

SANSKRITI

VOLUME 13



Department Newsletter 2020
CIVIL ENGINEERING DEPARTMENT

B.TECH 2016-2020 BATCH TOPPERS (RESULTS UPTO S7)



ANJU RAJU
CGPA- 8.76



JIBI KURIEN
CGPA- 8.54



RESHMI RAMESAN
CGPA- 8.35

M.TECH 2018-2020 BATCH TOPPERS



ANAGHA R
CGPA- 9.29



ASHIF A R
CGPA- 9.08



MAGITHA RUBY P P
CGPA-8.99

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 .

VISION

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

1. Provide ambience to create civil engineers of global standards to serve the society collaboratively, competently and ethically.
2. To provide an academic environment for lifelong learning nurturing the skills 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 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.

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.

EDITOR'S NOTE

"Excellence is doing ordinary things extraordinarily"

We, the editorial board takes immense pleasure in introducing the latest edition of 'Sanskriti', the magazine of the Civil Engineering Department, TIST. The contribution and determined dedication of the faculty and students did provide purpose and has been of utmost help to Sanskriti. Sanskriti serves as an apt platform to bring out the latent talents and embellishes the creative side of the Civil Department. Owing to the limitations of the current Covid situation, Sanskriti is released as an E-magazine. We request your earnest patience with its shortcomings. We extend our sincere gratitude to every hand that lent help and every word of advice given which took Sanskriti to its epitome.

-Editorial Team

SANSKRITI CREW

FACULTY CREW



Asst. Prof. Vidya Jose

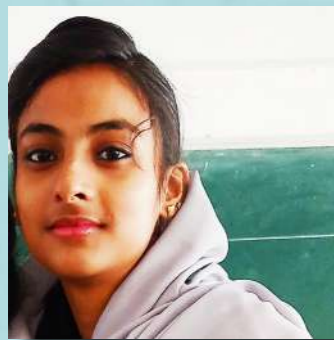


Asst. Prof. Elba Helen George



Asst. Prof. Annie Sonia Xavier

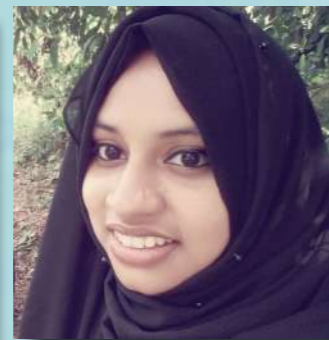
STUDENT CREW



Afrin Siyad



Archa Dileep



Sarah Ali PA



Asmy Babu V



Roshan Mathew Varghese



Edwin George PM



Muhammed Fayiz

PRINCIPAL'S MESSAGE



Department of Civil Engineering of Toc H Institute of Science and Technology is accredited by NBA and is one of the best department of TIST with excellent results and placements. The department has taken an active role in Sampoorana Jalasuraksha Mission, Rebuild Kerala Project, Preparation of DPR for rehabilitation of street vendors Piravom and Maradu Municipality, Pradhan Mantri Awas Yojana etc. The department has several funded projects to its credit. I am sure that its newsletter Sanskriti will surely elaborate on the various activities undertaken by the department including Faculty and student development programs, product development, consultancy services offered and its future plans. I wish the department all success in its future endeavors.

*PROF. (DR.) PPREETHI THEKKATH
PRINCIPAL*

HOD'S MESSAGE

Congratulations for bringing out successfully the 13th volume of 'Sanskriti'.

The world, as a whole, is going through one of the most difficult times of the century- The Great Lockdown. We have always taken pride in our achievements but learnt the hard way that even a small invisible virus can bring us all down on our knees. But we have proved our resiliency in the past and I'm sure we will, even today. The release of 'Sanskriti', despite these tough times, holds testimony to this. Nobody knows decisively how to overcome this pandemic, which is hovering above us, be rest assured nonetheless that we have the best people working on it.



This year we witnessed the demolition of three strong, new residential buildings in Kochi. As civil engineers, we got the rare opportunity to observe the intricate and well-planned exercise which did not affect any of the adjacent structures and we learned the technical and operational aspects of it. But as fellow citizens, we feel melancholic that many people were made homeless overnight for no fault of theirs. Our Kochi city is also shouldering the burden of the bad design and construction of the Palarivattom bridge with no use to anyone. As Civil Engineers, you and me both are accountable for inferior works and I hope this ethos remains with you throughout your future professional life.

Everything, be it academics, jobs or the lifestyle we engage in, will now be considered as *before and after COVID-19*. Hence, we have to adapt to the new ways of life and come out with flying colours. As Hellen Keller said, "Although the world is full of suffering, it is also full of the overcoming of it."

Well, even among all these adversities we, the civil engineering department, TIST have our own moments of glories and achievements. Our department is reaccredited by NBA till June 2023. We have organized the farewell for our outgoing students on virtual platform. We have got 100% results for M Tech and our placement is getting better. We could organize FDP and webinar with our alumni as resource persons.

Our department is now a recognized research center by KTU with approved guides in the department. Our staff have designed and developed products to suit the COVID-19 conditions and sent to KTU. Our 2017 admission students have organized teachers' day celebration to felicitate the teachers. Our way to glory is possible only with the collective efforts of a proactive management, encouraging principal, motivated staff along with the commitment of our students. I congratulate all staff and students for their efforts and dedication to bring such laurels to our department...

As you must've heard me reminding you, we should be aware of the constant technological changes happening in the field of Civil Engineering and constantly realign ourselves to upgrade and update with the latest technologies and best construction practices. Let us be united for building up a glorious future for our department which will bring us happiness, better placement opportunities and an overall sense of well-being and social responsibility. Congratulations again to all contributors and the editorial board of 'Sanskriti', the Civil Engineering Newsletter. You all have done a wonderful job! I take this opportunity to thank the management, principal and the staff of this institution for all the support extended to us in all our endeavors.

Wishing you all the very best for a bright and better future...

*PROF. LATHI KARTHI
HOD CIVIL DEPARTMENT*

EDITOR IN CHARGE

Warm greetings to all !!!

In the midst of this pandemic situation, it gives me immense pleasure to bring out the 13th edition of the department news-
letter Sanskriti which is excellent with respect to the contents, varying articles and information on various activities of the Civil Engineering Department. It's all about being together, sharing memories and exploring all the wonderful things.



