emerging trends of mechanical engineering to update student knowledge at par with today's industrial requirements. The department is organizing special training programs in mechanical engineering software like CATIA, ANSYS, and Pro-E etc. which helps to enhance and explore student skills in CAD/CAM/CAE discipline which is very essential in the present scenario of industries.

## Webinars Conducted

1. CFD analysis of fluid flow and heat transfer
2. Fastest growing opportunities in the field of Mechanical engineering
3. Introduction to modal analysis
4. Why communication plays a major role for Engineering students?

# Funded Projects

## KSCST

**Title of the project**: **Modelling And Evaluation Of Low Cost Wind Turbine For Rural Areas For Electrification**
**Amount : 4500Rs.**
**Guide : Dr Raghavendra S**
**Student batch:**

1. **Rajaram Srivatsa H.N**
2. **Gangadhar.G**
3. **Punith Gowda D.S**
4. **Nandeesh.R**

## VGST

**Title of the Project: Development of Biodegradable cutlery spoon as a replacement lo synthetic spoon.**
**Amount : 3 Lakhs**
**Principal Investigator : Dr Raghavendra S**

## Publications by faculty

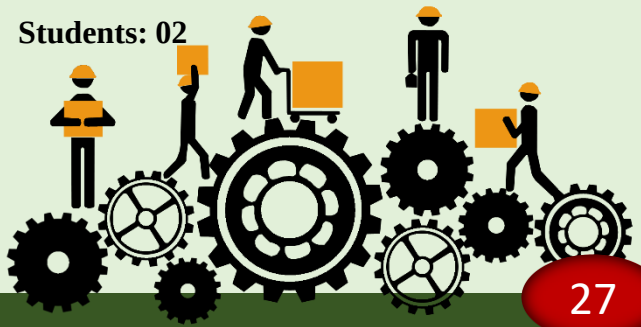
**In National Journals : 02**

**In International Journals : 01**

## MOOC Certifications :

**Faculty : 02**

**Students: 02**



## Internship

Students of 2017 batch undergone internship at various industries in Bangalore. As a part of curriculum internship were carried out for 4weeks. To gain skill sets in Mechanical domain.

Department had MOU with KGTTI, CMS, C Balance .

Internship at KGTTI

Internship at Federal Mogul

## Project Exhibition

### First Prize

**Title of the project**: **Manually operated floor cleaner**
**Guide : Prof. Santhosh S G**
**Student batch:**

1. **Mr.Rajith N**
2. **Mr.Mohan Gowda**
3. **Mr.Lohith U**
4. **Mr.Madhukiran B G**

### Second Prize

**Title of the project**: **Design and development of multipurpose agricultural Robot**
**Guide : Prof.Arun R**
**Student batch:**

1. **Mr. Nithin Bharadwaj R**
2. **Ms. Janhavi C**
3. **Mr. G N Keerthiraj**
4. **Mr. Venkatesh M**

### Third Prize

**Title of the project**: **A study on Mechanical properties on lead tin bronze**
**Guide : Prof. Arjun S**
**Student batch:**

1. **Mr. Ganesh S**
2. **Ms. Sneha G**
3. **Mr. Sohan Kumar N**
4. **Mr. Sundaravijayan**

# Toppers List

## 2nd Year (3rd Sem)

1. Mr .Mahendra Verma
   1VA19ME008
2. Mr Tejas K V
   1VA19ME018
3. Mr Goutham Raju
   1VA19ME005
4. Mr Polmin Jose
   1VA19ME009
5. Mr Lalith Ranjan K P
   1VA19ME006

## 3rd Year (5th Sem)

1. Mr. Vijay Kumar S
   1VA18ME028
2. Mr Shreyas H L
   1VA18ME026
3. Mr Akash
   1VA18ME002
4. Mr Deepak D
   1VA18ME008
5. Mr Rakesh Angadi
   1VA18ME021

## Final Year (7th Sem)

1. Mr Ganesh S
   1VA17ME010
2. Mr Vishal Srinivas
   1VA17ME001
3. Mr Venkatesh M
   1VA17ME045
4. Mr Gagan R
   1VA17ME008
5. Ms Sneha G
   1VA17ME41

## Vision

**To produce civil engineers with the necessary knowledge, skills, attitudes and to be the fountain-head of sustainable innovations in civil engineering.**

## Mission

- **To provide high quality technical education to students for a successful career through professional consultancy, outreach and manpower training, in civil engineering**
- **To transform the students as Frontrunners and guardians of the natural environment and resources**
- **Inspiring Innovations and integration of ideas and technologies**

## PEOs

- **PEO 1: Lead and work in a team with effective communication skills to pursue civil engineering endeavors in multidisciplinary areas.**
- **PEO 2: Function ethically in their profession and meet professional challenges.**
- **PEO 3: Engage in lifelong learning through independent study, participating in professional conferences, workshops or continuing education.**

## PSOs

- **PSO 1: Impart practical knowledge in planning, analysis, design and construction management**
- **PSO 2: Function as a professional engineer and contribute towards betterment of the society**
- **PSO 3: Function as an individual or in a team to find solutions for civil engineering problems of multi disciplinary nature in the context of environmental and sustainable development.**

**Dr. M. B. Ananthayya**
Professor and Head

The Department of Civil Engineering was established in the year 2010 affiliated to Visvesvaraya Technological University, Belgaum, Karnataka. Over the years, it has grown into one of the finest centers of learning in the field of Civil Engineering

The Department is headed by **Dr. M. B. Ananthayya** who has vast experience in academics, research and administration. He encourages the academics and shows keen interests in the overall growth of students along with extra curriculum activities such as Sports and Cultural.

The Department offers Under Graduate Program in Bachelor Degree in Civil Engineering with an intake of 60 students. The Department has well experienced faculty members to provide the best of engineering knowledge to the students. Well established laboratory, timely conducted workshops, seminar and Faculty Development Programs make both faculties and the students aware with the latest technical endeavors and global exposure

The Department conducts refreshing crash courses for competitive examinations conducted by KPSC and other authorities for the posts of Assistant Engineers and assistant Executive Engineers in various Karnataka State Government bodies like KPWD, BBMP, KUWSSB, KEB, Karnataka Irrigation and water resources department etc.

## Webinars Conducted

1. Water conservation and recycling
2. Role of Cement in making Structures Durable

# Funded Projects

## KSCST

**Title of the project**: **Utilization of Biodegradable and Non-biodegradable Waste of Temple & Industry for Extraction of Valuable Products-Close Loop Approach to Produce Organic Fertilizer for Agriculture**
**Amount : 5000Rs.**
**Guide : Dr Megha Kulkarni**
**Student :**
1. **Ms. Supriya S B**
2. **Ms. Yashaswini M**
3. **Ms. Kavya S P**
4. **Mr. Gowtham K**

**Title of the project**: **Production of Biodegradable Packaging Material from Agricultural & Food Waste**
**Amount : 6000Rs.**
**Guide : Dr. Megha Kulkarni**
**Student :**
1. **Ms. Manasa N**
2. **Ms. Sahana S**
3. **Mr. Praneeth S M**
4. **Mr. Jayasurya T**

## Publications by faculty

**In National Journals : 1**

**In International Journals : 2**

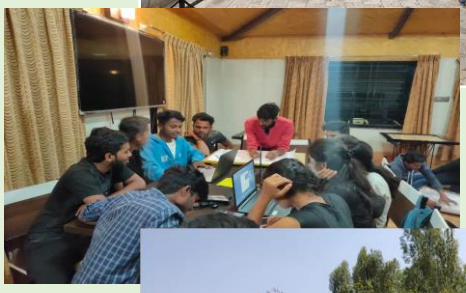
**In National Conference : 1**

## MOOC Certifications :

**By Students: 02**

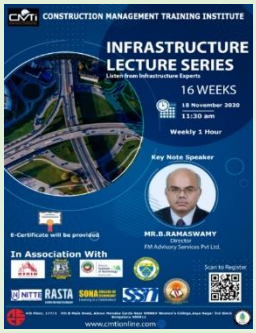
## Extensive Survey Camp

The survey camp of 5th semester students. The projects carried out by students are New Tank, Old Tank, Highway, Town Planning and Water Supply as a part of their academic curriculum



## Internship at Prayojana Construction Management Training Institute, Bengaluru

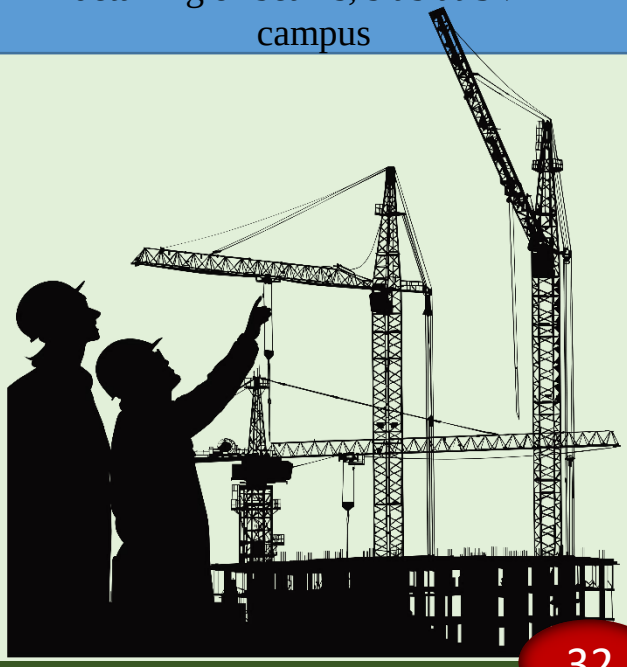
## Pre-Placement Training through CMTI (Construction Management and Training Institute)



## Industrial Visits

Industrial visit to RMC Plant at Vidyanagar, Bangalore

Industrial visit of structural steel detailing of beams, slab at SVIT campus



# Toppers List

## 2nd Year (3rd Sem)

1. Mr.Aklesh Kumar Sah
   1VA19CV002
2. Mr.Suresh Raj Sharma
   1VA19CV020
3. Ms Deekshitha R
   1VA19CV004
4. Mr Suhas Gowda AP
   1VA19CV019
5. Ms Chethan H S
   1VA19CV003

## 3rd Year (5th Sem)

1. Mr.Ishfaq ahmed mir
   1VA18CV011
2. Mr Rachith Chandrakanth
   1VA18CV029
3. Mr Abhilash
   1VA18CV037
4. Mr Srinivas S N
   1VA18CV036
5. Ms Anjali R
   1VA18CV005

## Final Year (7th Sem)

1. Mr Basavaraj J
   1VA16CV013
2. Mr.Rafiq Rashid
   1VA17CV037
3. Ms Asma Jan
   1VA18CV400
4. Ms Mythrishree
   1VA17CV031
5. Mr G Venkat Dinesh
   1VA17CV019

# Department of Management Studies

## Vision

**To be an anchor in management by developing leaders in business and entrepreneurs steering organizations in a holistic manner**

## Mission

- **Committed to serve the various stake holders by ensuring healthy competitiveness through business administrators and entrepreneurs.**
- **Develop professionals well equipped to lead with state-of-the-art management skills through innovative ideas and human concern**

**Dr. D Jogish**

**Professor and Head**

It highly excites to note that Sai Vidya Institute of Technology is bringing out another edition of college magazine **PRATHIBIMBA-2021.** In the changing environments and development of social media, such efforts to collate multiple achievements, talent exhibits, artistic creations and publish such many more aspects in one space deserves an appreciation.

"The journey of any individual will begin in their thoughts, flourish through the education, improve through persistent practice and continues at their career space".

Every individual should aim at accomplishing the best outcomes where the journey of progression itself will motivate individuals. Students are smart to learn on their abilities, further it is important for them to enhance their skill set by continuous practice and never giving up attitude

. Let your achievements speak your personalities, your passion set the way for exuberance, your desire lead to emotional stability and every effort you place in the path of career space create a new mile stone.

I believe that our students at SVIT will continue to set new records in all their future endeavors as they have been doing it during their academic journey at SVIT.

I extend the warmth wishes to the editorial team for raising this edition and believe that they have done a stupendous work in the making of **PRATHIBIMBA-2021.**

The two-year postgraduate program (MBA) is a four semester course affiliated to VTU and approved by the AICTE, New Delhi. The program is conducted by experienced full-time faculties and professionals from industry.

The department of MBA is headed by **Dr. Jogish D,** MBA., Ph.D. He has a perfect blend of industry & academic exposure having experience of more than 15 years. The department consists of well experienced and qualified who, on an average, has more than 10 years of teaching experience. The department offers specializations in three areas i.e. Finance, Marketing and HR.

## Webinars Conducted

1. Project Management frame work & tool

DEPARTMENT OF MANAGEMENT STUDIES
SAI VIDYA INSTITUTE OF TECHNOLOGY,
RAJANUKUNTE, BENGALURU

WEBINAR
ON
"PROJECT MANAGEMENT FRAMEWORK AND TOOLS - AN OVERVIEW"

SATURDAY OCTOBER 31, 2020
TIME: 11.00 AM

- E-Certificates will be issued for all registered and active participants after receiving feedback form
- Google Meet Link for the Webinar will be sent to the registered candidates through mail and WhatsApp
- No Registration Fee

SPEAKER

Ms.Madhumita Mankar
Assistant Director
Certified Project Management Professional (PMP)

Registration Link:
https://forms.gle/eEWwLFaRYvA2v7gaA9

For any queries, Contact:
Dr. Naveen G
Faculty Coordinator
Email: naveen.g@saividya.ac.in
WhatsApp: 9880110183

Dr. Naveen G, Faculty Coordinator
Dr D Jogish, Head of Department, MBA
Dr Ramesh Babu H S, Principal

## Workshops Conducted in association

1. **Business Analytics using MS Excel**
   Resource Person : Dr Pradeep N

DEPARTMENT OF MANAGEMENT STUDIES
SAI VIDYA INSTITUTE OF TECHNOLOGY,
RAJANUKUNTE, BENGALURU

ORGANISING 2 DAYS WORKSHOP
ON
"BUSINESS ANALYTICS USING MS EXCEL"

MAY 15, 2021 & MAY 22, 2021
TIME: 10:00 AM - 01:00 PM

- E-Certificates will be issued for all registered and active participants after receiving feedback form
- Google Meet Link for the Workshop will be sent to the registered candidates through mail and WhatsApp
- No Registration Fee

RESOURCE PERSON

Dr.Pradeep N E
Associate Professor & Corporate Trainer
Sai Vidya Institute of Technology
Rajanukunte, Bengaluru - 64

Registration Link:
https://forms.gle/MwFqWpQsSYLM9mjQ6

For any queries, Contact:
Prof. Ningambika G Meti
Assistant Professor
Email: ningambika.gm@saividya.ac.in
WhatsApp: 8123221835

Prof. Ningambika G Meti, Faculty Coordinator
Dr D Jogish, Head of Department, MBA
Dr Ramesh Babu H S, Principal

## MOOC Certifications :

**Faculty : 06**

**Students: 28**

# Funded Projects

"44 series Best Project in state award by KSCST"

## KSCST

**Title of the project**: **Application Of Technology And Automation In Agriculture**

**Amount : 5000Rs.**
**Guide : Dr Naveen G**
**Student :**

1. **Ms. Sahana hedge N**
2. **Ms. Sushma M**
3. **Ms. Shreya**
4. **Mr. Punith M**

## Publications by Students

**In Journals / Conferences: 07**

# Toppers List

## 3rd Semester

1. Ms .Sahana Hegde 1VA19MBA29
2. Ms.Shreya 1VA19MBA31
3. **Ms.Sushma M 1VA19MBA35**
4. **Ms.Sindhu J 1VA19MBA32**
5. **Ms.Poojashree S V 1VA19MBA23**
6. **Mr.Vijay N 1VA19MBA40**
7. **Ms.Tejawathi G R 1VA19MBA38**
8. **Ms.Kavitha B 1VA19MBA13**
9. **Mr. Harsha 1VA19MBA10**
10. **Ms.Pavithra D 1VA19MBA21**

## 1st Semester

1. Ms .Gupta Roshni ashok 1VA20BA013
2. Ms .Arpitha 1VA20BA004
3. Mr Shaber Ulla Khan 1VA20BA035
4. Ms .Suma M A 1VA20BA043
5. Ms .Shabreen Taj 1VA20BA036
6. Ms .Pavitra S M 1VA20BA028
7. Mr Shanmuga Atreya 1VA20BA027
8. Ms .Sahithya C M 1VA20BA034
9. Ms .Tanuja M 1VA20BA048
10. Ms .Sushmitha 1VA20BA046

# Department of Mathematics

## Vision

**To transform young people to be competent and motivated professionals with sound theoretical and mathematical knowledge across the globe.**

**Dr. Lakshminarayanachari. K**
**Professor and Head**

The department of Mathematics is one of the pioneering departments of the institution that offers assistance to many engineering courses of the college. It is committed to the cost of quality education in mathematics that forms the basis for all the engineering fields, a field growing in leaps and bounds. The department strives to achieve global identity through innovative methods and constant efforts for the betterment of the student community.

The department of Mathematics is headed by **Dr. Lakshminarayanachari. K**, having experience of 20 years in teaching and research field. He completed his Doctoral Degree from Bangalore University in the year 2009 and has guided two students for their Doctoral Degree. Presently five students are pursuing Ph.D under his guidance and he has published 23 research papers in reputed national and international journals.

## Mission

- **Provide strong mathematical foundation to augment all disciplines of technical education.**
- **Enable the students for mathematical modeling and analytics in the engineering field**

Dr. Arun Kumar. R, Associate Professor in the department having experience of 16 years in teaching and research field. He completed his doctoral degree from Visvesvaraya Technological University in the year 2015 and is guiding three students for their Ph. D degree.

The department of Mathematics is recognized as a Research and Development Center (R&D Centre) by Visvesvaraya Technological University, Belgaum and currently five students are pursuing Ph.D in this Center. The department consists of four qualified, experienced and dedicated faculties, who are involved in teaching and research activities.

