



# InTELEgencia

Newsletter Volume: One | September 2017.

## College

### Vision:

Strive continuously to impart quality technical education with ethical values, employable skills and research to achieve excellence.

### Mission:

- To attract and retain highly qualified, experienced and committed Faculty.
- To create relevant infrastructure.
- Network with industry and premier institutions to encourage emergence of new ideas by providing Research and Development Facilities to achieve excellence.
- To inculcate the professional and ethical values among young students with employable skills and knowledge acquired in transforming society.

## Department

### Vision:

To provide quality technical education endowed with human values to face global challenges.

### Mission:

- To offer state of art teaching by highly qualified, experienced and dedicated faculty.
- To impart high quality education that enables innovations, research and team work capabilities.
- To inculcate value based learning for overall development of society.
- Interact with Industries for enhancing technical and communication skills.

## Principal's words



Dear students and staff,

I record and congratulate the entire department of Telecommunication Engineering for bringing out the first edition of their Newsletter. This issue showcases the curricular, co-curricular and extra-curricular achievements of the staff and students of the department. Institution encourages the staff to continue the excellent work and guide their students to achieve success in all directions.

I would like to commend the efforts of the newsletter team for documenting every accomplishment of the department during the academic year 2016-17. I wish the department a great success in their endeavours.

- Dr. T. V. Govindaraju

## HOD's words



Dear all,

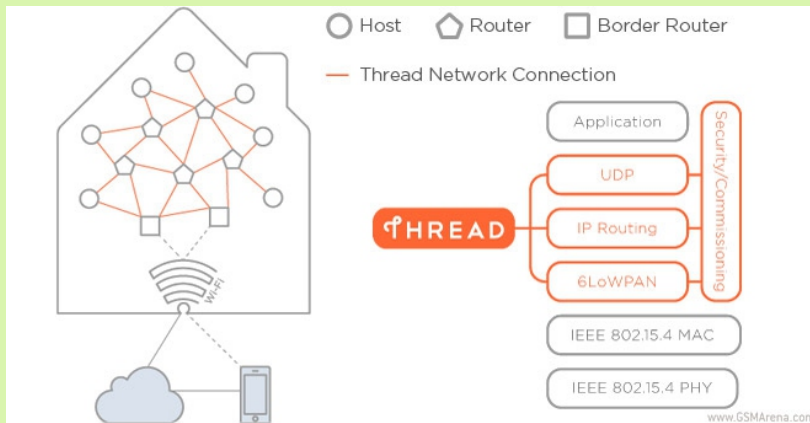
"Success comes to those who work hard and stays with those, who don't rest on the laurels of the past". To succeed in life, one can't be ordinary, but should be extraordinary. The strength of the department is our Human Resource, dedicated faculty, technical staff and enthusiastic students. Here we motivate students to learn and develop skill sets to engineers in future. For me, this is a time to reflect on the consecutive two years' success of 100% result for the final year (2016 and 2017 batch) and to refocus on goals that remain to be accomplished. I would also like to take this opportunity to congratulate all students for participating and winning prizes in extracurricular activities.

Best wishes for the academic year 2017-18.

- Ms. Chanda. V. Reddy

**"Innovation distinguishes between a leader and a follower"**

## Thread (network protocol)



**Thread** is an IPv6-based, closed-documentation, royalty-free networking protocol for Internet of Things (IoT) "smart" home automation devices to communicate on a local wireless mesh network.

Thread uses 6LoWPAN, which is based on the use of a connecting router, called an edge router. This in turn uses the IEEE 802.15.4 wireless protocol with mesh communication, as does ZigBee and other systems. Thread however is IP-addressable, with cloud access and AES encryption. It currently supports up to 250 devices in one local network mesh.

An "AS IS" BSD licensed free and open-source implementation of thread (called "OpenThread") has also been released by Nest.

## View of Alumni on Telecom field

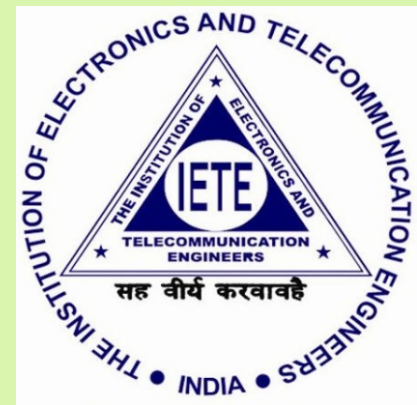


As of February 2017, INDIA has a rapidly growing telecom subscriber base of 1.18 billion. The scope of telecommunication is endless. It is a wide field which sets up job opportunities, like being a Broadcast technician, Network systems analyst, Programmer, Entrepreneur, Radio dispatcher, Communication equipment operator, communication analyst, Technical manager, Signals intelligence analyst, Electronic engineer, etc. The field also offers a broad scope in networking, broadcasting and optical fiber installations. Apple, Nokia, Motorola, Reliance, B.S.N.L are some of the major companies that offer core telecommunication jobs. Companies like ITI and B.E.L play a major role in supplying communication equipment and advanced electronic products for The Indian Armed Forces.