Throughout the previous year, the department has organized various FDP's, online webinars etc. The contribution given by the department to prevent the wide spread of COVID-19, such as foot tap, face shield for safety helmet etc. were highly appreciated. The virus has brought about many changes in every sphere of life and this academic year marks some especially exciting new changes. The rapid transition from college classrooms to online classes in the wake of COVID-19 has given faculty members little to no time for planning & preparation. Yet they were able to effectively switch over to the online mode of teaching by providing videos, online sessions & tutorials with guidelines for best practice. As a committed organization, TIST is well positioned to be a positive beacon to the surrounding community as we continue to go through challenging times.

On behalf of Sanskriti team, I would like to express our gratitude & thanks to the management, teaching & non-teaching staff and students for the kind & continued support.

May the God Almighty shower His blessings upon all.

*ASST. PROF. VIDYA JOSE
EDITOR IN-CHARGE*

OUR STRENGTH

TEACHING STAFF



NON TEACHING STAFF



Colourful Moments

*Asst. Prof. Elba Helen George
got married to
Sajan Varghese
on 11-5-2020*



Welcome to CE Family



Asst. Prof. Archana C P

B tech: Government Engineering College Thrissur (2008-2012)
M.tech: Specialization in Environmental Engineering, College of Engineering Trivandrum (2013-2015)



Asst. Prof. Anjita N A

B.Tech: Federal Institute of Science and Technology, Angamaly (2013-2017)
M.Tech: Specialization in Remote Sensing and GIS, National Institute of Technology Karnataka



Jishnu Jayan
Lab Instructor

Diploma in Civil Engineering Govt. Polytechnic College, Kalamassery and B.tech in Civil Engineering Toc H Institute of Science and Technology, Arakkunnam (2019)



Asst. Prof. Chithra C J

BTech - SNGCE Kadayiruppu (2006-2010)
M.tech: Specialization in Water resources and Hydroinformatics Government Engineering College Thrissur (2011-2012)



Asst. Prof. Anjali M

B.Tech: College of Engineering Trivandrum(2008-2012)
M.Tech: Specialization in Traffic and Transportation Planning NIT Calicut(2016-2018)



Vishnu Ganga
Lab Instructor

B.Tech in Civil Engineering Prime College of Engineering, Palakkad (2014-2018)

CEA ACTIVITIES (2019-20)

Civil Department is recognized as authorized research centre in APJ Abdul Kalam Technological University (KTU), Kerala.

B Tech 2019 Admission students secured 100% result in VIII semester University examination.

Department celebrated World water day on 22nd March. Even though there is no celebrations this year due to the difficult situation in which whole world is affected by Corona, the department of Civil engineering also contributes in breaking the chain along with remembering the importance of water day

Celebrated World Environment Day on June 5th, 2020 by planting a tree inside TIST campus. This was done as a token of love towards our students of 2016-20 Batch.

TECHSHILA 2K20 was celebrated on January 31st & February 1st with various technical and non technical events such as Best Out of Waste, Survey Hunt, Poster Making, AutoCAD, Crime Scene Investigation, Neon Football etc.

Department Technical Magazine "Nirmana", Newsletter " Sanskriti" and News bulletin " Civil Reflections" was released on 31 st August 2019 in presence of Dr. Alex Mathew, President, Prof. Dr. P J Joseph, Director, and Mr. K A Simon, Director, Toc H Public School Society

SAMPOORNA JALASURAKSHA MISSION- The Department of Civil Engineering is happy to be a part of Sampoorna Jalaparishodhana by providing Technical assistance to Kerala Government's prestigious project "Complete Water Safety Mission" at Amballoor Panchayath. The project gives an exposure for students to water testing and checking the suitability of water for drinking purposes.

REBUILD KERALA-Department of Civil Engineering of TIST is happy to go hand in hand with the Govt of Kerala for achieving the aim to ensure a resilient recovery and development pathway for a Nava Keralam. The department has extended the support by conducting survey and soil investigation of various LSGD roads in Ernakulam District, for the rehabilitation and reconstruction of the same. Surveys were conducted at Chendamangalam, Kadungalloor, Kizhakkambalam, Vadavucode, Kadamakudy and Kumbalangy gramapanchayaths.

*Bid Farewell to Asst. Prof. Emy Paulose | Asst. Prof. Anu V.V
P M Varghese | Remya C Ramanan | Elias K S*

To develop Piravom Municipality as a street vendor free zone, Department of Civil Engineering, TIST had carried out road survey at Piravom town to provide rehabilitation of street vendors.

PRADHAN MANTRI AWAS YOJANA (PMAY)-Submitted project report on plan, analysis, design and detailing of working women's hostel with day care facility at Mulamthuruthy Block Panchayat under PMAY scheme. TIST Civil Department is the technical supporter of MBP.

Department of Civil Engineering organized an FDP on "Construction Management in Building Information Modeling" from 30th December 2019 to 4th January 2020. The Program gave an insight to areas such as Architectural Modeling, Structural Modeling, Documentation, Construction Management, Generative Design and Connected BIM.

Department of Civil Engineering organized a KTU sponsored 6 day FDP on "Emerging trends in Sustainable development in Transportation Engineering" from 23rd to 28th September 2019.

Department of Civil Engineering, along with GeeksLab Technologies, an Intern of IIT Delhi organized a 3-day faculty development program on "Construction Project Management" from 23rd to 25th May 2019.

As part of Covid Cell Activities, Department has installed a FOOTAP (Foot Operated Tap) in Canteen. Also designed Detachable Face Shield for Safety Helmet

Department carried out consultancy works such as Design and construction of underground water tank (size 10 m x 4 m x 3 m), Testing of construction materials, Proof Checking of Design, Rebuild Kerala – Surveying and Soil Investigation etc. Major Consultants are STICON, Naval base, PWD, Govt. of Kerala etc.

B.Tech 2019 Admn students secured First prize in ICI Cube testing Competition

B.Tech (2015-2019 Batch)-60% students are placed at Infosys, TCS, WIPRO, Various Construction companies and 20% students have joined for higher studies.

B Tech (2016-2020 Batch)-13 students got Campus Placement at Infosys, TCS, Sutherland etc.