## Webinars Conducted

1. Sampling Theory
2. Enhance immune system through yoga during the COVID-19 pandemic

## Publications by faculty

**In National /International Journals : 04**

# Department of Physics

## Vision

**To contribute a proficient engineers with strong foundation of fundamentals and advances in physics**

## Mission

- **To impart basic concepts of physics to aspiring engineers enabling excellence in their domain.**
- **To inculcate awareness about the latest developments in applied physics.**

**Prof. Shankar P**
**HOD**

The Department is headed by **Prof. Shankar P**, a highly qualified professor with an experience of more than 15 years. The department has a spacious and well equipped laboratory. Efficient teaching along with the best training in laboratories is the highlights of this department, thus maintaining 90-95 percent aggregate results in the theory examination and 100 percent results in Practical examinations of VTU. The department emphasizes on the importance of practical training to supplement class room teaching. In this connection, all the students are encouraged to conduct experiments on their own. The department provides required materials and gadgets to students to try hands on experience, in practical classes. The department also encourages research, publications of papers and seminars by regular conduction of seminars & guest lecturers by inviting experts from industry, IISc, ISRO and other research organization to keep students abreast with latest trends.

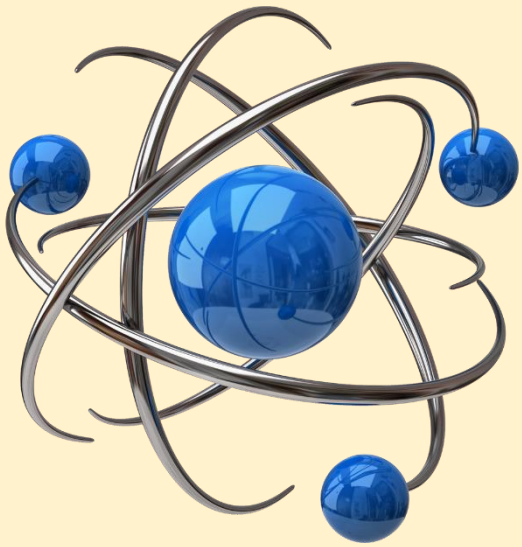
## Webinars Conducted

1. The Physics of Waves for Engineers
2. The Experimental Data analysis and interpretations
3. The Materials with Multifunctional Potential

## Publications by faculty

**In National /International Journals : 02**

**In National /International Conferences : 01**



# Department of Chemistry

## Vision

**Produce knowledgeable graduates for careers in science and technology, future leaders in advanced research in applied chemistry**

**Prof. Raveendra R.S.**
HOD

The department is headed by **Prof. Raveendra R.S**. The department is one of the leading among the basic science streams of Sai Vidya institute of Technology consisting of qualified teaching professionals. The members prepare students to gain knowledge in applied chemistry which is a base for all fields of engineering. The laboratory is built with an area of 250 Sqm to accommodate thirty students at a time for Engineering Chemistry lab class. State-of-the-art equipment is provided in the laboratory for first year students to conduct experiments in engineering chemistry lab included in University curriculum.

The department has been recognized as Research Centre by Visvesvaraya Technological University for conducting Ph.D. Programme. Material science research is carried out continuously in the department by publishing high standard research articles in peer reviewed international journals

## Mission

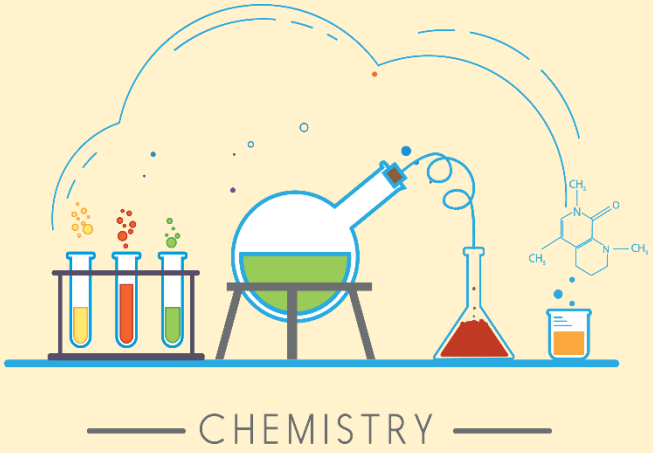
**Escalating students with basic foundations in Engineering Chemistry, to identify and solving problems related to Applied Chemistry.**

## Webinars Conducted

1. Powder X-Ray Diffraction: A powerful tool for the characterization of nanomaterials
2. World of weightlessness: Scientific Approaches and Applications
3. Importance and need of Universal Human Values in Higher Education System
4. Sustainable Development and Biodiversity

## Publications by faculty

**In National /International Journals : 01**



# Institutional
# Clubs
# Cells
# unit profiles

# Department of Training & Placement

## Vision

**To be a Centre of Excellence to develop innovative and competent Engineers & Business Administrators to architect strong India and the World**

## Mission

- **Create awareness among students on their career prospects and align with the best student engagement practices**
- **Upskill students' competencies to engage them in skill development and foster innovative mindset to be frontrunners and meet industry requirements**
- **Establish effective platform for industry-institution interface and involving all stakeholders to facilitate students' career prospects and institutional betterment**

The Department of Training and Placement is aligned with institution's goal to accomplish the Vision and Mission of Sai Vidya Institute of Technology. The Training and Placement Department plays a very important and key role in getting students their dream placement through counselling and guiding the students for their successful Career Placement. It is a crucial interface between the stages of completion of academic program of the students and their entry into avenues of suitable employment through campus placement drives.

The Placement and Training Centre is headed by an experienced and well qualified personality **Dr. Pradeep N.E**. The Training wing consistently researches and interacts with recruiters to understand their expectations from prospective students and creates and executes an annual roadmap for training. Students are trained in Communication, Soft Skills at the first year level itself to prepare them for Industry expectations. Training on Technical, Aptitude and other essential techniques to solve logical and aptitude problems to improvise on their conversational, oratory skills, personality and competency in strengthening the technical concepts is imparted by the end of their third year course. By this process, they are enabled to satisfy the expectations of the industry. Many companies like the quality of our students and are glad to give opportunities to our students

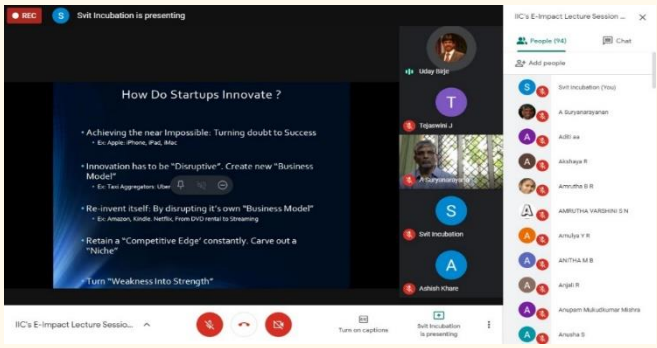
### Activities conducted

**Topic:** Entrepreurship- 'Startup to Scale up' – An Entrepreneurial Journey

**Date of Talk: 4th July 2020**

**Resource Person:**

1. Mr. Uday Birje, Think street Technologies,
2. Mr. Ashish Khare, Mentor Kart,
3. Mr. Suryanarayanan A, NSRCEL – IIM



## Number of Companies Visited : 72

## Number of Offers: 352

| Branches | Students with 60% Through w/o Backlogs | Number of Offers | Students Placed | Min - CTC (in LPA) | Avg - CTC (in LPA) | Max - CTC (in LPA) |
|---|---|---|---|---|---|---|
| CSE | 49 | 96 | 52 | 2 | 4.2 | 8 |
| ISE | 36 | 61 | 34 | 2.4 | 3.8 | 5.4 |
| ECE | 86 | 132 | 84 | 2 | 4 | 7.1 |
| EEE | 15 | 19 | 19 | 3.4 | 3.9 | 4.5 |
| ME | 27 | 26 | 19 | 2.5 | 3.5 | 5 |
| CIV | 22 | 18 | 19 | 2.5 | 3.3 | 4.5 |
| Grand Total | 235 | 352 | 227 | 2 | 3.9 | 8 |

# Department of Physical Education

The Department is headed by **Mr. Vijaya Kumar K** specialized in Athletics, Basket Ball, Volley Ball and Football with an experience of over 16 years. The Sports Department serves as a vital and integral part of student life on campus.

The mission of the department is to provide a broad spectrum of sports, recreation and leisure activities for students, staff and as well as members of the local community. The primary direction is to provide services and programs that stimulate growth, development and retention of students in a contemporary and safe environment that develops fitness and wellness, social interaction and leadership opportunities.

The Department ensures students of Sai Vidya Institute of Technology to be active, healthy, fit and enlightened individuals by offering an academically sound sports, fitness and health programs. At present Physical Education & Sports Department have all major sports and games with fully loaded equipment and upcoming project of multi gym. The students can take part in individual and group events as per the requirement.

**VTU South zone Kho-Kho Tournament**

# National Service Scheme NSS

**The National Service scheme (NSS)** is an Indian government-sponsored public service program conducted by department of Youth Affairs and Sports of the Government of India which was begun in 1969. Its primary aim is personality development through social (or community) service. The NSS motto is **"Not Me, But You"**

The social activities aim to include social welfare in students, and to provide service to society without bias. NSS volunteers work to ensure that everyone who is needy gets help to enhance their standard of living and lead life of dignity. The Sai Vidya Institute of Technology students actively participated in events conducted on behalf of Sai Vidya Institute of Technology NSS unit.

The NSS unit of the college has 100 student members and approved by VTU. The unit is headed by **Dr. Harish H. T**, Chief Librarian & NSS Program Officer. The NSS unit has organized

## Activities Conducted during AY 2020-21

1. **Blood Donation Camp**
2. **Vaccination Drive**

# SARA – SVIT Women Cell

## The Objectives of SARA is

1. **To empower women in knowing the importance of good health, nutrition and facilities available to them.**
2. **To help women in developing decision making abilities and self dependence.**
3. **To help women raising their voice against any discrimination.**
4. **To help women in focusing on the goals to lead life thereby satisfying the MOTTO of SVIT "LEARN to LEAD"**

## Activities Conducted:

1. **The SARA – Women Cell of SVIT had organized a webinar on "Mental Health of Women During COVID-19 Pandemic" by resource person Dr. Vasantmeghna Murthy Assistant Professor, Department of Psychiatry, Krishna Institute of Medical Sciences (KIMS), Maharashtra.**
2. **A webinar on "Basic Mandala Art" for students and faculty members by resource person Ms. Maneesha Pattanshetti Alumni of SVIT, Self-taught Artist and Art Enthusiast, software engineer at Cognizant, Bangalore.**
3. **A webinar on Employment opportunities and Challenges for Women for students and faculty members by resource person Mrs. Manasa Vittal B Alumni of SVIT, Information Security Consultant at NCS Group, Singapore.**

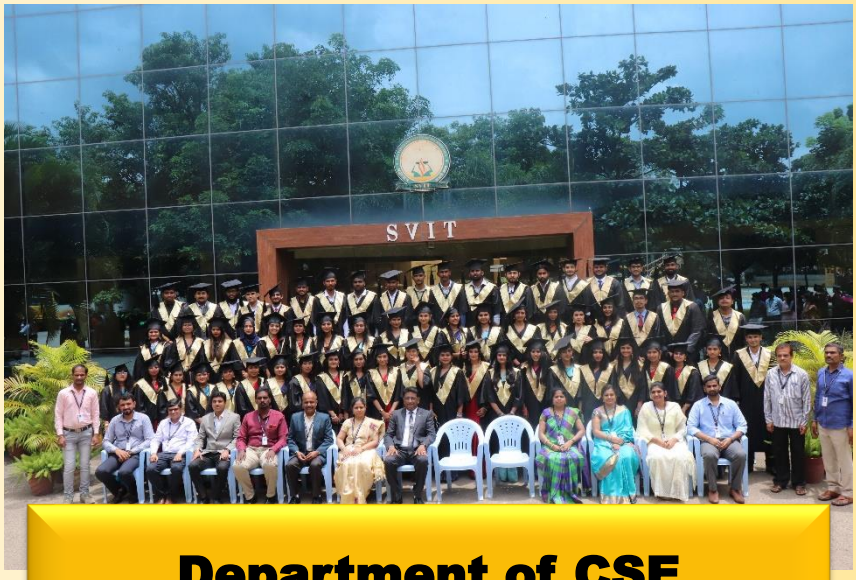
# Group Photos

**Department of ECE - A**

**Department of ECE - B**

**Department of EEE**

## Department of ISE




## Department of CSE

## Department of MBA

**Department of ME**

**Department of CIVIL**

# Best Out going students
# 2016-20 Batch

# Achievements

# PhD Awardees

**Dr Chaya B M**

**Thesis Title :** Design, Analysis and Modeling of OLED based Biosensor
**Guide :** Dr Narayan K
**University :** VTU

**Dr Venkatesh M**

**Thesis Title :** Modeling and Development of Opto-Fluidic Channel for Biosensing Applications
**Guide :** Dr Narayan K
**University :** VTU

**Dr K Srinivas Rao**

**Thesis Title :** Oncological Cell detection using Lab-On-Chip Based Optical Sensor
**University :** VTU

**Dr Madhura K**

**Thesis Title :** Mathematical modeling of Ferro fluids flow of Magnetic targeting Drug Delivery
**University :** VTU

## Book Published

**Name of the Author :** Dr Ramesh Babu H S & Dr. Shantakumar B. Patil

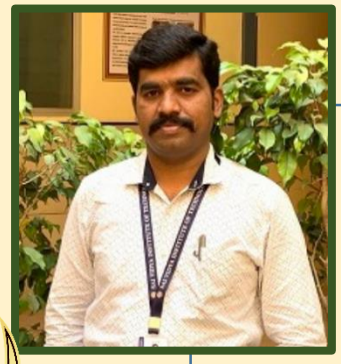
**Title :** An Animated System Simulation Modelling: An Instruction Manual

# Awards and Recognition

**Dr Ramesh Babu H S,** Principal was awarded "**Top 30 Iconic Principal award-2021**" by **Golden Aim awards**

**Dr. Narayan K**, Professor, Dean R&D was awarded "**Best Researcher Award-2020" for the IEEE Bangalore Section Mission# 2020 Challenge** organised by **IEEE Bangalore Section**.

He has been inducted as **Life Member of IEEE-HKN (Eta Kappa Nu)** by International Honour Society of IEEE, IEEE-HKN



**Dr. Venkatesha M,** Associate Professor, Department of ECE was awarded "**Best Teacher Award-2020"** and **"Best Branch Counselor Award-2020**" for **the IEEE Bangalore Section Mission # 2020 Challenge** organized by **IEEE Bangalore Section**

**Prof. Pavan Kumar E,** Assistant Professor, Department of ECE was awarded "**Innovative Professor of the Year- 2020-2021**" by **NEBA - JAIPUR**

| Sl. No | Name of the Inventors | Title of the Patent | National/ International |
|---|---|---|---|
| 1 | Mr. Santosh Reddy P<br>Ms. Mamatha A<br>Ms. Sreelatha P K | Vehicular Blind spot detection and alert system using Artificial Intelligence and methods thereof | National |
| 2 | Mr. Santosh Reddy P | AWS-Cloud Data Performance Improved Using Machine and Deep LearningProgramming | International |
| 3 | Dr T.G.Manjunath | Design And Development Of Real Time Automated Routing Algorithm For Computer Networks | International |
| 4 | Dr T.G.Manjunath<br>Mr.Praveen B.R | Development Of Machine Learning Based Smart Electric Vehicle Battery Management System | National |
| 5 | Dr T.G.Manjunath | An Artificial Intelligence And Iot Based Method For Prevention Of Security Attack On Cloud Medical Data | International |
| 6 | Dr Raghavendra S | AI and IOT Based smart dairy farm with high quality milk productivity | National |
| 7 | Dr Raghavendra S | Design and Development of Supportless 3 D Printing system using FDM Technology | International |
| 8 | Dr Narayan K<br>Dr Venkatesh M | A Silicon on Insulator Based Optical Gas Sensing Device and Its Fabrication Process Thereof | International |
| 9 | Mr. Pavan kumar E | Development of IoT based underground wire | National |
| 10 | Mr. Pavan kumar E | Development of Smart Assistant System for Farmers using Raspberry Pi | National |
| 11 | Mr. Pavan kumar E | IOT and cloud-based Agriculture monitoring system | National |
| 12 | Dr. K Srinivas Rao | Dynamic Device Management frame work for smart industries using OMA-DM IOT Protocol | National |
| 13 | Dr. K Srinivas Rao | General machine learning model for Access Point Placement in re configurable wireless networks | National |

| Sl. No | Name of the Inventors | Title of the Patent | National/ International |
|---|---|---|---|
| 14 | Dr Narayan K<br>Prof.Pavitra G S<br>Prof.Asha K | Modeling and Simulation of Hetrojunction Solar Cell with Photonic Crystal on Photoactive Material | International |
| 15 | Dr Narayan K | Far Field and Near Field Radiation pattern of Gold nano particle in Mie Scattering Phenomenon Modeling using DGTD method | International |
| 16 | Dr Narayan K | A Method of Designing Advertisement Boards Using Conductive 3d Printable Electronic Sensors | International |

## MOU

MoU signed to equip students for industrial world

Today MoU was signed between Sai Vidya Institute of Technology and Lab to Market Innovations Pvt. Ltd. a IISc start-up. Lab to Market (L2M) will be establishing Research Lab on Cyber Signalling System for Railways. Specialised training and internship will be provided to the students by the Lab to Market to make students ready for the real industrial world. Lab to Market was represented by its founders Prof. S. K. Sinha (Retired Senior Professor from IISc), and Mr. Srinivas Rao Ganapati, a serial Entrepreneur. The SVIT was represented by Additional Director A.M Padmareddy, Trustees Prof. Jayasimha, Prof. R. Shanmukaswamy, Mr. Narayana Raju, Principal Dr. H. S. Ramesh Babu, and Dr. Narayan K Dean (R&D). It has been a milestone achievement for our Sai Vidya Institute of Technology.

**SVIT and Lab to Market Innovations Pvt Ltd. (L2M) have an MOU signed on 20th December 2020, where L2M will be establishing their cyber signalling labs on the campus. The students will be provided internships and will work with the company providing them with an opportunity to work with real-time systems and solve real-world challenges**

# Students Achievements

**Mr. Vignesh S,** 8th Sem and **Mr. Sudarshan M K** 6th Sem students under the guidance of **Prof. Pavan Kumar E,** Assistant Professor. Have been awarded as winners of Stage 1 for their project on **"Flight Formation of multiple rotor- craft through coordination flying" at An Innovation Challenge in Small Unmanned Aircraft System Communications** for Students 2020 organized by **IEEE Vehicular Technology Society**. The students have received the cash prize of **Rs.35, 000/-** to develop a working solution for coordination between two UASs.

