



K.S.INSTITUTE OF TECHNOLOGY

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InTELEgencia

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College

Vision:

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 to transform the society.

Department

Vision:

To bestow quality education in Telecommunication Engineering endowed with human values to secure a better connected society.

Mission:

- To provide effective pedagogy for building and realizing the required knowledge and skills that constitute a telecom professional.
- To impart learning through innovations and team work with ethical values.
- To instill the quest for continuous learning and enhancing their communication skills through professional bodies and clubs.

Principal's words



Dear Staff and Students,

The strength of the team is each individual, the strength of each member is the team. I congratulate the entire department of Telecommunication for promulgating the third edition of their newsletter. It is congenial that this newsletter is the amalgamation of the latest technologies, real world applications; it also exemplifies the view of alumni, journey of budding entrepreneurs and achievements of staff and students. The institute appreciates the staff to keep the exemplary work ongoing.

I would like to commend the efforts of the newsletter team for credentials of every accomplishment of the department during the academic year 2017-18. I wish the department a great success in their endeavours.

- Dr. T. V. Govindaraju

HOD's words



Dear all,

Education is the key to success in life and teachers make a lasting impact in the lives of their students. Education is not the learning of facts, but the training of the mind to think. Likewise, our telecommunication department imparts quality education to provide strong academic leadership and highest possible standards of excellence in all its activities towards building a brighter future for engineers.

The department focuses on practical knowledge by providing all necessary facilities. Students are motivated to participate in curricular, co-curricular and extra-curricular activities for their overall development.

I would like to appreciate the work and congratulate all students for participating and winning in various activities. Best wishes for the academic year 2019-20.

- Dr. Chanda. V. Reddy

“Education is the most powerful weapon you can use to change the world”

My Time at KSIT

To say that my time at KSIT was all that I hoped for and more is but an understatement. I still remember my first day, I was really worried that I wouldn't be able to make any new friends, however, I was pleasantly surprised to find everyone including the teachers being welcoming. And now, after 4 years I can say I still talk to all the friends I met on the first day! The first few weeks were hard to get used to since many teachers expected us to take running notes and this was personally something new to me considering I was always given dictated notes. But I soon understood that this method was more efficient since it involved students to listen and then understand and make notes which really engraved the concepts in our brains.

In the second year our class entered our respective Department – i.e Telecommunication Engineering. On the first day I met the staff who turned out to be warm and willing to help with any and all issues we face. We also were introduced to the Head of the Department, Dr. Chanda V Reddy, who asked us to maintain the legacy left behind by our seniors and the excellent status of our Department within our institution. I have always been interested in quizzes and the second year saw us getting excited to participate in all such fun events organized in college across different branches. The first few events weren't great but then we really started performing well and won a few events as well. The point is the college provides every single student with tons of opportunities, it's up to the students to grab them and be on the lookout to be the first to see the opportunities spring up.

Having participated in **VANQUISH** since the second year, I was genuinely awed at the innovation and creativity shown by our seniors in organizing such a successful event. The fourth year started the placement drives for our batch and I was really impressed with the number of opportunities that were available to us through the placement department. I was fortunate enough to get placed really early, and I have the college to thank for providing me with the opportunity and helping me take my first step towards a hopefully bright future. The teachers helped me throughout the year with project issues. The year culminated with us the class celebrating teacher's day and organising a successful **VANQUISH** and also representing the department in the college fest **ANANYA**.

All in all, the 4 years I spent at KSIT was blissful, the teachers were excellent and the friends I have made will hopefully be my friends for many years to come. I wish all my juniors all the very best and one piece of advice I can give is that there are many opportunities available, just grab them. And, most importantly enjoy your college time since you will surely miss it as soon as you leave.

- **Mr. Aditya Srinivasan, Batch of 2019**

Alumni Stars

We-Chitra is an artistic, social and cultural team which was started in 2017. The name We-Chitra depicts two meanings :

- **We** - represents the team members
- **Chitra**- movies
- **We-Chitra** - the ideas and work from the team is Vichitra which means crazy and creative.



It's been a year now and we as a team have progressed a lot. It's been a good journey so far, our hunger for movie making had increased and we have expanded to an extent where we have divided ourselves into different departments in movie making. People in the team have identified their interests and are working on it with full dedication and focus while simultaneously balancing their professional careers.

In our journey, we've been able to meet numerous professionals who are still performing art as a hobby. A lot of people have inspired us, bene a motivation to take this up more seriously and to manage this along with busy professional work. We've thrived enough to be able to produce a multilingual movie that is shot in different parts of Karnataka.

The artists in the We-Chitra team are recognised by a troll page for their work and are asked to develop a story and direct it for social awareness. The artists have also gotten the chance to work with professional actors and directors and have also attended an acting workshop conducted by a recognizable theatre group.

