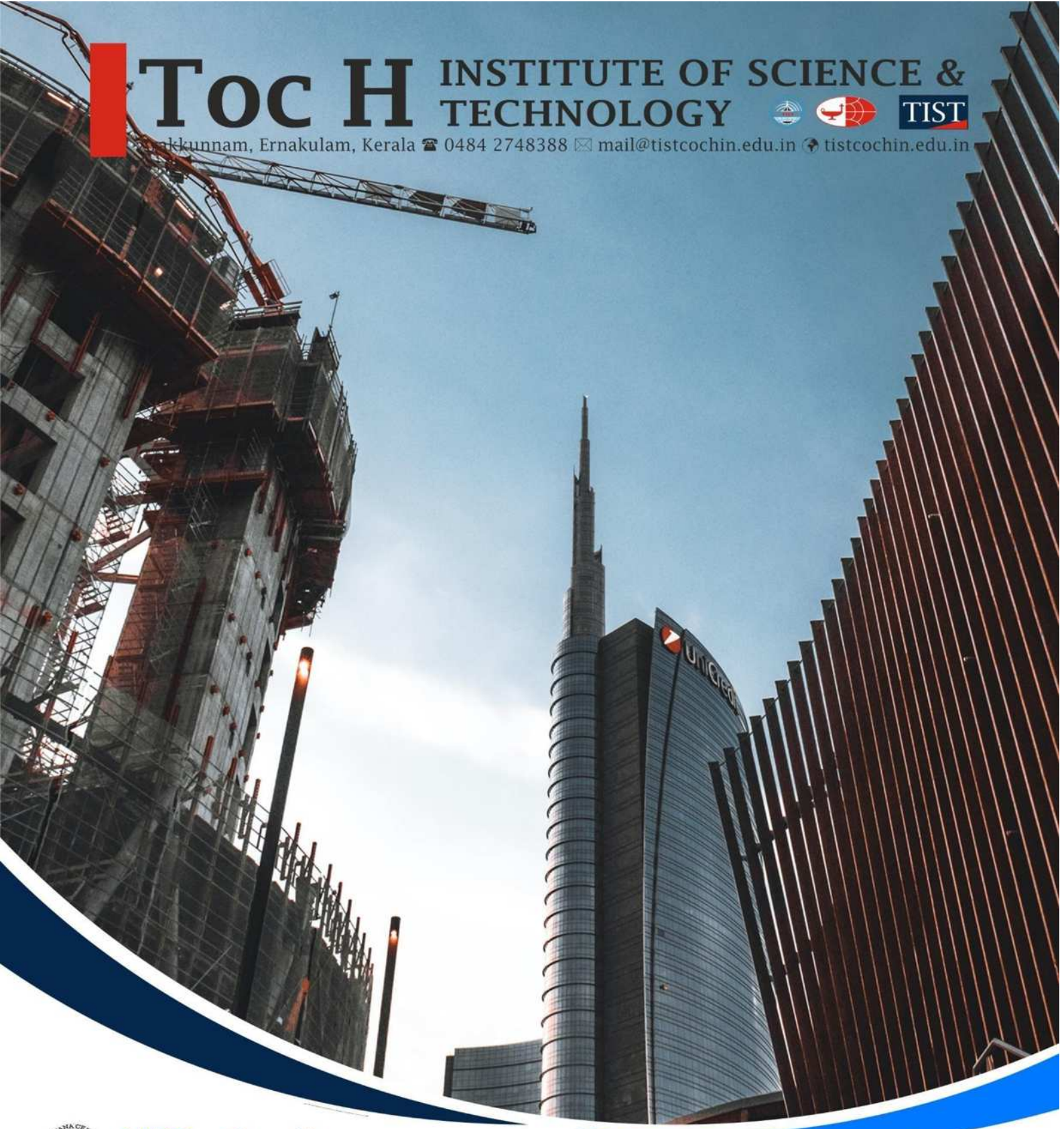


# T O C H INSTITUTE OF SCIENCE & TECHNOLOGY



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# SANSKRITI

VOLUME: 15

## B-Tech 2018 - 2022 BATCH TOPPERS



**Meenakshi V**  
CGPA : 9.5



**Angel James**  
CGPA : 9.4



**Aiswarya Manikandan**  
CGPA : 9.4

### DOWN THE MEMORY LANE

*Sanskriti, the Civil Engineering Newsletter marked its birth on 12th, August 2008 by the blessed hands of Dr.Baaba at Ramanujan Hall in Aryabhata Block. Its successful voyage continued to the next year with Mr.Muralee Thummarakkudy releasing Sanskriti 2009. Mr. Cyriac Davis did the honours by releasing the 3rd volume of Sanskriti 2010. 2011 witnessed the release of Sanskriti by Mr. L. Gopakumar. Sanskriti 2012 was brought to life by eminent structural engineer E.Sudhakar. Er.Kesava Chandran DMRC Chief Engineer, released Sanskriti in the year 2013. The seventh volume of Sanskriti was launched by Dr.N Ganesan Professor and HOD,CE department NIT Calicut in the year 2014. The eighth volume of Sanskriti was launched by Arch.BR.Ajit, Chairman, IGBC Cochin Chapter on 17th July 2015. The 9th edition of Sanskriti was released on August 8th, 2016 by Dr.P.K.Aravindan,Chief Consultant Sreegiri Consultants. The 10th edition was released by Mr Chandrakumaran Nair Executive Director CIAL on 11th August 2017. The 11th edition was released by Dr. R Ravindran Nair, Dean TIST on September 15th 2018. The 12th edition was released on 31st August 2019 in the presence of Dr. Alex Mathew, President, Prof. Dr. P J Joseph, Director, and Mr. K A Simon, Director, Toc H Public School Society. The 13<sup>th</sup> edition was released on September 15<sup>th</sup> 2020 in the presence of Er. P.G.Venkatram, Chief Technology Officer, Directors, Toc H Public School Society and principal Prof. Dr.Preethi Thekkath. The 14<sup>th</sup> edition was released on 7<sup>th</sup> May 2021 in the presence of Dr. K Rama Raju Retired Chief Scientist, CSIR-Structural Engineering Research Centre and Dr. K Varghese, Founder Director & Manager, Toc H Public School Society.*

