



# MIRHAAR

## 2019



## Message from Director



**DR RAJIV V DHARASKAR**

We have made here our goal to strive for excellence, in research, technology and education. IIIT Kottayam is going to be a hub for intense research in the field of IoT Cloud, Data Science and security. This is further supplemented with having received the status of Scientific Industrial Research Organization status from the Ministry of Science and Technology. Our institution is also strives to facilitate its students with a thriving coding club, one which pushes its participants into several hackathons and research activities. I'm sure that IIIT Kottayam blossoms into one of the best institutes we have ever seen.

## From the desk of Former Director



**PROF V RAMAKRISHNAN**

Life is full of change -- We, at IIIT Kottayam, are equipped to tackle the next frontier in the Computer Sciences discipline. Our proximity and partnership with world class universities and industries, such as, Technical University Munich-Germany, Bose Information Technology Germany, 3DDivella 3D Printing company, and so forth, would create a long lasting mileage for imparting valuable technical education at IIIT Kottayam. In addition, we have established an incubation centre on IoT Cloud research domain in order to create entrepreneurs from our institute. It is natural to find in this ambience the intensive use of a variety of skill development programs, including entrepreneurial programs and brainstorming sessions. Of course, at this junction, the need for one to be exposed to cultural activities, to sports and to those activites of the creative nature may arise. This is why we have our very own cultural, sports, photography and literary clubs. Each of which will recieve my unremitting support. I assure you that the institute is bound to create individuals of phenomenal calibre, ones who will turn out to be great gifts to humanity.

## Message from Registrar



**SHRI M RADHAKRISHNAN**

IIT Kottayam, at Valavoor-Pala, Kerala, managed by MHRD, Govt. of India under PPP act, is a leading higher technical education institute and is also one of the most sought after schools in India. We are moving towards excellence at an ever increasing pace to become competent with a few well-reputed organizations in India while being able to impart a yeoman's service to humanity

I believe : "Success is not achieved in a DAY; Failure brings opportunity TODAY; Continuous effortless effort (with slight improvement) is the WAY"

In fact, we presently live in a globally competing market, which differs from how we were educated in the past (schools). Are we equipped to meet the challenges? Are we capable of working with industries to fulfill their requirements ? Are we patient enough to accept our failures and further improve on them to attain success? Such questions will throttle us into continuous growth.

Hence at IIIT Kottayam, we have implemented a well-balanced curriculum (timely revised based on the industrial needs), with the help of our dedicated professors. We ensure that the education system at IIITKottayam is student-centric – one which promotes brainstorming activities, extra-curricular programs, sports activities, technical festivals, and so on. We pride ourselves in our ability to nurture their growth and in developing leadership-cum-entrepreneurial skills. All this while imparting them the moral values and ethos they require to become responsible citizens of India.

## Message from Dean



**PROF M.P RAJAN**

I feel this is really a creative and appreciative idea. I hope this will be a platform for many students to showcase your talents. All of you may not be possessing of same qualities, but everyone of you has some specialization, like in coding, arts, science, sports or cultures. So, this is one way you can get an opportunity to get an exposure and get out from shyness and so that you can improve. Here we have made a sincere effort towards preparing our students to battle with the challenges of the ever so changing world. One of our actions towards realizing this is the implementation of a unique curriculum. This leads to an accelerated development of a footing in their respective engineering domain. We have in fact received a comment that the volume of engineering we manage to impart to our students in two years is equivalent if not greater than other colleges manage to in four years.

To be precise, IIIT Kottayam's unique curriculum looks into data engineering, artificial Intelligence and Machine Learning with the special emphasis on Mathematics. We hope you a wonderful time here.

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# ABOUT IIITK

**GENERATING  
KNOWLEDGE FOR  
TOMORROW**

Indian Institute of Information Technology, Kottayam is an Institute of National Importance and one of the 20 new IIIT's established by Ministry of Human Resource Development, Government of India through IIIT PPP Act (2017). It has been established under the Public- Private Partnership model sponsored by Government of India, Government of Kerala and Industry partner in the investment ratio of 50:35:15.

Since its inception in 2015, Indian Institute of Information Technology Kottayam is continuously striving for excellence in the field of Information Technology. The energy and drive of its people made it possible for the Institute to sustain. The Memorandum of Understanding (MoU) and Memorandum of Association (MoA) for starting IIIT Kottayam was signed on 26th November 2013. The Society of IIIT Kottayam was



registered on 15th January 2014 under Travancore-Cochin Literacy Act-1955.

IIITK started functioning in its permanent campus which was officially inaugurated by Shri Prakash Javadekar, Honorable Human Resource Minister on 20 February 2019, through video conferencing. Dr. Rajiv V. Dharaskar has been appointed as the first permanent director of this institute, directly by the President of India.

IIIT Kottayam shall primarily be a knowledge foundry, churning our knowledge that will be futuristic, the knowledge that will better the quality of life; and which is a mixture of locally relevant and globally acceptable knowledge.

**The vision of the IIIT Kottayam shall be the following:-**

1. To be premier research-led Institution of international class in their respective fields of specialization.
2. Become a leader in knowledge generation and innovation.
3. Create wealth through entrepreneurship and IP generation. The focus will be to turn the innovators/researchers into Technopreneurs. Even the faculty/research scholars shall be encouraged to move out and become entrepreneurs.
4. Capacity building with a focus on high-end research and technology development.



### INAUGURATION OF IIIT KOTTAYAM BY SHRI PRAKASH JAVADEKAR, HON'BLE HRD MINISTER

**While embracing above, IIIT Kottayam would, in addition, strive to:-**

- a) Promote innovation in teaching, research, attracting talent and in institutional management and overall academic ecosystem of the institution.
- b) Crave out niche areas of informatics as unique specialization.
- c) Create a unique academic culture in the country.
- d) Prepare the younger generation for a future that is difficult to imagine and look at the future as not merely to be imagined/predicted, but also to be created/invented through directed evolution.

The Unique IIIT Campus in Kottayam, Kerala. The campus is expected to be an embodiment of the values that the IIIT espouses so as to highlight the scientific outlook of the institute. The campus is designed to have greenery and green cover such that it would be liveable

without air-conditioners wherever possible.

The center of the campus is designed to have a mangrove and a pond that would highlight the eco-concern of the Institute. Efforts are initiated to use electric vehicles inside the campus. Use of public transport, as well as car-pooling, is declared as a mandate of the normal functioning in the permanent campus. Provision for solar and wind energy is also made in the master plan apart from building the campus walls with recycled materials. Plastic is fully avoided in all forms possible, not only in the building construction but also in the proposed day-to-day life on the campus. Thus, ethical value addition is created in the campus environment.

### INFRASTRUCTURE AND AMENITIES

IIIT Kottayam complements the academic component of the institute and enhance the overall educational experience of students through a wide range of extra-curricular programmes, facilities, services, and activities. These events provide students and other members of the institue exposure to a variety of social, cultural, intellectual, recreational opportunities

and challenges. Such experiences enrich the lives of students and help them fulfill their potential.

Co-curricular and extracurricular activities are planned and executed through a number of clubs and student chapters of professional bodies. They are owned and managed by representatives of students and are monitored by the faculty in-charge. Well designed spacious and spotlessly maintained dining halls catering to different needs of students.

Special menus are provided during festival occasions. Separate canteen is also available to cater to the needs Hostel Facilities. Presently, there are one hostel for boys and one hostel for girls. All the hostels have common rooms, 24-hour Wifi-connectivity and recreational centers where newspapers, magazines, and TVs are available. Round the clock water and electricity is provided. Laundry equipment is also available in the hostels. The gymnasium has also been provided to the students for making them mentally and physically healthy to create a better and healthy environment for the institute.

### CAMPUS LIFE

Every effort has been made by the administration and other management boards to ensure that all students find IIIT Kottayam a very active, fun and resourceful place to spend their academic years. Aware of the impact these vital years can have on the minds of the future of our nation and the world, IIITK strives to encourage,



introduce and develop any and all activities to shape their minds. Through bringing clubs, chapters and campus festivals, students are not only exposed to a competitive environment inside the campus but also with reputed institutions across the country and the world.

### STUDENT'S CLUBS

A club to fit everyone's interests and clubs to fit everyone on campus, IIITK is enriched with these. Student clubs help students build leadership and team-building skills. The clubs are responsible for the neverending stream of activities and events that happen in our college. Name Technical, Sports, Cultural, Trendles(social) everything and everyone are satisfied here.

All efforts are made to ensure a vibrant and creative student life at par with other Institutions of National Importance within the constraints of the campus. IIIT Kottayam ensures a 100 percent anti-ragging campus. The freshmen of the institute are treated without inequity and gender bias. Forums at IIIT Kottayam helps students to organize and develop their skills. Clubs such as the Technical Club, the Sports Club, the Cultural Club, and the Social Club offer the students a platform to polish their skills.

**Scan the below QR-code to get an overview of IIIT Kottayam (video).**



# What does IIITK logo depict?



**Indian Institute of  
Information Technology  
Kottayam**

A river which flows down through the dark green meadow  
 Bringing minds together which were largely apart  
 Institution which gives your career a boost to start  
 Filling lives of students with the colours of rainbow  
 The green colour depicts God's own country  
 Where students come with a dream of becoming a gentry  
 Where raw ideas of students meet teacher's expertise  
 Together, a new story of progress they apprise

-Pushpam Saxena, Batch 2018

## What does this LOGO imply? - A path to success

- 1) Firstly, to bring up the uniqueness of IIIT Kottayam among all the other IIIT's, this logo is designed to represent the nature of God's own country, Kerala, which has an immense wealth of thick evergreen rainforests and valleys, indicated by green colour, and the blue indicates the flow of rivers through these valleys.
- 2) The green colour in the logo basically represents the greenery and nature. A student's life is always full of hurdles. Like a broken branch that can heal itself and again grow like a tree, a student has to overcome hurdles and grow up, like a tree.
- 3) The blue indicates lively flow of rivers through the valleys; similarly, our life journey is endless flow with ever-changing destiny, in the ocean of opportunities and with the essence of success and failures. It also symbolizes the depth of knowledge instilled amongst the students and the continuous flow of innovative ideas.
- 4) The separation between the light and the dark shaded regions looks like an arc. The light shaded region represents the institute, as a bow and students are the arrows, aiming to shoot to achieve their dreams and ambitions. That is basically what the dark green represents a person, being ambitious and the dark blue, being an intellect.
- 5) As we know, the more the diamond is polished, the brighter it sparkles. Similarly, IIIT Kottayam envisions to have its students to come up with their innovative ideas and expertise them in their field of interest, thus makes the diamond shine brighter. It is the reason we designed our logo in a shape that resembles the shape of the diamond.