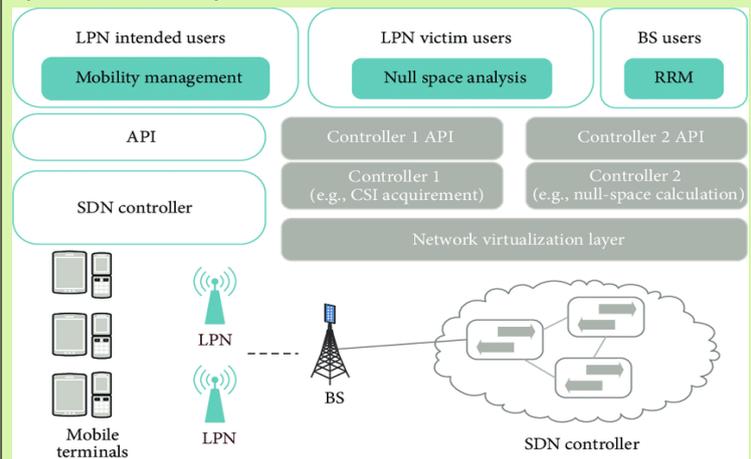
Our future plans include forming a theatre group which perform plays on a regular basis, practicing the art and hence, spreading our rich culture and heritage and making sure each and every person is motivated and inspired.

I think today where we stand as a team is quite satisfactory and our progress has given us confidence that we will be able to take it further and accomplish all our goals. Together, the belief has grown from a maybe to a definitive yes. We would like to extend a few words to our juniors-it is very important to concentrate on our passion along with our professional work.

"An investment in knowledge pays the best interest"

Latest Technology

Software-defined networking (SDN), network functions virtualization (NFV), and network virtualization (NV) are giving us new ways to design, build and operate networks. Over the past two decades, we have seen tons of innovation in the devices we use to access the network, the applications and services we depend on to run our lives, and the computing and storage solutions we rely on to hold all that “big data” for us. The upcoming 5G technology also helps bring SDN and NFV to larger applications owing to the large network bandwidth and speed offered by 5G.



Applications –

Thanks to the advances in today’s off-the-shelf hardware or whitebox networking, developer tools and standards, a seismic technology shift in networking to software can finally take place. This is reason why SDN and NFV have become the key to building networks that can:

- **Enable Innovation:** enabling organizations to create new types of applications, services and business models
- **Offer New Services:** Create new revenue generating services
- **Reduce CapEx:** allowing network functions to run on off-the-shelf hardware
- **Reduce OpEx:** supporting automation and algorithm control through increased programmability of network elements to make it simple to design, deploy, manage and scale networks
- **Deliver Agility and Flexibility:** helping organizations rapidly deploy new applications, services and infrastructure to quickly meet their changing requirements.

My Experience at KSIT

Graduation. Ah.. It’s great to end a chapter and there is a strong sense of accomplishment, accompanied by the paralyzing fear of uncertainty and what comes next. This is especially true if you don’t have a job lined up after the course.



My freshman year, I’d just moved in, adjusting to college and engineering life along with studying for internals, assignments, records and the norm. Second year, getting introduced to the department as well as the telecom lifestyle. Third year, making a few best friends, preparing for life’s battle, bidding farewell to awesome seniors, attending placement training and internships. Final year, we dealt entirely with project reports and seminars. And suddenly, the long 4 years turned out being shorter. The old me would have never missed KSIT but time changes and now I don't miss it-my teachers, campus, friends and every other bit of it.

Department of Telecommunication, yes, they are a bit stern, yet if given an opportunity they never said know for fun. All the strict rules that had felt irritating then has taught me patience now. I've had a lot of memorable moments of my life in KSIT-right from bunking classes to adding proxies for my friends. We reach a place either by our choice or if it's our destination. I believe that's true; KSIT who is not my choice but a destination. Every beginning is hard and so was mine, but it eventually turned out to be a pressure.

It's not just the internals, exams and studies; the bond with KSIT extends beyond. At the end of the day it's all about how one looks at their past-you either learn, smile or regret. And I have learnt quite a lot. With all my gratitude, I would like to thank all my professors who were there throughout this journey. Your support was immense. To my friends who made the journey so memorable and sweet, thanks for being there. Goodbyes are hard but it's a start of the next fresh chapter of life. Free now, I feel proud to say that KSIT has been an exciting and resourceful chapter.

- Mr. Vineeth .R, Batch of 2019

Congratulations



Dr. Chanda. V. Reddy, for being awarded a **Doctorate Degree** from VTU, Belagavi.