## **VISION OF THE INSTITUTE**

*To become a globally recognized institution that develops professionals with integrity who excel in their chosen domain making a positive impact in the industry, research, business, and society*

## **MISSION OF THE INSTITUTE**

- 1. To provide the ambiance necessary to achieve professional and technological excellence at the global level.*
- 2. To undertake collaborative research that fosters new ideas for sustainable development.*
- 3. To instill in our graduate's ethical values and empathy for the needs of society*

## **VISION OF THE DEPARTMENT**

*To transform into a centre creating change agents in civil engineering with professional competency, integrity and ethical values for serving the society with the highest level of proficiency through their chosen domain.*

## **MISSION OF THE DEPARTMENT**

- 1. Provide ambience to create civil engineers of global standards to servethe society collaboratively, competently and ethically.*
- 2. To provide an academic environment for lifelong learning nurturing theskills in research and development for the benefit of all stakeholders.*
- 3. To inculcate professionalism in students through team work, effective communication and leadership skills.*
- 4. To encourage and empower the faculty in the field of engineering education and mentoring for enhancing the teaching-learning process.*
- 5. To impart hands on experience to aspiring undergraduates through interdisciplinary research projects, industrial training and consultancy work.*



## **PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

*The graduates of Civil Engineering will :*

- 1. Apply technical expertise to identify and resolve any complex civil engineering problems with the help of modern engineering tools and lifelong learning to meet the specified needs of their chosen domain viz. employment, higher studies or research and development.*
- 2. Develop cost-effective solutions for a sustainable environment with deep insight in societal and ecological issues by adhering to professionalism.*
- 3. Exhibit professional ethics, management and leadership qualities with good communication skills facilitating to work in a multidisciplinary team for evolving as an entrepreneur.*

## **PROGRAMME OUTCOMES (POs)**

*Engineering Graduates will be able to:*

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.*
- 2. 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.*
- 3. 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 environmental considerations.*
- 4. 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.*

5. *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.*
6. *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.*
7. *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.*
8. *Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.*
9. *Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.*
10. *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.*
11. *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.*
12. *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.*

## **PROGRAMME SPECIFIC OUTCOMES(PSOs)**

*Students of Civil Engineering Program will demonstrate:*

1. *Innovative Design in Civil Engineering: The ability to create innovative designs with new materials of minimum embodied energy through research and development focusing on global quality of life by observing professional ethics.*
2. *Civil Engineer and Sustainability: The ability to recognize the need of the hour like housing, sanitation, waste management, irrigation, use of renewable energy etc. for a sustainable environment.*
3. *Civil Engineering Analysis and Design tools: The ability to analyze the effects of natural calamities like earthquakes, landslides etc. including disaster management and to design stable structures for relevant stress resultants.*

# EDITORS NOTE

## WE PRODUCE SPARKLING COLOURS

*Civil Engineering is one of the oldest engineering discipline. Civil Engineers are the best creators next to God Almighty . All seven wonders of earth are signature works of civil engineering .*

*It is our pleasure to be a civil engineer and also a part of this **SANSKRITI** editorial team .The SANSKRITI by Department of Civil engineering put forward our department highlights.*

*We are thankful to all those who have contributed to the magazine and also to everyone who helped and guided us in making this Newsletter colourful and lovely.*

**We also thank our seniors for successfully completing their course and making our department proud...**

**Editorial Team**

# SANSKRITI CREW



## Student Editors

Safrin Saif  
Anandhu Sumesh  
Jithin Ratheesh  
Riya Roy  
Unnimaya P  
Diya Monica

## Staff Editors

Asst.Prof. Vidya Jose  
Asst.Prof. Elba Helen George  
Asst.Prof. Keerthy Sabu

## PRINCIPAL'S MESSAGE



*“Learning gives creativity, creativity leads to thinking, thinking provides knowledge, and knowledge makes you great”. – A.P.J Abdul Kalam.*

*We aim at providing education that will help our students in their overall development and will develop themselves as individuals responsible and useful to*

*the society. Today education means much more than merely acquiring knowledge, it is the acquisition of knowledge and skills, instilling values and improving the employability of our young talents, the future leaders. With immense pleasure I would like to pen a few words for the department of Civil Engineering's Newsletter, "SANSKRITI," which portrait's various achievements and activities of the department and showcase the creative talents. The department of Civil Engineering is one of the NBA (National Board of Accreditation) accredited departments of TIST which is actively involved in various research and consultancy works. The shift from the output-based education to outcome-based education is literally adopted by the department. The department has a strong research and consultancy wing which actively involves in various government and private project works.. The department of Civil Engineering successfully participated in Mapathon project and got itself certified by Kerala State IT mission. Several socially relevant projects are undertaken by the department.*

*I am confident that this issue of Department News Letter will provide an insight into the department. I congratulate the entire Editorial team for the initiatives taken in the timely completion and release of the newsletter. I wish the department all success in all its future endeavors*