-J Sai Madhav, Batch 2016

-Muskan Rana, Batch 2018

-Dhurjati Vats, Batch 2018

Faculty coordinator: Dr. Renjith P

# STUDENT CLUB ACTIVITES



YEDLA SANDEEP  
KUMAR

## MENTORS



POKALA SAI SURYA  
KIRAN

# CULTURAL CLUB



## WILDBEATS

# Independence day 2k18

Sarfarooshi ki tamanna ab  
humare dil mein hai, Dekhna  
hai jor kitna bazue kaatil mein  
hai."

Independence Day, one of the most important days in the lives of all Indians, 15th August 1947, the auspicious day when India got its sovereignty was celebrated with full gusto here at IIIT Kottayam. The 72nd Independence Day celebrations was a day full of patriotism, enthusiasm and brilliant performances by the students. The duly awaited day got off the ground by a welcome speech by Nirupama and Anjali (Batch 18).

Then we had the Guard of Honour and Flag Hoisting ceremony, concluded with a speech by our Honourable Registrar Mr. M Radhakrishnan. A duet song performance was beautifully delivered by Jagriti and Muskan (Batch 18). All these events took place in the lawn at Samarpan, Hall of Residence. Then we headed towards the GIFT Campus, to begin the celebrations with some remarkable and wonderful cultural programs conducted by the students.

The events at GIFT Campus started with an amazing speech by Tumun Shaily (Batch 17), reminding us of the very importance of the day. The hosts for the day were Vishnu and Amritha (Batch 16). Nationalism was in the air, with a melodious patriotic song performance by Anju (Batch 15) and Amritha (Batch 16) and an equally amazing dance performance by Gayathri (Batch 18). There was another astounding dance performance by Meenakshi and group (Batch



18), depicting the true spirit of independence and a wonderful performance by Keerthi and Sri Lakshmi (Batch 17). American writer, Edgar Alla Poe once said, "Poetry is the rhythmical creation of beauty in words" and so, there was some lovely poetry by Sangeetha Suresh and Surya Pal (Batch 17). And then there were some more singing performances, an energetic and lively performance by Bivek and group (Batch 18), a soulful performance by Kuashal and group (Batch 18), and two different but really wonderful performances by Tumun and group (Batch 17) and Deepesh and group (Batch 17) with some beautiful work with the guitar.

One of the main elements of the celebration was the EK BHARAT SHRESTHA BHARAT initiative, which is to celebrate the Unity in Diversity of our Nation and to maintain and strengthen the fabric of traditionally existing emotional bonds between the people of our country.

Ek Bharat Shrestha Bharat was a surprise, it was a government initiative where we all had to represent a state which was not our own. As annoying as it sounded at the starting, the activity turned up to be an amazing experience, we all learned about new cultures and had a lot of fun thinking of new ways to exhibit the rich diversity that our nation signified. This helped us realize that our national identity both encompasses all such diversity and is at the same time above languages and cultures. India and the feeling of being Indian is the grand umbrella under which all of us stand and have chance.

Assam, Maharashtra, Punjab, Gujarat, and Uttarakhand were in the focus this time. Assam was showcased with its traditional dances and music as the members put in performances of Bihu and other traditional

dances. A skit based on rituals of the state and an exhibition of its ornaments were also put up.

Maharashtra added a splash with its own traditional dance Lavani. Ganesh Chaturthi, a very significant Maratha festival was also portrayed as the audience enjoyed the performances, marking them with loud "Ganapati Bappa Morya" chants. A skit portraying the legendary Chatrapathi Shivaji was also decorated to the dazzling variety.

Punjab came up to portray its Freedom fighters and the crowd favorite Bhangra. A short skit showing what could have happened at Jalianwala Bagh if Indians had stood up together was also served. It promoted the need for unity then, now and in the future, especially in a nation of hundred languages. Song performances featuring Punjabi songs, which were the rage of the moment, were also put up.

Team Gujarat set out to display their state in a play showcasing a mela, the fun and the games and the state's tasty concoctions. Fantastic dances, Garba and then Dandiya lit the stage with their colorful opulence and charming grace.

Uttaranchal was represented in a short play which revolved around the proud tradition of serving in the army. The satirical play also poked at the everyday problems of the people of Uttarakhand. The skit also encompassed some traditional features like the Uttarayani festival and the cuisine of the land.

The celebrations were not just limited to cultural programs, a debate on the topic "Should Privacy be a fundamental law?" was also conducted. As points flew from the sides opposing and for the notion,



the discussion grew heated and was often settled by the mediator, all the signs of a lively and interesting debate.

The winners of VIBYOR art contest, where the students showed off their talents on the canvas were also announced after live polling.

Amidst all the fun and enjoyment, our Honourable Registrar launched the new website of the institute made by efforts and dedication of Abhishek Kumar semester 6th.

At last prizes were distributed to the winners of the Inter IIIT Sports meet. And the wonderful and eventful day was concluded by a Vote of Thanks by the hosts.

The celebration was really enjoyed by each and every person present there, and instilled patriotism and nationalism amongst one and all.

At last, we would like to say - "May the glory of Independence Day be with us forever."

**"Freedom is never dear at any price. It is the breath of life. What would a man not pay for living?"**

**-Mahatma Gandhi**

## Bhogi - The first day of harvest festival



**B**hogi falls on the first day of the Pongal celebration. It is celebrated on the last day of the Tamil month of Margazhi. This is celebrated during Makar Sankranti during which the sun changes its position from the south to the North hemisphere. According to the English calendar, it falls between January 13-16.

Bhogi is the day dedicated to Lord Indra—the deity of rain and clouds. Farmers worship Indra to seek his blessings for a good harvest that would bring wealth and prosperity to them. Hence this day is also known as Indran.

This day was celebrated with great enthusiasm and joy among students. The day

started with the bonfire early in the morning at 7 am. All gathered and enjoyed the pleasant morning, gathering around the pre piled bonfire logs.

The sky couldn't have been any dearer and beautiful, the warm yellowish shade of the rising sun was a mesmerizing view to experience. A mid-January morning in our lush green campus is the thing you would never want to miss.

After we lit our bonfire all of us get around to feel the Warm fuzz comfort our faces in that Mildly chilled morning. We talked around caring the least we could have, like the joyful family we have always.

**“ A perfect boost for 2019.”**

All the traditional outfits added a whole different aura to the day all of this just to find ourselves in a regular schedule again.

## Holi - The festival of colors



The morning after which was followed by an energetic celebration of colours and an overall pumped up festive dance. The day coloured our minds and hearts for days to come.



**H**oli, a festival long awaited every year, by Indians all over the world was celebrated with much enthusiasm here in our very own IIIT Kottayam. The students of IIIT Kottayam, began the celebrations of the festival a nightbefore, the actual festival took its course, by carrying out the Holika Dahn.

# Republic day 2k19



The grand celebration of India's 70th Republic Day took place in the permanent campus of IIIT Kottayam for the first time.

Respected chief guest of the day, the Registrar, sparkled the light of this event by hoisting the national flag followed by the Guards of Honour. Students stood proudly for the national anthem and thus began the Republic Day celebrations.

Bivek (Batch 18) delivered an inspiring speech on what intentions one must keep on this historic day. Next was a melodious song by Jagriti and Muskan (Batch 18) which filled the atmosphere with happiness and joy. Following this was another melodious song by Amritha (Batch 16) with Daniel (Batch 16) playing the guitar. The perfect harmony between the guitar and singing filled the audience with peace and love. Then came the instrumental performance by our talented students: Guitar by Deepesh (Batch 17) and Tumun (Batch 17), Synthesizer by Kushagra (Batch 18) and later by Prabal(Batch 18).

Following these performances was the much awaited quiz contest. The quiz had questions testing the general knowledge and current affairs of the contestants. Out of 14 teams, top two teams were chosen to face off each other in a debate. The debate topic was, "Social Media and Security".



Team Republic led by Shivendra Singh (Batch 15) emerged as the winner, with Team Prayaas led by Dhurjati Vats (Batch 18) as the runner up.

After the quiz, Ritik and team (Batch 18) performed a brilliant comedy skit portraying a typical college life as experienced by our first years. This was immediately followed by yet another captivating dance performance by Nikhil and team (Batch 18) which filled the audience with laughter and was met with loud applauses. With this the Republic Day celebrations came to a wonderful and joyous end.

*"Before everything comes our Nation,  
Before any state of situations comes the integrity of our Nation,  
Before any success comes the prosperity of our Nation,  
Before any ideology comes Patriotism,  
That is why we say, we the people of India"*



## Enlace 2k19 - Cultural day

IIT Kottayam, an institute in its dawn, chose to make its debut, into the world of cultural fests with ENLACE 2k19. ENLACE 2k19 saw a spectacular array of events ranging from its very first management event Boardroom, to an all inclusive open Mic event. IIIT Kottayam's students saw the fruition of their effort, in preparing and organising ENLACE 2019, on the 22nd and the 23rd of March. This became incredibly clear, to everyone deeply involved in it, as it pushed their wits to their limits and ultimately profoundly enriched their lives. ENLACE 2019 truly became something to be looked forward to every coming year.

Here is all that happened(or all you missed, if you weren't there).

An event named Dostana, was one of the first to be held. It consisted of couples(not necessarily, romantic ones xD) battling out with each other to prove to each other how deeply acquainted with each of their idiosyncrasies they were. The couples were split into two separate rows and were asked questions about each other. The number of correct responses determined their status in the competition.

The next event held was a classic, Pictionary. This competition was to be held over three rounds, each with progressive difficulty. The participants of the elimination round were subjected to a simple guess-the-word round, the qualifiers of which would be the teams guessing the most words. Following which, the second round with the heat turned up a little was held with the participants losing a quarter of a mark, for each



word skipped, along with the standard one mark for each correct word. The final round took pictionary to a whole new level, having introduced sentence identification as a dimension of the round. Only two teams managed to guess their respective sentences.

