World Class Technical Campus

-With in the City

KEY CONTACTS

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http://sreyas.ac.in/electronics-communication-engineering/

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Networking Academy

SREYAS

INSTITUTE OF ENGINEERING AND TECHNOLOGY

Affiliated to JNTUH,Hyderabad, Approved by AICTE, New Delhi
Accredited by NAAC

ELECTROMAG

Published by

DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING

About the College

Sreyas Institute, located in the heart of the city, is the result of deliberation & planning of every aspect to create a world class technical education institution. The first impression as you enter the sprawling green and verdant campus of Sreyas leaves a lasting impression of innate calm and energizing growth.

The campus is scientifically planned and artistically designed. The students have access to the latest software & computing facilities for learning & research to groom them into future citizens.

Our student-centric approach will ensure that Sreyans gain not just depth & breadth in their chosen area of specialization, but a holistic set of skills that will equip them to face the real world. At every stage, there will be opportunities to expand their boundaries, with multiple platforms for collaboration & learning. The infrastructure is absolutely world-class with opportunities to build practical skills in state-of-the-art laboratories & workshops. The thriving, vibrant campus with its multitude of activities will help them develop a well-rounded and grounded personality that evolves naturally.

Finally, our intention is to ensure that every opportunity to learn is utilized to the maximum & the end goal is that the student transforms into an individual full of enthusiasm, confidence & knowledge to face global challenges, becoming both individually and professionally successful, as well as socially responsible.

If these are the values you believe in too, you will do well at Sreyas. Bring your dream, drive & determination to Sreyas & we will help you realize your dream.

The Campus is located at Nagole, the most happening area in the city of Hyderabad. The Campus is a stone's throw away from reputed media houses, service & IT Industry hubs. This proximity helps us in attracting the beacons of industry to our Campus for regular interactions with our students. The Campus is also the hub for many academic & professional activities making it pulsate with positive energy.

Sreyas Institute of Engineering & Technology was established in 2011 under the aegis of Sreyas Educational Society. The Institution endeavors to impart high quality, competency based technical education in Engineering and Technology to students with skills and abilities to face challenging needs of industry and Society. It is a place for highly ambitious students and professionals who want to excel in career and become hardcore experts in their area of interest. The Institution offers 04 Undergraduate courses and 03 Postgraduate courses in the field of Engineering. The Institution is approved by All India Council for Technical Education (AICTE), New Delhi and affiliated to Jawaharlal Nehru Technological University Hyderabad. The Institution is accredited by National Assessment and Accreditation Council (NAAC).

Chairmans Message

Sri. Ananthula Vinay Kumar Reddy

Sreyas Institute of Engineering and Technology is a product of a dream and vision to excel and be a premier institution in the field of engineering. The college has the most modern and best infra structure. It provides a wide arena for the staff and students to showcase their academic and extracurricular activities.

Our endeavor is to provide the students an exhilarating experience. The college is within the city limits yet in the midst of eco-friendly green surroundings. You will find nature and technology blending in our campus.

Sreyas will provide you with all the opportunity and liberty to discover yourself. The institution aims at encouraging the students to develop, master and gain the knowledge to the latest technology and global development. I believe that these will be the best years of your lives.

Secretary Message

Sri. Chinthala Ravindranath Yadav

A perceptive academician, with an M.B.A from Hyderabad, he pursued higher studies in U.S., and did his Post-master's in Business Administration from University of California, U.S.A. He worked in leading edge organizations for several years in U.S. In India, he had the chance to work on many critical State Government Projects. His yeoman service to Sreyas is indispensable.

We at Sreyas Institute of Engineering and Technology are committed to build a congenial atmosphere for the next generation of engineers to excel professionally. Our endeavor is to meticulously sculpture our students of both B. Tech and M. Tech in being the best in their chosen fields.

The main emphasis and mandate is excellence, perfection and all round development. We believe and understand that as educators have a special responsibility to nurture co-operation, tolerance and mutual respect in our diverse society.

Sreyas guarantees its students better access to corporate world through summer internships. This in turn will lead them to good placements at the end of their course.

Tressurer Message

Sri.Nirvetla Sharath Reddy

A highly successful entrepreneur, with a Post-Graduation in Hospitality Management from Nicosia, Greece. He owns three Software companies in India and abroad. His foreign exposure leads Sreyans to compete in the Global market.

You'll find that everything at SREYAS is single-mindedly focused on addressing students' needs. We are clear that it is our responsibility to help our students to realize their goals in an increasingly competitive world.

At SREYAS, be prepared to be constantly challenged, whether it is in classroom or outside. You can look forward to being trained by excellent and committed faculty, get hands-on experience in the state of the art technology in world class MNCs and building enduring bonds with your peers.