**Prof. Dr. Preethi Thekkath**  
**Principal**



## HOD's MESSAGE



*I am extremely happy that the department is releasing its fifteenth volume of "Sanskriti". I appreciate and remember with gratitude towards fulfillment of this goal as part of our commitment towards our profession. The Civil Engineering profession exhibits its return after the hard time of pandemic situation. The need to have better candidates graduating out of the institution its essential to have upgradation of various skill sets in profession as well as personal. The quality is given the prior importance in TIST and as a recognition the institution is NAAC Accredited and the UG program of Civil Engineering department is NBA Accredited too. This excellence is the*

*outcome of the joint effort of the students, staff, parents, alumni and the management. Hats off to all the were a part of these recognitions.*

*In the previous academic year we conducted FDP, One workshop and several technical events in the department. Our 2018 - 22 batch had graduated with flying colours and many have core placements. Ms. Meenashi V have secured a position in top 2% among all successful civil engineering graduates under APJ Abdul Kalam Technological University. Department have Patent and publications in various reputed journals. Department is a recognized research centre under APJ Abdul Kalam Technological University with two approved research supervisors.*

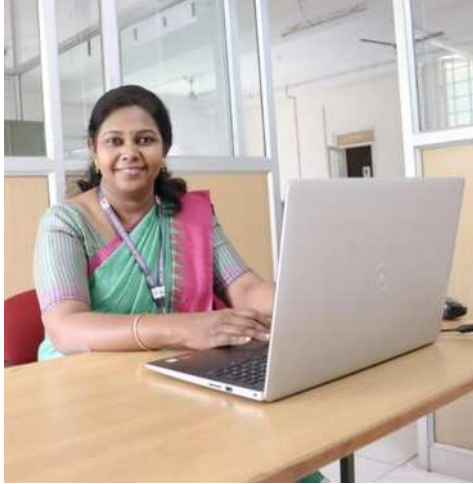
*The consultancy works of the department have directed its service to structural health monitoring also. Our centre of excellence is on Green Building Materials which emphasis towards the SDG's of UN. The department have initiated the activities towards establishing the student's chapter of American Society of Civil Engineering (ASCE). The department shall be focusing towards the development of sustainable infrastructure through its all stake holders and shall light in happiness and prosperity.*

*Once again placing on records my gratitude to all contributors and editorial board of 'Sanskriti', the civil engineering newsletter for successfully bringing out its latest volume. We are thankful to the management and the staff of this institution for all the support extended to us in all our endeavors.*

*With best wishes and warm regards,*

**Dr. VASUDEV R**  
**HOD Civil Engineering Department**

## EDITOR IN CHARGE



*Warm Greetings to all !!!*

*It gives me great pleasure to write few words as prologue for our department newsletter "Sanskriti". As we say variety is the spice of life, civil engineering department of TIST has always succeeded in bringing this variety to nurture the holistic development; be it through classroom discussions, counselling sessions, debates, in-house training programmes, workshops, intra and intercollegiate fests and competitions, research and presentations, peer learning all these in turn provide a favourable environment for the well-being of our students. The newsletter is intended to be published once in a year. This focuses mainly on the activities of the department, colourful and happy moments that occurred during the last academic year and also on the articles of the students and other members of the department. I hope this issue's variety of articles inspire, educate and encourage all of you to continue reaching new levels of excellence. I would like to record my gratitude and heartfelt thanks to the management, teaching & non-teaching staff and students for putting their heads together to make this publication a reality. Wishing the best for sealing bigger success and achieving newer heights in the coming days.*

*Thankyou !!!*

**Asst. Prof. Vidya Jose**  
**Editor in charge**

# OUR STRENGTH



TEACHING STAFF



NON TEACHING STAFF

# *Colourful Moments*



*Asst. Prof. Basil S Jacob  
got married to  
Anju Ajith Cherian  
on May 16<sup>th</sup> 2022*

*Asst. Prof. Keerthi Sabu  
got married to  
Athith Omanakuttan  
on October 27<sup>th</sup> 2022*



## *BUNDLES OF JOY*

*Asst. Prof. Elba Helen George  
blessed with a baby girl  
on May 24<sup>th</sup> 2022*



# WELCOME TO CE FAMILY



Asst.Prof. Preetha Prabhakaran



Asst.Prof. Keerthy Sabu



Asst.Prof. Christy Francis Lonth



Drishya Santhosh  
Lab Instructor



Juno John  
Lab Attender

## BID FAREWELL TO

Asst.Prof. Anjaly M

Asst.Prof. Anju Paul

## CEA ACTIVITIES ( 2021 - 2022)

The CEA activities for the academic year 2021-22 was inaugurated on 7<sup>th</sup> May 2022 by Er. Dr. K Rama Raju, Rtd. Chief Scientist, CSIR-Structural Engineering Research Centre. The various activities conducted during the period of August 2021 to July 2022 are:

- Organised AICTE sponsored online National Conference on Sustainability in Performance based Engineering design and Construction (NCSPEC) from 4<sup>th</sup> August to 6<sup>th</sup> August 2021.
- Conducted Poster competition as a part of Engineer's Day celebration on 15<sup>th</sup> September 2021.
- Conducted a webinar on "Uncertainties in Numerical Weather Prediction" by Dr. Abhilash S, Director, Advanced Centre for Atmospheric Radar Research, CUSAT in association with IGBC on September 16, 2021 as part of world ozone day.
- Conducted a webinar on "Introduction to Research" by Dr. Hareesh N Ramanathan, Prof., and Head, Management, Jain University on 28/09/2021. The webinar was arranged for S7 and PG students along with faculty members on the google meet platform.
- Organized a webinar on "Orientation on Initiation of ASCE Student Chapter" on November 12, 2021 in online mode by Dr. Elias B Sayah, Director Region 10, ASCE and by Dr. Kishor P, A.M.ASCE, Managing Director, Habilete Learning Solutions. All staff and students of the department attended the webinar.
- Department of Civil engineering, TIST has successfully completed mapping of various entities located in Piravom municipality as part of Mapathon project and got the certification from Kerala State IT mission. The project was completed during the period September to December 2021.
- The department in association with KSCSTE NATPAC has conducted a questionnaire survey as part of the project "Performance Evaluation of Kochi Water Metro" on South Chittoor – High Court Stretch on 7<sup>th</sup> and 8<sup>th</sup> March 2022.