Another one of Enlace's coveted events was that of the treasure hunt.

This event would have not been possible, if not for the phenomenal insight and intelligence of the coordinators of this event, for it entailed having to create atleast five clues each for every team involved each of which perfectly led the team whose clue it was to the sight of the treasure. It must be mentioned that the clues involved, were nothing less than great strokes of genius, including one attempting to represent the U-like bend of a road, with the mathematical representation of a parabola. The teams participating in this were thouroughly enthralled and amazed amidst this exhibition of phenomenal creativity and intelligence. None of them left with a heavy heart, despite their being only a single winner.

Another event worth mentioning is that of IIIT Kottayam's very first management event Board Room. The purpose of this event being to ignite in its participants the spirit of management. Its first round consisted of an elimination round with its intention to test, the participants' knowledge of the brands around the world. They were questioned about brands from all over the world, including their logos. The teams qualifying the

first round were tasked with attempting to sell failed products. Some as ludicrous as even vio cola, a drink with pepsi soda and milk and colgate biscuits. However every team fared phenomenally well, to the point where the coordinators of this event found it painstakingly difficult to eliminate even a single team. The final round was a one-of-its-kind, the stock market round. The players were given an in-depth introduction into the world of the stock market and were then asked to bet on real life commodities in the stock market, the team with the highest profit emerging victorious. The kicks and the stresses of the stock market became clearly apparent to the contestants involved. It was on the whole an intense event with time coming to a standstill, everytime a stock was bought.

The Open – Mic event was one to savor. It was one of Enlace's events which sprawled over into several dimensions of the performing arts, with some of its participants exhibiting the prowess of their bodies through their dance choreographies while others, that of their throats by singing complex melodies. One young lad in particular from Bhopal and two others from Kerala and Bangalore infact rocked the stage with their soulful vocals. The audience, were convinced they had hit the crescendo of joy.

Perhaps they were mistaken.

Must it be said that our college knows no sense of limit when it comes to capability?

Uequivocally, it can be said that this is the truth.

Satisfaction, is the word most apt, to describe what one would feel if they



were to hear the original compositions of the musicians of IIIT Kottayam.

Keeping the songs and the dance performances aside, a student in his fourth year of engineering introduced us to an entirely new world of emotion with his wholesome poetry.

Another, one of IIIT Kottayam's talents include that of the instrumental nature, with several of our friends playing elaborate tunes with great ease, in this event.

Nostradamus, too infact would have a hard time predicting such a gradient in talent.

Along with these the fine-arts creators and the videographers of IIIT Kottayam weren't left behind with each receiving an event unto themselves, VIBGYOR and Face-Painting for the artists and Dubsmash for the filmmakers. The participants of VIBGYOR were asked to submit a pre-made piece of artwork on a chart paper. Face painting was another event, whose description could easily be deduced from the name itself. To elaborate upon, it was an event where the participants were asked to depict a certain emotion on the face of their subject using paints alone. The plethora of displays the participants came up with was truly mind blowing. Dubsmash, another one of these events threw its participants into the world of filmmaking. The participants of this event were instructed to create a video of a minimum duration of ten seconds dubsmashing a certain movie scene or music video. This truly amused every viewer. One participant even managed to recreate several scenes from Dangal's Hanikarak Bapu.

Finally, to top it all off, IIIT Kottayam held its first very own DJ Night. It was truly a ball to see several hundreds of students dance their bodies off to a mind-blowing plethora of mixes. It was truly impossible for humans sensitive to the lilt of Melody to escape the longing to sway their hips to the music.

This is all that happened, I hope we see you next year again.



**“Finally, to top it all off, IIIT Kottayam held its first very own DJ Night”**





DHULIPALLA  
SAHIL TEJA

## MENTORS



VANSHIKA JAIN

# SPORTS CLUB



## Pradhva 2k18 - Annual sports meet



**I**t goes without saying that sports are and should be an integral part of everyone's life. Sports help us lead a healthy life. It also helps us in aspects such as winning honorably, losing gracefully, respecting authority, adjusting with others, learning management skills and valuing time in the long run.

To commemorate the spirit of sports, IIITK organised its first annual sports meet "PRADHVA".

'Pradhva' is a sanskrit word, meaning sports. The annual sports meet held at the CET, Don Bosco ground and LNCPE promoted the inner talents in the field of sports and fitness. It was conducted with great enthusiasm.

As we know sound mind resides in sound body. So sports and fitness are an important aspects apart from academics. It inculcates sportsmanship, leadership, and competitive spirit. The

sports meet began with the spectacular march past by an enthusiastic group of students; Arms swinging in sync, high pitched voice issuing commands and as drumbeats rolled they marched ahead with dignity and pride following the captain

It was followed by the oath taking ceremony. Registrar Dr. Radhakrishnan delivered the opening speech raising the spirits of the participants and spectators. Ankit Verma(Batch 2016), member of the sports club was the torchbearer. The flame signified peace, harmony and bright future.

The annual sports meet "Pradhva" was declared open by the Dean academics Dr. M.P. Rajan with the promise of growth and development of the institute.

The sports meet included games like Football, Douche ball, Throwball, Volleyball, Chess, Badminton, Table tennis, Athletics and Cricket tournament under name Govindan Trophy comprising of three matches.

Matches were interesting and fun.

There were 3 teams for football, with 3 matches played among them, All the matches were held at the CET ground. Govindan 3 match series was played between the 2 cricket teams, held at the CET Ground.

Badminton included singles, doubles and mixed doubles categories which were held at LNCPE along with table tennis. Other sports like tennis, throw ball and volleyball were organised at the Don Bosco ground.



All the athletic events were held at CET ground. Chess and carrom were held at Samarpan Apartments and Anu Apartments for girls and boys respectively. Teams were supported by the cheerful audience. The running commentary by the seniors entertained the crowd and uplifted the spirit of the game and players. It was an enjoyable experience and day off from the usual routine. It was a successful and well organised a three-day event. The sports meet was marked with great energy fun and healthy competition.



## Pradhva prize distributions



## EXPERIENCES AT IIIT ALLAHABAD

This year, IIIT allahabad hosted the Inter-IIIT Sports meet **Asmita 2k19** under the Aegis of "Beyond Twenty by 2020". This was the third edition in the series with the first two being successfully hosted in IIITDM Kancheepuram and ABV-IIITM Gwalior. With participants with over 24 IIIT's from all over India, it became one of the largest sports fest in India.

Different Events that were held during ASMITA'19 ranged from Athletics, comprising of long, short and relay races along with High Jump, Javelin throw and other events, to name a few, to other sports like Lawn Tennis, Badminton, Football, Table Tennis, Volleyball, Cricket and Chess. For all the mobile gamers, a PUBG event was also organised.

This wide array of events spread over the span of 3 days filled us with enthusiasm, excitement and determination.

Our Players participated in the Track events, Cricket, Volleyball, Basketball, Badminton, Chess and Table tennis.

We showed our competence in all the sports and won a gold medal and a bronze medal in the Women's track events.

We got to witness and play Top-notch games and proved to the sporting world that we are a force to consider.

The most important thing that we are taking back is the invaluable experience we gained here at ASMITA '19.

And speaking about experience, we also got to experience the beauty of Prayagraj. Chilling winter.

There couldn't be a better way to cool down than experiencing Prayagraj. Prayagraj is presently one of the largest cities in Uttar Pradesh. The city is located at the confluence of the three most important and sacred rivers of the subcontinent-Ganga ,Yamuna and Saraswati and the point where the three rivers meet is called the Triveni or Sangam. The crowd, the food, and the overall experience made it an unforgettable memory for us.





MENTORS

MANNEM SRINIVAS



SIDDHARTH MAURYA

# TECHNICAL CLUB

# beta LABS



MENTORS

CHATALA AKHILESWARA KUMAR



ABHISHEK KUMAR



**S**tudent participation & contribution in exploring the widely celebrated technological advancements and innovation in the bizz world has statistically been low. The infamous gap between the outdated syllabus and the practical needs of industries along with the lack of technical awareness amongst students are only two among the many reasons for the scanty participation.

Students are updated with the contemporary works of research and technology through group discussions, seminars and other activities throughout the week. They experience hands-on sessions in the current hot domains of research by working on self-designed projects in small groups. Weekly gatherings are held to analyse and evaluate their progress.

## VISION

Beta team is the result of IIIT Kottayam's efforts to increase the interaction of college students with the research world by creating a platform to inspire students and to familiarize them with the booming opportunities around them.

The activities of the club motivate self-learning and sharing information amongst peers enabling students to widen the horizon of knowledge whilst sharpening their skills.

# DST NIMAT ENTREPRENEURSHIP PROGRAM

In an effort to train its students towards honing their skill to create and manage startups AIC IIIT Kottayam held the DST NIMAT Program, its very first program to be conducted in our newly established permanent campus. AIC-IIIT Kottayam, a shortlisted incubation centre of IIIT Kottayam, has taken strides to move forward with the development of economical-cum-societal benefitting products in the domain of Internet of Things and Cloud Computing along with entrepreneurial aspirants.

18 shortlisted students participated in this sponsored program under DST-NIMAT scheme in December/January 2018 (6 weeks). Dr Shajulin Benedict an adhoc faculty of IIIT-Kottayam and C.S Basil a research scholar at our institute trained the incubates throughout the 6 weeks. The program schedule was designed with the intention towards motivating entrepreneurial aspirants, to build upon their knowledge of IoT Cloud Products by providing them with input in the form of knowledge, guidance, mentoring, training, and demonstrations. Several prizes and competitions were also held.

The candidates part of the program were divided into seven teams each of which



were asked to work on different projects. The projects ranged from Home Automation, Smart Helmet, Air Quality system, Water Leakage detection System, Gas Leakage Detection System, Automated irrigation system and Water Purification. The first week consisted of the participants being taught about surveying and analysing markets. The second week consisted of the development of prototypes using Arduino Boards. The third week consisted of participants learning the art and technicality behind 3D Printing. In the fourth week they learnt about the design of Printed Circuit Boards. The



Furthermore Shubham Kumar(Sem 8) of the DST NIMAT program won Rs 50,000/- the first prize of HackICAV'18, a hackathon sponsored by the Rolta Organization. In conclusion the DST NIMAT turned out to be an immensely fruitful program for everyone involved.



fifth and the sixth week, consisted of sessions on patenting and documentation.