**Mr.Sunil H Kote**, 6th Sem student presented the paper titled **"Modelling and analysis of silicon nitride based opto fluidic sensors,"** IEEE Photonics Conference (IPC) **2020.** Under the valuable guidance of **Dr. Narayan.K**, Professor, Dean R&D**, Dr. Venkatesha M,** Associate Professor and **Mr. Manoranjan Kumar**, Assistant Professor Department of ECE

**Team W.E** and all girls team was headed by **Ms. Bina R** with team members **Ms. Nandana C H, Ms. Anusha K R, Ms. Bhavana B, Ms. G Kusumanjali, Ms. Navya S** students of 8th Sem under the guidance of **Prof.Pavan Kumar E**, Assistant Professor, Department of ECE emerged as **Joint Winners at Smart India Hackathon**, World's Largest Open Hackathon, Hardware Edition 2020. The students developed a prototype for solving Problem statement **"PR419 Quick Analysis of Seed, Grains and Pluses using AI" a problem statement issued by Department of Science and Technology (DST)**. They have received a cash prize of **Rs.50,000/-** from the Department of Science and Technology for developing the solution

# Students Achievements

**Ms.Bina R**, Chair SVIT SB, 8th Sem Student was invited to deliver a talk on **"IEEE SM Development and Student Career Growth"** organised by The Oxford College of Engineering

**Mr. Sourabh V Bhat**, Student Secretary SVIT SB, 8th Sem Student got selected as a member for the team of Webinar and online training which is a part of the **IEEE India Council's Student Coordination Team for the year 2021**.

**Ms.Bina. R, Ms.Anusha KR, Ms.Bhavana B and Ms.G Kususmanjali**8th Sem Students have co-authored a paper on **"IoT based Smart and Efficient Hearing Aid using ARM Cortex Microcontroller"**under the guidance of **Prof.Pavithra GS**,Assistant Professor,Department of ECE.

- The paper secured **2nd place at the P.R.A.I.S.E Research Showcase poster presentation competition**conducted at IIIT-Delhi on 03/11/2020 in the virtual medium. A cash prize of **Rs.3000/-** was awarded .
- The paper was presented as an idea and secured 2nd Position at **"Chunautee 21: Solutions for Divyangjan"** conducted by Institute Innovation Council (IIC), J C Bose University of Science & Technology YMCA YMCA, Faridabad on 12th -13th March 2021. A cash prize of **Rs.5000/-**was awarded.

# In News

ಹೊಸ ದಿಗಂತ 12
15 Mar 2021

## ಕಿರು ಸುದ್ದಿ

### ಕ್ಷಣಾರ್ಧದಲ್ಲಿ ಬೇಳೆ, ಕಾಳುಗಳ ಅಳತೆ

**ಬೆಂಗಳೂರು:** ರಾಜಾನುಕುಂಟೆಯ ಸಾಯಿ ವಿದ್ಯಾ ಇನ್ಸ್‌ಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿಯ ಎಂಜಿನಿಯರಿಂಗ್ ಅಂತಿಮ ವರ್ಷದ ವಿದ್ಯಾರ್ಥಿಗಳು ಇಂತಹ ಹೊಸ ಆವಿಷ್ಕಾರ ಮಾಡಿದ್ದಾರೆ. ದೊಡ್ಡ ದೊಡ್ಡ ಸಗಟು ಮಾರಾಟ ಕಂಪನಿಗಳು ಖರೀದಿಸುವ ಬೇಳೆ, ಕಾಳುಗಳು, ಎಣ್ಣೆಕಾಳುಗಳ ಗುಣಮಟ್ಟವನ್ನು ತಿಳಿಯಲು ಈ ಸಾಧನ ನೆರವಾಗಲಿದೆ. ಎಂಎಚ್‌ಆರ್‌ಡಿ ವತಿಯಿಂದ ಆಯೋಜಿಸಿದ್ದ ಸ್ಮಾರ್ಟ್ ಇಂಡಿಯಾ ಹ್ಯಾಕಥಾನ್ 2020 ವಿಶ್ವಮಟ್ಟದ ಹ್ಯಾಕಥಾನ್ ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಸಾಯಿವಿದ್ಯಾ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿನಿಯರ ತಂಡ ತಯಾರಿಸಿದ ಕ್ಷಣ ಮಾತ್ರದಲ್ಲೇ ಧಾನ್ಯಗಳ ಗುಣಮಟ್ಟ ತಿಳಿಸುವ ಸಾಧನಕ್ಕೆ ಪ್ರಥಮ ಬಹುಮಾನ ಬಂದಿದೆ.

ಸಾಯಿ ವಿದ್ಯಾ ಇನ್ಸ್‌ಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿಯ ಇಸಿಇ ವಿಭಾಗದ ಪ್ರೊಫೆಸರ್ ಇ. ಪವನ್ ಕುಮಾರ್ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ಸಿ.ಎಚ್. ನಂದನ, ಕೆ.ಆರ್. ಅನುಷ, ಬಿ. ಭಾವನ, ಎಸ್. ನವ್ಯ, ಜಿ. ಕುಸುಮಾಂಜಲಿ ಈ ವಿನೂತನ ಸಾಧನ ಆವಿಷ್ಕರಿಸಿದ್ದಾರೆ.

## ಬೇಳೆ ಕಾಳು ಗುಣಮಟ್ಟ ಸಾಧನ ಆವಿಷ್ಕಾರ

**ಸಂ.ಕ. ಸಮಾಚಾರ, ಬೆಂಗಳೂರು**

ಯಲಹಂಕ ಸಮೀಪದ ರಾಜಾನುಕುಂಟೆಯ ಸಾಯಿ ವಿದ್ಯಾ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿಯ ಎಂಜಿನಿಯರಿಂಗ್‌ನ ಅಂತಿಮ ವರ್ಷದ ವಿದ್ಯಾರ್ಥಿಗಳು ಬೇಳೆ, ಕಾಳುಗಳು, ಎಣ್ಣೆ ಕಾಳುಗಳ ಗುಣಮಟ್ಟವನ್ನು ತಿಳಿಯಲು ಹೊಸ ಸಾಧನವೊಂದನ್ನು ಆವಿಷ್ಕರಿಸಿದ್ದಾರೆ.

ಎಂಎಚ್‌ಆರ್‌ಡಿ ವತಿಯಿಂದ ಆಯೋಜಿಸಿದ್ದ 'ಸ್ಮಾರ್ಟ್ ಇಂಡಿಯಾ ಹ್ಯಾಕಥಾನ್ 2020' ವಿಶ್ವಮಟ್ಟದ ಹ್ಯಾಕಥಾನ್ ಸ್ಪರ್ಧೆಯಲ್ಲಿ ವಿಶ್ವದ ನಾನಾ ಭಾಗಗಳ 300 ಕಾಲೇಜುಗಳ ಪೈಕಿ ಸಾಯಿವಿದ್ಯಾ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿನಿಯರ ತಂಡ ತಯಾರಿಸಿದ 'ಕ್ಷಣ ಮಾತ್ರದಲ್ಲೇ ಧಾನ್ಯಗಳ ಗುಣಮಟ್ಟ ತಿಳಿಸುವ ಸಾಧನ'ಕ್ಕೆ ಪ್ರಥಮ ಬಹುಮಾನ ಬಂದಿದೆ. ಹಾರ್ಡ್‌ವೇರ್ ವಿಭಾಗದಲ್ಲಿ ಜಂಟಿ ವಿಜೇತರಾಗಿದ್ದಾರೆ.

ಈ ಸಾಧನವನ್ನು ಕಳೆದ ವರ್ಷ ಲಾಕ್‌ಡೌನ್ ಆರಂಭವಾದ ವೇಳೆ ಅಂದರೆ ಏಪ್ರಿಲ್‌ನಲ್ಲಿ ಮನೆಯಲ್ಲೇ ಕೂತು ಬಿನಾ ರಾಜನ್ ಅವರ ಮುಂದಾಳತ್ವದಲ್ಲಿ ಸಿ.ಎಚ್. ನಂದನ, ಕೆ.ಆರ್. ಅನುಷ, ಬಿ. ಭಾವನ, ಎಸ್. ನವ್ಯ, ಜಿ. ಕುಸುಮಾಂಜಲಿ ಅವರುಗಳು ಸಾಯಿ ವಿದ್ಯಾ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿಯ ಇಸಿಇ ವಿಭಾಗದ ಪ್ರೊಫೆಸರ್ ಇ. ಪವನ್ ಕುಮಾರ್ ಅವರ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ಈ ವಿನೂತನ ಸಾಧನವನ್ನು ಆವಿಷ್ಕರಿಸಿದ್ದಾರೆ. ಈ ವಿದ್ಯಾರ್ಥಿನಿಯರ ತಂಡ ಆವಿಷ್ಕರಿಸಿರುವ ಸಾಧನದಲ್ಲಿ 40 ಸೆಕೆಂಡುಗಳಲ್ಲಿ ಬೇಳೆಕಾಳುಗಳ ಗುಣಮಟ್ಟವನ್ನು ತಿಳಿಯಬಹುದಾಗಿದೆ.

## ಬೇಳೆ ಗುಣಮಟ್ಟ ಅಳೆವ ಸಾಧನ ಅಭಿವೃದ್ಧಿಪಡಿಸಿದ ವಿದ್ಯಾರ್ಥಿಗಳು

■ ವಿಕ ಸುದ್ದಿಲೋಕ ಬೆಂಗಳೂರು

ಕ್ಷಣಾರ್ಧದಲ್ಲಿ ಬೇಳೆ, ಕಾಳುಗಳ ಗುಣಮಟ್ಟವನ್ನು ಅಳೆಯುವ ಸಾಧನ ಬಂದಿದೆ!

**ಎಸ್‌ವಿಐಟಿ ವಿದ್ಯಾರ್ಥಿಗಳ ಆವಿಷ್ಕಾರ**

ರಾಜಾನುಕುಂಟೆಯ ಸಾಯಿ ವಿದ್ಯಾ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿಯ ಎಂಜಿನಿಯರಿಂಗ್‌ನ ಅಂತಿಮ ವರ್ಷದ ವಿದ್ಯಾರ್ಥಿಗಳು ಇಂತಹ ಹೊಸ ಆವಿಷ್ಕಾರ ಮಾಡಿದ್ದಾರೆ. ದೊಡ್ಡ ದೊಡ್ಡ ಸಗಟು ಮಾರಾಟ ಕಂಪನಿಗಳು ಖರೀದಿಸುವ ಬೇಳೆ, ಕಾಳುಗಳು, ಎಣ್ಣೆಕಾಳುಗಳ ಗುಣಮಟ್ಟವನ್ನು ತಿಳಿಯಲು ಈ ಸಾಧನ ನೆರವಾಗಲಿದೆ.

ಎಂಎಚ್‌ಆರ್‌ಡಿ ವತಿಯಿಂದ ಆಯೋಜಿಸಿದ್ದ 'ಸ್ಮಾರ್ಟ್ ಇಂಡಿಯಾ ಹ್ಯಾಕಥಾನ್- 2020' ಸ್ಪರ್ಧೆಯಲ್ಲಿ ವಿಶ್ವದ ನಾನಾ ಭಾಗಗಳ 300 ಕಾಲೇಜುಗಳ ಪೈಕಿ ಸಾಯಿವಿದ್ಯಾ ಕಾಲೇಜಿನ ವಿದ್ಯಾರ್ಥಿನಿಯರ ತಂಡ ತಯಾರಿಸಿದ 'ಧಾನ್ಯಗಳ ಗುಣಮಟ್ಟ ತಿಳಿಸುವ ಸಾಧನ'ಕ್ಕೆ ಪ್ರಥಮ ಬಹುಮಾನ ಬಂದಿದೆ. ಈ ಸಾಧನವನ್ನು ಕಳೆದ ವರ್ಷ ಲಾಕ್‌ಡೌನ್ ಆರಂಭವಾದ ವೇಳೆ ಅಂದರೆ ಏಪ್ರಿಲ್‌ನಲ್ಲಿ ಮನೆಯಲ್ಲೇ ಕುಳಿತು ಬಿನಾ ರಾಜನ್ ಅವರ ಮುಂದಾಳತ್ವದಲ್ಲಿ ಸಿ.ಎಚ್. ನಂದನ, ಕೆ.ಆರ್. ಅನುಷಾ, ಬಿ. ಭಾವನಾ, ಎಸ್. ನವ್ಯ, ಜಿ. ಕುಸುಮಾಂಜಲಿ ಅವರು ಈ ವಿನೂತನ ಸಾಧನ ಆವಿಷ್ಕರಿಸಿದ್ದಾರೆ. ಸಾಯಿ ವಿದ್ಯಾ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿಯ ಇಸಿಇ ವಿಭಾಗದ ಪ್ರೊಫೆಸರ್ ಇ. ಪವನ್ ಕುಮಾರ್ ಮಾರ್ಗದರ್ಶನ ನೀಡಿದ್ದರು.

**ಕಾರ್ಯಾಚರಣೆ ಹೇಗೆ ?**

ಕಾಳುಗಳ ಗುಣಮಟ್ಟ ಯಾವುದು ಒಳ್ಳೆಯದು, ಯಾವುದು ಸಾಧಾರಣ, ಯಾವುದು ಕೆಟ್ಟದ್ದು ಎಂದು ಮೂರು ವಿಭಾಗಗಳಲ್ಲಿ ಧಾನ್ಯಗಳ ಗುಣಮಟ್ಟವನ್ನು ಸಾಧನವು ನಿರ್ಧರಿಸುತ್ತದೆ. ಕನ್ವೇಯರ್ ಬೆಲ್ಟ್‌ಮೇಲೆ ಬೇಳೆ/ಕಾಳುಗಳನ್ನು ಹಾಕಿ, ತಿರುಗುವಾಗ ಕ್ಯಾಮೆರಾದಲ್ಲಿ ಫೋಟೊ ತೆಗೆಯಲಾಗುವುದು. ಇದರ ಆಧಾರದಲ್ಲಿ ಕಾಳುಗಳ ಗುಣಮಟ್ಟ ತಿಳಿಯುತ್ತದೆ.

ಕೋವಿಡ್ ಲಾಕ್‌ಡೌನ್ ವೇಳೆ ಪರಸ್ಪರ ವಿಡಿಯೋ ಕಾಲ್ ಮೂಲಕವೇ ಚರ್ಚಿಸಿ ನಾವು ಈ ಸಾಧನ ಸಿದ್ಧಪಡಿಸಿದ್ದೇವೆ. ಕಡಿಮೆ ಸಾರ್ಥ್ಯದ ಅಂದರೆ ನೂರು ಗ್ರಾಂ ಬೇಳೆ-ಕಾಳುಗಳನ್ನು ಈ ಸಾಧನದ ಮೂಲಕ ಗುಣಮಟ್ಟ ಅಳೆಯಬಹುದು. ಇದರ ಸಾಮರ್ಥ್ಯವನ್ನು ವಿಸ್ತರಿಸಬಹುದು.

**-ಬಿನಾ ರಾಜನ್**, ತಂಡದ ಮುಖ್ಯಸ್ಥೆ, ಸಾಯಿವಿದ್ಯಾ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ

# Articles

# AN ODD OBSESSION

Diving deep into the ocean of memories…we go deep drowning with a smile on the face and the eyes filled with the the tears reflecting the beautiful memories that we had spent being a student in the school. The fun with the makeup on the annual days, with medals on sports days and the best part, refreshments on the independence and republic days. Those days were so much fun. The excitement eloped in a strand of friendship band, the long waits for a single wish of luck on the day of exams. Seems so common, yet that reminiscence just draws us back to the moment that we all lived being ourselves.

There is always a kind of an odd obsession, when it comes to our childhood and the school days, the school has been a living evidence of our transformation from a kid to a teen, and friends remain the testimony of every experiment, and the teachers who have bared us all the way to mould us into a beautiful sculpture. The beautiful bond that reminisces us of how beautiful the world then was. There was always the zeal, but never was there a place for envy. Every moment spent was just as pure as the flowing water of the river.

We used to dream of growing up, having the freedom of life, to live it… but lately realized, being a kid was the freedom. That was the time, that we actually lived lives. That tender minds, jumping thoughts, seeking its way through the growing years. Those tender childhood, where the only fun was to go to school and just enjoy the life. But then there always used to be a constant excitement, I.e. of growing up. Alas we never then knew, what life actually turns into once we step out of our comfort of school. School is supposed to be the most comforting place. The people around, become cushions over a period of time, teachers become the role models and the building turns into our pavilion.

After years when things turn into memories, we rephrase the past to embrace the moments. However good or bad was the time spent then, once turned into memory, it reconciles its beauty. Remembering the small fights, gets a smile on the face, the punishments that we had got, in the course of saving our friends, reminds us of our friendship. Every memory, every moment, becomes so nostalgic, it makes us realize the change that we have undergone with the time. In the present, we humans have just become so mechanical!!!