Events Conducted

- ◆ A technical talk on “**Importance Python Programming and its Application with regard to Machine Learning and Image Processing**” was presented by **Dr.Mahantesh .K**, Associate Professor, Department of Electronics and Communication Engineering, SJBIT on **2nd Feb 2019**.
- ◆ A guest lecture on “**Career Path**” was delivered by **Mr. Guru Sharan**, KSIT alumni, Founder of PathfinderNRI, in association with IETE on **3rd Mar 2019**.
- ◆ A technical talk on “**Importance of Data Structures using C++ and its Applications**” was presented by **Ms.Vipula Bhalla**, a business executive, in association with IETE on **15th Mar 2019**.

Achievements - Staff

- ◆ **Dr. Manju .V .C**, Prof., participated in **TCS World 10k** held in Bengaluru, **19th May 2019**.
- ◆ **Dr. Manju .V .C**, Prof., participated in **NEB Sports: Bengaluru 10K Challenge** held in Bengaluru, **7th Jul 2019**.
- ◆ **Dr. Manju .V .C**, Prof., participated in **24 Hour Bengaluru Stadium Run** held at Kanteerava Statdium, Bengaluru on **20th Jul 2019**.



Achievements - Students

- ◆ **Mr. Karthik Narayan .L** participated in Cobalt Skies '18 organized by Bangalore Medical College and Research Institute, Bangalore from **1st Oct to 6th Oct 2018**:
 - Secured **2nd place** in 4x50m Medley Relay - Men
 - Secured **2nd place** in 4x50m Freestyle Relay - Men
 - Secured **3rd place** in 4x50m Mixed Relay
 - Secured **3rd place** in 50m Backstroke - Men



- ◆ **Mr. Karthik Narayan .L** participated in Interzonal/Single Zonal Tournament 2018-19 organised by Visvesvaraya Technological University held at BMS College of Engineering, Bengaluru from **3rd Oct to 4th Oct 2018**. He represented KSIT.

- Secured the **Runner-Up position** in 50m Backstroke
- Secured **3rd place** in 100m Backstroke
- Secured **3rd place** in 200m Backstroke
- ◆ **Ms. Shriyukta Ram** participated in the event Fashion Show and secured **2nd place** in Pranati Intercollegiate Techno-Cultural Fest held at Jyothi Institute of Technology on **15th Mar 2019**.
- ◆ **Ms. Shriyukta Ram** participated in the event Fashion Show and secured **1st place** in Intercollegiate Techno-Cultural Fest held at Vemana Institute of Technology on **13th Apr 2019**.
- ◆ **Ms. Shriyukta Ram** participated in the event Fashion Show and secured **2nd place** in Intercollegiate Techno-Cultural Fest held at Dayananda Sagar Academy of Technology and Management on **11th May 2019**.

International Journals

- ◆ **Ms. Srividya .R**, Asst. Prof., published a paper entitled “**A Comparative Analysis of RSA and BAES for MANET Routing Protocols**” in IJRECE, Volume 6, Issue 4(Ver 5) in Dec 2018, ISSN:2348-2281(ONLINE).
- ◆ **Dr. Chanda. V. Reddy**, HOD, published a paper entitled “**Bridge Monitoring System**” in Journal of Emerging Technologies and Innovative Research (JETIR), May 2019, Volume 6, Issue 5, ISSN-2349-5162.
- ◆ **Ms. Swetha .B**, Asst. Prof. and **Mr. Sathish Kumar**, Asst. Prof. published a paper entitled “**Performance Analysis of Array Multiplier Using Different Logic Configurations**” in Journal of Computer Science and Engineering(JSCE) in June 2019, Volume 7, Issue 6, E-ISSN:2347-2693.
- ◆ **Ms. Srividya .R**, Asst. Prof., published a paper entitled “**Analysis of Impregnable Ciphers in MANET**” in International Journal of Recent Scientific Research (IJRSR), Volume 9, Issue 10, E-ISSN:29339-29404

International Conferences

- ◆ **Mr. Dileep .J**, Asst. Prof., published a paper entitled “**Review on Person Identification Using Deep Neural Network**” in ICEECCOI, Dec 2018, ISSN978-1-5386—5130-8/18.
- ◆ **Ms. Devika .B**, Asst. Prof., published a paper entitled “**Power-Cognizant Proactive Routing Protocol to Amend Energy in AdHoc Network**” in International Conference on Data Science, Machine Learning & Applications in Mar 2019, in CMRIT, Hyderabad.

Editorial team

- Ms. Rekha .N**, Assoc. Prof. **Ms. Poojita M**, 7th sem
Ms. Srividya .R, Asst. Prof. **Mr. Sumukha R U**, 7th sem