Besides these the privileged candidates, also got the opportunity to attend exemplary talks on Patent Filing, 3D Printing, and Auditing by Dr. Anil Sharma, Mr. Rakesh D and Mr. Manoj Sajeev respectively.

The Incubates managed to successfully create their prototypes and then implemented them after a thorough market analysis. The prototype of the product was designed with the help of a 3D printer, the software prototype was designed in the computing space available following which the real implementation was also carried out at the hardware level. The end of the program also saw the candidates exhibiting their creation among 26 students from 5 different schools.

To top it all off the candidates received an opportunity to interact with Jose K Mani, a minister of the Rajya Sabha and a patent was filed by a candidate of DST NIMAT.

# Happening's of Technical club

The students at IIIT Kottayam have never left any chance to prove their mettle. And we can proudly agree that every seminar or session organized by them proves the same. This article is a collection of all such proceedings held here.

Technical club activity - "Catch your right Gizmo" was held on 4th August 2017 by beta team which gave a detailed overview to students regarding which mobile phone or laptop they should buy. This session was conducted by Shivendra Singh and Anuj Bhatla from 2015 batch.

A deeply informative workshop was conducted on 8th September 2017 on "Dual boot OS installation" by Shubham Kumar from 2015 batch. Another efficient discussion session on ROOTING - android rooting and custom OS installation was conducted by Siddharth Maurya 2016 batch.

Another session to a really great extent was on a remote control bot, named the Blue Bot, built using Arduino board and a Bluetooth module, was given by Savio Jose and Shivendra Singh of batch 2015.

Harsh Kumar Singh of 2015 batch and Mannem Srinivas of 2016 batch then took a session on DEFCON - a demo on hacking and pen testing. Following which a demo session on the two pillars of modern web browsing, HTML5 AND CSS, was given by A Vanshika Jain and Koppeti Daniel Kamal Raj of 2016 batch.

Technical club also organized a one day workshop on "Internet of Things", a hands-on session on all the various aspects on 28th Oct 2017 by Mr. Subin Kuttappan.

A talk was delivered on "Constraint Creativity: A systematic process for generating ideas" on January 25, 2017 by Mr Arun Narayanan, chief operating officer UST-Global. There was also a seminar talk on "Computer Science and Computer Vision" on 1st Jan 2017 by Dr Ram Prasad Krishnamoorthy from Dublin City University.

A two day workshop on ARM processor also took place on 22nd and 23rd March 2018.

Started as a simple app for automating the snacks booking system in our college by the Technical Club headed by Shivendra Singh of batch 2015, Ur Buddy has grown beyond limits. As the name suggests, the app is truly 'ur buddy' for college. It currently offers a whole lot of features like a page for the mess and the snacks menu, a page to upload one's creative content, a notification system which shows important events and also the most powerful 'Give Ur View' page where one can communicate with other Ur Buddy users anonymously.

With the academic year 2018, IIIT Kottayam started with a bang, the various hackathons and technical sessions which took place here, with full gusto and enthusiasm, are evidence to the same.

The first such session held here, was the introductory session by Akhil, Mannem Srinivas, Maurya Siddharth & Abhishek Kumar, who are 3rd year students of IIIT Kottayam. The session was held on 7th September, 2018. After the super interesting introductory session, another session was held, the Project on thinkers Lab, by a team of three members, which included Amrita Haridasan, Omsai Chowdary and Prudvi from the 2016 batch.



Following by example, batch 2017 students Arindam Singh Sengar, Shivakrishna also took a session under Technical club activity, again named "Catch your right Gizmo" for the batch 2018 students, with the same objective.

A brief introductory session on IOT, with two project demos: A blind man stick for object avoidance and walking bot was conducted by Vedant Sandeep Joshi of 2017 batch. Another highly interesting and informative session on Image processing, object detection and tracking in live video was held by Vishal Kanakamamidi 2017 batch

2018 also saw the Attendance app in its trial mode. Another session which included a tutorial on web templating in Django was held by Mannem Srinivas on the 28th of September, which preceded The Matrix Saga a competitive coding session held on the 10th Oct 2018

in which Bivek Benoy Paul emerged victorious.

Besides this, several coding sessions like the one above were organized by Ayush Rai, Anuj Srivastava and Anshuman Mishra. The focuses of the above sessions were to help deepen the programming skills and understanding in the participants. Three clubs have since then been formed, the Coding Club, the Web Development Club and the IOT Club. Sessions under these clubs on Web programming and coding will be held by Ayush Rai and Anshuman Mishra while sessions on Internet of Things will be held by Vedant Sandeep Joshi all of the 2017 batch.

Once a programmer gains a footing in his ability to code, he must learn the art of version of control. Thus a wise decision was taken by the students of IIIT Kottayam, which was, to hold a session on Github "Meeting with Octocat". This was carried out by Chatala Akhileshwara



Kumar from the 2016 batch and S Rahul Badami for each report. of 2017 batch. A github repository, named the First Contribution was made for students to begin with.

Another one of IIIT Kottayam's proud achievements was that a team of Ayush Rai, Anshuman Mishra and S Rahul Badami from the 2017 batch was shortlisted to participate in the finals for the Snoder Hackathon at MANIT Bhopal.

Another great and proud milestone of our Institute was, S Rahul Badami from 2017 batch contributed to the Open Source foundation "Owasp" under the Google Summer of Code and earned Rs. 1,63,000/- . He made a Web Application and an Android App in which bugs can be reported in exchange of a cryptocurrency

Besides the above, a seminar on Deep Learning for Computer Vision using MATLAB was held on 5th September 2018 by Ms Alka Nair from Mathworks, and Design Thinking in collaboration with TCS was held on the 24th of October 2018 .

In this way we covered a wonderful technical journey till 2018, with promises of a much better excursion in the coming years.

## Thinkers Lab

Tech@IIITK

ABOUT REPORT BUG

### Thinkers lab

Indian Institute Of Information Technology kottayam

#### ABOUT THINKERS LAB

A website which provides a projects newsfeed for college community.

Students who are developing or having an idea of project will post it in this platform. Interested guys can contact and form a team with them work together for better output

#### LOGIN

Please fill in your credentials to login.

Email

Password

Login

#### FRONTEND INTERFACE OF THINKERS LAB

Our institute, IIIT Kottayam has seen an extremely humble beginning, with a mere strength of enthusiastic budding engineers. In such an environment the desire to create is only natural, with many of them unknowingly building upon each other's ideas in seclusion. A platform was necessary to bridge the gap between like minded people who wished to manifest their ideas. This epiphany gave birth to the Thinker's Lab.

The Thinker's Lab is a unified place where people with similar ideas and intentions can come together to discuss and build upon projects. These include, their own individual ideas, ongoing projects and finished projects. As a consequence of this, ideas which have the potential to be great successes, which would have never seen the light of day for the absence of technological capability will now be capable of realizing their full potential. The opposite is true as well.

In fact, the benefactors of the initiative do not only include the members of the Thinker's Lab. Should a sprightly youth happen to come across enterprising men rapidly breaking technological limitations, it would be only natural for him to nurture the longing to be involved here. A steady effort in this direction, would yield engineering brilliance of immense novelty.

# Website Launch

15<sup>th</sup> August, the Independence Day of 2018 was marked by a number of cultural activities with one of the major events being the launch of the new website of our Institute by our Registrar Shri M Radhakrishnan. After weeks of planning, designing, writing, coding and testing, Abhishek Kumar (Batch 16), completely renovated the old website and presented to us a new efficient and informative website with a lot more attractive and responsive interface. The technology selected is more flexible and adaptable than the older one, allowing continuous improvement. The new website was reviewed by Dr. Renjith P. and will be maintained by the Tech. Support of IIIT-K.

## Development Process

It took around one month to code a version of the website and then an additional month and a half to incorporate changes which included minor modifications of the site's theme, alteration and inclusion of textual and pictorial content and also few changes to the site's routes with the guidance of Dr. Renjith P. Some of the libraries that were used during the development phase are AngularJS, oclazyLoad, Hammer.js, Materialize, Font Awesome.



## Then vs Now

The new website after a lot of research shows significant improvement and design had a major role to play in it. The new one has a mobile-friendly and responsive design i.e., it changes its structure while adapting to smaller screens so as to ease the users accessing the website on their mobile phones or tablets. Easy to maintain, the new website comes with a lot more frequent updates and enhanced security and also the separation of contents allows rendering and incorporating new contents a lot more easy. Another major improvement included the new one being a Single Page App (SPA) which means that the website can now interact with the user by dynamically rewriting the current page rather than loading entire new pages from a server.

## Area of enhancement/Future aspects

Keeping a vision of a better use of the technology in order to lessen our efforts, our Institute came up with the project of College Automation. It is a huge project which involves the collaboration



of both the students and the faculty members. It requires the integration of the website with a backend for fetching information which in turn would allow a lot of procedures to be done online itself like Checking of current attendance status (for both students and faculty members), Course Schedule and Registration, Student leave, Feedback etc. Although most of the aspects were covered during the development phase, it still has some room left for a better social integration.

## Conclusion

To sum it all up, it would be justifiable to say that the new website highly meets the ends of both users and developers. It allows the developers to take a more holistic approach of how they can use technology to provide information to the viewers of their website. It is much more advanced and secure than its predecessor and the use of the latest libraries for its development ensures frequent updates and continuous improvement. A genuine feedback to the site will always be appreciated.



SAI MADHAV  
JONNADA

# TRENDLES CLUB



## MENTORS



SAMEER KUMAR  
SATYADARSHI

The literal meaning of trendles is a wheel with wings, and thus trendles club represents the wheel of duties and responsibilities to streamline the club activities , and it also notifies the students about the events taking part in other institute's and thereby helping the institute to establish itself in the social community.

The club also takes up responsibility to conduct various activities to boost the confidence level of students and there by helping certain students to take part in their interests

Trendles club organises various activities throughout the year. The two sub clubs ,the photography club and the Literature club are active enough to train the ameteurs.