Eight students have done Paper Presentation. Paper Publication by Faculty – 30 No.s and Students – 32 No.s (Both P.G. & U.G)

B Tech Honours :2016 Admission – 5 Nos & 2017 Admission – 16 Nos

MOOC Courses are done by both UG and PG Students. UG – 40 Nos and PG – 7 Nos

Virtual Farewell party was arranged for B Tech 2016-2020 Batch

Christmas and New year were celebrated in the department. Gifts were shared among teaching and non teaching staff and everyone enjoyed Christmas cake.

As a part of continuous improvement of teaching and non-teaching staff, a site visit was organized at the Chambakkara old bridge demolition site on 10-12-2019.

Third year students (2017 admn) students visited Namdroling Monastery Golden Temple, Harangi reservoir, and Final year students (2016 admn) visited CSEZ Water & Waste water Treatment plant

To gain the knowledge of behaviour of structure, faculty had visited Palarivattom Bridge

Naveen Giri, Vijay Nair (2016 Admission) and Vishnu Bipin (2017 Admission) secured First position in KTU D Zone Chess Championship held at RSET, Kakkanad on 20/10/2019

Department of Civil Engg. secured First position in inter department Cricket Tournament 2020.

Razeen Raihas Hussain, S5 CE (2017 Admission) secured First runner up in KTU D Zone table tennis tournament, held at FISAT on 13/10/2019

Naveen Giri, S7 CE (2016 Admission) secured 2nd position in KTU Inter Zone Individual Chess Championship held at NSS Palakkad on 28/10/2019 and was selected to KTU University team.

Vishnu Bipin, S5 CE (2017 Admission) secured 13th position in KTU Inter Zone Individual Chess Championship held at NSS Palakkad on 28/10/2019

UPCOMING EVENTS

17th & 18th November 2020
International Conference on
Innovative Trends in Civil Engineering for Sustainability
(ICICES-2020)

SOCIAL OUTREACH PROGRAMMES

SAMPOORNA JALASURAKSHA MISSION

The Department of Civil Engineering is happy to be a part of Sampoorna Jalaparishodhana by providing Technical assistance to Kerala Government's prestigious project "Complete Water Safety Mission" at Amballoor Panchayath. Water samples were collected from different sources and tested. The project gives an exposure for students to water testing and checking the suitability of water for drinking purposes.



REBUILD KERALA

The Rebuild Kerala Initiative, (RKI), presents a unique approach to rebuilding the State after the disastrous flood of 2018 that affected almost all the parts of Kerala. Department of Civil Engineering of TIST is happy to go hand in hand with the Govt of Kerala for achieving the aim to ensure a resilient recovery and development pathway for a Nava Keralam. The department has extended the support by conducting survey and soil investigation of various LSGD roads in Ernakulam District, for the rehabilitation and reconstruction of the same. Surveys were conducted at Chendamangalam, Kadungalloor, Kizhakkambalam, Vadavucode, Kadamakudy and Kumbalangi gramapanchayaths.



SURVEY FOR REHABILITATION OF STREET VENDORS AT PIRAVOM MUNICIPALITY

To develop Piravom Municipality as a street vendor free zone, Department of Civil Engineering, TIST had carried out road survey at Piravom town to provide rehabilitation of street vendors.



WORKSHOPS & SEMINARS

FACULTY DEVELOPMENT PROGRAM

Department of Civil Engineering organized an FDP on “Construction Management in Building Information Modeling” from 30th December 2019 to 4th January 2020. The resource Persons were Er. SujishaV, Assistant manager- Technical, BIMLABS ES Pvt.Ltd and Er.Aslam Mohammed Ashraf, Technical Engineer, BIMLABS ES Pvt.Ltd. The Program gave an insight to areas such as Architectural Modeling, Structural Modeling, Documentation, Construction Management, Generative Design and Connected BIM.

PRADHAN MANTRI AWAS YOJANA (PMAY)

Submitted project report on plan, analysis, design and detailing of working women’s hostel with day care facility at Mulamthuruthy Block Panchayat under PMAY scheme. TIST Civil Department is the technical supporter of MBP.



FACULTY DEVELOPMENT PROGRAM

Department of Civil Engineering organized a KTU sponsored 6 day FDP on “Emerging trends in Sustainable development in Transportation Engineering” from 23rd to 28th September 2019. The FDP was inaugurated by Er. G.KesavaChandran, Chief Engineer DMRC and gave inaugural address on Sustainable aspects adopted in Kochi metro. In various sessions followed by the inaugural session, experts delivered lectures on various aspects related to the theme. Prof. Dr. Lelitha Devi from IIT Madras, Prof. Dr. Samson Mathew from NIT, Trichy, Dr. Harikrishna.M from NIT Calicut, Dr. Vishnu from TKM, Er. Shyju Nair from Ambuja cements, Prof. Dr. Satyakumar, former faculty of CET, Trivandrum, Er. Remjish R S and other experts shared their ideas amongst the faculty members during this FDP. It also included a site visit to Palarivattom bridge, Steel girder construction for Metro at Chambakkara and Kundannoor bridge. The FDP concluded by the valuable suggestions and experience sharing by Er. Mathew David, Retired Supervising Engineer of Roads division, New Jersey, USA. Thirty one participants from various institutes affiliated to KTU attended the programme.



Department of Civil Engineering, ToCH Institute of Science and Technology, Arakkunnam along with GeeksLab Technologies, an Intern of IIT Delhi organized a 3-day faculty development program on “Construction Project Management” from 23rd to 25th May 2019. The FDP was inaugurated by Prof. LathiKarthi, Head of Civil Engineering Department. The program consisted of 3 technical talks by Mr. Vinay Kumar Pathak and Mr. GokulDarshan. The FDP focused on some of the important aspects of Project management. Finally, an apractical session on the latest techniques and tools used in construction Project Management was conducted.



SPORTS ACHIEVEMENTS

Adhil A Salim, Abin Shekar, Aswin A H, Athul S, Muhammed Remees M Y, Jinu Paul, Ebin Martin, Naveen Giri, Rahul Gopan, Astil Jose, Akhil S, Alan Prince Vavachan secured First position in the Inter Department Cricket Tournament 2020.