It provided students an exposure to the practical applicability of questionnaire surveys in traffic and transportation engineering.

- A Webinar on the topic “Future of Construction: Integrated Open BIM Management with BEXEL Manager” was organized by the ASCE Student Chapter of Civil Engineering department TIST (Under Probation) on 14<sup>th</sup> March 2022 at 2 pm in online mode.
- Celebrated World Water Day on 22<sup>nd</sup> March 2022 in association with ASCE student chapter [under probation], IGBC student chapter and Toc H IIC chapter. A technical talk on the topic “Ground Water: Making the Invisible Visible” by Dr. G Madhu, Professor and Head, Chemical Engineering Division, CUSAT was organized by the department as part of the celebration. Poster Making and Photography contest were conducted.
- 2018 Admission (S8) students visited Chikkamagaluru, Dandeli, Goa and Udupi from 24<sup>th</sup> March to 30<sup>th</sup> March as part of the curriculum.
- 2017 Admission students of Civil Engineering Department were officially graduated on 22<sup>nd</sup> April 2022.
- S2 M.Tech (2021 admission) and S8 B.Tech (2018 admission) students of Civil Engineering Department visited ongoing construction site of Chinmaya Vishwa Vidyapeeth University, at Onakkur on 22/04/2022 and 25/04/2022. The project is being executed by B R NIRMAN company.
- Department of Civil Engineering organized a technical talk on “Writing Resume and Research Paper” by Assoc. Prof. Dr. Smitha K K (Civil Engineering Department, TIST) on 27<sup>th</sup> April 2022
- Department organized an online alumni meeting on 14<sup>th</sup> May 2022. HoD, Assoc Prof. Dr. Vasudev R presented the recent and upcoming activities of the department. The event was organized in association with the ASCE student chapter (under probation) and Dr. Kishore, Advisor, ASCE student chapter, addressed the gathering.

- 2016 Admission students of Civil Engineering Department were officially graduated on 21<sup>st</sup> May 2022.
- 2019 Admission (S6) students visited Mangalore and Goa from 24<sup>th</sup> May to 29<sup>th</sup> May as part of the curriculum.
- 2020 Admission (S4) students visited Kundala dam, Mattupetty dam, and Munnaron on 28<sup>th</sup> May as part of their curriculum.
- 2021 Admission (S2) students visited Qcrete Readymix Pvt. Ltd. Ambalamugal on 28<sup>th</sup> May as part of their curriculum.
- An exhibition on prototypes developed by final year students (2018-2022) was organized by the Civil Engineering department in association with the Institution's Innovation Council (IIC) of TIST on 28<sup>th</sup> May 2022.
- Department of Civil Engineering, TIST organized slogan making competition as part of World Environment Day, 2022 in association with IGBC and IIC of TIST.
- An online Five-day Faculty Development Program was conducted by Civil Engineering Department, TIST on "Emerging Trends in Construction Management" from 6<sup>th</sup> June 2022-11<sup>th</sup> June 2022.
- ASCE student chapter is initiate in the Department.
- A workshop on "Building Information modeling" was organized by the Department of Civil Engineering, TIST under ASCE Student Chapter (Under Probation) from 13<sup>th</sup> July 2022 to 15<sup>th</sup> July 2022 in offline mode.



# SMOKE SIGNALS

*A wisp of chimney smoke,  
White as a piece of chalk,  
Wished to rise and make  
Friends with the sky, blue-black.  
In the moonlight, the smoke  
Met clouds moving in a pack.  
He rode on a cloud's grey back.  
He saw the Earth's lovely look,  
Which he once mistook,  
For some low trick.  
So, he fell from the cloud.  
Down to the Earth as rain.*

Hridya Vineesh  
S1 Civil

# FRIENDSHIP

*Friendship is one of the most Precious gift of life.  
Friendship are those who help you, enjoy with you and understand you we  
know many people in our life, But not at all are friends. A friend is a person  
who understand you. The friendship is an important asset in your life  
friend make our life happy and enjoyable. Friendship is an divine  
relationship between two or more person. It is belived that our life is  
tesured when someone has lot of good friends. Friendship support you in  
life not only happy times but also in your hardship. It makes a Person's life  
complete. This Priceless blessing double your joy and divided your pain. In  
a good friendship honesty and loyalty Play a vital role.*

Parvathy S  
S1 Civil

# Otherwise

*Scars that I carry,  
I call it my own  
Taught me lesson,  
That I wouldn't  
Have found,  
Otherwise.*

Punnya Praseed Ulleri  
S3 Civil

*Prelude*

*#In Japan, broken objects are often repaired with gold. the cracks are seen as unique part of the object's history which adds to its beauty. consider this when you feel broken, this art of embracing the damage is kintsugi. Presenting the poem kintsugi....*

# Kintsugi

*When depths of the ocean  
Scared me to death,  
The light that blinded the eyes  
Show me the way.*

*Broken parts of mine ,that  
We're long lost in the wind  
Bonded back with love  
With whose care,certainly did  
Bruise the soul, but swept  
Away the years that never fell*

*When time came near ,I knew  
I had already succeeded  
For when I turned back  
I saw myself transform,into  
An invaluable piece of art.*