The literature club, helps in conducting debates, drama, creative writing and poetry competition along with several awareness programs such as swachh bharath , vigilance awareness etc. The photography club has the task of providing contents such as videos, photos, and

ABOUT TRENDLES

## What does this logo imply?



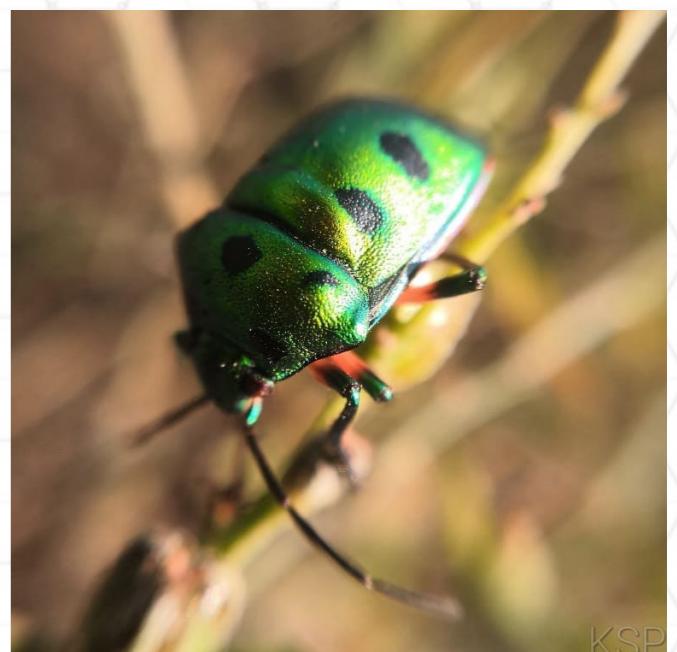
- 1) The word Trendles signifies a wheel with wings to emphasize the club's ability to keep on pace with the changing trend in the social environment. So that's the logo shows, a wheel with wings.
- 2) As mentioned earlier, this represents the wheel of duty and the responsibility of streamlining all the activities of the institute. This was represented in the logo by three hands holding the rope, which represents teamwork.
- 3) As we know it paces on with the time i.e., it is the Time-keeper. So, we represented it with a clock i.e., the three hands represent the seconds, minutes and the hours hands. As a consequence of all the hands touching the wheel, the centre of the wheel has been shifted and thus we also observe asymmetry in it.

## Sub Clubs Of Trendles Club

### Literary Club



### Photography Club



# Swachhata Hi Seva



The call of our Honourable Prime Minister for an unprecedented campaign called "Swachhta Hi Seva" from 14th of September to the 2nd of October to celebrate the third anniversary of the flagship programme "Swachh Bharat Mission", launched on the 2nd of October 2017. "Swachhta Hi Seva" campaign aims at fulfilling Mahatma Gandhi's dream of a clean India by mobilizing the masses and reinforcing "Jan Andolan" for sanitation. The campaign intends to mobilise people from various walks of life to undertake shramdaan (volunteering) for construction and cleanliness of toilets, make the country open defecation free. The campaign will see participation from people with diverse background,

like Chief Ministers, Union Ministers, celebrities and legislators. Ministry of Drinking Water and Sanitation, the convening Ministry for the Swachh Bharat Mission will take care of the coordination of the campaign.

Three Sundays during the period will be dedicated for large scale shramdaan for cleaning of public places, lakes and ponds and construction of toilets. On October 2nd, which is Gandhi Jayanti and also Swachh Bharat Diwas, awards will be given away to the winners who participated in paintings, essays etc focused on central police forces, schools, youth organisations besides general citizens.

Indian Institute of Information Technology, Kottayam  
Report on Swachhata Hi Seva (SHS) 2018



Event Name

- Swachhata Hi Seva 2018 (SHS)

Date of commencing of event - 28th September 2018

## Introduction

Prime Minister Narendra Modi launched the 'Swachhata Hi Seva' movement on 15th September 2018. The campaign for a "Swachh Bharat" or clean India, which began four years ago, was made into a nation-wide movement today. Over the next two weeks leading to October 2 - Gandhi Jayanti - the Swachhata Hi Seva movement aims to ensure a high standard of cleanliness across the country, which was Mahatma Gandhi's dream for the nation. The campaign intends to mobilise people from various walks of life to undertake shramdaan (volunteering) for construction and cleanliness of toilets, make the country open defecation free.

Indian Institute of Information Technology Kottayam on 28th September 2018 observed this event by organising several events such as:

- Introductory Speech by Vanshika (Batch 16) on this journey of "Swachh Bharat Mission" which started 4 years ago which aims to achieve the Bapu's dream.
- Addressing the gathering by the Chief Guest, our senior faculty member Dr. Ranjit Thomas Abraham.
- Swachh Pledge & Pledge to Segregate taken by all students and recited by Surya Pal (Batch 17).
- Cleanliness Drive inside the Campus (GIFT - Transit campus IIIT Kottayam) which include:
  - Cleaning the premise of the campus
  - Segregation of wet and dry waste.
  - Swachhata Walk.



## Vigilance Awareness Week



**V**igilance Awareness Week (VAW) is being celebrated every year and coincides with the birthday of Sardar Vallabhbhai Patel, known to be a man of high integrity. In pursuit of the vision of the Government of India to make a New India by the year 2022, which is the 75th anniversary of our independence, the Central Vigilance Commission, as the apex integrity institution of the country, endeavors to promote integrity, transparency, and accountability in public life.

Observance of Vigilance Awareness Week every year is part of the multi-pronged approach of the Commission where a key strategy is to encourage all stakeholders to collectively participate in the

prevention of, and the fight against corruption and to raise public awareness regarding the existence, causes and gravity of and the threat posed by corruption.

This year the Vigilance Awareness Week is being observed from 29th October to 3rd November 2018 with the theme "Eradicate Corruption - Build a New India"

IIIT Kottayam also celebrated the week by generating awareness among student and faculty members in the institute. Registrar informed and make the student aware of the importance of the week. Faculty members also participated in the event by writing the quiz regarding the importance of being vigil. Institute organized

**"Eradicate  
Corruption;  
Build a  
New India"**

# When Gizmos trolled their critics

The epic history of technology is thus littered with some incredibly lousy prophecies, often made by some very smart, very successful and very wealthy executives.

Gone are the days when your phone was filled with loads of facebook notifications. Instagram is the new facebook. The younger generation prefers insta over facebook because it's simpler, more private and very visual in nature. Teens appreciate that their viewer aren't the many relatives they have connected with on facebook.

In the same fashion, there have been many technological inventions which have been criticised in the beginning but have proved their mettle later. As the old saying goes, "Predicting the future is easy, getting it right is the hard part", but the interesting part comes when one looks back on past predictions to see who was on target and who missed the mark by a mile. Sometimes the debate turns out to be more fun than the prediction itself, and then there are predictions simply by how wrong they actually turned out to be.

Some such worst technological predictions, which turned out to be totally paradoxical are:

- "There is no reason for any individual to have a computer in his home" - Ken Olsen, Founder of Digital Equipment Corp

And now you all know how wrong this prophecy has been, because even this article has been typed on a computer.

- "There's no chance that the iPhone is going to get any significant market share." - Steve Ballmer, Microsoft CEO

"Apple is already dead." - Nathan Myhrvold,

former Microsoft CTO.

And now, Apple's iPhone sales have consistently increased over the last few years, rising from almost 170 million units in 2014 to nearly 216 million in 2017.

- "Remote Shopping, while entirely feasible, will flop." - TIME Magazine

Now is the time even shopping for big events like wedding occurs online. Various E-commerce websites Amazon, Flipkart, Myntra, Snapdeal, etc have raked the global market.

- "This 'telephone' has too many shortcomings to be seriously considered as a means of communication." - William Orton, President of Western Union.

And now, imagine yourself without your cell phone for just half an hour. Seems impossible, right!

- "Televisions won't be able to hold on to any market it captures after the first six months. People will soon get tired of staring at the plywood box every night." - Darryl Zanuck, Executive of 20th Century Fox.

"While theoretically and technically television maybe feasible, commercially and financially it is an impossibility" - Lee DeForest, Father of Radio.

I am guessing that if Zanuck were alive today, he'd find himself just as mesmerized as the rest of us by the mind-crushing distortion loop that modern TV programming has become and the TV sets Rock!

- "Two years from now, spam will be solved." - Bill Gates, founder of Microsoft.

By recent estimates, the amount of spam currently glutting up the net is somewhere around 92% of all E-mail messages worldwide.

- "I predict the internet will soon go spectacularly supernova and in 1996 catastrophically collapse." - Robert Metcalfe, founder of 3Com

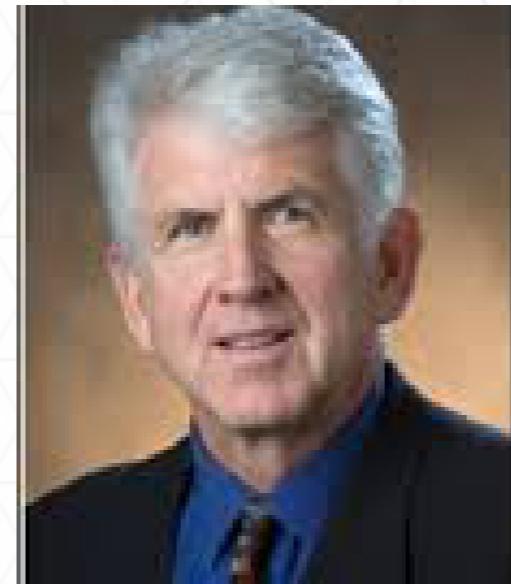
How imprudent the prediction was. There is almost nothing in the world, which is unknown to the internet. Internet, our one stop destination to every query, is one of the greatest inventions of all times.

As Mark Zuckerberg once stated, "Right now, with social networks and other tools on the internet, all of these 500 million people have a way to say what they're thinking and have their voice be heard."

The epic history of technology is thus littered with some incredibly lousy prophecies, often made by some very smart, very successful and very wealthy executives. These were some such predictions that failed miserably, and there are still many more to come.



**Remote shopping, while entirely feasible, will flop**



**I predict the Internet will soon go spectacularly supernova and in 1996 catastrophically collapse.**

— Robert Metcalfe —

AZ QUOTES

# Fake News - An unprecedented reality

Since time immemorial, the itch to gossip has been a compulsion which has plagued humanity. The advent of social media does not seem to impede the need of the human being to blow seemingly commonplace events out of proportion. On the contrary, it has given it way to being absolutely exigent. Should this phenomenon be further ignored, it snowballing into a catastrophe is absolutely inevitable. The crux of the matter is that human beings, and human beings alone shall be responsible.