Reliving the moments in reality is impossible, yet they live strong in the memories. The biggest thing which we miss of all, is the friendship. The purity that was in the soul of of every friendship unlike the fake world of today. The obsession that will remain forever in the hearts and the memories is the friendship. The pure relation that exists, existed and forever will remain is the beautiful times of the tender and pure friendship

**Ms.Sharanya**
**6th Sem ISE**

# REGRETS: NEVER ENDING STORY!!!

*What goes around, comes back. The all time guest and a friend who is always with us is our own sorrows that ultimately turn into regret. We always carry this baggage along with us. Basic human psychology has one or the other thing for sure to complain about.*

*Everyone have their own tale, but yet none of them are pale. All of us are worth creating a reason to regret at every situation, yet not worth to find the happiness even in the happy moments. We are much capable in looking for reasons to regret than finding the happiness in whats going on. Even at that moment of happiness we are lost in the thoughts, if there is something that we have to pay back in return to this moment. We are molded in such a way so as to fit into the conditions that are laid down by our society, where we forget that we are the people who create the society.*

*We humans have this tendency of fighting over things that are gone, that have become a past. We are worth everything. That remains the truth, but yet another truth that remains unveiled is, we get only that, what we are intended to. The day we understand this, we will live at peace.*

*If you forgive, you forget, if you remember you regret. Let's learn how to let go of things. Let's be a bigger person to forgive all the sorrow's and ill deed's, but the point of is that, we as humans must be ready to forgive not to accept their mistakes, else the human tendency remains of repeat the mistakes until it has been punished. So let's show our greatness to them, not because we are weak, we have the strength to revert back any day, but since we want to keep our relations intact, we just tend to forgive so as to have no regrets of hurting and breaking our relationships.*

*Our brain and thoughts, with the passing time has been molded just to think over everything and find faults.*

*The change in us is bought through the circumstances. Back there in the mind there is something that triggers us, it triggers us to think over and over again…and finally when we find the solution, we finally succeed in finding the reason to regret. The whole life we just keep doing this. Even on the death bed we just regret, that we never really did anything much else than just regretting.*

*The reason to all these remain in the way we receive things. Though we have some brighter side in everything, yet we just get to conclude it to be a problem, that problem for us to regret about. The story is never ending. From an adolescent to an aged all have something to regret about, If some regret of loosing marks some do it for revisiting the scars. 24 hours can have 2 phases of bright and dark, yet it never regrets, as it gives people their opportunities to explore themselves in the bright day and to the secret risers in the pitch dark night. Each example around us teaches us how to lead our lives, probably that's the nature of words. Let's take with us this small moral with us to get on and set the life with #noregrets.*

**Ms. Sharanya**
**6th Sem ISE**

**QUOTE:**

The following is an Article written by Adolf Washington depicting the **'power of Love'**, based on its depth of purity and sanctity, published in Deccan Herald in one of its 'Oasis' Columns, during 2015.

**'But she's still my lovely wife'**

An 80 year-old man with a wounded thumb walked into a hospital to have the sutures removed. It was about 8-30 am. After checking the parameters, the nurse said he will have to wait for the doctor and it would take an hour. He pleaded with nurse, "I have an important appointment at 9-00 am. Could you please arrange for a doctor to have these sutures removed?" Looking at the old man's desperation, she arranged for a doctor and had the sutures removed.

She then asked, "What was the urgency?" He replied, "I have to have breakfast with my wife at 9 am." She enquired, "Would she be angry if you were late?" With tears welling up in his eyes he told the nurse, "No. She no longer recognizes me as her husband. My wife is suffering from Alzheimer's for the last five years. You know, it's a kind of disease where she has lost her memory. She is at a nursing home ever since."

"If she doesn't recognize you then how does it matter?" the nurse said.

He replied with tears: "It does matter. She is still my lovely wife and I recognize her and the love she showed me all these years."
At the matrimonial service at church, the bride and bridegroom make a promise to each other: "I take you as my husband (wife); I promise to be true to you in good times and in bad, in sickness and in health, I will love you and honour you all the days of my life."

If every couple made the promise consciously and in deep faith in God, marriages wouldn't tear apart. St. Paul says, "Love is patient, love is kind, Love is not boastful or arrogant or rude. Love does not insist on its own way; it is not irritable or resentful; it does not rejoice in wrongdoing, but rejoices in the truth. It bears all things, believes all things, hopes all things and endures all things." (Corinthians 13:4-7).

There are situations in life at times, when you may not be repaid for the love you show, but the nobility lies in just loving unceasingly.

A young man convicted of murder stood before the Jury heaping curses upon everyone. He hated everyone, even his own mother. The mother pleaded inconsolably before the judge, “Please pardon my son.” The judge said, “Why do you plead so much for your son, it is of no use. He hates everyone, he hates even you.”

Looking the judge in the eyes, she said: “He does not love me, but I love him, he is my son.”

Moved by the words of the mother, the judge only imposed a penalty and had the young man released. The young man embraced his mother, realized the true meaning of love and turned a new leaf of life.

Hatred breeds hatred, forgiveness breeds forgiveness, love breeds love and triumphs over the toughest hearts.

B S Badrinarayana

PA to Principal

# TIME AND TIDE WAITS FOR NONE

*An evergreen proverb, 'Time and Tide Waits for None', a simple yet very effective. When we hear this, probably it doesn't make much difference as it does when we listen to it. When we listen to something, we go through this process of analysing it in our brain, hence we get through things. So finally when we realize that, the time just keeps going at its constant speed, yet too soon. We just don't realize when the time has just passed, and yet we still remain at the same place. The equilibrium in the life is maintained, only when time and the velocity of life go hand in hand. But we realize it when the time has quite passed by us.*

*Time keeps running irrespective of anyone's presence. As the clock doesn't stop until it drains all the energy from the cell, the same way, the time doesn't stop until all the energy of the earth is strained. That remains the beauty, which reminds us of our duty.*

*We deserve all, desire some and destify the chosen one's. Time gives us all the freedom, all that we deserve, yet we as individuals make our choices. But we are prone to make allegations. We play this game of blame with the time and fate. We humans are very opportunistic. If we get all what we wanted, at some point of life, then we conclude the time to be the best. If things go cross, we just push on the blame onto our fates and the time, where we forget that…the outcome of today is the result of our own actions and decisions.*

*We console people by saying, everything is going to get better with time, but how? What is the time going to do with our destiny. The time runs in the same way as it used to, then how. Well the perfect answer to this is, time brings with it, a ray of hope. The hope that things are going to get back to normal. Hence making us optimistic, to take things easy and make our lives smooth. The ability of time is its stability. It creates that ray of hope to say it loud that, everything can get and will get better when we rift the problems and swift the harmony into life to turn into the sweetness of honey.*

*'TIME' is not just a word, it is an emotion. It is a teacher, which has been teaching us a lot in a long run. It gives us the teachings and opportunities to get along in life at difficult times. Nothing gets easier in life, until we bind with the time and veined our happiness to kickout all the sorrows.*

*We get to know the actual value of time, only once its gone. Things that are left with us are just the memories of the moments spent. There would have been times when we would have rejoiced the moments, it would us given us the titch of it being the best times. Time is a magic. It is at its best, when we are living the moment and gives the best when it turns into a memory. Blame game is an easy task, but acceptance is a bigger mask and capture the happiness in the flask to give us the ever youth warmth…*

Ms. Sharanya
6th Sem ISE

# ROLE OF ARTIFICIAL INTELLIGENCE IN SMART EDUCATION SYSTEM

## ML and AI are essential drivers of innovation and growth in all sectors, including education.

Machine Learning (ML) and Artificial Intelligence (AI) are essential drivers of innovation and growth in all sectors, including education.

While AI-powered technologies have been around for a while in EdTech, the sector has been sluggish in their acceptance. The pandemic, on the other hand, radically altered the scene, pushing educators to rely on tech for virtual instruction. Now, 86 percent of educators believe that technology should be an integral element of education. AI has the potential to improve both learning and teaching, assisting the education industry, simultaneously evolving to benefit both students and teachers.

## Here is how AI can benefit both the students and the educators:

### 1. AI Benefits for Students:

To be precise, a student's sole purpose of going to an educational institute is to get a degree or credential demonstrating their expertise. AI can have a huge impact on students' educational journeys by offering access to the relevant courses, enhancing contact with teachers, and allocating more time to work on other aspects of life. Here are a few examples:

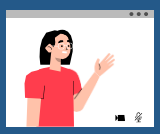
- **Personalization:**

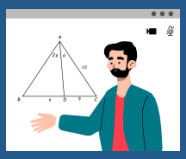
Personalization is one of the most prominent educational trends. Students now have a customized way of learning programs that focus on their own distinct experiences and interests; thanks to AI applications. AI can adjust to each student's level of expertise, learning speed, and desired goals to ensure they get the most from their learning. Furthermore, AI-powered systems can examine students' previous educational histories, detect shortcomings, and recommend courses better suited for improvement, allowing for a highly personalized learning opportunity.

## • Tutoring :

While it is not unusual for kids to require additional assistance outside of the class, many educators would not have the time to assist children after school. While no chatbot can really replace a teacher, AI programs can assist students in honing their skills outside the classroom by helping with improving on weak areas. They offer one-on-one experiential learning without the teacher being available to answer questions at all hours of the day. In addition, an AI-powered bot can respond to queries in 2.7 seconds.

## • Quick Responses:





Nothing is more aggravating than posing a question and having it answered 2 days later. On a regular basis, teachers and instructors are assaulted with repetitious queries. With the support of automation and cognitive intelligence, AI can assist students to get solutions to their most frequently asked questions in seconds. This not only saves teachers a lot of time but also students' time looking for answers or awaiting a response to their inquiries.

## • Universal 24/7 Access :

AI-powered solutions make learning available to all students, at any time and from any location. Each learner has his own pace, and having 24/7 access allows kids to experiment with what works best for them without having to wait for an educator. Furthermore, students from all around the world can obtain high-quality learning without paying travel or living fees.

## 2. AI Benefits for Educators :

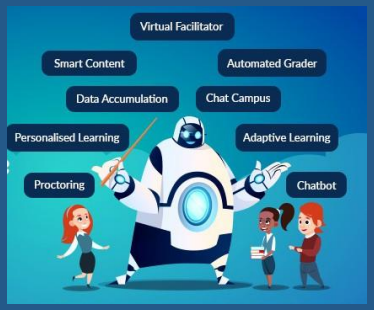
Most teachers and staff aren't ashamed to say they battle with time management, which makes sense given the number of tasks on their daily to-do lists. By automating chores, assessing student performance, and eliminating the educational gap, AI can assist in freeing up teachers' time. Here's how it works:

## • Answering Questions:

AI-powered chatbots with accessibility to a school's entire base of knowledge can answer a range of generic and repetitive inquiries students commonly have without having to contact a faculty member. This way, AI frees up time for teachers to concentrate on curriculum design, coursework research, and ways of increasing student engagement.

## • Task Automation :

AI's potential to automate the most basic job includes tasks such as replacing administrative labour, grading papers, measuring learning patterns, responding to general questions, etc. A Telegraph poll found that teachers spend 31% of their time organizing courses, grading tests, and doing administrative duties. Teachers, on the other hand, can use support automation systems to automate manual tasks, giving themselves more time to concentrate on improving their teaching competency.

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- Ms. Janavi TNJ , 5th Sem CSE

# THE OCEAN

I think we are all just like the ocean. We are all plain, shades of blue. Some darker, some light but all made of water. When the sun is out, we shine gently, we are happy, we are calm. When a storm comes, we express a different side of us where we all have different emotional waves that come crashing down, that we don't really expect. so out of control, sometimes consuming and hurting people that are close to us.

Our thoughts are so vast, spread out so huge. We have a beautiful, unique inside with so many different stories and emotional levels that we let people into. But as you go further down beneath just the surface, we have different zones that we let different people into based on the trust we share and then you get to the deeper , darker , scarier part which most don't know about .

We then have our deep trenches where no one can swim into , dangerous to many. The place that holds our secrets, flaws and insecurities, that we hide from the world, that we don't want to show as we are too afraid to be judged. Hiding it away so that everyone only sees us for the beauty we are on the surface. But this, this is where the real you lies. Only the courageous can survive here. Only the special ones who know their way about your waters, appreciate your flaws- the depths, understand the way you move and your currents, can truly appreciate the gems that these trenches hold.

At the end of the day, everyone loves the ocean. For all its beauty and for all the mystery that it owns. It's an escape to some, from their dead-end jobs and boring lives- a vacation. And to others, who swim in it and surf through its waves for everyday of their life- an addiction. But for all of us it is an important need. A need that has to be taken care of and tended to so that it can serve us with all its glory, without which there wouldn't be normalcy in the world. Each beautiful and elegant, intense and powerful in its own ways, separating it from one another.

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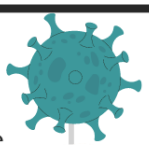
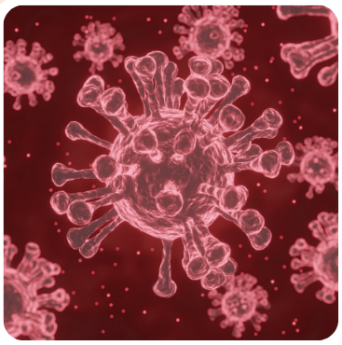
By ANUSHA J , 3rd Sem CSE

# The Covid -19 Pandemic





The COVID-19 pandemic has led to a dramatic loss of human life worldwide and presents an unprecedented challenge to public health, food systems and the world of work. The economic and social disruption caused by the pandemic is devastating ; tens of millions of people are at risk of falling into extreme poverty, increase in unnourished people and unemployment.

Millions of enterprises face an existential threat. Nearly half of the world's 3.3 billion global workforce are at risk of losing their livelihoods. Informal economy workers are particularly vulnerable because the majority lack social protection and access to quality health care and have lost access to productive assets. Without the means to earn an income during lockdowns, many are unable to feed themselves and their families. For most, no income means no food, or, at best, less food and less nutritious food.
The pandemic has been affecting the entire food system and has laid bare its fragility. Border closures, trade restrictions and confinement measures have been preventing farmers from accessing markets, including for buying inputs and selling their produce, and agricultural workers from harvesting crops, thus disrupting domestic and international food supply chains and reducing access to healthy, safe and diverse diets. The pandemic has decimated jobs and placed millions of livelihoods at risk. As breadwinners lose jobs, fall ill and die, the food security and nutrition of millions of women and men are under threat, with those in low-income countries, particularly the most marginalized populations, which include small-scale farmers and indigenous peoples, being hardest hit.

Countries dealing with existing humanitarian crises or emergencies are particularly exposed to the effects of COVID-19. Responding swiftly to the pandemic, while ensuring that humanitarian and recovery assistance reaches those most in need, is critical.
Now is the time for global solidarity and support, especially with the most vulnerable in our societies, particularly in the emerging and developing world. Only together can we overcome the intertwined health and social and economic impacts of the pandemic and prevent its escalation into a protracted humanitarian and food security catastrophe, with the potential loss of already achieved development gains.

Since its outbreak in late December 2019, COVID-19 has wreaked have across the world and like any critical sector, education has been hit hard. Students, schools, colleges and universities have been deeply impacted. According to the United Nations Educational, Scientific and Cultural Organisation (UNESCO), over 800 million learners from around the world have been affected, 1 in 5 learners cannot attend school, 1 in 4 cannot attend higher education classes, and over 102 countries have ordered nationwide school closures while 11 have implemented localised school closure.

This COVID-19 has affected the sources of supply and affects the global economy. There are restrictions on travelling from one country to another country. During travelling, numbers of cases are identified positive when tested, especially when they are taking international visits.5 All governments, health organisations and other authorities are continuously focussing on identifying the cases affected by the COVID-19. Healthcare professionals face a lot of difficulties in maintaining the quality of healthcare these days.

By- ANUSHA J
M Varshitha,
3rd Sem, CSE

# ಬೆಲೆಯಿಲ್ಲದ ಬದುಕು

ಪ್ರೀತಿಗೆ ಕಣ್ಣಿಲ್ಲ
ಕರುಣೆಗೆ ಕಾಲಿಲ್ಲ
ವಿಶ್ವಾಸಕ್ಕೆ ನಾಲಿಗೆಯಿಲ್ಲ
ಸಮಯಕ್ಕೆ ಬೆಲೆಯಿಲ್ಲ.
ದಾನಕ್ಕೆ ಯೋಗ್ಯರಿಲ್ಲ
ಉಚಿತವಾಗಿ ಕೊಟ್ಟರೆಲ್ಲ
ಸೋಮಾರಿಗಳ ಮಾಡಿದರಲ್ಲ
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ದುಡಿಮೆಯ ಬೆಲೆ ಗೊತ್ತಿಲ್ಲ
ಸ್ವಚ್ಛತೆಯ ಅರಿವಿಲ್ಲ
ಎಲ್ಲೆಲ್ಲೂ ಕಸವೆಸೆಯುವರಲ್ಲ
ಕಸ ವಿಂಗಡಣೆಗೆ ಸಮಯವಿಲ್ಲ.
ರಸ್ತೆಗಳು ಹಾಳಾಗುತ್ತಿವೆಯಲ್ಲ
ಬೆಟ್ಟದ ಕಲ್ಲು ಬೆಳೆಯುವುದಿಲ್ಲ
ಇದರ ಅರಿವಿದ್ದರೂ ಎಲ್ಲ
ಟಾರಿನ ಮೇಲೆ ಟಾರು ಹಾಕಿದರಲ್ಲ.
ಪುಸ್ತಕ ಓದುವವರಿಲ್ಲ
ಬರೆಯುವುದ ಮರೆತರಲ್ಲ
ಫೇಸ್ಬುಕ್ನ ದಾಸರಾದರಲ್ಲ
ಸುಮ್ಮನೆ ಫಾರ್ವರ್ಡ್ ಮಾಡುವರೇ ಎಲ್ಲಾ.
ಸೇತುವೆಗಳ ದುರಸ್ತಿಯಿಲ್ಲ
ಯಾವಾಗ ಬೀಳುವುದೋ ಗೊತ್ತಿಲ್ಲ
ತಲೆ ತಿರುಗಿದರೆ ಬದುಕಬಹುದಲ್ಲ
ಭೂಮಿ ತಿರುಗಿದರೆ ಬದುಕೇ ಇಲ್ಲಾ.
ಹೀಗೆ ಹಾಳು ಮಾಡಿದರೆ ಎಲ್ಲ
ಆ ದೇವರಿಗೂ ಸೃಷ್ಟಿಸಲು ಸಮಯವಿಲ್ಲ
ಶತ ಶತಮಾನಗಳವರೆಗೆ ಕಸದಲ್ಲೇ ಬದುಕುವರಲ್ಲ
ಅಜ್ಞಾನದಿಂದ ನಾವೆಂದೂ ಉದ್ಧಾರವಾಗುವುದಿಲ್ಲ.