Razeen Raihas Hussain (S7) secured First runner up in KTU D Zone table tennis tournament, held at FISAT on 13/10/2019



Naveen Giri, (2016 Admission) secured 2nd position in KTU Inter Zone Individual Chess Championship held at NSS Palakkad on 28/10/2019 and was selected to KTU University team.

Vishnu Bipin, (S7) secured 13th position in KTU Inter Zone Individual Chess Championship held at NSS Palakkad on 28/10/2019

Naveen Giri, Vijay Nair (2016 Admission) and Vishnu Bipin (S7) secured First position in KTU D Zone Chess Championship held at RSET, Kakkanad on 20/10/2019



The Third Eye in Human Beings

One of the most wondrous part of the human body is the third eye. It is mainly known as pineal gland. Its shape resembles a tiny pine-cone. It produces the hormones which affect mood and modulate our wake/sleep patterns and seasonal functions.

Many myths support the presence of third – eye. For example the third-eye of Lord Shiva is in reality is the pineal gland. This super conducting resonator has mysteriological powers.

Once the third eye is developed it is for more powerful than any of our 5 human senses. It is not a part of brain, but it locates in the centre of our brain.

This can be activated by sunlight and also by sound resonance. When the pineal gland does not receive sunlight, it can result in increased blood pressure leading to fears and anxiety, it can also induce our sleep.

To activate the ‘third eye’ and perceive higher dimensions, the pineal and pituitary glands must vibrate to create a field, which is achieved through meditation, mantra chanting and surya Yoga.

By developing the pineal gland can produce spiritual powers which is times stronger than physical power. The thing which we call ‘Amit’ is not external. It is produced inside our head.

All you need to know is how to produce it by your own mind.

ARCHA DILEEP
55



*If you fail never give up because
FAIL means ‘FIRST ATTEMPT IN LEARNING’*

*End is not the end, in fact END means ‘EFFORT NEVER DIES’
If you get no as an answer, remember NO means ‘NEXT OPPORTUNITY’*

A.P.J. Abdul Kalam was born in a middle class family in the island town of Rameswaram, Tamilnadu. Abdul kalam has three brothers and one sister. His father Jainulabdeen, had neither much formal education nor much wealth; despite these disadvantages, he possessed great innate wisdom and a true generosity of spirit. The real and ideal helpmate is his mother, Ashiamma. “I do not recall the exact number of people she fed every day, but I am quite certain that far more outsiders ate with us than the members in our family”

Our former President deserves a great deal of appreciation for his hardwork, which brought many new ideas that improved our economy. He was pretty interested in books and spent his most time with them. His father supported and encourage him to whatever he said he wanted to join the Airforce but he failed.

He never give up his desire to fly. He became a trained Aeronautical Engineer and contribute great share in the launch of the first rocket of India. He had so many awards such as Padmabhushan (1983), Padma Vibhushan (1990), he has also been honoured with India’s highest civilian award the Barath Ratna. Once he writes in his book the eternity quest.

“You have to dream before you dream true” He dream big and his dream came true, he became the President of our nation. He is a king of Indian Space Research at this time and called as Missile Man of India

AFRIN SIYAD
55



The Diary Of a Young Girl

The Diary Of a Young Girl ,also known as The Diary Of Anne Frank, is a book of the writings from the Dutch language diary kept by Anne Frank while she was in hiding for two years with her family during the Nazi occupation of the Netherlands. The family was apprehended in 1944 and Anne Frank died of typhus in the Bergen-Belsen concentration camp in 1945. The diary was retrieved by Miep Gies who gave it to Anne's father, Otto Frank, the family's only known survivor, just after the war was over. The diary has since been published in more than 60 languages.

During the Nazi occupation of the Netherland ,Anne Frank received a blank diary as one of her presents on 12 June 1942, her 13th birthday. On 5th July 1942, Anne's older sister Margot received an official summons to report to a Nazi work camp in Germany, and on 6th July, Margot and Anne went to into hiding with their parents Otto and Edith.

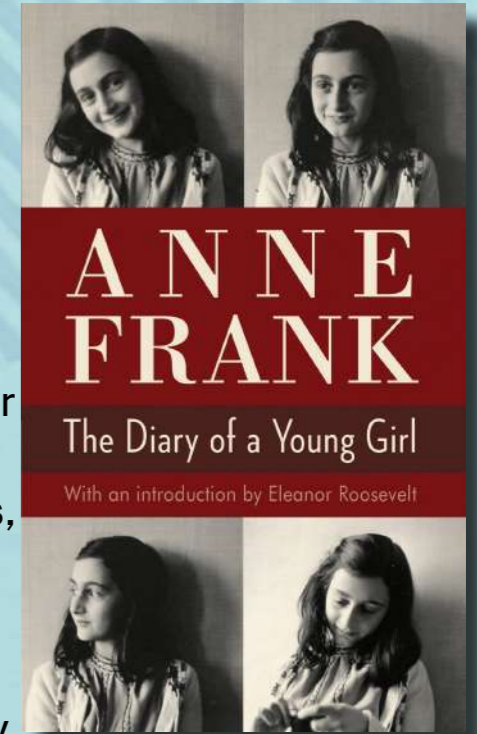


Their hiding place was in the sealed-off upper rooms of the Annex at the back of Otto's company building. With the assistance of a group of Otto's Frank's trusted colleagues, they remained hidden for two years and one month. In August 1944, they were discovered and reported to Nazi concentration camps. Of the eight people, only Otto Frank survived the war. Anne was 15 years old when she died in Bergen-Belson. The exact date of her death is unknown.

In the 1960s, Otto Frank recalled his feelings when reading the diary for the first time, "For me, it was a revelation. There, was revealed a completely different Anne to the child that I had lost. I had no idea of the depths of her thoughts and feelings."

Michael Berenbaum, former director of the United States Holocaust Memorial Museum, wrote , "Precocious in style and insight, it traces her emotional growth amid adversity. In it she wrote. 'In spite of everything, I still believe that people are really good at heart.' In 2009, the notebooks of the diary were submitted by the Netherlands and included in UNESCO's Memory of the World Register.