Punnya Praseed Ulleri  
S3 Civil

# IS SCIENCE A BOON OR A CURSE?!!

*Is Science a boon or a curse? Sometimes I sit and wonder. Science has blessed us in so many ways. It has given us medicines, equipment, computers, mobiles, automobiles, airplanes, bridges and so much more. A large number of diseases have a cure. Man has made his journey up to the moon. We can actually have breakfast at home and lunch in another country which is thousands of kilometers away. Satellites help in whether gauging and predicting storms. These things are possible due to science. It is such a boon to us.*

*But there are thorns also. If science is a boon it is a curse also. It has given us a bombs-atomic and nuclear which can be used in wars to destroy the world. Some harmful drugs can kill people. Children show lesser interest towards physical activities due to video games and television. But I think Science, if used wisely is just a boon to mankind.*

Haripriya V  
S5 Civil

## PRECIOUS DROPS

*My birth starts from the clouds  
Falling, glittering, shimmering;  
I merge with bodies to meet the ends bound;  
May be in the dirt or in the clean.  
I am the giver of life!  
Without me, no one can live-  
That includes every form of life  
Be it small or big.  
My beauty is in the showering rains;  
In the sky -kissed blue rivers;  
In the gushing of the mighty falls  
And transcend cheer to every heart  
When freed from ever fear.  
The beautiful rainbow with its vibrant hues  
Lifts up people's ray of hope,  
It's a game of sun and rain  
In which I stand to gain.*

Riya Roy  
S5 Civil

# CONNECTING YOUR DOTS - THE SECRET TO CREATIVITY

*Newton had an apple fall on his head, connecting his dots to form the laws of gravity. Archimedes connected his principles of buoyancy in a bath tub. Imagine your dots to be every small bit of information, experience or knowledge you have within you. Wood floats is one dot. fire burns is another dot, the moon revolves around the earth, are examples of some of the dots you have absorbed. You have two ways to be more creative - one way is to multiply the connections between them and the second way is to store more dots in your brain so that the chances of dots connecting are higher.*

*Creativity is your ability to connect random dots (pieces of knowledge) to come up with a solution to be more creative we have to build our 'Experience Bank' and immerse ourselves in as many different experiences as we are exposed to and have the potential to.*

*(Reasonable men adapt to the world around them unreasonable men make the world adapt to them.  
The world is changed by unreasonable men. - B. L. Cole)*

Bhagyalakshmi S  
S5 Civil



## SCIENCE AND RELIGION

*Science and religion are not enemies, but rather two different languages telling the same story. They are the two strong forces which influence people, and they seem to be set one against the other —the force of our impulse to accurate observation and logical thinking and the force of our religious intuitions. Each can draw the other into a wider world, a world in which both can flourish.*

*In the real world, very few research projects exist as ‘pure science’ - they inevitably have ethical, economic, philosophical, or even theological implications. And a researcher’s particular orientation to ethics and philosophy will shape the work that they choose to do, and sometimes even the theories they propose. It might be imagined that these scientists had to keep their religious beliefs separate from their rational pursuit of knowledge, but this was not the case. The natural philosophical systems developed by these people were deeply influenced by their particular religious beliefs. Newton, in particular, was a religious fanatic whose whole life work can be seen as a search for God. He hoped to prove that science and religion are two totally compatible fields-two different approaches to finding the same truth.*

*Quoting the book Angels and Demons, which essentially portrays the conflict yet correspondence between science and religion- ‘Whether or not you believe in God, you must believe this. Faith ... all faiths ... are essentially admonitions or acknowledgement that there is something we cannot understand. With faith we are accountable to each other, and to ourselves. Religion is flawed, but only because man is flawed.’ Thus essentially, we should look beyond the oversimplified interpretation of religion.*

***‘A brotherhood of imperfect, simple souls wanting only to be a voice of compassion in a world spinning out of control’***

## യാത്ര തുടരട്ടെ

ആളൊഴിഞ്ഞ നഗരപാത കാർമേഘങ്ങളാൽ ഇരണ്ടുകൂടുന്ന വൈകുന്നേര സമയം ആകാശത്തെവിട്ട് ഓരോരോ മഴതുള്ളികളായി ഭൂമിയിൽ പതിക്കാൻ തുടങ്ങി.

"മഴ പെയ്യാൻ പോവുകയാണ്. നീ വാ ബസ് സ്റ്റോപ്പിലെക്ക് കയറി നിൽക്കാം. പെട്ടി ഞാൻ എടുക്കാം" . അഭി ശ്യാമിനോട് പറഞ്ഞു. രണ്ടാളും കാറ്റിന് എതിരായി നടന്നു നീങ്ങി. ഒരുമിച്ച് ഈ നഗരത്തിലൂടെ നീണ്ട ചോദ്യം ഇരു ഹൃദയങ്ങളും ചോദിക്കുന്നുണ്ടായിരുന്നു. ഇനി ഈ നഗരത്തിലൂടെ ഒരുമിച്ച് നടക്കാൻ കഴിയുമോ?

പതിനഞ്ച് വർഷത്തെ നീണ്ട സൗഹൃദം അതിനെ ഇനിയും ആഴത്തിലേക്ക് മനസ്സിലാക്കാൻ അഭിയും ശ്യാമും ഒരുമിച്ചു ഒരിടത്ത് ഉണ്ടാവുകയില്ല. ശ്യാമിന് അവൻ ആഗ്രഹിച്ചതുപോലെ ദൂരദേശത്ത് പോകാൻ എല്ലാം ശരിയായി. അഭിക്ക് ശ്യാമിന്റെ സ്വപ്നത്തെ കുറിച്ച് മറ്റാരേക്കാളും അറിയാം. എന്നാൽ അവന്റെ ആഗ്രഹങ്ങളെ നേടിയെടുക്കാൻ കൂടെ നിന്നപ്പോൾ ഈ പിരിയേണ്ട നിമിഷത്തെ കുറിച്ച് അഭി ചിന്തിച്ചിട്ടില്ല.