ಪ್ರೊ. ಸೂರ್ಯನಾರಾಯಣ ಎನ್ ಕೆ
ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು
ಇಸಿಇ ವಿಭಾಗ

# ಜನತೆಗಾಗಿ ವಿಜ್ಞಾನ – ವಿಜ್ಞಾನಕ್ಕಾಗಿ ಜನತೆ

ವಿಜ್ಞಾನವೆಂಬುದು ಇಡೀ ಜಗತ್ತಿನ ಬಗ್ಗೆ ಪ್ರಾಯೋಗಿಕ ಮತ್ತು ಪರೀಕ್ಷಣೀಯ ವಿವರಣೆಗಳನ್ನು ಜನತೆಗೆ ನೀಡುವ ಒಂದು ವ್ಯವಸ್ಥಿತ ಯೋಜನೆ. ಅಥವಾ ಇದನ್ನು ಸುಲಭವಾಗಿ ಹೇಳುವುದಾದರೆ, ಮನುಷ್ಯನಿಂದ ತಿಳಿಯಬಲ್ಲ ವಿಶ್ವದ ಬಗೆಗಿನ ಜ್ಞಾನದ ಸಮೂಹವೆ ವಿಜ್ಞಾನ. ಇಂದಿನ ಜನ ಮಾನಸದ ನಿತ್ಯ ಬಾಳ್ವೆಯಲ್ಲಿ ವಿಜ್ಞಾನ ಕ್ಷೇತ್ರವು ತನ್ನದೆ ಮಹತ್ವದ ಚಾಪು ಮೂಡಿಸಿದೆ ಹಾಗು ನಮಗೆ ಅರಿವಿಲ್ಲದಂತೆ ನಮ್ಮೆಲ್ಲ ವಿವಿಧ ಕ್ಷೇತ್ರಗಳನ್ನೂ ಸಂಪೂರ್ಣವಾಗಿ ಆವರಿಸಿದೆ. ಇದು ಪ್ರಸ್ತುತ ಕಾಲಘಟ್ಟಕ್ಕೆ ಅನಿವಾರ್ಯವು ಕೂಡ. ಭಾರತದ ಮಟ್ಟಿಗೆ ಆಧುನಿಕ ವಿಜ್ಞಾನದ ಪರಿಚಯ ಅತಿ ಹಳೆಯದೇನು ಅಲ್ಲ, ಕೇವಲ ನೂರು ವರ್ಷಗಳಿಂದೀಚೆಗೆ ಬಂದದ್ದೆ ಆದರು ಸಹ ಭಾರತ ಸ್ವಾತಂತ್ರ್ಯ ನಂತರ ವಿಜ್ಞಾನದ ಬೆಳವಣಿಗೆ ಇಮ್ಮಡಿ ಎಂದೆ ಹೇಳಬಹುದು. ಇತ್ತೀಚಿನ ದಿನಗಳಲ್ಲಿ ಅತಿ ಹೆಚ್ಚು ವಿಜ್ಞಾನಿಗಳನ್ನು ಹೊಂದಿರುವ ದೇಶಗಳ ಪೈಕಿ ನಮ್ಮ ಭಾರತವು ಒಂದು ಎಂಬುದು ಗಮನಾರ್ಹ. ಯಾಂತ್ರಿಕ ವಿಜ್ಞಾನ, ವೈಮಾನಿಕ ವಿಜ್ಞಾನ, ಗಣಕ ವಿಜ್ಞಾನದಂತಹ ಆಧುನಿಕ ವಿಜ್ಞಾನಗಳು ಅತ್ಯಂತ ಜನಪ್ರಿಯವೆನ್ನಿಸಿದರೂ ಸಹ ಮೂಲ ವಿಜ್ಞಾನದ ಆವಿಷ್ಕಾರಗಳಿಗೇನು ಕೊರತೆಯಿಲ್ಲ. ಆಧುನಿಕ ವಿಜ್ಞಾನವು ನವನಾಗರೀಕತೆಯ ಬೆಳವಣಿಗೆಗೆ ಹಿಡಿದ ಕನ್ನಡಿಯಾಗಿದೆ. ಮೂಲ ವಿಜ್ಞಾನದಲ್ಲಿ ಹತ್ತು ಹಲವಾರು ವಿಭಾಗಗಳಿದ್ದು, ಪ್ರತಿಯೊಂದು ವಿಭಾಗವು ಸಮಾಜದ ಒಳಿತಿಗಾಗಿ ಉಪಯೋಗಕ್ಕೆ ಬರಬಲ್ಲವು. ಒಂದು ಉತ್ತಮ ಉದಾಹರಣೆ ಎಂದರೆ, ಜನತೆಯ ಪ್ರತಿ ನಿತ್ಯದ ಜೀವನದಲ್ಲಿ ರಸಾಯನ ಶಾಸ್ತ್ರದ ಬಳಕೆ. ರಸಾಯನ ಕ್ರಿಯೆ ಇಲ್ಲದ ಅಥವಾ ಇದರ ಕಾರ್ಯವ್ಯಾಪ್ತಿ ಇಲ್ಲದ ಜಾಗವೆ ಇಲ್ಲ ಎಂದು ಹೇಳಿದರೆ ಅತಿಶಯೋಕ್ತಿಯಾಗದು. ನಮ್ಮ ನಿತ್ಯ ಜೀವನ ಬಹುಪಾಲು ಆನ್ವಯಿಕ ರಸಾಯನ ಶಾಸ್ತ್ರದ ಮೇಲೆಯೆ ಅವಲಂಬಿತವಾಗಿದೆ. ಹಾಗೆಯೆ ವಿಜ್ಞಾನದ ಇತರೆ ವಿಭಾಗಗಳ ಪ್ರಾಧಾನ್ಯ ಇತ್ತೀಚೆಗೆ ಹೆಚ್ಚಾಗಿದ್ದು ಅಡ್ವಾನ್ಸ್ಡ್ ರೀಸರ್ಚ್ ಮೂಲಕ ಮಾನವ ಕುಲದ ಒಳಿತಿಗಾಗಿ ಇದರ ಉಪಯೋಗವಾಗಬೇಕು. ಯಾಂತ್ರಿಕ ವಿಜ್ಞಾನವಂತು ಹೊಸದೊಂದು ರೊಬಾಟಿಕ್ ಲೋಕವನ್ನೆ ಸೃಷ್ಟಿಸಿದೆ. ವೈಮಾನಿಕ ವಿಜ್ಞಾನದಲ್ಲಿ ದಿನಕ್ಕೊಂದು ಹೊಚ್ಚ ಹೊಸತರ ಆವಿಷ್ಕಾರಗಳು ದೇಶದ ಅಭಿವೃದ್ಧಿಯ ದಿಕ್ಕನ್ನೆ ಬದಲಿಸುವಂತಿವೆ. ಇನ್ನು ಮ್ಯಾಕ್ರೊ ಟು ಮೈಕ್ರೊ ಎಂಬ ಮಾತಿನಂತೆ ನ್ಯಾನೊ ವಿಜ್ಞಾನವು ಈ ಯುಗದ ಸೊಗಡು, ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಜಗತ್ತನ್ನೆ ತನ್ನ ತೆಕ್ಕೆಯಲ್ಲಿ ಇರಿಸಿ ನಾಗಾಲೋಟದಲ್ಲಿ ಓಡುತ್ತಿರುವ ವಿಜ್ಞಾನದ ವಿಭಾಗವೆಂದರೆ ಅದು ನ್ಯಾನೊ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ. ಈ ಜಮಾನದಲ್ಲಿ ನ್ಯಾನೊ ಮತ್ತು ಇನ್ನು ಚಿಕ್ಕದಾದ ಕ್ವಾಂಟಮ್ ಡಾಟ್ಸ್ ರೂಪದಲ್ಲಿ ವಿಜ್ಞಾನದ ಸಾಧನಗಳನ್ನು ಮತ್ತು ಸಾಧನೆಗಳನ್ನು ಅನುಭವಿಸುತ್ತಿದ್ದೇವೆ. ತೊಟ್ಟಿರುವ ಬಟ್ಟೆಯ ಮೇಲೆ ಕೊಳೆ ಕೂರದ ರೀತಿ, ವಾಹನದ ಮೇಲೆ ಧೂಳು ಕೂರದ ರೀತಿ, ನೀರಿನ ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಬೆಳ್ಳಿಯ ನ್ಯಾನೊ ಕಣಗಳ ಚಮತ್ಕಾರ, ದೀಪ್ತಿಶೀಲ (ಫ್ಲೋಟೊಲ್ಯುಮಿನಿಸೆನ್ಸ್) ಕ್ಷೇತ್ರದಲ್ಲಿ

ಸತುವಿನ ಆಕ್ಸೈಡ್ ನ್ಯಾನೊ ಕಣಗಳ ಚತುರತೆ, ವೈದ್ಯಕೀಯ ಕ್ಷೇತ್ರದಲ್ಲಿ ಫುಲ್ಲರೀನ್ಸ್ (ಇಂಗೋಲಿ) ಕಣಗಳ ಮಹತ್ವ, ಇಂಗಾಲದ ನ್ಯಾನೊ ಕೊಳವೆ (ಇನ್ಯಾಕೊ) ಗಳ ಮೂಲಕ ದೇಹದ ವಿವಿಧ ಅಂಗಗಳಿಗೆ ಔಷಧೋಪಚಾರ, ಗಣಕ ವಿಜ್ಞಾನದಲ್ಲಿ ಕಲ್ಪನೆಗೂ ಮೀರಿದ ಆವಿಷ್ಕಾರಗಳು, ಗಜಗಾತ್ರದ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಉಪಕರಣಗಳು ಹಿಡಿಗಾತ್ರಕ್ಕೆ ಬಂದ ರೀತಿಗಳನ್ನು ನೋಡಿದರೆ, ಜನತೆಗೆ ಆಧುನಿಕ ವಿಜ್ಞಾನದ ಕೊಡುಗೆ ಅಪಾರವೆನ್ನಬಹುದು. ಈ ಎಲ್ಲಾ ವಿಜ್ಞಾನವು ಜನತೆಗಾಗಿಯೆ ಜನ್ಮವೆತ್ತಿದ್ದು ಎನ್ನಬಹುದು. ನ್ಯಾನೊ ವಿಜ್ಞಾನ ಅಭಿವೃದ್ಧಿ ಕುರಿತು ಸಾಕಷ್ಟು ಅಪಸ್ವರಗಳಿವೆಯಾದರೂ ಈ ಮೇಲಿನ ಎಲ್ಲಾ ವಿವರಣೆಗಳು ಜನತೆಗಾಗಿ ವಿಜ್ಞಾನ ಎಂಬ ಮಾತನ್ನು ಸಾಕ್ಷೀಕರಿಸುವಂತಿವೆ.

ಇನ್ನು ವಿಜ್ಞಾನಕ್ಕಾಗಿ ಜನತೆ ಎಂಬುದರ ಅರ್ಥ ಅಪಾರವಾದುದು. ತಿಳುವಳಿಕೆಗಳು ಅಳವಡಿಕೆಯಲ್ಲಿ ಸೋಲುತ್ತವೆ ಎಂಬ ಮಾತಿನಂತೆ, ಇಂದಿನ ಜನತೆ ಓದಿದ್ದೆ ಒಂದು ಮಾಡುವುದು ಇನ್ನೊಂದು. ಮೂಲ ವಿಜ್ಞಾನ ಅಥವಾ ಆನ್ವಯಿಕ ವಿಜ್ಞಾನದಲ್ಲಿ ಪದವಿ ಗಳಿಸಿದರೂ ಸಹ ಅಥವಾ ವಿಜ್ಞಾನ ಶಿಕ್ಷಕರಾಗಿ ವಿಜ್ಞಾವವನ್ನೆ ಮಕ್ಕಳಿಗೆ ಬೋಧಿಸುತ್ತಿದ್ದರೂ ಸಹ ಅದನ್ನು ಕೇವಲ ದುಡಿಮೆಗಾಗಿ ಎಂದು ಅರ್ಥೈಸುವವರೆ ಹೆಚ್ಚು. ದುಡಿಮೆಯ ನಂತರದ ಜೀವನಶೈಲಿಯೆ ಬೇರೆಯಾಗಿರುತ್ತದೆ. ಅನವಶ್ಯಕ ಮೂಢನಂಬಿಕೆಗಳಿಗೆ, ಕಂದಚಾರಗಳಿಗೆ ಮಾರು ಹೋಗುವುದನ್ನು ನೋಡಬಹುದು. ಪ್ರತಿಷ್ಠಿತ ವಿಜ್ಞಾನ ಕೇಂದ್ರಗಳು ಕೇವಲ ಹಣಗಳಿಕೆಯ ಮೂಲವಾಗದೆ, ಸಮಾಜದ ಒಳಿತಿಗಾಗಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಬೇಕು. ವಿಜ್ಞಾನಿಗಳು ಈಗಾಗಲೆ ಚಂದ್ರನನ್ನು ತಲುಪುವಲ್ಲಿ ಯಶಸ್ವಿಯಾಗಿದ್ದಾನೆ. ಹಾಗಿದ್ದರು ಕೂಡ ಗ್ರಹಣಗಳ ಮೇಲಿನ ಮೂಢನಂಬಿಕೆ ಮಾತ್ರ ಮಾಸಿಲ್ಲ. ಕ್ಯಾನ್ಸರ್ ನಂತಹ ಮಾರಕ ಕಾಯಿಲೆಗಳಿಗೆ ಆಸ್ಪತ್ರೆಗಳಿಗಿಂತ ಹೆಚ್ಚಾಗಿ ಅನ್ಯ ಮಾರ್ಗ (ಪವಾಡ) ಅನುಸರಿಸುವವರಲ್ಲಿ ಅವಿದ್ಯಾವಂತರಿಗಿಂತ ವಿದ್ಯಾವಂತರೆ ಹೆಚ್ಚು. ಈ ರೀತಿಯ ಮನೋಭಾವನೆಗಳು ಮೊದಲು ಬದಲಾಗಬೇಕು. ಹಲವಾರು ವರ್ಷಗಳಿಂದ ಎದುರಿಸುತ್ತಿರುವ ಜಟಿಲ ಮತ್ತು ಸೂಕ್ಷ್ಮ ಸಮಸ್ಯೆಗಳಿಗೆ ವೈಜ್ಞಾನಿಕ ಮಾರ್ಗಗಳಿಂದ ಮಾತ್ರ ಪರಿಹರಿಸಲು ಸಾಧ್ಯ ಎಂಬ ಅರಿವು ಮೂಡಿಸಬೇಕು. ವಿಜ್ಞಾನದ ಅವಶ್ಯಕತೆ, ಅರಿವುಗಳು ಜನಸಾಮಾನ್ಯರ ಬಳಿಗೆ ತಲುಪಿಸುವ ವ್ಯವಸ್ಥೆಯಾಗಬೇಕು, ವಿಜ್ಞಾನವನ್ನು ತಮ್ಮ ತಮ್ಮ ಮಾತೃ ಭಾಷೆಯ ಮೂಲಕ ಸರಳ ರೀತಿಯಲ್ಲಿ ಕಲಿಸುವ ಕೆಲಸವಾದಾಗ ಮಾತ್ರ, ಸುಲಭವಾಗಿ ಜನತೆ ವಿಜ್ಞಾನದ ಕಡೆ ಗಮನ ಹರಿಸುತ್ತಾರೆ. ಸಮಾಜದ ಸುಧಾರಣೆಯಲ್ಲಿ ವಿಜ್ಞಾನ ಕಲಿತವರ ಪಾತ್ರ ಹಿರಿದಾದುದು. ಪ್ರಾಥಮಿಕ ಶಾಲಾ ಮಟ್ಟದಿಂದಲೆ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ವಿಜ್ಞಾನ ಕುರಿತಾದ ಶಿಕ್ಷಣವನ್ನು ಪ್ರಯೋಗಾತ್ಮಕವಾಗಿ ವಿವರಿಸಬೇಕು. ಜನತೆ ವೈಜ್ಞಾನಿಕ ಉಪಕರಣಗಳನ್ನು ಕೇವಲ ಬಳಸದೆ ಅದರ ಹಿಂದಿರುವ ವಿಜ್ಞಾನವನ್ನು ಅರಿಯುವಂತಾಗಬೇಕು. ಈಗಾಗಲೆ ಮೊಬೈಲ್ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಇದರ ಬಳಕೆ ಪ್ರತಿ ಹಳ್ಳಿ ಹಳ್ಳಿಯ ಮೂಲೆಯನ್ನು ಸೇರಿದ್ದಾಗಿದೆ, ಹೀಗೆಯೆ ಪ್ರತಿಯೊಂದು ಜನಪ್ರಿಯ ವಿಜ್ಞಾನವು ಜನಸಾಮಾನ್ಯರ ಕೈ ಸೇರಬೇಕು ಮತ್ತು ಅದರ ಅರಿವು ಇರಬೇಕು. ಈ ನಿಟ್ಟಿನಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳಾಗಲಿ, ಬೋಧಕರಾಗಲಿ, ವಿಜ್ಞಾನಿಗಳಾಲಿ ಅಥವಾ ಪೋಷಕರಾಗಲಿ ವಿಜ್ಞಾನದ

ಅವಶ್ಯಕತೆಗಳನ್ನು ಅರಿತು ಅದನ್ನು ತಮ್ಮ ಜೀವನದಲ್ಲಿ ಋಣಾತ್ಮಕವಾಗಿ ಅಳವಡಿಸಿಕೊಂಡಿದ್ದೆ ಆದಲ್ಲಿ ವಿಜ್ಞಾನದ ಉಪಯೋಗ ಸಾರ್ಥಕವಾಗುವುದರಲ್ಲಿ ಯಾವುದೆ ಸಂದೇಹವಿಲ್ಲ. ಒಟ್ಟಾರೆ ಜನತೆಯಲ್ಲಿ ವೈಜ್ಞಾನಿಕ ದೃಷ್ಟಿಕೋನ ಹೆಚ್ಚಾಗಬೇಕು. ಈ ಮೇಲಿನ ವಿವರಣೆ ವಿಜ್ಞಾನಕ್ಕಾಗಿ ಜನತೆ ಎಂಬ ಮಾತನ್ನು ಸಾಕ್ಷೀಕರಿಸುತ್ತವೆ.