The diary is not written in the classic forms of "Dear Diary" or as letters to oneself. Anne calls her diary "Kitty", so almost all of the letters are written to Kitty. Anne had expressed the desire in the rewritten introduction her diary for one person that she should call her truest friend, that is ,a person to whom she could confide her deepest thoughts and feelings. She observed that she has many friends and equally admirers, but no true. dear friend with whom she could share her innermost thoughts. She originally thought her girlfriend Jacque Van Maarsen would be this person, but that was only partially successful. Ultimately , it was only to Kitty that she entrusted her innermost thoughts. In her diary, Anne wrote of her very close relationship with her father, lack of daughterly love for her mother and admiration for her sister's intelligence and sweet nature



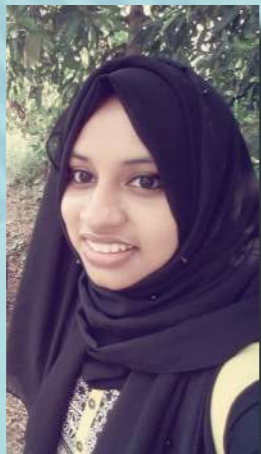
SANDHRA AJAYAKUMAR
55



Corona Virus Slayer

Most inspiring women personality, that Kerala has ever seen, about whom the international media look upon for her strategies against COVID-19, Who was featured by Vogue magazine for her corona warriorship and by BBC for Asian Women corona fighters is K K Shailaja, popularly known as Shailaja Teacher, current Health and Social Welfare Minister of Kerala. She was honored by United Nation on June 24th 2020 for her effort to fight the COVID-19 pandemic in our state. She was one among the delegates across the world invited to speak on United Nations public service day. She was the only speaker from our country to share about the methods adopted to control the transmission of Corona virus as she was successful in the controlling and swiping out Nipah virus in 2018, which is one of the deadly disease that has no vaccination and no treatment protocol said as far as WHO. She is a person with strong work ethics and commitments. As a health minister she was on full duty during the outbreak of Nipah virus. She did all her duties perfectly. Whether day or night she was at her full swing to monitor the situation and make the necessary arrangements. The coordinated hard work of the minister, health department, doctors, nurses and all the other people behind made it possible that the Nipah virus was swiped out and prevented not spreading to other districts of Kerala. Still now they are trying to maintain the present scenario of COVID-19 under control. She always kept the people update with present situation and asked them to follow the rules said by the government by briefing the people through press meet. She had done interviews with international media, where the world looked upon the strategies adopted to control the spread, how they traced the people who came in contact and their effectiveness of home quarantine and the test even before the WHO came up with the COVID-19 protocol.

A BIG SALUTE TO EACH AND EVERYONE BEHIND FOR THEIR HARDWORK AND FOR THE SUPPORT THAT YOU GAVE US WHICH MAKE US FEEL THAT WE ARE IN THE SAFEST HANDS. THIS SHALL ALSO PASS. HOPE FOR THE BEST.



SARAH ALI P.A
55

Bravery and Conviction

Malala Yousafzai is a girl quite unlike any other being, shot in head by Taliban on her way home from school did act as deterrence but fulfilled her desire to help initiate change and create a world in which access to education is a fundamental right for all, regardless of sex. She is a symbol of hope and resistance. Working to overcome the violent objections to female education, not just in Pakistan but across the globe. To mark her 16th birthday July 12, she delivered a self-initiated petition to the United Nations demanding the enforcement of basic right of education, on astounding feat for the teenager.

Her story is remarkable demonstration of courage and shows just how much can be achieved through conviction in what is right. Malala was attacked by Taliban along with 2 other girls a protest against education for woman within Pakistan in October 2012. She had already defied the ban put in place the Taliban by attending the school. Yet the shooting did not silent her. Instead her incredible bravery drove her towards the educational activism; she seek to promote a discrimination bared upon gender and raise global awareness of the barriers faced by girls in certain countries.

However long before the shooting of Malala Yousafzai was an activist who compaigned against the Taliban and their views on female education. At the age of 11 she became the blogger for the BBC under a pseudonym, writing about her experiences with the Taliban in order to make the global problems faced by females in her local area within Pakistan. A documentary was made about her life detailing the hardships she and her family faced under Taliban rule, in which she stated "I must be a politician to save this country" As a consequence she was catapulted a fame which in turn led to her being shot.



In response to her work she has become the youngest person ever to be nominated for Nobel Peace Prize this year, and prior to this was also put forward for the International Children's Peace Prize 2011 by Deamond Tutu. These achievements are her testament to her bravery standing up against Taliban and speaking out for what she believes right. The fact that she is the winner of Pakistan's first National Youth Peace Prize further demonstrates the significant impact she has had upon both her home country and rest of the world.

Yousafzai has created a petition that aims to ensure that right to education is reality for both males and females and its success in gaining thousands of signatures has attracted media attention. Petition focus primarily on getting every girl and boy into school by December 2015 and ensuring the UN is committed to providing fund for the teachers, schools and books in order to make this aim a reality.

Malala Yousafzais story proves that nothing is impossible despite facing major obstacles she has managed to establish herself as an important force of driving forward female education across the globe. She focused on the solution to solving the problem both within Pakistan and on global scale rather than lingering on her ordeal with Taliban, demonstrating true courage and bravery along side a passion for equality that spurs on her actions. Yousafzai is now a symbol for positive change in world where a change is not always welcomed.

AFRIN SIYAD
55



"They firmly believed that she would be reborn in another world, at another time, in another form."

Pan's Labyrinth (2006) *Spanish War / Fantasy / Thriller*

Pan's Labyrinth is a 2006 spanish dark fantasy film directed by acclaimed director Guillermo del Toro. The story revolves around Ofelia, a teenage girl.

Ofelia stays with Captain Vidal, a cruel and fascist man, and her pregnant mother. She was fond of fairy tales and was very close to the fantasy world.

Immortal .. painless .. her love for the fantasy world may have created a cruel world around her .. The door to that world is opened for her surprisingly .. But she had to overcome 3 situations to reach that world ..

At the same time she was fighting for it, the guerrillas began to fight against the fascists, her cruel stepfather Vidal was preparing to become a father and her pregnant mother became sick. Things that were complementary were going on at the same time.