Being Telecommunication Engineers, we design hardware and software components and implement network base on client need.

My suggestion to all the Telecommunication Engineers is that there are a lot of core job opportunities as mentioned above waiting to be occupied. So start working today to achieve the goal that you desire!

- Rohith Shenoy V (2016 batch)



The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading recognized professional society devoted to the Advancement of Science, Technology, Electronics, Telecommunication and Information Technology. Founded in 1953, it serves more than 69,000 members through 59 centers/ sub centers primarily located in India (3 abroad). The Institution provides leadership in scientific and technical areas of direct importance to the national development and economy. Association of Indian Universities (AIU) has recognized AMIETE. Government of India has recognized IETE as a Scientific and Industrial Research Organization (SIRO) and also notified as an educational Institution of National Eminence. The objectives of IETE focus on advancing electro-technology. The IETE conducts and sponsors technical meetings, conferences, symposia, and exhibitions all over India, publishes technical journals and provides continuing education as well as career advancement opportunities to its members. IETE today, is one of the prominent technical education providers in India and is fast expanding its wings across the country through its 61 Centres. Over the last 59 years, IETE has expanded its educational activities in areas of Electronics, Telecommunications, Computer Science and Information Technology. IETE conduct programmes leading to DipiETE equivalent to Diploma in Engineering, AMIETE equivalent to B Tech. IETE has also started Dual Degree, Dual Diploma & Integrated programs from December 2011.



## Did you know?



17<sup>th</sup> May is celebrated as the World Telecommunication and Information Society Day.

# Journey of Budding Entrepreneurs



Name: Rahul Kumar A, Sirisha N S,  
Bharath Gowda P S, Rajath N M

Workplace: Inversa Technosoft Pvt. Ltd.

E-mail: [info@inversatechnosoft.com](mailto:info@inversatechnosoft.com)

## How did the idea of Inversa Technosoft occur to you?

*Rahul:*

As an entrepreneur, I have been brainstorming for startup ideas so many times that I've lost count. Since 12<sup>th</sup> grade, I have been trying out something and that is when I started my first venture, where we provided customized t-shirts and hoodies. Over the years, I started noticing that what I really wanted was to find that "waah" experience. This exercise became a bit like solving a puzzle.

I started working on many ventures in my engineering days. I used to make teams, have meetings, meet people in the same stream and brainstorm the ideas. But each and every time I failed. I started figuring out why and found out that my teammates weren't as enthusiastic as me in starting a new venture. So now my biggest challenge was to work alone or find someone who is as enthusiastic as me and I found that in Sirisha, Bharath and Rajath.

Now that we had a perfect team, all we had to do was to start.

That is how **Inversa Technosoft Pvt. Ltd.** HAPPENED!

## How were the first three months?

*Sirisha:*

We started ITS when we were still students; we were in our final year, 7<sup>th</sup> sem to be precise.

First month we had no projects to start with. But then, we had something more important to deal with - to make a proper plan as how the future of the company should be.

By the start of the second month we knew we had to start off what with we had planned for the entire month and we thought why not try giving a workshop at our college itself? I really thank our HOD, my Teachers and the non-teaching staffs for helping us plan the workshop and making it happen. The students loved the way the workshop was organized, and yes, now definitely we knew we could do something!!

The third month was unexpected and filled with surprises. We started getting projects from students of other engineering colleges.

Right now, we are exploring the market opportunities and working on backend of the business and taking up

small and limited projects. We will officially come to the market once we build enough ammo.

## How important is entrepreneurial skills for an engineer?

*Rajath:*

I feel it is no longer enough to come out of college with a purely technical education; engineers need to be entrepreneurial in order to understand and contribute in the context of market and business pressures.

These skills are just as relevant for success in established enterprises as they are in startups; students with entrepreneurial training who join established firms are better prepared to become effective team members and managers and can better support their employers as innovators. It also teaches engineering students in all disciplines the knowledge, tools, and attitudes that are required to identify opportunities and bring them to life.

I worked in startup companies like Rapido IndoFlash, Iruve.in, Desi Adda and many more where I learnt many things as to how difficult it is to run a startup and manage the work with an emerging team.