ಕೊನೆಯ ಮಾತು. ವಿಜ್ಞಾನ ಸಮಾಜಕ್ಕೆ ಎಷ್ಟು ಪೂರಕವೊ ಅಷ್ಟೆ ಮಾರಕವು ಹೌದು! ಸಮಾಜದ ಒಳಿತಿಗಾಗಿ, ದೇಶದ ಅಭಿವೃದ್ಧಿಗಾಗಿ ವಿಜ್ಞಾನವನ್ನು ಉಪಯೋಗಿಸಿದ್ದೆ ಆದರೆ ವಿಜ್ಞಾನ ಪೂರಕವೆ ಹೊರತು ಮಾರಕವಾಗದು.

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## ಷಡ್ವರ್ಗಗಳು ಮಿತ್ರರೋ ಅಥವಾ ಶತ್ರುಗಳೋ

ಮೊದಲು ಷಡ್ವರ್ಗಗಳು ಎಂದರೇನು ಎಂಬುದನ್ನು ತಿಳಿಯೋಣ ಬನ್ನಿ –

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|---|---|
| ಕಾಮ | :ಕಾಮನೆಗಳು, ಬಗೆಬಗೆಯಾದ ಆಸೆಗಳು. |
| ಕ್ರೋಧ | :ಕೋಪ ಅಥವಾ ಸಿಟ್ಟು |
| ಲೋಭ | :ಮೋಸ, ದಗ ಅಥವಾ ವಂಚನೆ |
| ಮೋಹ | :ಆಕರ್ಷಣೆ |
| ಮದ | :ಕೊಬ್ಬು ಅಥವಾ ಅಹಂಕಾರ |
| ಮಾತ್ಸರ್ಯ | :ಹೊಟ್ಟೆಕಿಚ್ಚು ಅಥವಾ ಹೊಟ್ಟೆಯುರಿ |

ಮೇಲೆ ಹೇಳಿದ ಆರೂ ವರ್ಗಗಳು ಎಲ್ಲ ಮನುಷ್ಯರಲ್ಲೂ ಇರುತ್ತದೆ. ಇಲ್ಲವೆಂದರೆ ಮನುಷ್ಯ ದೇವರಾಗಿಬಿಡುತ್ತಾನೆ. ಈ ಲೌಕಿಕ ಬದುಕಿಗೆ ಈ ಎಲ್ಲಾ ವರ್ಗಗಳೂ ಅತ್ಯವಶಕ ಎಂದರೆ ಅಚ್ಚರಿ ಏನಲ್ಲ. ಏಕೆಂದರೆ ಅವು ಸಾಧಾರಣ ಮನುಷ್ಯನ ಜೀವನದ ಹಾದಿಯ ಉದ್ದಕ್ಕೂ ಅಂಟಿಕೊ0ಡಿರುತ್ತದೆ. ಇವುಗಳ ವಿಶ್ಲೇಷಣೆ ಈ ಕೆಳಕಂಡ0ತಿದೆ.

**ಕಾಮ:** ಎಂದರೆ ಕಾಮನೆಗಳು ಅಥವಾ ಆಸೆಗಳು. ಆಸೆ ಎಂಬುದು ಇಲ್ಲದೇ ಹೋದರೆ ಮನುಷ್ಯನಿಗೆ ಚಾಲನಾ ಶಕ್ತಿ ಎಂಬುದೇ ಇರುವುದಿಲ್ಲ. ಅದು ಮಿತವಾಗಿದ್ದರೆ ಹಿತವಾಗಿರುತ್ತದೆ. ಮಿತಿ ಮೀರಿದರೆ ಅದು ದುರಾಸೆಯೆನಿಸಿಕೊಳ್ಳುತ್ತದೆ. ಮಾತ್ರವಲ್ಲ, ಕಷ್ಟ ಕಾರ್ಪಣ್ಯಗಳತ್ತ ಮನುಷ್ಯನನ್ನು ಕೊಂಡೊಯ್ಯುತ್ತದೆ.

**ಕ್ರೋಧ:** ಎಂದರೆ ಸಿಟ್ಟು ' ಕೈಲಾಗದವನು ಮೈ ಪರಚಿಕೊಂಡ ' ಎಂಬAತೆ, ಯಾವುದೇ ತರಹದ 'ಅಸಾಮರ್ಥ್ಯ' ಕೋಪವನ್ನು ಹುಟ್ಟುಹಾಕುತ್ತದೆ. ವಿಶೇಷವಾಗಿ ಅಂದುಕೊAಡದ್ದು ಆಗದೇ ಇದ್ದಾಗ ಅಥವಾ ಯಾರಾದರೂ ನಮ್ಮ ಇಚ್ಛೆಗಳಿಗೆ ಅಡ್ಡಿ ಬಂದಾಗ ಅಥವಾ ನಾವು ನಮ್ಮ ಜತೆಗಾರರಿಗಿಂತಲೂ ಹಿಂದೆ ಬಿದ್ದಾಗ, ಬೇರೆಯವರು ನಮ್ಮ ತಪ್ಪನ್ನು ಎತ್ತಿ ತೋರಿಸಿದಾಗ, ಬೇರೆಯವರು ನಮ್ಮ ಜೀವನದಲ್ಲಿ ಅನಾವಶ್ಯಕವಾಗಿ ಮೂಗು ತೂರಿಸಿದಾಗ ನಮಗೆ ಸಿಟ್ಟು ಉಂಟಾಗುತ್ತದೆ. ಆದರೆ, ಕೋಪವಿಲ್ಲದವನು ಛಲಗಾರನಾಗಲಾರ ಹಾಗಾಗಿ ಏನ್ನನ್ನೂ ಸಾಧಿಸಲಾರ. ಯಾವುದೇ ಕೆಲಸ ಮಾಡಬೇಕಾದರೂ ಛಲವೆಂಬುದಿರಬೇಕು. ಕ್ರೋಧವು ಸಾಮರ್ಥ್ಯವನ್ನು ಹುಟ್ಟು ಹಾಕುತ್ತದೆ. ಅದನ್ನು ಸರಿಯಾದ ಗುರಿಯತ್ತ ಪ್ರವಹಿಸುವ ಹಾಗೆ ನೋಡಿಕೊಳ್ಳಬೇಕು ಅಷ್ಟೆ !

**ಲೋಭ:** ಎಂದರೆ ಮೋಸ ಮಾಡುವಿಕೆ ಅಥವಾ ನಿಯತ್ತಿಲ್ಲದಿರುವಿಕೆ ಅಥವಾ ಪರರ ಸ್ವತ್ತನ್ನು ಸುಮ್ಮನೆಯಾದರೂ ತನ್ನದಾಗಿಸಕೊಳ್ಳಬೇಕೆಂದು ಹಂಬಲಿಸುವಿಕೆ. ಈ ಗುಂಪಿಗೆ ಮೈಗಳ್ಳನೂ, ಕಾಳಸಂತೆಕೋರನೂ, ಸುಮ್ಮನೆ ಕೂತು ಜೀತವನ್ನು ಪಡೆಯುವವನೂ, ಒಬ್ಬರ ಕಷ್ಟಕ್ಕೆ ತನ್ನ ಕೈಯ್ಯಲ್ಲಿ ಸಹಾಯ ಮಾಡಲು ಸಾಧ್ಯವಿದ್ದರೂ ಸಹಾಯ ಮಾಡದಿರುವವನೂ ಸೇರುತ್ತಾನೆ. ಆದರೆ ಹಣಕಾಸಿನ ವಿಷಯದಲ್ಲಿ ಲೆಕ್ಕಚಾರವಿರಲೇ ಬೇಕು ಮತ್ತು ಗೋಪ್ಯವನ್ನು ಕಾಯ್ದುಕೊಳ್ಳಬೇಕಾಗುತ್ತದೆ ಎಂಬುದು ಮರೆಯಬಾರದು. ಆದರೂ ಮಾನವೀಯತೆಗೆ ಆಧ್ಯತೆ ನೀಡಬೇಕಾಗುತ್ತದೆ.

**ಮೋಹ:** ಎಂದರೆ ಆಕರ್ಷಿಸುವಿಕೆ. ರೂಪ, ಯೌವ್ವನ, ವಿಶೇÃಷವಾದಂತಹ ಹಣಕಾಸಿನ ಅಥವಾ ವಿದ್ಯೆಯ ಅಥವಾ ಪದವಿಯ ಅಥವಾ ರಾಜಕೀಯವಾದ ಅಥವಾ ಇನ್ನಾವುದೇ ರೂಪದಲ್ಲಿ ತನ್ನ ಸುತಮುತ್ತಲಿನಲ್ಲಿ ಇರುವವರನ್ನು ಆಕರ್ಷಿಸುವುದು ಮತ್ತು ಆತರಹದ ಆಕರ್ಷಣೆಯಿಂದ ಸ್ವಾರ್ಥಪರತೆಯಿಂದ ಲಾಭ ಪಡೆಯುವುದು. ಆದರೇ, ಜ್ಞಾನಿಯು ಮೋಹವನ್ನು ಸಮಾಜದ ಒಳಿತಿಗಾಗಿ ಉಪಯೋಗ ಮಾಡಿಕೊಳ್ಳುತ್ತಾನೆ.

**ಮದ:** ಮದವೆಂಬುದು ನಮಗೆ ಕೊತ್ತಿಲ್ಲದಯೇ ನಮ್ಮಲ್ಲಿ ಬೆಳೆಯುವ ಒಂದು ಗುಣ. ತಕ್ಕಮಟ್ಟತಿಗೆ ಎಲ್ಲರಲ್ಲೂ ಮದವೆಂಬುದು ಇದ್ದೇ ಇರುತ್ತದೆ. ಕೊಬ್ಬು ಎಷ್ಟರ ಮಟ್ಟಿಗೆ ಇರಬೇಕೋ ಅಷ್ಟರ ಮಟ್ಟಿಗೆ ಇದ್ದರೆ ಅದು ಪ್ರಾಕೃತಿಕ ಎಂದೆನಿಸಿಕೊಳ್ಳುತ್ತದೆ. ತದ್ವಿರುದ್ಧವಾಗಿ, ಅದು ಹೆಚ್ಚಾದರೆ ಅದು ಅಪ್ರಾಕೃತಿಕವಾಗುತ್ತದೆ ಮತ್ತು ಅದು ಬೇರೆಯವರಿಗೆ ಅಸಹನೀಯವಾಗುತ್ತದೆ. ಆದರೆ, ಪ್ರತಿ ವ್ಯಕ್ತಿಯ ಸ್ಥಾನಮಾನಗಳ ಆಧಾರದ ಮೇಲೆ ತಕ್ಕ ಗಾಂಭೀರ್ಯಕ್ಕೆ ಅನುಗುಣವಾಗಿ ಮದವಿರುವುದು ಸಹಜವೆನಿಸುವುದು.

**ಮಾತ್ಸರ್ಯ:** ಎಂದರೆ ಹೊಟ್ಟೆಕಿಚ್ಚು. ಮಾತ್ಸರ್ಯವನ್ನು ಒಳ್ಳೆಯ ನಿಟ್ಟಿನಲ್ಲಿ ತೆಗೆದುಕೊಂಡಾಗ ಫಲವಾಗಿ ಪರಿಣಮಿಸಿ ಉಪಯೋಗವಾಗುವಂತಹ ಸಾಧನೆಗಳೆಡೆಗೆ ಕೊಂಡೊಯ್ಯುತ್ತದೆ. ಉದಾಹರಣೆಗೆ ಕುಶಿಕನೆಂಬ ರಾಜ ವಸಿಷ್ಠರ ಸಾಮರ್ಥ್ಯವನ್ನು ನೋಡಿ ಮಾತ್ಸರ್ಯದಿಂದೊಡಗೂಡಿಯಲ್ಲವೇ ಅಸಾಧಾರಣ ಸಾಧನೆಗಳನ್ನು ಮಾಡಿ ವಿಶ್ವಾಮಿತ್ರನಾದುದು, ನಂತರ ಬ್ರಹ್ಮರ್ಷಿಯಾದುದು, ಮತ್ತು ಕೊನೆಗೆ ಸಪ್ತರ್ಷಿಗಳಲ್ಲಿ ಒಬ್ಬನಾದುದು. ತದ್ವಿರುದ್ಧವಾಗಿ ಹೊಟ್ಟೆಕಿಚ್ಚನ್ನು ಜೀರ್ಣಿಸಿಕೊಳ್ಳಲಾಗದ ಮನುಷ್ಯ ಇನ್ನೊಬ್ಬರ ಉನ್ನತಿಯನ್ನು ಕಂಡು ಅವರನ್ನು ಉನ್ನತಮಟ್ಟದಿಂದ ದಬ್ಬುವ ಅಥವಾ ನಾಶಮಾಡುವ ಕೆಲಸಕ್ಕೆ ಕೈ ಹಾಕಿ ಗುರಿಯತ್ತ ಕಾಯ ವಾಚ, ಮನಸಾ ದುಡಿಯಲು ಮುಂದಾಗುತಾನೆ.

ಈ ಆರು ವರ್ಗಗಳು ದೇಹವೆಂಬ ರಥಕ್ಕೆ ಬುದ್ಧಿ ಎಂಬ ಲಗಾಮಿನಿಂದ ಕಟ್ಟಿದ ಆರು ಕುದುರೆಗಳು. ಅದಕ್ಕೆ ಮನಸೇ ಸಾರಥಿ. ಚಿತ್ತವು ಯಜಮಾನ. ಈ ಯಜಮಾನನಾದ ಚಿತ್ತವು ಆತ್ಮ ಸ್ವರೂಪವಾದದ್ದು. ಇದನ್ನೇ ಮನಸ್ಸಾಕ್ಷಿ ಎಂದು ಕರೆಯುವರು. ಇದು ಸಂದರ್ಭಕ್ಕನುಸಾರವಾಗಿ ಏನು ಮಾಡಬೇಕು ಏನು ಮಾಡಬಾರದು; ಮಾಡಬೇಕಾದುದನ್ನು ಹೇಗೆ ಮಾಡಬೇಕು, ಹೇಗೆ ಮಾಡಬಾರದು; ಯಾವ ಜಾಗದಲ್ಲಿ ಮಾಡಬೇಕು, ಯಾವ ಜಾಗದಲ್ಲಿ ಮಾಡಬಾರದು; ಇತ್ಯಾದಿ, ಮಾರ್ಗದರ್ಶನವನ್ನು, ಮಾಡುತ್ತಿರುತ್ತದೆ. ಆದರೆ, ಈ ಆರು ಕುದುರೆಗಳನ್ನು ಹತೋಟಿಯಲ್ಲಿಟ್ಟುಕೊಂಡಿರುವುದು ಸಾಧಾರಣದ ಮಾತಲ್ಲ. ಅದು ಅತಿ ಕಠಿಣವೆಂದೇ ಹೇಳಬಹುದು. ಆದುದರಿಂದ, ಮನಸ್ಸೆಂಬ ಸಾರಥಿಯು ಸಮರ್ಥವಾಗಿದ್ದರೆ ಮಾತ್ರ ಈ ಮೇಲೆ ಹೇಳಿದ ಆರು ಕುದುರೆಗಳನ್ನು ಬುದ್ಧಿ ಎಂಬ ಲಗಾಮಿನಿಂದ ಹತೋಟಿಯಲ್ಲಿಟ್ಟುಕೊಂಡಿದ್ದು ಶರೀರವೆಂಬ ರಥವನ್ನು ಚಿತ್ತವೆಂಬ ಯಜಮಾನನ ಮಾರ್ಗದರ್ಶನದಂತೆ ನ್ಯಾಯವಾಗಿ ಯಾವ ದಿಕ್ಕಿನಲ್ಲಿ ಸಾಗಬೇಕೋ ಆ ದಿಕ್ಕಿನಲ್ಲಿ ಸಾಗುವ ಹಾಗೆ ಮಾಡುತ್ತದೆ. ಹಾಗಾದಲ್ಲಿ ಮಾತ್ರ ಮನುಷ್ಯ ಜೀವನದ ಪ್ರತಿಯೊಂದು ಹಂತದ ಗುರಿಯನ್ನು ಸಮಯಕ್ಕೆ ಸರಿಯಾಗಿ ಮತ್ತು ಯಶಸ್ವಿಯಾಗಿ ತಲುಪಲು ಈ ವರ್ಗಗಳು ಸಹಕಾರಿಯಗುತ್ತವೆ. ಹಾಗೆ ಪಳಗಿಸಿಟ್ಟ ಕುದುರೆಗಳನ್ನು (ವರ್ಗಗಳನ್ನು) ವಿಧೇಯವಾದ ಅಥವಾ ಮಿತ್ರ ಷಡ್ವರ್ಗಗಳೆಂದು ಪರಿಗಣಿಸಲಾಗುತ್ತದೆ. ಅಂತೆಯೇ, ಎಲ್ಲ ವರ್ಗಗಳನ್ನು ಮೈಗೂಡಿಸಿಕೊಂಡು ಬೆಳೆಯುವ ಮನುಷ್ಯ ಇವುಗಳು ಯಾವ ಯಾವ ಪ್ರಮಾಣದಲ್ಲಿ ಇರಬೇಕೆಂದು ತಿಳಿದುಕೊಂಡು ಅದರಂತೆ ಬದುಕಿದರೆ ಎಲ್ಲ ವರ್ಗಗಳೂ ಜೀವನಕ್ಕೆ ಸಕಾರಾತ್ಮಕವಾಗಿರಬಲ್ಲದು ಮತ್ತು ಅಂತಹ ಮನುಷ್ಯ ಉತ್ತಮ ಪ್ರಜೆಯಾಗಲು ಸಾಧ್ಯವಾಗುತ್ತದೆ.

ಹಾಗಾಗದೇ, ಚಿತ್ತದ ಮಾರ್ಗದರ್ಶನವನ್ನು ಮನಸ್ಸು ಪರಿಣಿಸದಿದ್ದರೂ ಅಥವಾ ಹಾಗೆ ಪರಿಗಣಿಸಲ್ಪಟ್ಟ ಮನಸ್ಸೆಂಬ ಸಾರಥಿಯ ಹತೋಟಿಗೆ ಷಡ್ವರ್ಗಗಳೆಂಬ ಕುದುರೆಗಳು ಸಿಗದೇ ಸ್ವೇಚ್ಛೆಯಿಂದ ಓಡಿದರೂ ಶರೀರವೆಂಬ ರಥದ ಗತಿಯೂ ಆಧೋಗತಿಯಗುತ್ತದೆ! ಆಗ ಈ ಷಡ್ವರ್ಗಗಳೆಂಬ ಕುದುರೆಗಳನ್ನು ಶತ್ರುಷಡ್ವರ್ಗ ಅಥವಾ ಅರಿ(ಶತ್ರು)ಷಡ್ವರ್ಗಗಳೆಂದು ಪರಿಗಣಿಸಲಾಗುತ್ತದೆ.