The cinematography of Guillermo, who captured the beauty of Spain, and the heartfelt music of Javier Navarro are worth mentioning. Vfx works and Production designing are yet another positive side of this film. A technically perfect film. Pan's Labyrinth is a masterpiece that has won numerous awards, including 3 Oscars and is widely accepted as one the best fantasy movie ever made.

Definitely watch this Del Toro Magic. One of the rare pictures to enjoy, thrill and think.

"She was loved by her people and that she left behind small traces of her time on Earth visible only to those who know where to look "

ALEN REJI
55



ആതിരപ്പിള്ളി ജലവൈദ്യുത പദ്ധതിയും പ്രളയം പഠിപ്പിച്ച പാഠങ്ങളും

1979-ലാണ് ഈ പദ്ധതിയെക്കുറിച്ച് കേരളം ആദ്യമായി കേൾക്കുന്നത്. അന്ന് പരിസ്ഥിതിയും മനുഷ്യനും വികസനവും തമ്മിലുള്ള ബന്ധത്തെക്കുറിച്ച് സമൂഹത്തിന് ഇന്നത്തെ അറിവല്ല ഉണ്ടായിരുന്നത്. ചാലക്കുടിപ്പുഴയുടെ കുറുകെ അണക്കെട്ടി 163 മെഗാവാട്ട് വൈദ്യുതി ഉൽപ്പാദിപ്പിക്കാനാണ് ലക്ഷ്യമിട്ടിരുന്നത്. ആതിരപ്പിള്ളി വെള്ളച്ചാട്ടത്തിൽ നിന്നും 6.7 കി.മീ ഉം വാഴച്ചാൽ വെള്ളച്ചാട്ടത്തിൽ നിന്നും 400 മീറ്ററും ഉയരത്തിൽ ആണ് നിർദ്ദിഷ്ട അണക്കെട്ടിന്റെ പദ്ധതി.

വൻകിട അണക്കെട്ടുകളെക്കുറിച്ചും ജലവൈദ്യുത പദ്ധതികളെക്കുറിച്ചും ലോകം മാറിചിന്തിക്കുകയാണ്. ജലവൈദ്യുത പദ്ധതികൾ തന്നെ ഡീ കമ്മീഷൻ ചെയ്യണമെന്ന അഭിപ്രായമാണ് ഇന്ന് ലോകത്ത് നാനാഭാഗത്തുനിന്നും ഉയരുന്നത്. നദികളിലെ ജലലഭ്യത കുറയുകയും 20 ഇനം മത്സ്യ ഇനങ്ങളുടെ വംശനാശത്തിനും പരിസ്ഥിതിക്കും ദോഷം വരുന്നതുമായ ഈ പദ്ധതി ഒഴിവാക്കപ്പെടേണ്ടതുതന്നെ.

138.6 ഹെക്ടർ വനഭൂമിയാണ് പദ്ധതിക്കുവേണ്ടി ഹോമിക്സ്പെട്ടീവുക- 195 ഹെക്ടർ തണ്ണീർത്തടങ്ങളും. വനങ്ങളുടെ പ്രാധാന്യം ഓരോ നിമിഷവും ലോകം തിരിച്ചറിയുമ്പോൾ, അടിക്കടി രണ്ട് പ്രളയങ്ങൾ കണ്ട് കേരളത്തിൽ ആർക്കാണ് ഇതിന്റെ ഭവിഷ്യത്ത് തിരിച്ചറിയാൻ പറ്റാത്തത്? കാടുകൾ നശിപ്പിച്ചും വെള്ളച്ചാട്ടത്തെ കൊന്നും പ്രാണവായുവും ശുദ്ധ ജലവും നഷ്ടപ്പെടുത്തിയും വലിയ സാമ്പത്തിക നഷ്ടം സഹിച്ച് അണക്കെട്ട് നിർമ്മിച്ചു തീരു എന്ന് ശാഠ്യം പിടിക്കുന്നവർ പുരോഗമനവാദികളോ മനുഷ്യരുടേയും പ്രകൃതിയുടേയും ശത്രുക്കളോ?

400 കോടി രൂപയായി 2001ൽ നിശ്ചയിച്ച ചെലവ് ഇപ്പോൾ 1500 കോടിയാണ്. രാജസ്ഥാൻ സർക്കാരിന്റെ പുതിയ സോളാർ പദ്ധതിക്ക് ഒരു യൂണിറ്റിന് ചെലവ് 2 രൂപ 48 പൈസ മാത്രമാണ്. 12 വർഷം കഴിഞ്ഞാൽ ആതിരപ്പിള്ളിയിൽ നിന്നും യൂണിറ്റിന് 15 രൂപയ്ക്ക് വൈദ്യുതി കിട്ടിയേക്കും. പണ്ട്കാലത്ത് ജലവൈദ്യുത പദ്ധതികൾ ചെലവു കുറഞ്ഞവയായിരുന്നു. ഇപ്പോൾ അതല്ല സ്ഥിതി. പരിസ്ഥിതി നാശം ഒഴിവാക്കി, ആദിവാസികളെ സംരക്ഷിച്ച്, ഭൂമിയിലെ ആവാസവ്യവസ്ഥയെ നിലനിർത്തി, പശ്ചിമഘട്ടത്തെ സംരക്ഷിച്ച് മുന്നോട്ടുപോവുക എന്നതാണ് പരമപ്രധാനമായ കാര്യം.

പ്രളയാനന്തരം പുതുക്കി പണിയുന്ന നവകേരളത്തിന് ഒരു തിലകക്കുറിയാവട്ടെ പ്രകൃതിസംരക്ഷണവും പശ്ചിമഘട്ട സംരക്ഷണവും.