Here are a few incidents which emphasize the above.

Consider Twitter for instance, Filippo Menczer, an informatics and computer scientist at Indiana University Bloomington, and colleagues analyzed 13.6 million Twitter posts from May 2016 to March 2017. All of these messages linked to articles on sites known to regularly publish false or misleading information. Menczer's team then used Botometer, a computer program that learned to recognize bots by studying tens of thousands of Twitter accounts, the researchers found that in the first few seconds after a viral story appeared on Twitter, at least half the accounts sharing that article were likely bots, the most alarming part however was that the information contained by these articles was propagated by real human beings with genuine twitter accounts.

Another such case is that of Instagram despite its limited text and information sharing capability, seemed to gravitate the attention of the Russian Troll Farm in a very significant way. It served as the basis of emboldening conversation in favour of Donald Trump and criticising Hillary Clinton often in subtle ways. On analysing the cumulative effect of news which turned

out to be counterfactual there were in total 187 million such instances on Instagram alone.

Facebook too, wasn't left behind, by those with the intention of going overboard for attention. Following the devastating events of the Indonesia Tsunami, several facebook posts said that an 8.6 magnitude aftershock would hit Jakarta, the mayor of Palu had been killed and that a major dam on the island of Sulawesi was about to burst. All of these however turned out to be speculations. None of them happened. The only thing that did happen, however, was paranoia, in the hearts of those with loved ones in Indonesia.

The economic repercussions of the distribution of fake news have the capability to be immense. One particular incident of this nature took stage in 2013 when a tweet sent out on the official Twitter account of the Associated Press (AP) about two explosions in the White House that had injured then US President Barack Obama wiped out more than US\$130 billion in stock value in a matter of minutes; the Dow Jones Industrial Average dropped 143.5 points. AP later said its Twitter account had been hacked. Even though stock prices quickly recovered, this incident highlighted the potential power of using - or misusing - social media to swing the stock market one way or the other.

India, in the past few years has been seen to take the lead in the phenomenon of spreading news, fallacious in nature. Often with dire consequences. Nearly 37% of messages sent on WhatsApp were about "scams and scares" related to technology and conspiracies, among other things, while about 30% could be categorised under nationalism, including "common man" stories and cultural preservation, the BBC

said. The deaths of those caused by people whose emotions have been swayed by hyped up and baseless messages on this medium must never be forgotten.

It is absolutely imperative that the distribution of all news, which is false, be curbed. However, it is equally important that the reader be made aware of the give-aways, with which one could distinguish between, news which is fake and news which is true. Here are a few ways -

1. The form of the news could be investigated. This can be done by seeing if it is a full-fledged article or just a few words on a social media site. If the latter, then the reader must become alert of the possibility, that he may be consuming fake news.

2. To delve deeper into the possibility of the news being fake, the author's credibility could be investigated. Is the author a media professional, a public figure or a well-known expert in his domain? There is a greater possibility that an article posted by an unknown person is false than true.

3. Finally, one must never hesitate to consult an expert. Granted it does take a certain effort and grit to find a reliable one, but it's always better-off to do so.

Seeing and experiencing the world just the way it is without the distortion of all that is false will lead to intelligent action, ultimately creating the wellbeing of people all over the world. With this I hope you, my reader, learn the art of sieving through all that is false online and become responsible and intelligent citizens of our world.

**“ In this era of fake news and paid news artificial intelligence is more and more used as a political tool to manipulate and dictate common people. Through big data, biometric data AI analyses online profiles and behaviors in social media and smartphones. But the days are not far when AI will also control the politicians and the media too.”**

-Amit Ray

# Top Tech trends

Technology is now evolving at a very rapid pace. As technology evolves, it enables even faster change and progress, causing the acceleration of the rate of change, until eventually it becomes exponential. Technology-based careers don't change at that same speed, but do evolve eventually. So, keep your eyes on the future, to know which skills you'll need to know and what types of jobs you want to be qualified to do.

Here are eight technology trends, because the time to train yourself for one of these emerging jobs is NOW!

## 1. Artificial Intelligence

AI is one subset of what is broadly referred to as automation. It refers to computer systems built to mimic human intelligence and perform tasks such as recognition of images, speech or patterns and decision making.

2017 was the year that AlphaGo Zero taught itself the game of Go and within 40 days became better than any human or artificial player ever existed and did so without any human data. It taught itself strategies and moves no human has ever thought of. Again in 2017, AI developers from Google built algorithms that had to compete for scarce resources, resulting in increasingly advanced strategies to beat the opponent. Google Brain developed algorithms that created new encryption methods, unlike any seen before, to protect information from other neural networks. Facebook had to shut down two algorithms that created its own secret language, unsolicited and used advanced strategies to get what it wanted. Putin rightly said "whoever becomes the leader in this sphere will become the ruler of the world"

Jobs will be created in development, programming, testing, support and maintenance, to

name a few. The post of an Artificial Intelligence architect is one such job. Some say it will soon rival data scientists in the need for skilled professionals.

## 2. Machine Learning

Machine Learning is a subset of AI. With Machine Learning, computers are programmed to learn to do things which they are not programmed to do, they learn by discovering patterns and insights from data. While Machine Learning is a subset of AI, we also have subsets within the domain of Machine Learning, including Neural Networks, Natural Language Processing (NLP), and Deep learning.

Machine Learning is rapidly being deployed in all kinds of industries, creating a huge demand for skilled professionals. The Machine Learning market is expected to grow to \$8.81 billion by 2022. Machine Learning applications are used for data analytics, data mining and pattern recognition. On the consumer end, Machine Learning powers web search results, real-time ads and network intrusion detection, to name only a few of the many tasks it can do.

## 3. Blockchain

In the simplest of terms, blockchain can be described as data you can only add to, not take away from or change. Hence the term "chain" because you're making a chain of data. Not being able to change the previous blocks is what makes it so secure. In addition, blockchains are consensus-driven, so no one entity can take control of the data. With blockchain, you don't need a trusted third-party to oversee or validate transactions. This heightened security is why blockchain is used for cryptocurrency, and why it can play a significant role in protecting information.

Blockchain-related jobs are the second-fastest growing category of jobs, with 14 job openings for every one blockchain developer. A blockchain developer specializes in developing and implementing architecture and solutions using blockchain technology. Jobs are available at financial institutions, but also in retail and healthcare, and soon probably manufacturing as well.

## 4. Edge Computing

In the beginning, there was One Big Computer. Then, in the Unix era, we learned how to connect to that computer using dumb terminals. Next we had personal computers, which was the first time regular people really owned the hardware that did the work. Right now, in 2018, we're firmly in the cloud computing era. Many of us still own personal computers, but we mostly use them to access centralized services like Gmail, Office 365, and Slack. Additionally, devices like Amazon Echo and the Apple TV are powered by content and intelligence that's in the cloud. There isn't much growth left in the cloud space. Almost everything that can be centralized has been centralized. Most of the new opportunities for the "cloud" lie at the "edge."

The word edge in this context means literal geographic distribution. Edge computing is computing that's done at or near the source of the data, instead of relying on the cloud at one of a dozen data centers to do all the work. It doesn't mean the cloud will disappear. It means the cloud is coming to you.

For instance, connected devices such as drones, self-driving cars or robots will, most likely, require extreme rapid processing. Creating the data, sending it to the cloud for analysis and returning the results to the device will simply take up too much time. With increased attention to edge computing

to enable intelligent networks, where connected devices will perform the required analytics at location and use the results to perform a certain action.

## 5. Cyber Security

Cyber security might not seem like an emerging technology, given that it has been around for a while, but it is evolving just as other technologies are because threats are constantly new, thanks to hackers who try to illegally access data continue to find ways to get through even the toughest security measures.

On February 28, 2018, the version control hosting service GitHub was hit with a massive denial of service attack, with 1.35 TB per second of traffic hitting the popular site. Although GitHub was only knocked offline intermittently and managed to beat the attack back entirely after less than 20 minutes, the sheer scale of the assault was worrying. WannaCry was a ransomware attack that spread rapidly in May of 2017. Like all ransomware, it took over infected computers and encrypted the contents of their hard drives, then demanded a payment in Bitcoin in order to decrypt them. What made WannaCry significant and scary was the means it used to propagate.

Many cyber security jobs pay six-figure incomes, and roles can range from ethical hacker to security engineer to Chief Security Officer, offering a promising career path for someone who wants to get into and stick with this domain.

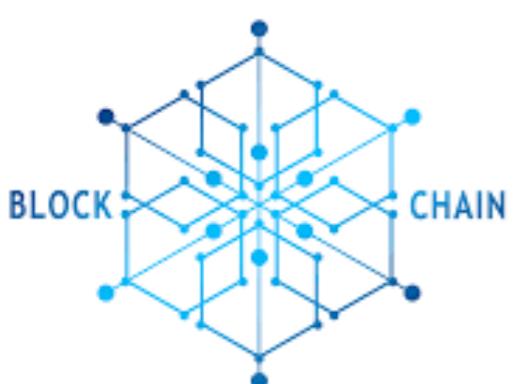
## 7. Internet of Things

The Internet of Things (IoT) enables "things" to be built with WiFi connectivity, meaning they can be connected and exchange data to the Internet—and to each other.

But, there are many challenges yet to overcome in this field. For instance, Mirai botnet in September 2016 infected approximately 2.5 million IoT devices, including printers, routers and Internet-connected cameras. The botnet creators used it to launch distributed denial of service (DDoS) attacks, followed by Reaper Attack and Hajime Attack. Also, The possibility that attackers could hack into IoT devices and record the owners without their knowledge came to light not as a result of the work of hackers, but as a result of the work of the Central Intelligence Agency (CIA). There's an implication that the spy agency knew about dozens of zero-day exploits for IoT devices but did not disclose the bugs because they hoped to use the vulnerabilities to secretly record conversations that would reveal the activities of US adversaries.

For someone interested in a career in IoT, skills needed include IoT security, cloud computing knowledge, data analytics, automation, understanding of embedded systems, device knowledge, to name only a few.