ಆದುದರಿಂದ ಪ್ರತಿಯೊಬ್ಬನಲ್ಲೂ ಷಡ್ವರ್ಗಗಳು ಮಿತ್ರರೋ ಅಥವಾ ಶತ್ರುಗಳೋ ಎಂಬುದು, ಚಿತ್ತದ ಮಾರ್ಗದರ್ಶನಕ್ಕೊಳಪಟ್ಟು, ಒಳ್ಳೆಯ ವಿದ್ಯೆ, ತರ್ಕಬದ್ಧ ಬುದ್ಧಿ, ಸರಿತಪ್ಪುಗಳ ನಿಖರವಾದ ಜ್ಞಾನ, ವಿನಯ, ಸಂಯಮ, ಭಯ, ಭಕ್ತಿ, ಕರುಣೆ, ತನ್ನ ಕೆಲಸದಿಂದ ಇತರರಿಗೆ ಆಗಬಹುದಾದ ಒಳಿತು ಕೆಡಕುಗಳ ಬಗ್ಗೆ ನಿಗ, ಪರಿಣಾಮಗಳ ಬಗ್ಗೆ ತಿಳುವಳಿಕೆ, ಮನಸ್ಸಾಕ್ಷಿ, ಸತ್ಯವನ್ನು ಕಾಪಾಡಲು ಬೇಕಾದ ಧೈರ್ಯ ಮತ್ತು ಸ್ಥöÊರ್ಯ ಜ್ಞಾನಿಗಳ ಹಾಗೂ ತಿಳಿದಂತಹವರ ಜತೆ ಒಡನಾಟ, ಎಲ್ಲದಕ್ಕಿಂತಲೂ ವಿಗಿಲಾಗಿ ಬೆಳೆದು ಬರುವ ವಾತಾವರಣದ ಮೇಲೆ ಅವಲಂಬಿಸಿದೆ.

ಬೆಂ. ಸು. ಬದರೀನಾರಾಯಣ
ಪ್ರಾಂಶುಪಾಲರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿ

## ಶೀರ್ಷಿಕೆ : ಏಕೆ?

ಹೃದಯವೆಂಬ ದೇಗುಲಕೆ,
ಅಹಂಕಾರವೆಂಬ ಅಲಂಕಾರವೇಕೆ?
ಸ್ನೇಹವೆಂಬ ಮೂರ್ತಿಗೆ,
ಕೋಪವೆಂಬ ಪೂಜೆಯೇಕೆ?
ನಿಸ್ವಾರ್ಥ ಭಕ್ತಿಗೆ,
ಮನಸ್ತಾಪವೆಂಬ ನೈವೇದ್ಯವೇಕೆ?
ಅರ್ಥವಿಲ್ಲದ ಆರಾಧನೆ ಶುರುವಾಯಿತೇಕೆ?
ಇನ್ನೂ ಮುಗಿಯುತಿಲ್ಲವೇಕೆ?

## ಮನದಾಳ

ಹೂವು ಬಾಡಿ ಮಣ್ಣಾಗಿದೆ,
ಯಾರಿಗೂ ಕಾಣದ ಹಾಗೆ.
ಮತ್ತೊಂದು ಪ್ರೀತಿಗೆ ಜೀವವಾಗಿದೆ,
ಯಾರಿಗೂ ಅರಿವಿಲ್ಲದ ಹಾಗೆ.
ಈ ಹೃದಯ ಕಲ್ಲಾಗಿದೆ,
ಪ್ರೀತಿಯೇ ಇಲ್ಲದ ಹಾಗೆ.

ಮೋಡಗಳಲಿ ಅಡಗಿರುವ ಮಳೆಯಂತೆ,
ಬೆಳಕಲಿ ಅಡಗಿರುವ ನಕ್ಷತ್ರಗಳಂತೆ,
ಕವಿಯ ಮನದಲಿ ಅಡಗಿರುವ ಪದ್ಯದ ಸಾಲಿನಂತೆ,
ನನ್ನ ಪ್ರೀತಿ ಅಡಗಿದೆ ಯಾರಿಗೂ ಕಾಣದ
ಮಾಯೆಯಂತೆ.

-ಅಮೃತ.ಪಿ

# Paintings Sketches & Photography

**Art by :**
**Ms. Eshanya**
**6th Sem CSE**

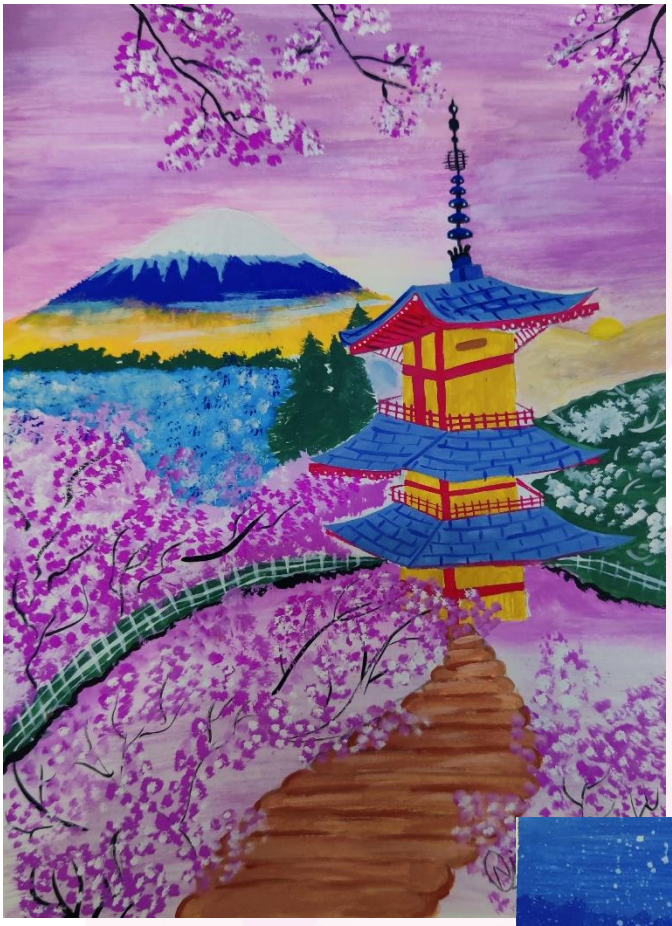
**Ms.Pallavi**

**6th Sem ECE**

**Art by :**

**Ms Shreya Sagar S**

**3rd Sem EEE**

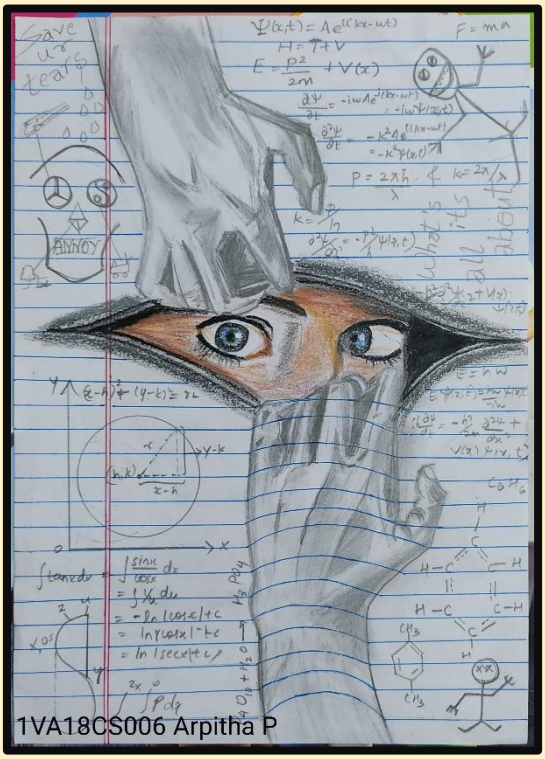


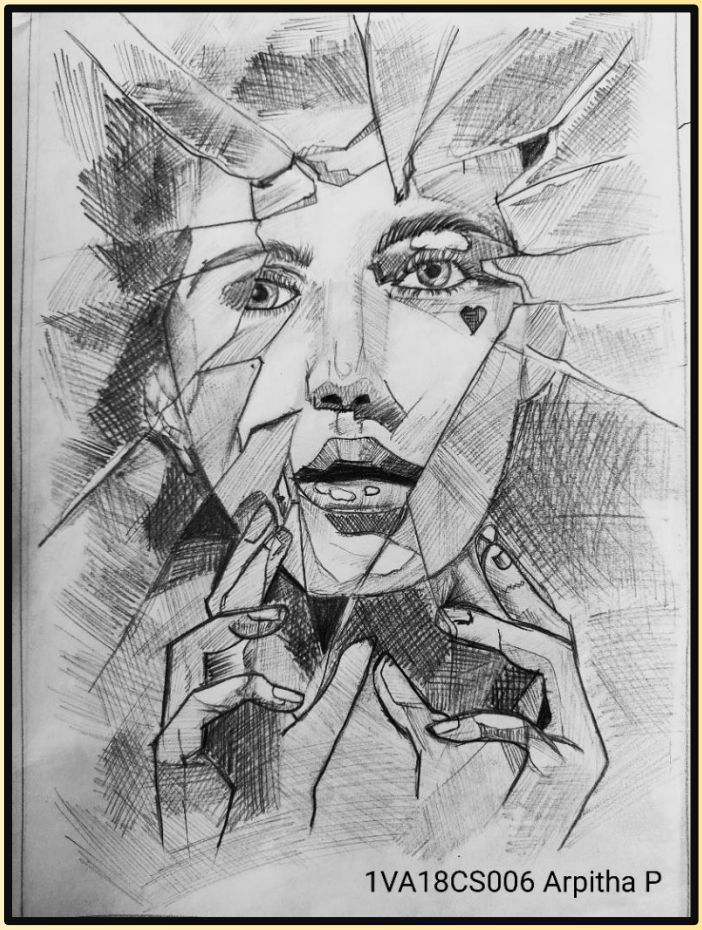
**Ms.Nisarga R Belegere**

**4th Sem ISE**

**Art by :**
**Ms Neha Harish**
**5th sem CSE**

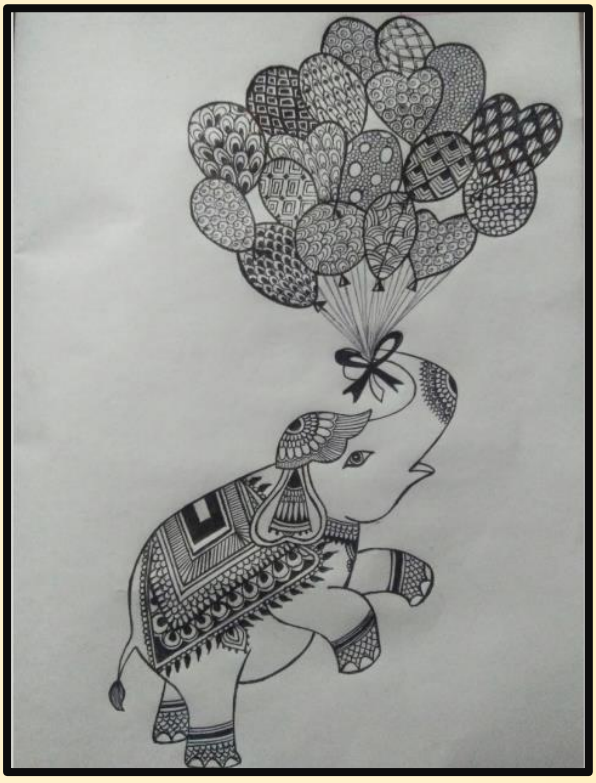
**Art by :**
**Ms Neha Harish**
**5th sem CSE**