ദീപ്തി 55



एक दोस्त है मेरा

एक दोस्त है मेरा
जो कहानियां लिखता है
जिनमें कई रंग के किरदार
जीते हैं मरते हैं
और किरदार उसके
बंडी दृबंडी
मगर अच्छी बातें करते हैं द
ऐसा नहीं कि वो जानता नहीं
कि किरदार उसके
झुटे हैं सारे
फिर भी मगर उसको जीता हैं
कि ये दुनिया
कुछ इस कदर हो जाए
कि हर आदमी सुकून से जी सके
और कह सके आदमी खुद को द

एक दोस्त है मेरा
जो कहानियां लिखता है द
पर कहां ऐसा होता है ?
ऐसा वो भी कहता है द
कहानी में जब
बात यहां तक पहुँचती है
तो कहानी खत्म हो जाती है
और जो किरदार होता है
उन किरदारों के चेहरे उतर चुके होता है
ठीक वैसे ही
जैसे छिलके मटर के सड़क पर पड़े होता है
और कहानी, किरदार और मेरा दोस्त
तीनों घुट-घुटकर मरते है द
एक दोस्त है मेरा
जो कहानियां लिखता है

माया कृष्णन 55



Dream Girl

Dream girl , wake up wake up
Time is here,
Anklet glows the darkness
Walk around , the night is blissful
Moon light visible the shadow
Wings are at liberty
Travel the world , explore
Quill is glittered
Vision is dream
Surname differ your identity
Soulful heart , without tocher
Approaches , to knot....
Angels of heaven fulfill
Everything before you leave
No godfather , believe yourself
Compete the world
Wear the crown
Dream girl , wake up up....

ASHMY BABU V
55



Keys to the doorways to success

- * A good name is better than precious ornament.
- * Believe in yourself and don't worry what your critics think.
- * Choose your words carefully - to express, not to impress.
- * Decisions are meaningless unless you act on them.
- * For, the love of money is the root of all evil.
- * Great genius have the shortest biographics.
- * In silence there is a strength.
- * Language is the dress of thought.
- * Make hay while the sun shines.
- * Necessity is the mother of invention.
- * Obedience is better than sacrifices.
- * Examples is the lesson that all men can read.
- * Time and Tide waits for none.
- * Zero in on your target and go for it.
- * Quality is important than quantity,
- * Review past lessons to discover new opportunities.

EDWIN GEORGE
55



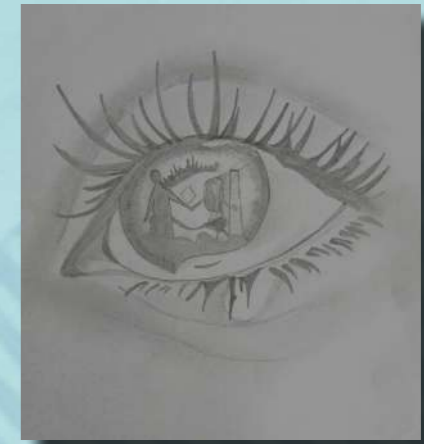
Interesting facts

- * Dust from Africa can travel all the way to Florida
- * At least 12 rocks from Mars have landed on earth
- * Elephants are the only animal that can't jump.
- * A gold fish has a memory span of three seconds.
- * If you yelled for 8 years, 7 months and 6 days, you would have produced enough sound energy to heat one cup of coffee.
- * Polar bears are left handed.
- * Our eyes are always the same size from birth, but our nose and ear never stop growing.
- * A cockroach will live nine days without its head, before it starves to death.
- * Butterflies taste with their feet.
- * A dragonfly has a life span of 24 hours.
- * There are more stars in the Universe than grains of sand on the Earth.
- * Cows give more milk, when they listen to music.
- * Polar bear can eat 86 penguins in a single sitting.
- * A male Kangaroo is called a Boomer.
- * A turtle live for more than 200 years.
- * Shark is the only fish that can blink both the eyes.
- * A new born Kangaroo is small enough to fit into a spoon.
- * It is impossible to sneeze with your eyes open.
- * A snail can sleep for 3 years.
- * The electric chair was invented by a dentist.
- * In the last 4000 years, no new animals have been domesticated.
- * Babies are born without knee-caps. They don't appear until the child reach 2-6 years old.

ASHIQUE K KUNJUMON
S5



ANJALI MANOHARAN S5



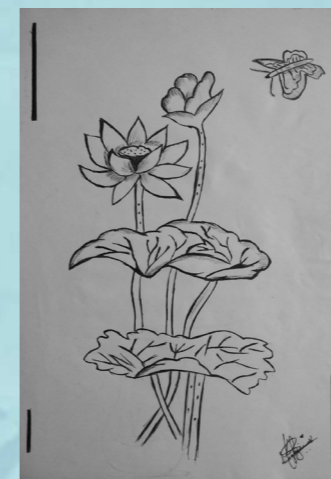
AFRIN SIYAD S5



MALAVIKA SREENI S5



SREELAKSHMI S SHAJAN S5



MEGHA SAJEEV S5



SARAH MATHEW
B.TECH 2016-2020 BATCH

A Journey to Remember

As the B.Tech batch of 2016-2020 bid farewell to us, a few of our beloved seniors share memories of their cherished college life



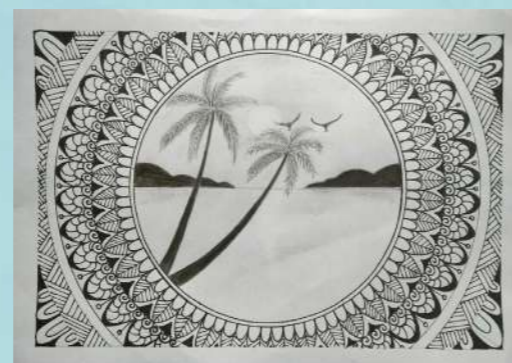
FIONA ALIAS
B.TECH 2016-2020 BATCH



ALEESHA ANNA SAJU
M.TECH S3



ANGEL JAMES S5



AISWARYA MANIKANDAN S5



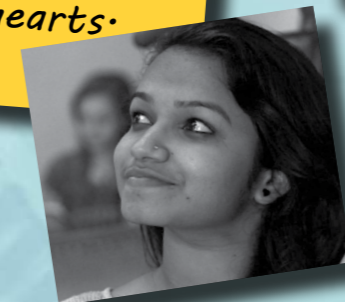
ROSHAN MATHEW VARGHESE S5



RHISHI RAJ K
M.TECH S3

August, the month which gave a headstart to four beautiful years of what can be termed as "best days of my life" the friendship, the Family i gained, the moments spent inside & outside of the four walls - each one being a perfect memory. well it sure wasnt the end we were hoping for, with covid19 striking its course. Nevertheless, will always look back at the most blissfull moments i ever lived.
-Amal Alex