## Future of Inversa?

*Bharath:*

ITS is a one stop solution for all the problems faced by students. Inversa is not just about workshops and projects; We at Inversa are mainly work on issues students face like – unavailability of standard notes, unavailability of question papers, a platform to understand lab experiments better, complex concepts taught in simple sentences and so on.

## What is the message from Inversa to the upcoming telecommunication engineers?

We, the members of Inversa would like to advice students to start understanding and designing for end users, working in and managing interdisciplinary teams, communicating effectively, thinking critically, understanding business basics, and solving open-ended problems.

**"An attempt may be a failure, but never fail to make an attempt"**

## Events Conducted

- ◆ A two day IETE Workshop on “**ARM CORTEX**” by Tenet Technetronics, was organized on 27<sup>th</sup> and 28<sup>th</sup> August, 2016.
- ◆ **Vanquish-16**, an annual event of the department was organized on 15<sup>th</sup> September, 2016.
- ◆ A Technical talk on “**Space Technology in India**” was presented by Shri. H.L. Srinivasa, Scientist, ISRO, on 25<sup>th</sup> March 2017.
- ◆ A two day Workshop on “**Intro Arduino**” by Inversa Technosoft Pvt.Ltd was organized on 3<sup>rd</sup> and 4<sup>th</sup> March 2017.
- ◆ A Technical talk on “**Mobile Networks beyond 4G**” was presented by Mr. Devdas Pai, Founder & CEO Nanocell Networks Pvt.Ltd on 10<sup>th</sup> May 2017.

## Sports

**Thahir Saquib Khan** of 8<sup>th</sup> semester won the **Individual championship** during annual athletic meet of the institute on 18/02/2017.



He secured First place in :

- **100 metres running race, 200 metres running race and long jump.**

## Magazine



Telecom Era (TE) published by Global Creations Group publications is the only magazine from India which exclusively cater Telecom Industry Professionals world over by disseminating latest and up-to-date information on the developments and prevailing issues confronting entire telecom sector viz. Fixed Line, Wireless, Mobile, Broadband, Multimedia etc. The magazine publishes 10 issues a Year.

## Industrial Visit

- ◆ One day visit to **HAL Heritage Centre and Aerospace museum**, Bangalore on 20<sup>th</sup> August 2016.
- ◆ One day visit to **The Indian Institute of Science (IISc)** Bangalore on the occasion of open day on 4<sup>th</sup> March, 2017.
- ◆ One day visit to **Indian Space Research Organization (ISRO)**, Bangalore on 9<sup>th</sup> March 2017.
- ◆ Faculties attended the **IMTEX 2017 and the concurrent Tooltech 2017** exhibition organized by Indian Machine Tool Manufacturers Association from 26<sup>th</sup> January to 1<sup>st</sup> February 2017.

## International Journals

- ◆ **Ms. Chanda V Reddy**, Assoc. Prof. & Head, published a paper entitled “**Insights of Bit- Loading Algorithms for Effective Resource Allocation in Wireless Networks**” in IJSER, volume-8, issue-6, June 2017, ISSN: 2229-5518.
- ◆ **Ms. Chanda V Reddy**, Assoc. Prof. & Head, published a paper entitled “**Novel Framework for Enhancing Communication Performance Quality in 5G Networks**” in IJET, volume-9, issue- 3, June-July 2017, ISSN: 0975-4024.
- ◆ **Dr. Manju V C**, Prof., published a paper entitled “**Seclusion of Waste segregation using ARM**” in IJECCE, volume –8, issue -1, January 2017, ISSN: 2249-071X.

## Symposiums Attended

- ◆ **Dr. Manju V.C**, Prof., attended a four day 7th International Symposium on “**Microwaves-2016 (ISM-16) and Microwaves School**” organized by **IEEE Bangalore Section** held during 19<sup>th</sup> to 22<sup>nd</sup> December 2016 at NIMHANS Convention Centre.
- ◆ **Ms. Srividya R**, Asst. Prof., attended one day National Symposium on “**Computer Technology and Networking**” organized by Department of Computer Science and Engineering on 1<sup>st</sup> December 2016 at Malnad College Of Engineering, Hassan.

## Editorial team

**Mr. Senthil Babu K**, Assoc.Prof.  
**Ms. Rekha N**, Assoc.Prof.

**Sumanth K S**, 7<sup>th</sup> Sem  
**Aditya S**, 5<sup>th</sup> Sem  
**Srihari N V**, 5<sup>th</sup> Sem

“An investment in knowledge pays the best interest”