Although technologies are emerging and evolving all around us, these eight domains offer promising career potential now and for the foreseeable future. And all eight are suffering from a shortage of skilled workers, meaning the time is right for you to choose one, get trained, and get on board at the early stages of the technology, positioning you for success now and in the future.



**“Technology  
is anything  
that wasn’t  
around when  
you were  
born”**

- Alan Kay

## The next generation of Tech

Innovations that are set to make their mark in the coming decades.

It's been rightly said that necessity is the mother of all invention and discovery. Humanity has been making strides in the fields of IoT and Machine Learning. We are close to the embarkment of the journey where-in the technological developments would be helping as almost everything!

Many innovations have been the talk of the inventor community, that, if made alive, could transform the way we perceive the world.

### 1. Automated Translating Earphones

These earphones have been made a reality by a corporation called Mars. They have the capability to translate dialects and vernaculars within milliseconds. That's essentially a 24x7 portable interpreter by your side!

### 2. Flying cars

This idea has touched the minds of all people.

A flying car would essentially cut the cost of air travel, and even serve as your very own private aircraft!

Several companies, especially, Tesla has been making strides to make affordable flying cars a reality.

### 3. Brain Reading Technology

### 4. Bio Nano Plastics

### 5. Face Recognition Technology

A large camera takes a picture of your face; you now have access to the entire building. Rather than key cards, face-reading technology could transform security, travel and many other industries. In China, secure financial transactions now utilize facial recognition technology. The new technology for facial recognition uses artificial intelligence to identify a person through multiple facial features.

Researchers have begun using brain-reading technology allowing those with paralysis to move limbs once again. An electronic implant in the brain connects to electrical stimulators located on the body to create a "neural bypass". Not just for paralysis, this technology is also being tested with other diseases. While progress is slow, these advances would allow patients to regain control of their bodies.

Floating garbage patches? Not in the future. The report expects packaging made from plant-derived cellulose to dominate by 2025. Toxic plastic-petroleum packaging that litters cities, fields, beaches, and oceans, and which isn't biodegradable, will be nearing extinction in another decade. Thanks to advancements in the technology related to and use of these bio-Nano materials, petroleum-based packaging products will be history.

Innovations arise out of the need and an idea in your mind. All of us would want something to be made for automating that boring errand of ours. May be, one day, one of us would go ahead and make that idea a reality.

# Kerala VS The Floods

**H**umans are terrible at cleaning up messes. Just look at the average dorm room. Or, you know, our entire planet. Pollution is a hotly debated issue, and it's getting hotter by the minute (literally). And the troubles keep coming. We fix one kind of emission, but then we start dumping lead-filled plutonium tampons in a river without a care in the world. Hidden pollutants are being discovered all over the place. And it turns out the next ecological disaster may have started in your bathroom-- and no, we're not referring to what happens in there after chili night.

## Round 1 – The Devastation

A bruise is a lesson and each lesson makes us better and the floods in Kerala was one such lesson we won't forget for a long time. The floods took the lives of almost 500 people. Huge tracts of low-lying zones, towns and houses were submerged for nearly seven days in numerous spots. The number of people who died, as indicated by the Kerala government website, is around 500. In excess of a million people were misplaced. In support around 3,000 alleviation camps were opened. The people left their belongings and ran to the relief camps which were opened by the government and many other NGOs. The number of people in the relief camps were more than a million. More than 42,000 hectares of crops are demolished. There were 537 landslides and 221 bridges destroyed. All the districts in Kerala were placed in red alert. When the flood took a nasty turn the first responders were not the army but the locals and fishermen who placed other lives above theirs. All kinds of transportation were at halt. Even with the modern technology There wasn't anything that could be done. The main problem faced by the people who were stranded in their own homes was that there was no way to contact



with the outside world. Even the help couldn't reach them.

## Round 2 – The Recovery

During the biggest flood we had in a century we proved that when it is time to face a common foe or a disaster, humans are still there for each other. Keralites helped each other to survive forgetting their past differences. When the people of Kerala needed help, it came from all sides of the world, from the vendor who come to our house to sell clothes to the highest paid actor in India, even from people who were thousands of miles away helped us to overcome this tragedy. The people of Kerala will never forget the ones who helped them. As a great man said - when the snows fall and the white winds blow, the lone wolf dies but the pack survives.

On the surface, of course, the state is dry. The water is out of the living rooms and the streets. Most of the residents are back from relief camps in their homes, whether it is refurbished or not. The piles of debris on the streets are long gone, except in some interior pockets. Millions are rebuilding their lives, often from scratch, aided by government funds, donations, and strong social bonds. An economic recovery, even though sluggish, is on track. Yet, the floods shadow people's lives in several ways, be it the loss of one's life-long savings, the loss of a business and future income, spiralling household debts, and so on. A sense of normalcy, it seems, has become elusive. The partially and fully damaged houses are being repaired. A lot of families now has a refurbished new house in the place of the pile of debris that greeted them on their return from a relief camp. The houses are set on an elevated foundation, raised from the ground using iron rods, so that it can withstand future floods. Water which stood several feet high from the road has left the road fully damaged. Although the people in Kerala still have fear in their minds about the rivers which

flow peacefully now but destroyed their homes and nearly their lives some time ago.

## Conclusion

It may be a reminder that there are a lot of things we cannot control, so it's high time we try to live in accordance to the laws of nature. We may differ in many things but it is during these difficulties we learn that all of us are the same, we realize we are nothing but sacks of meat, blood and some bone to keep it all standing and what we really want is to survive.



# INTERVIEW WITH PROF M.P RAJAN DEAN ACADEMICS IIIT KOTTAYAM



1) Compared to other IIIT's , the curriculum of IIIT kottayam is unique. So in what ways, students of IIIT kottayam are benefitted from that?

A) In curriculum point of view, it is slightly different from other IIIT's as well as IIT's. Here the basic difference is that any IIT's or any other engineering colleges you take, everyone has to study all the subjects like physics, chemistry etc.,. Here the difference is that you will study the essential things, ingredients for your future. When I have interacted with many other engineering students, they told that whatever they are covering within 4 years is covered here within first 2 years. The remaining 2 years which you are choosing has elective point of view, where you will be able to take series of electives or the courses which you can specify. That is the major difference you observe from the rest of the institutes.

2) Academically, in which areas IIIT Kottayam will be focusing on?

A) We have some idea about Data Engineering, Artificial intelligence and then Machine learning that we are primarily looking into and IoT, of course we already have an IoT, so we are focusing in that particular area too. Data Engineering is an area in which many IIT's or IIIT's focusing on. People may be focusing on networking and all other things but here we are basically focused on IoT and Data engineering. So that is what we are just here focusing upon.

3) In this era of AI, Machine learning and Data science, what is the role of mathematics compared to other courses in this B.Tech stream?

A) When I worked in industry, although I was from maths background, I was always interested in computing aspect. Even at my time, I got selected in campus interview because of my computing knowledge. When I went for campus recruitments also, I always emphasize mathematics. If someone is strong in mathematics, then one can master any other subject. The person

with mathematics will have more logical or reasoning abilities. And for studying data science or machine learning, you can see that requires basic mathematics. From data science point of view, it is basically interdisciplinary maths, statistics as well as this computer science interdisciplinary area where each one will be focusing on. So even in financial engineering point of view, maths and finance are prior than computer science. So that is why I could master in those subject where I had very strong foundations in mathematics. So the same logical approach has been applied in designing your curriculum as well. The theorems, proofs will always improve your logical mind, reasoning. That's what from my experience I am telling.

**4) In these years of experience many students and researchers had worked under your supervision. So according to that statistics, at this moment, which field is better for the students for the future career?**

A) From my point of view, I started my career in IT sector, as a software engineer. So, there in software engineering you will start coding, but when I worked in company, I was put on a more research oriented project. There I started learning in finance. But that is an area where lots of money coming into the picture. Quant is highly paid area in this world. It is a label for rock scientist. Means that person is good in maths and good in computer science, otherwise one cannot become such as a quant. But now, because of latest trigger in data science, which is I just slowly moving into, where I will explore many of the things, of course machine learning and all those things I have implemented and experienced when I was connected with industry. So, I feel this would pave for a good path for students.

**5) As this institute has given a special privilege by introducing PhD programs, so for a research aspirant (of IIIT Kottayam), how advantageous is this opportunity?**

A) Yeah, we have introduced this PhD program, because we thought especially of two things. One thing is that PhD research and teaching skills should be equal preference, since IISER is mentoring, we have equal preferences on the both, so the same thing we want from here too, so that its not only just about the number of students being passed out, but also the number of publications, the type of research being done. They have to do research, and that way the students will get exposure. Second thing is that if you look at the course structure, tutorials were being taught by PhD students, so that they will also get a teaching experience and at the same time, it will benefit B.Tech students. This demarks the institute from the rest. Industry academic collaboration is required, means that faculty expertise should be very good. And here, we offer B.Tech+MS+PHD giving it someone who wants to do a PG, suppose after B.Tech if you want to do M.Tech/ME, 2 years is required but within one year, you can get another degree with additional credits. That's like most of the dual programs, but this is to address mostly on research oriented projects.

**6) How are the placement opportunities gone to be in IIIT Kottayam?**

A) Everywhere there is a placement cell. When I was working in IIT, I was placement in charge. There was a placement team which involves student and the faculty. There the students are the workforce. They get the contacts from many people. When two or three people get together, then you get 10 to 15 companies. So that way you get started initially, then after the students

who are getting placed in some companies will realize the quality of the institute, then they get their companies and the process will continue. So initial phase has always been some trouble, but once if it is stabilized, many people will come. It depends upon the quality, the people who go out of the institute, how qualified they are in their work, based on that only the companies will come next time. So that has a lot of positive advantage mainly nowadays, the internship will one year early or two years earlier itself, they will simply hire the people for the Summer internship, then they take the guy for a regular job. The trend has changed now. Now they are coming for the internship recruitment, then they will analyse that guy for 2 to 3 months and then the job offer is done.

**7) How was your experience working with Goldman Sachs?**

A) I've always been interested working in industry. But at the same time, I don't want to work in industry forever. My idea is to go to industry and get expertised, then I can do my own work in my own way, because with industry the problem is that, you have to work under the direction of someone else. It's a timelined projects. I personally don't like, I want to implement my own ideas so, when you are working in industry, you will get to be an expert. Although I was the first person in the quant group, there my idea is to somehow know what is actually the modelling, how it is practically being implemented, these are all my curiosity. After that, I had enough experience in industry so I have started my own startup's. Now I am working on that one.