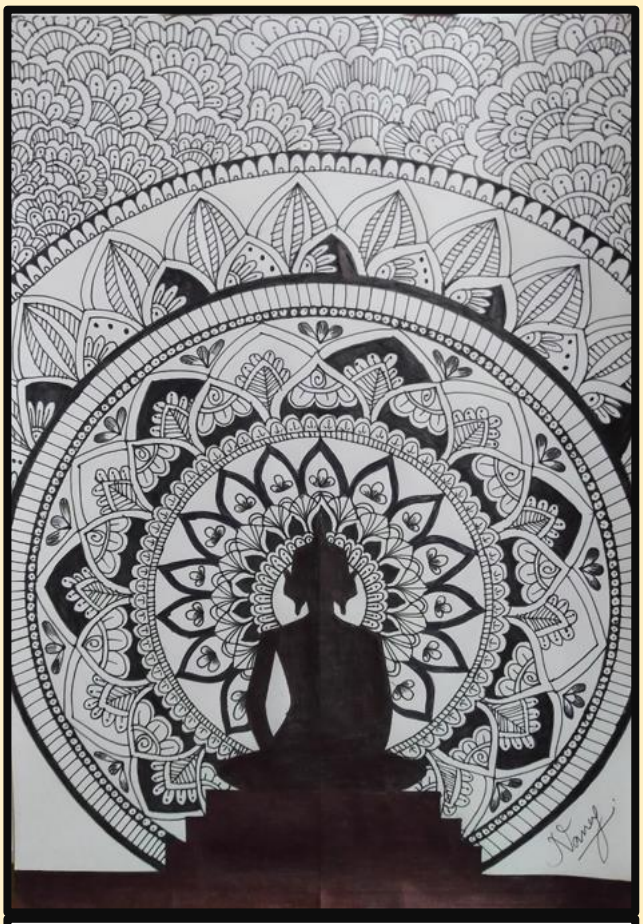
Ms.Arpitha P

6th Sem CSE



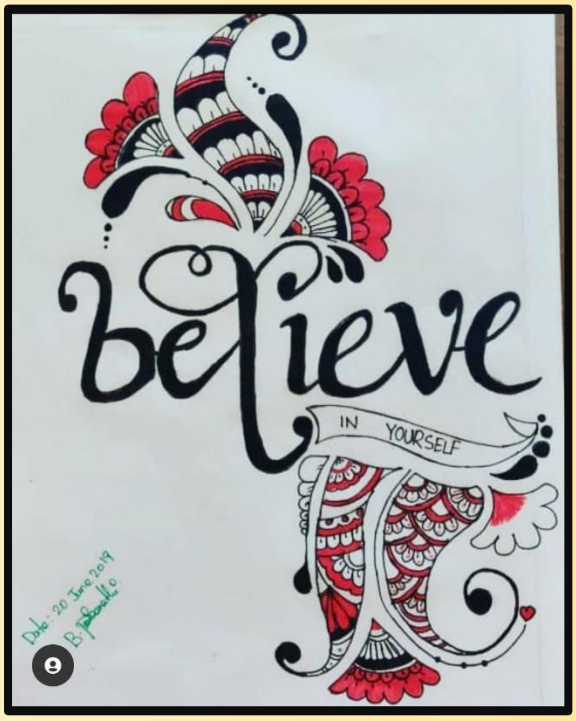
**Ms. Tejaswini S**

**6th Sem ISE**



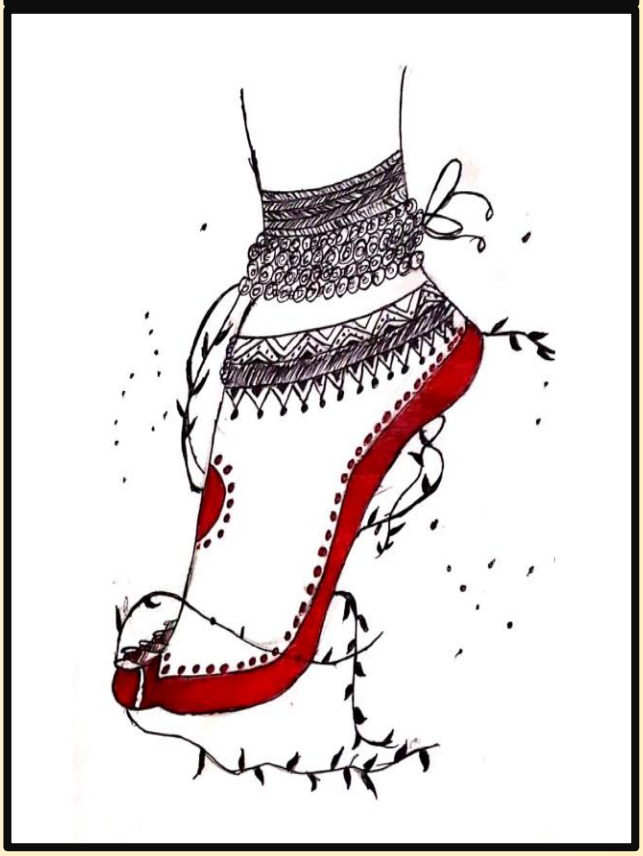
**Ms. Nancy Saini**

**6th Sem ISE**



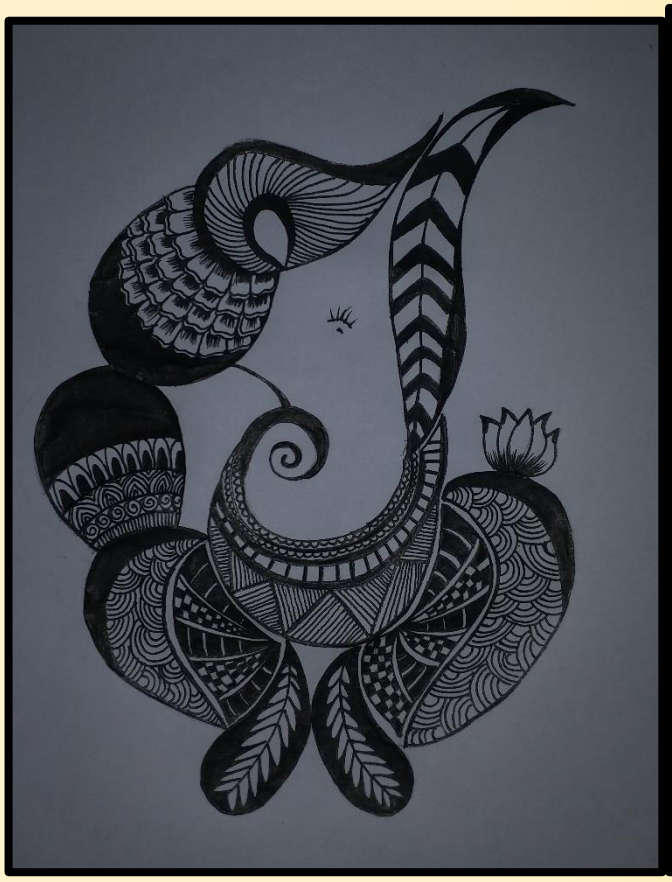

**Ms. B Sai Pranati**

**6th Sem ISE**



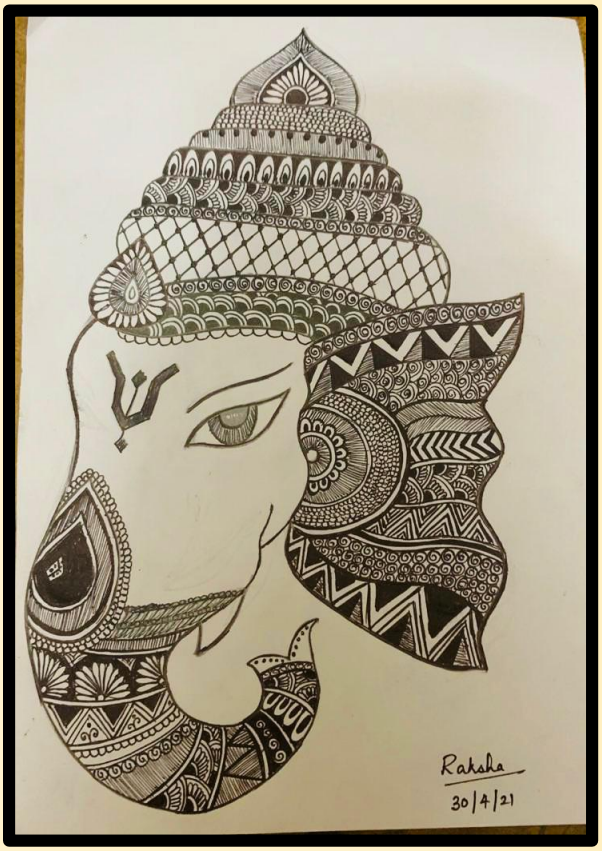
**Ms. Namrata V**

**6th Sem ISE**



**Ms. Parvathy Adiga**

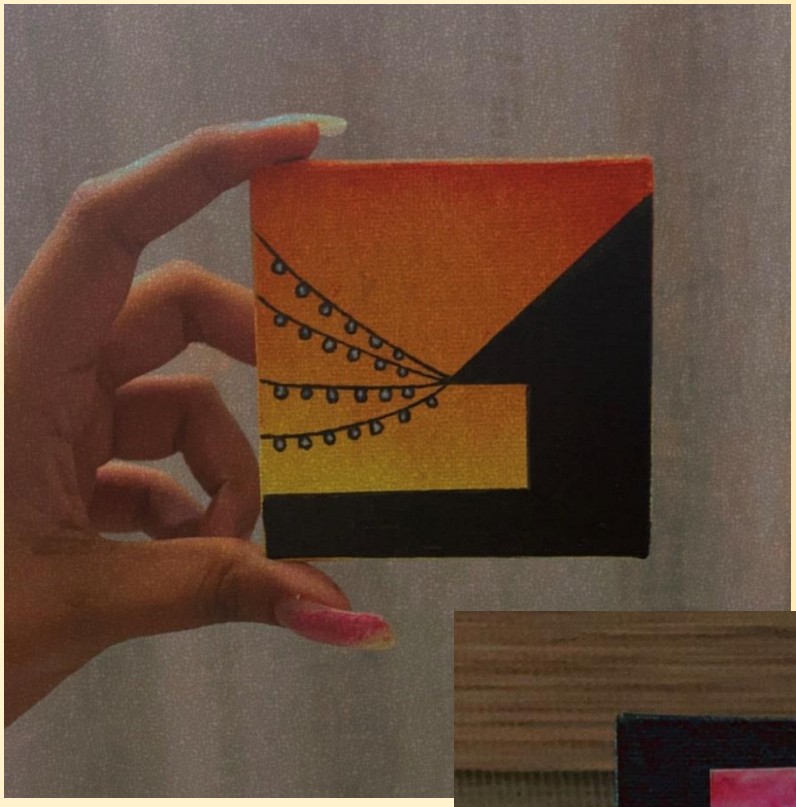
**6th Sem ISE**

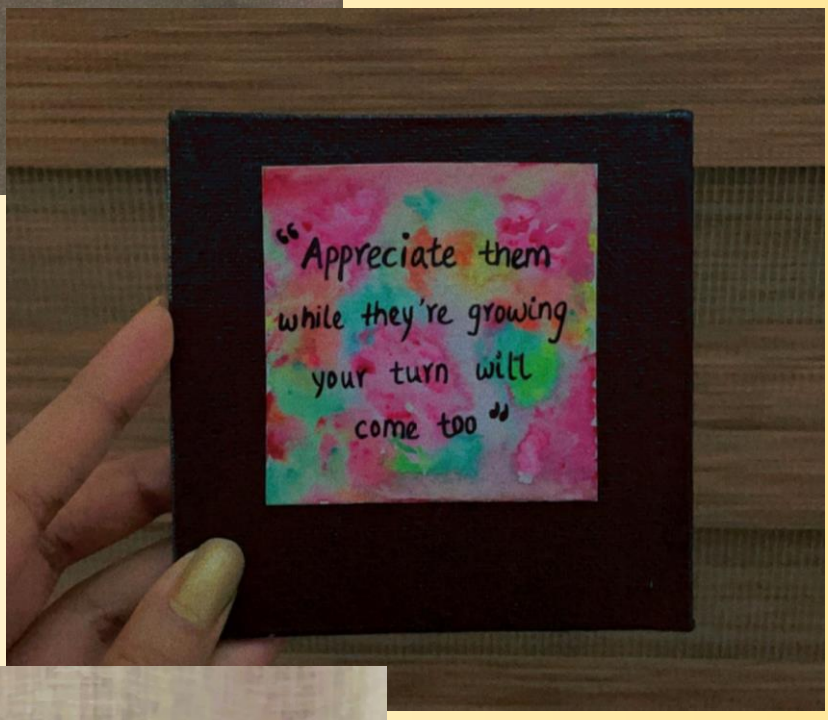



**Ms. Sri Raksha R Kolgi**

**4th Sem ISE**

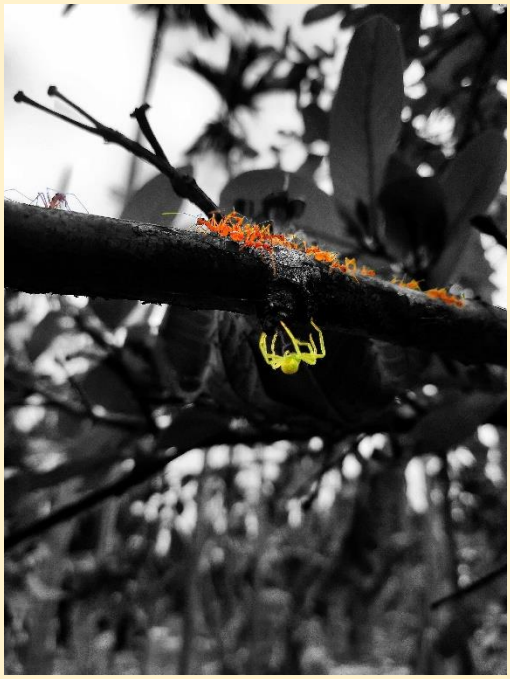
# Canvas Art

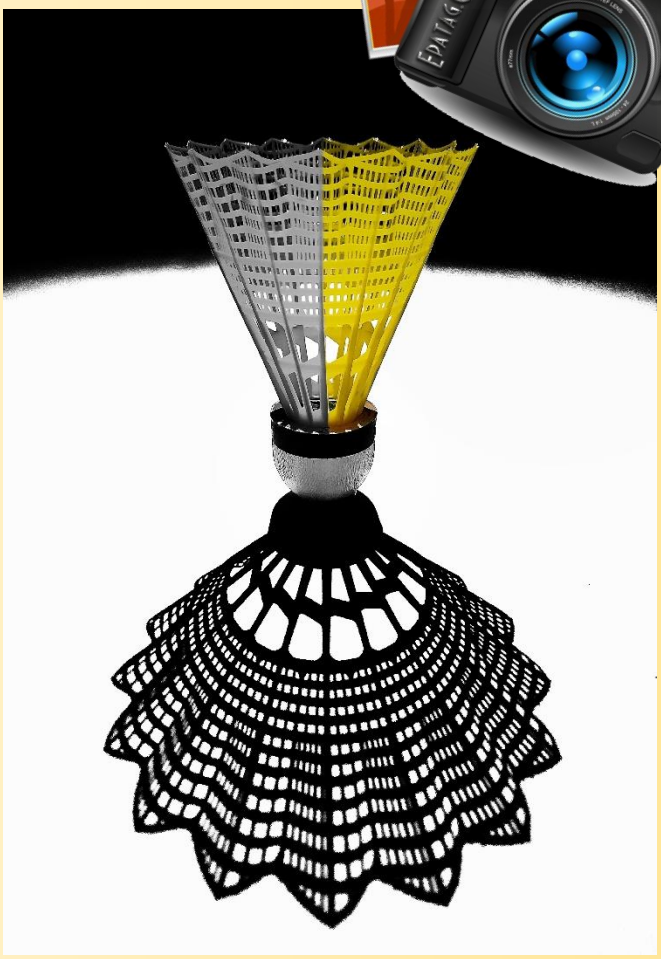


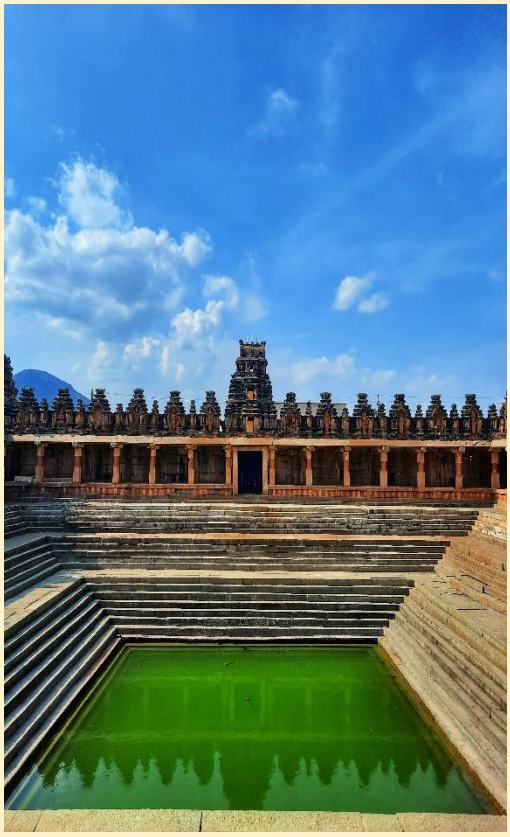


**Ms. Ishika Naveen**

**4th Sem ISE**





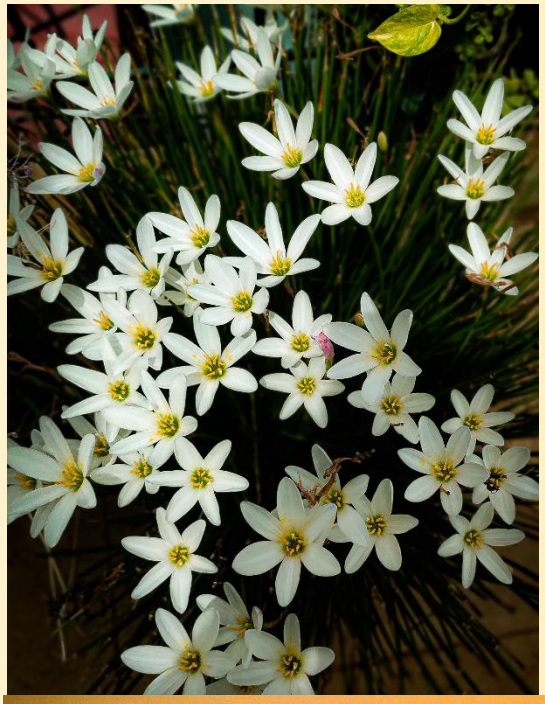



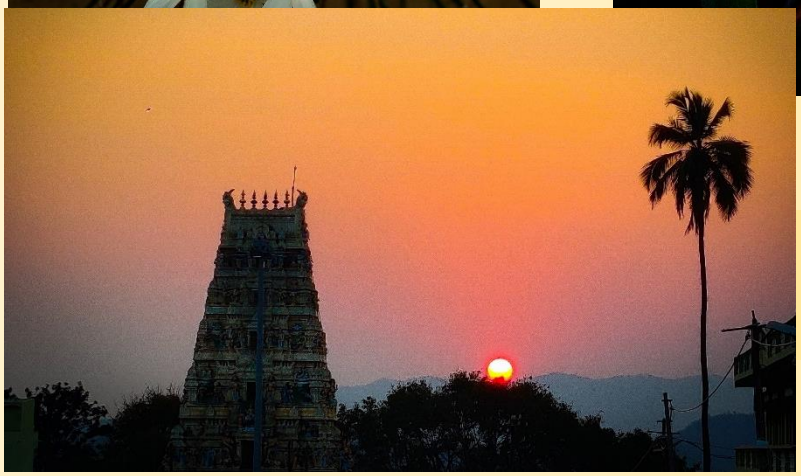
**Mr. Shreyas H L**

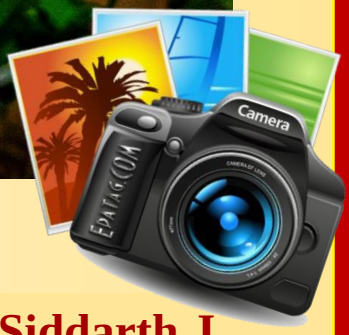
**6th Sem Mechanical**

**Mr. Udith K S 6th Sem ECE**

**Ms.Ashwini 6th Sem CSE**








**Mr. Siddarth J**

**4th Sem CSE**

**Mr. Gagan Raj**

**6th Sem ECE**

# Student Reviews

**SVIT played a significant role in shaping me into the person I am today. The value given to both technical and extra-curricular is immense, and this aided me in participating in hackathons, pursuing internships at permier organisations, writing international papers, and being a part of sports and cultural teams was the best of both worlds. I'll never forget the encouragement I received from my professors and management in pursuing my goals and turning them into accomplishments and life lessons.**

**Ms Bina R**

**Dept . of ECE**

**SVIT is something more than just a professional college. It enriched my engineering journey with abundance of memories and experiences. 4 years of my engineering journey at SVIT composed of volunteering at different levels of IEEE along with academics. The teaching fraternity at SVIT, moulds the student into industry ready engineer through variety of programs along with technical acumen. The skills such as presentation skills, leadership skills etc. which are necessary to grow in the industry are exercised through volunteering.**

**Mr Sourabh V Bhat**
**Dept. of ECE**

# Student Reviews

**It was a great experience studying at SVIT.**

**The entire faculty and department leaves no stone unturned to shape one's future. My four years at SVIT have been a wonderful experience of learning and self development. Huge respect, love and devotion for entire faculty members , department and the college. It's their efforts and hard works that make me to count myself into better professionals today.**

**Mr. Reethik Chitragupt**
**Dept. of ISE**

**I am glad to provide you with my feedback about the college and the ISE department.**

**My overall experience till the last day in college has been amazing, and the college is having an amazing infrastructure. My college has provided me with a number of opportunities to grow and explore my skills.**

**The department has always had our back and guided us through out our journey. Our HOD and our teachers where always friendly and made sure we always understand things in a correct way so that we could implement the same in our future.**

**I am thankful to the whole SVIT team for making my four years of engineering journey a colourful and a memorable one.**

**Ms Chinmayee**
**Dept. of ISE**

**I am glad to provide my feedback about the college. My overall experience to date has been amazing, the college is having an wonderful infrastructure .Our college has provided me number of opportunities to grow and explore my skills . I have always found a positive and healthy environment and the lectures are highly supportive .They are highly qualified .I'm amazed to be a part of Sai Vidya Institute Of Technology. This institute is good and supportive in matters of education, sports and other curricular activities.**

**Mr Nithin Bharadwaj**
**Dept . of Mechanical**

# Student Reviews

**I am Sushma M, MBA graduate from Sai Vidya Institute of Technology. My 2 years of experience at SVIT is amazing. The teaching level, infrastructure facilities are too good. Being a Finance student in a short word I can say that ROI is very high. The reason I put this word across is that with a very less amount of fee, one will get very quality of education.**

**Ms Sushma**
**Dept. of MBA**

**My 2 years journey in SVIT was great. Amazing college with amazing lectures. Good college to purse your MBA program. Quality of education is excellent. Clam and pleasant environment. You have great opportunities to learn. Extra classes for soft skills and placement training is an added benefit you get in the college, where you can mould your self-confidence, and over come fear. Student presentations helps us to build confidence, over come fear, helps us improve our communication etc.**

**Ms Shreya**
**Dept. of MBA**

SVIT is known for teaching not just academics but way beyond for knowledge. SVIT provides best lecturers who are highly qualified, very friendly and encourages students to succeed in their life. The campus is surrounded by good infrastructure with various facilities such as labs, libraries, canteen, hostel and healthy environment filled with greenery which gives a pleasant and peaceful ambience..

**Mr Sujith L**
**Dept . of EEE**

## PROGRAM OUTCOMES (POs)

**PO1: Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

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**PO2: Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3: Design/development of solutions**: 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 environmentalconsiderations.

**PO4: Conduct investigations of complex problems**: 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.

**PO5: Modern tool usage**: 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.

**PO6: The Engineer and society**: 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.

**PO7: Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8: Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9: Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10: Communication**: 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.

**PO11: Project management and finance**: 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 multidisciplinary environments.

**PO12: Life-long learning**: 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.