ബസ് സ്റ്റോപ്പിൽ കയറി കുറച്ചു സമയങ്ങൾക്ക് ഉള്ളിൽ ബസ് വന്നു. ഇരുവരും ഹൃദയങ്ങൾ ചേർത്ത് കെട്ടി പിടിച്ചു. ബസ്സിൽ കയറി ശ്യാം തിരിഞ്ഞുനോക്കി പുഞ്ചിരിച്ചുകൊണ്ട് അഭിയേ നോക്കി കൈകാട്ടി യാത്ര പറഞ്ഞു. ബസ് നീമിഷങ്ങൾക്കകം അഭിയുടെ കൺമുന്നിൽ നിന്ന് മറഞ്ഞു.

ശ്യാം പോയതും മഴയാർത്തു പെയ്തു . ആമഴയിൽ നനഞ്ഞു കൊണ്ട് അഭി തിരികെ നടന്നു. അവന്റെ കണ്ണുനീരും മഴതുള്ളികൾക്ക് ഒപ്പം ഭൂമിയിൽ പതിഞ്ഞു. ബസ്സിൽ കയറി യാത്രതിരിച്ച ശ്യാം അവന്റെ യാത്ര തുടർന്നുകൊണ്ടിരുന്നു. ആഗ്രഹങ്ങളെ നേടാൻ ഉള്ള അവന്റെ യാത്രയിൽ ലൂടനീളം അവൻ തണലായി കൂട്ടായി ഒരുപാട് പേർ വന്നു. ചിലർ പാതിവഴിയിൽ അവനോടൊപ്പം യാത്രയിൽ തുടരന്നു. ചിലർ പാതിവഴിയിൽ ഇറങ്ങിപ്പോയി. ചിലർക്ക് കൂടെ വരണം എന്തുണ്ടെങ്കിലും ഇറങ്ങേണ്ട വന്നു. മറ്റുചിലർ യാത്ര പോകേണ്ട ദിശ കാട്ടിത്തന്നു . അങ്ങനെ ഒരുപാടു പേരാൽ അവന്റെ യാത്ര തുടർന്നു. ഈ യാത്രയിൽ ഒന്ന് തിരിഞ്ഞു നോക്കി ചിലരുടെ അടുത്തേക്ക് ഒന്നുകൂടെ പോവാം അവൻ പതിനഞ്ച് വർഷങ്ങൾക്ക് ശേഷം പിന്തിച്ചു. ആ ചിന്ത അവനെ അഭിയുടെ മുന്നിൽ എത്തിച്ചു.

പതിനഞ്ച് വർഷങ്ങൾക്ക് ശേഷം ശ്യാമിനെ കണ്ട സന്തോഷത്തിൽ അഭി ഓടി വന്ന് കെട്ടിപിടിച്ചു , പതിനഞ്ച് വർഷത്തെ സൗഹൃദവും അതിനു ശേഷമുള്ള പതിനഞ്ച് വർഷത്തെ ജീവിതവും അവർ പങ്കു വെച്ചു. നീണ്ട സംസാരത്തിൽ നിന്ന് ശ്യാമിന് മനസ്സിലായി അഭി ഇപ്പോഴും അവന്റെ വേർപാടിന്റെ വേദനയിൽ തങ്ങി നിൽക്കുകയാണെന്ന് .

" നീ അവസാനം എന്നെ പിരിഞ്ഞെടുത്തുത്താണ് എന്റെ മനസ്സിലേക്കും. എന്റെ ജീവിതത്തിലും നീ കയറിപ്പോയതു പോലുള്ള അവസരങ്ങൾ വന്നിരുന്നു. ഒന്നിലും ഞാൻ കയറിയില്ല. ചിലത് ഞാൻ കയറുവാൻ വേണ്ടി കാത്തു നിന്നു . ചിലതു എന്നെ നോക്കാതെ വേഗത്തിൽ പോയി. മറ്റു ചിലത് എന്റെ ഒരുപാട് ദുരം മുൻ വന്നു നിന്നു ഞാൻ കയറാത്തതിനാൽ എല്ലാം പോയി എനിക്ക് പോകാൻ സമയം ആയിട്ടും എന്റെ മനസ്സിനെ എനിക്ക് അവിടെ നിന്ന് കൊണ്ടുപോകാൻ കഴിഞ്ഞില്ല " . അഭി അവന്റെ ജീവിതം അങ്ങനെ പറഞ്ഞു തിർത്തു.

എല്ലാം കേട്ടിരുന്ന ശ്യാം സ്നേഹത്തോടെ അവനോട് പറഞ്ഞു. നീ എന്നിലേക്ക് മാത്രം ചുരുങ്ങിയപ്പോൾ നീ നഷ്ടമാക്കിയത് മനോഹരമാകേണ്ട നിന്റെ ജീവിത യാത്രയാണ്. ജീവിതം എന്ന യാത്ര അങ്ങനെയാണ് ഇടക്ക് മനസ്സ് എവിടെയോക്കെയോ തടഞ്ഞു നിന്നു പോകും. എന്നാൽ അത് ഒരിക്കലും അവസാനം അല്ല. ഞാൻ എന്റെ ജീവിതത്തിൽ യാത്ര തുടർന്നതുകൊണ്ടാണ് ഒരുപാട് പേരിലേക്ക് എത്തിപ്പെട്ടത് പോവേണ്ട സമയത്ത് പോവുക തന്നെ വേണം. നീ തങ്ങി നിന്നു പോയാൽ നിന്റെ വഴിയിൽ ഉടനീളം നിന്നെ കാത്തുനിൽക്കുന്ന വരുടെ അടുത്തെത്താൻ നിനക്ക് സാധിക്കില്ല നിന്റെ യാത്രയിലെ ഓരോരുതരും നിനക്ക് അത്ര വിലപ്പെട്ടതാണ്. അവരോടു നിനക്ക് ചെയ്യാൻ കഴിയുന്നത് സമയത്ത് അവരിലേക്ക് എത്തുക എന്നതാണ്. അതിന് നിനക്ക് സാധിച്ചാൽ നിന്റെ യാത്ര എന്നും ദിശതെറ്റാതെ മനോഹരമായ പാതയിലൂടെ തുടർന്നുകൊണ്ടിരിക്കും ....