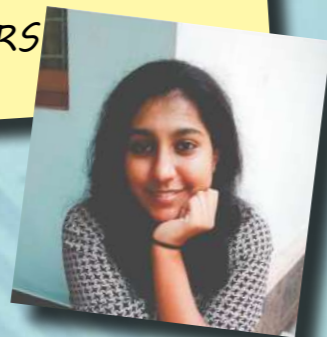
From all the new faces on day one to the faces I wished I could see longer, loads of memories were made. The class was more like a happy place for all of us. We had our little laughs, fights, games, fun and entertainment all along. I am so thankful to have each one of those "different in nature but United by heart" ones in my life. Those memories made will last forever in our hearts.
-Sarah Mathew



Besties bdays are celebrated in our own bestest way. Our 1 hour (almost) lunch break starts, two or maybe three of us hops onto a bike and off to the bakery. Well all sorts of cakes with different flavours and prices are available, we had to stick on our "very minimum budget" where everyone claims, they had contributed, yet nobody complains and thats the irony. Well packed cake has arrived in such secrecy resembling some sort of smuggling is going on. Its now 4pm, birthday buddy is accompanied by all the 56 to the ground, amidst the mango trees, cake is cut. The party is on, many hands with loads of cream is now on birthday buddy's face, and he who is wondering "WHAT HAS JUST HAPPENED??" He now fights back. Finally none of us recognise each other with faces packed with cream and we can hear complaints too of not getting cake. A free facial is now over!! Each one had their birthdays so memorable and bashing!!
OUR FANTASTIC FOUR YEARS
 -Ciya Paniker



Four years! All these years passed in a fraction of second. We always used to think that our batch is soo unlucky, from the very first semester to the last one we had gone through several hardships that begins from the first birthday celebration of our classmate, our first university exam, our first dept techfest, onam celebration, our IV and the list goes on. Amidst all of these we always found a way to have our own little happiness, be it bunking the classes and enjoying in the ground together, going to NIT Calicut together and several such little moments. Eventhough we had several gangs within our batch, we always stood together whenever anyone of us had to face any problems. Our final year had been the most toughest. We barely had classes, we missed our last IV, our farewell and our college day. We left our college on March 10th expecting the classes will resume within few days. But that day never came! And our college life never had a happy ending.
 -Rinza



When a well planned three day trip to Coorg, Chikmagalur and Mysore finally ended up at Wayanad, that was the Industrial Visit of 3rd year. Beginning from The Dubare Elephant camp to the nights out in the town of Chikmagalur and finally the waters at Wayanad we had the best 3 days of our college days. Never we knew it was our last and the final Industrial Visit. Holding on to those thousand memories of our best days!
 -Megha Madhusudanan



Magic Beans

It was the band night of ADVAY 2k20. We were all there at our very own Indira Gandhi indoor auditorium having the best night of our lives and suddenly the band member announced that the next song was going to be the last one. We all started vibing to the maximum. Then someone suddenly said that guys this is going to be our last ADVAY. This was something I knew from the start but at that moment i felt like my heart was aching. I looked around and saw laughing faces of my dearest friends. At that moment I realized that just like how Rachel Greene from F.R.I.E.N.D.S found magic Beans (her friends), have found mine too. Then before I even knew tears were running through my face. I was embarrassed and tried my best to control my overflowing emotions. But one of them noticed and hugged me. Then we all held hands and danced our heart out. Tears were still in my eyes but I couldn't stop smiling because the people around me brought both peace and happiness to my life.

After the band I came to the college bus and sat in the window seat with my earphones plugged in, just like how I have been sitting for the past four years. The bus started moving and I was looking at our college. I couldn't stop starrng even when the bus was moving away. At that moment reality struck me and I thought "Man this was my college and i am going to miss this place".

-Neha Noushad



Honestly speaking our classroom was the best thing for us, our second year classroom being the best. We enjoyed each and every moment here. The lunchboxes that were opened and shared before the break began and the hunt for different varieties of food inside the class itself was a routine for us. Whenever we had free time the class would be a mess with all kind of games in each corners, we had our own ways of entertainment which cannot be put into words. Also the race from one class to another when period ends gave us time to run around for no reason. The true self of people could only be seen in the class cause we were all a bonded family. It was like a united team of happy and crazy ones, Always ready to stand for each other which is exactly the best thing about our class. Even though we didn't have a proper end to our BTech life, I am sure these four years has given some good moments to cherish for a lifetime.

-Sarah Mathew



It will be surprising to know tht we only had one onam celebration in our entire college life. Our first and last onam celebration was in our second year. That was the best onam I had in my life. The celebration had started from the previous day itself with the tug of war competition. Each department had their own colour coordination where our's was blue. There's always a competitive mind for each department when it comes about melam. Melam was not allowed to enter the campus. I still remember we were the only department whose girls where outside dancing to the beats of chenda. The rest of the girls where locked inside the campus unfortunately! The melam lasts for hours and we never got tired of dancing in saree. After the melam there were several games and performances from each department. The celebration ended with the powerpacked ka-laashakottu. And during all these we never realised that this was going to be the last onam celebration we will have in the campus

-Rinza



The Class of 2020



B.TECH 2016-2020 BATCH



M.TECH 2018-2020 BATCH

Wishing you all the very best on your journey ahead



ASHIQUE K KUNJUMON S5



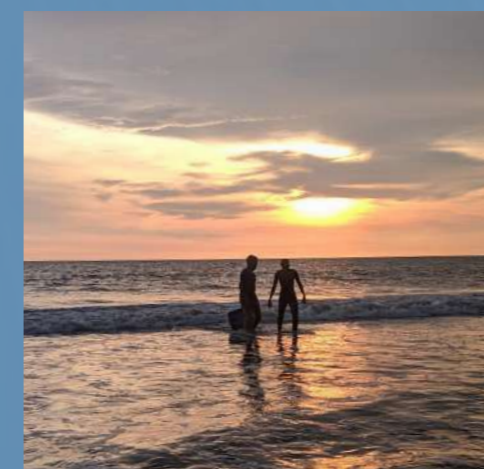
SARANG VIDYADHARAN S7



RAZEEN RAIHAS HUSSAIN S7



MUHAMMED FAYIZ S5



SAYANTH S5



ROSHAN MATHEW VARGHESE S5