**8) How do you feel your experience with IIIT Kottayam. Any memorable incidents which you want to share with us?**

A) I'm happy to be part of this institution. Earlier, I started canvassing about setting up a national institute with some IAS officers and people from IIT's, and some other officers, then finally we made a group and submitted the report to the ministry. That is how IIT Palakkad came into the picture. But while doing that, I came across the proposal of IIIT Kottayam, and they asked to design a report to establish this IIIT. So, first write up actually I have given, but I never expected that I will be part of this one. I am happy with whatever I could do, that has some meaning somewhere.

**9) What would you like to convey for the students of IIIT Kottayam?**

A) Be sincere, hardworking and you should always keep your ambitions in view you can think high like a sky. You should be with that nature. You should have always 100% efforts to reach your goal, then only you might be at least seventy percent. So always think high and work hard, you don't need to be an extraordinary person. With your sincerity and hard work, you can always achieve.

# CAMPUS LIFE

## Trip to Thenmala



I still remember the first trip that I took with my batch mates 3 years ago. It was during the time when we resided in a transit campus and the administration decided to take us on a tour to the place where our college is about take its roots. It was a privilege for our first batch students to set our foot on the land where the future of our dreams lie. Among the shyness, excitement and innocence, we all developed a virtual bond amidst us which we know that will strengthen during upcoming days. Another thrilling experience was when we had a trip to Thenmala all of a sudden at 6 am. So, one fine Sunday we were all destined to travel in rented cars for 80km which we can never think of forgetting in this lifetime. From roasting our friends to getting ourselves roasted, from sharing food to sharing memories, from car races to caring drives, from selfies to group pics, from playing songs to singing songs and finally from complete strangers to sheer friends this journey piled up lot of memories that are going to cling on in our minds whenever we think of road trips. I hope to go back to those days to recollect the sweet and everlasting memories once again.

-M. Srija Asritha , Batch 15

## Personal Experiences

In this world of complete traffic, we all meet strangers. Some will end as well wishers, some as good friends, some again as strangers, but there are some people out there without whom we are just empty vessels, without them the word family is incomplete.

This is to share my memories with the people who I met as strangers and transformed to my mood makers. This all started in the month of August. Actually, it was set into motion from January itself. Then, everyone was seriously preparing for the JEE mains exams. I was just one among everyone. Those three months (Jan , Feb , March) were nightmares that still haunt me. I worked completely beyond my limits, daily night outs, at times I even forgetting to take food. Not only me, but my friends were also in the same boat. Some worked hard over nights for their passion of studying in national institutes, some for their well planned future, some just to satisfy their parents and some like me to cross my home town, to live independently and to make memories. At last I crossed the line. I secured a seat in IIIT Kottayam. My family was proud of me and really happy. Dad's eyes were filled with happy tears, on other hand my mom's eyes welled up from thinking she would lose me. Mom's are often possessive about their child and don't want them to leave their nests, dads too, but they never show it. Finally my family decided to send me to Kerala.

I was set free but there was no one to welcome me in my land of freedom. I was a stranger in a strange land. This was not just my situation but every student who had finally soared on their wings, free from intimidating hotel wardens and never ending exams in interns. We had finally learned to fly, but now I was lost.

They say necessity is the mother of invention, and the saying held true for us too. Soon we picked up and got around to socializing with others, I taught myself to approach others and even to impress the ladies with some good old flirting. I learned many valuable things. At first every friend is stranger, that is why we shouldn't hesitate to approach all our mates, most of them grow into friends. A few though, become indispensable to us, a part of our heart, our gang.

My gang rules are very simple. "Together Everyone will Achieve More"... we all stay together, both in good times and in the worst moments and take care like family a does. It was not an exemplary story of unity though. We fought a lot at times, kicked each other, tired to pull out other's hair. But underneath it, all there is love that patches us up at the end of the day.

I can't fathom how my campus life would have been had it not been for my friends, they bring out both the best and the worst in me. The proverb hits the spot when it says

**"A friend in need is a friend indeed"**

We are living in a world of competitions. 'Survival of the fittest' and 'Only result matter' are the two slogans of this capitalist, materialistic world. To stand at the top in this competition, a fit body should supplement a strong mind and IIIT Kottayam spares no effort in ensuring this advantage to its students.

Sports include all forms of competitive physical activities or games which, through casual or organised participation, aim to use, maintain or improve physical ability and skills while providing enjoyment to participants, and in some cases, entertainment for spectators.

Sports in IIIT Kottayam is well encouraged and the students in this institute actively participate in sports with passion and flair. At the permanent campus, the sport's facilities are still under development, but the passion of the students towards sports activities means that many solutions have been come up with already. Temporary solutions and efforts of the students was supported by the authorities and more facilities are on the way.

Institute has provided sufficient funds for sports equipment. Students in IIIT Kottayam are well equipped and encouraged with all the facilities. SPORTEC is aiming to get as many Gold medals as possible in the sports meets which will be conducted in the future. SPORTEC ensures the students of IIIT Kottayam all the support, motivation and facilities they'd ever need when it comes to sports.

Play well and stay healthy, because mental strength alone is not enough for an individual to be perfect, but also physical fitness. Sports and games make you feel excited and brings out the best in you.

**-Anurag Reddy , Batch 17**

# PEOPLE OF MAGAZINE



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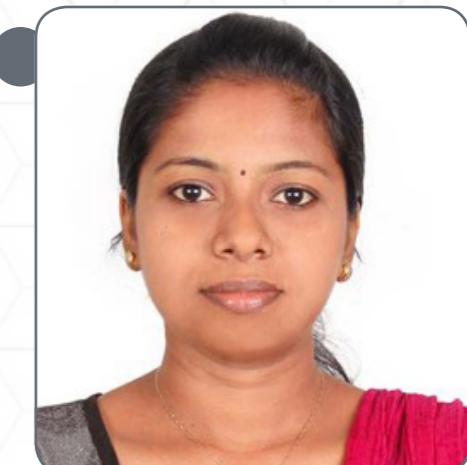
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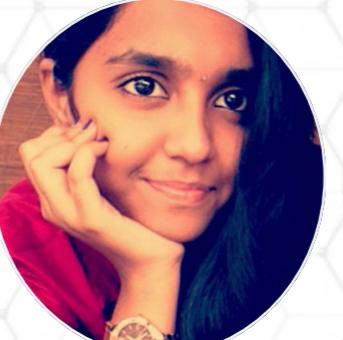
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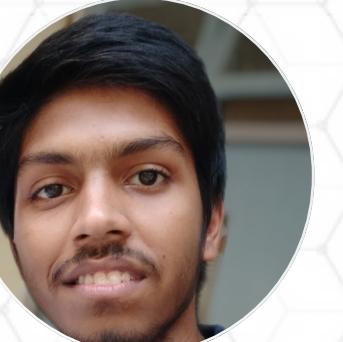
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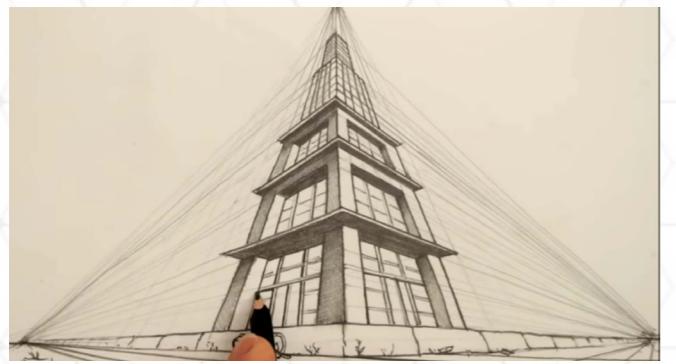
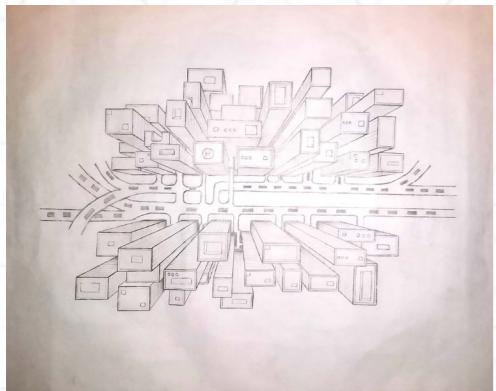
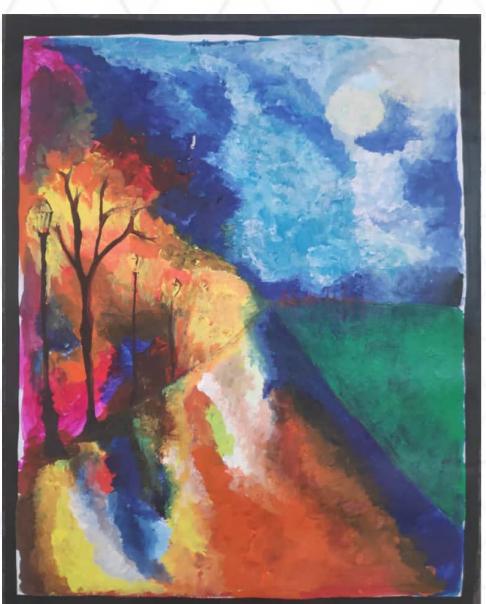
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## Our Campus



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To bring up an evolution in the journey of IIIT Kottayam, we feel immense pleasure to come up with the idea of having an annual magazine, taking a step ahead in outreaching the fame of the institute, all-around.

So, in this magazine, we publicize the activities happening in and around the institute like cultural events, sports meet, social events, technical activities, college life of students, thus spreading the essence and fragrance of the happenings, widely. As a consequence, we've chosen our magazine name as **Nirhaar**, taken from sanskrit, which means **Diffusive Fragrance**, determines the motive of this magazine.

We extend gratitude to all our faculty members, who have helped us with their valuable suggestions in bringing out the magazine.

And last, but not the least, the credits goes for the student members of the magazine, who worked a long way to make this beautiful thing happen.

Hope readers will enjoy reading this magazine.

With good wishes to all  
Sai Madhav & Sameer Kumar  
Mentors of Trendles club

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