Veena Biju  
S3 Civil

# ACHIEVEMENTS

## STUDENT ACHIEVEMENTS



*Meenakshi V (2018-2022 admission) of the Civil Engineering Department, (CGPA 9.51) Secured a position in the **TOP 2 %** of all successful B Tech Civil Engineering students of APJ Abdul Kalam Technological University.*

## *M - Tech 2020- 2022 Batch Toppers*



# DEPARTMENT ACHIEVEMENTS

## MoU with Habilete Learning Solutions

*Department of Civil Engineering, TIST has signed an MoU with Habilete Learning Solutions, a premier institute for industry skill development on 21st May 2022.*



## FACULTY ACHIEVEMENT

- *Dr Vasudev R, Assoc. Professor has been granted a patent for the invention of SUSTAINABLE CEMENT CONCRETE COMPOSITE by the Government of India.*
- *Dr Vasudev R and Dr. Smitha K K has been recognized as PhD supervisor at APJ Abdul Kalam Technological University.*
- *Dr. Vasudev R was selected as a member of ASCE.*



# Social Outreach Programme

- **MITHRAM SPECIAL SCHOOL VISIT**

*Department of Civil Engineering, TIST visited MITHRAM Special School and had discussions with their officials regarding the planning and design of the new block as part of community service on 10/03/2022.*



- **REBUILD KERALA PROJECT**

*Department of Civil Engineering, TIST is selected as one of the agencies for the second tier quality management system for the Rebuild Kerala Initiative of Govt. of Kerala for the rehabilitation of roads under LSGD. Department is actively involved in the quality control system of RKI projects to ensure the quality of roads. Lab facilities in the department are also being used for various stages of quality testing of materials for various projects under the scheme. Department is privileged to undertake this consultancy work.*



# Workshops & Seminars

- **Faculty Development Programme on Emerging Trends in Construction Management**

*An online Five-day Faculty Development Program was conducted by Civil Engineering Department, TIST on “Emerging Trends in Construction Management” from 6<sup>th</sup> June 2022-11<sup>th</sup> June 2022. The welcome speech was delivered by program Convener, Assoc. Prof.Dr. Vasudev R. Later sessions on various themes were covered by Mr. Sarath S, Mr. R SomasekharaKurup, and Er. Akshay Menon, Er. Rakhi R. The themes handled by the resource persons are Employability issues and solutions, Contracts management and negotiation, Tendering and rate analysis, Importance of planning and planning software in Construction Management. The session was very informative and attended by all faculty members and M Tech students.*



- **Technical Talk on “Writing Resume and Research Paper**



*Department of Civil Engineering organized a technical talk on “Writing Resume and Research Paper” by Assoc. Prof. Dr. Smitha K K (Civil Engineering Department, TIST) on 27<sup>th</sup> April 2022. All faculty and S8 B.Tech & S2 M. Tech students attended the talk.*

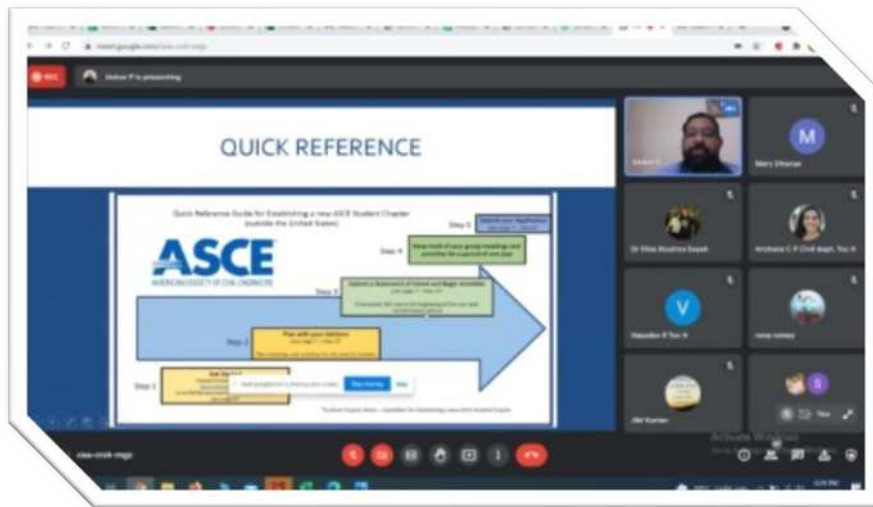
- **Webinar on Future of Construction: Integrated Open BIM Management with BEXEL Manager**

*A Webinar on the topic “Future of Construction: Integrated Open BIM Management with BEXEL Manager” was organized by the ASCE Student Chapter of Civil Engineering department TIST (Under Probation) on 14<sup>th</sup> March 2022 at 2 pm in online mode. The session was handled by Ms Lakshmi N Suresh and Ms Nirlipta Swain of BEXEL India. Ms Lakshmi N Suresh shared her insight about the key benefits of BIM project management and project budget savings. Different aspects of the BIM Model such as the structural model, MEP model, architecture model, and space model was explained by Ms Nirlipta Swain. All faculty and students attended the webinar.*



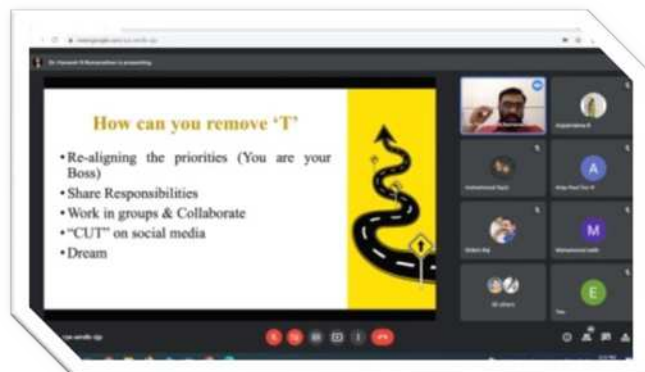
- **Webinar on ‘Orientation on Initiation of ASCE Student Chapter’**

The department organized a webinar on “Orientation on Initiation of ASCE Student Chapter” on November 12, 2021 in online mode. An introduction to American Society of Civil Engineers (ASCE) was given by Dr. Elias B Sayah, Director Region 10, ASCE. The process of student registration and requirements for student chapter formation was explained by Dr. Kishor P, A.M.ASCE, Managing Director, Habilete Learning Solutions. All staff and students of the department attended the webinar.



- **Webinar on ‘Introduction to Research’**

A webinar on “Introduction to Research” was conducted by the Department of Civil Engineering, TIST on 28/09/2021 from 6.00 pm to 7.00 pm. The session was handled by Dr. Hareesh N Ramanathan, Prof., and Head, Management, Jain University. The speaker shared his insight on the purpose and outcome of the research. The participants were encouraged to focus on publication, patent, and entrepreneurship. The webinar was arranged for S7 and PG students along with faculty members on the google meet platform.



- **AICTE sponsored (online) 3-days National Conference on Sustainability in Performance based Engineering design and Construction (NCSPEC 2021)**

*The department organized AICTE sponsored online National Conference on Sustainability in Performance based Engineering design and Construction (NCSPEC 2021) from 4<sup>th</sup> to 6<sup>th</sup> August 2021. The inauguration was done by Er. H Anantharaman, IRSE, Senior Divisional Engineer (Coordination), Palakkad Division, Southern Railways. The conference mainly explored the practices and research that primarily focus on sustainability which is attained by performance-based engineering design and construction. The conference received a good response to the call for papers from the various stakeholders across the country and after peer review, the selected papers were presented in 8 different sessions in the conference.*



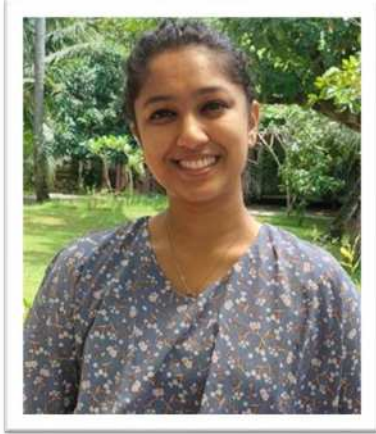
## **UP COMING EVENTS**

- ***Techshila - Dec 20<sup>th</sup> 2022***
- ***KTU sponsored FDP on energy efficient building construction - Dec 12<sup>th</sup> to Dec 16<sup>th</sup> 2022***
- ***Third International Conference on innovative trends in engineering for sustainability - April 11<sup>th</sup> to 13<sup>th</sup> 2023***



- **Association & Activities**

- **Slogan Making Competition Winners**



*Anna Santhosh  
CSE*



*Neha Eliza Varghese  
CE*

- **Prototype Exhibition**



*Light Weight Concrete  
Block with Cloth Pieces*



*Rapid Sand Filter  
Using Rice Husk and  
Groundnut Shell*

## INDUSTRIAL VISIT

- **2021 Admission (S3) students visited Qcrete Readymix Pvt. Ltd. Ambalamugal**



- **2020 Admission (S5) students visited Kundala dam, Mattupetty dam, and Munnar**



- **2019 Admission (S7) students visited Mangalore and Goa.**





## Site Visit to Chinmaya Vishwa Vidyapeeth Deemed University



*Site visit by S8 B.Tech (2018 Admission)*



*Site visit by S2 M.Tech (2021 Admission)*

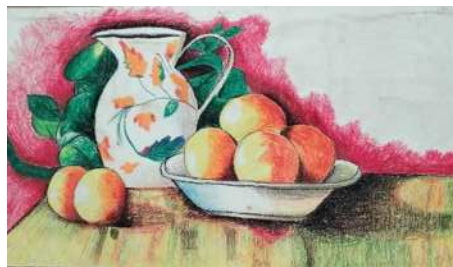
# DRAWINGS



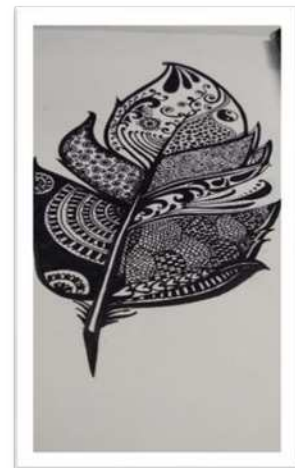
Asst.Prof. Keerthy Sabu  
Dept. of CE



Abhirami Raj  
S5 Civil



Megha V R  
S5 Civil



Haripriya V  
S5 Civil





Anandhu Sumesh  
S5 Civil



Jithin Ratheesh  
S5 Civil



Safrin Saif  
Safrin Saif S5 Civil



Megha V  
S5 Civil