The infrastructure at SREYAS is absolutely world class and you will build practical skills at laboratories and workshops. You will also enjoy a vibrant campus life with its diverse and enthusiastic student community.

Finally, SREYAS is about always trying to push the bar a little more, constantly innovating and never standing still. If these are values you believe in too, you will do well at SREYAS. If you have the drive and determination, come to SREYAS and we will help you realize your dreams.

Principal Message

Dr.Suresh Akella

Sreyas Institute of Engineering & Technology is established with a vision of nurturing young talents. The primary aim of this of our institution is to provide professional education, in a vibrant atmosphere to deserving students. It is the desire of SRYS to promote sustained growth and inclusiveness by harnessing young talents who are pro-active enough to meet the demands and challenges of the volatile global environment.

SREYAS looks at education, not merely in terms of quantity of knowledge, but in terms of quality of knowledge that helps form the character of students, 'total formation of individuals. In a world of unequal and unjust society, SREYAS forms students as catalysts of social change in order to march with the marginalized to the summit of empowering the powerless.

Vice- Chairmans Message

Sri. Ananthula Hriday Reddy

Sreyas will provide you with all the opportunity and liberty to discover yourself. The institution aims at encouraging the students to develop, master and gain the knowledge to the latest technology and global development. I believe that these will be the best years of your lives. The years you spend in our institution will shape your future and make you an excellent engineer and a wonderful human being.

On behalf of every member of this institution, I welcome you to our college. We will be here to guide and assist you all the way to achieve your goal and excel in all that you do while you are with us.

I assure you all that the SREYAS administration and my team of dedicated and highly qualified faculty are totally committed to produce Engineers of a very high caliber to meet the growing and ever-changing demands of industries and global

HOD Message

Dr. N. Murali Krishna

Dr.N.Murali Krishna is an Associate Professor of Electronics and Communication Engineering with 22 years of experience in Teaching and Industry and also a life member of ISTE and IETE. His Ph.Dwith JNTUH Hyderabad. Research areas are analog and Digital communication and wireless sensor networks. Due to innate talents and leaderships qualities, he is able to propel the

I assure you all that the me and my team of dedicated and highly qualified faculty are totally committed to produce Engineers of a very high caliber to meet the growing and ever-changing demands of industries and global market in Core and Industry side to

About the Department

The Department of Electronics and Communication Engineering was established in the year 2011. The main focus of the department is to produce graduates and post graduates with strong fundamentals in Electronics and Communication Engineering Domain.Apart from Curriculum we adopt some of the technologies

Vision of the Department

To excel in electronics & communications engineering education with the knowledge of innovation, research and ethics.

Mission of the Department

1. To Provide academic environment that promotes student centric learning through quality education and state of the art infrastructure.
2. To make the students aspire towards innovation and collaborative research to meet the technological needs of society.
3. To engage the students in activities which inculcate professional practices with social concern.

Program Outcomes(POs)

PO-1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO-2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO-3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO-4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO-5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO-6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO-10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

PO-11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply

Program Specific Outcomes (PSOs)

PSO-1: Design,analyze and develop modules and systems for applications in advanced electronics and communication systems.

PSO-2: Utilize modern tools for modeling and computational techniques in IC fabrication and RF technologies.

FACULTY ACHIVEMENTS

Dr. Sandeep Sahartia.

Dr. Sandeep Kumar is presently working as a Professor in the Department of Electronics & Communication Engineering, Sreyas Institute of Engineering & Technology, Hyderabad, India. He has a good Academics & Research experience in various areas of Electronics and Communication. His area of research includes Embedded System, Image processing, and Biometrics. He has filed successfully 6 Patents. He has been received 2 times invitation being a Guest in IEEE Conferences. He has published 60 research papers in various International/National Journals (including IEEE, Springer etc.) and Proceedings of the reputed International/ National Conferences (including Springer and IEEE).

He has been awarded by “Best Paper Presentation” in Nepal & India respectively 2017 & 2018. He has been awarded for “Best Performer Award” in Hyderabad, India, 2018. He has been awarded also “Young Researcher Award” in Thailand, 2018. He is an active member of 13 various Professional International Societies. He has been nominated in the board of editors/reviewers of 23 peer- reviewed and refereed Journals (including IEEE, Springer). He is also attended 24 of seminars, workshops and short-term

Patents File and Published

- Provisionally Patent has been successfully filed in India under THE PATENT ACT 1970 (39 of 1970) & The Patent Rules, 2003. This Patent is related to Embedded System. Reference No 201811040942 & Application No. TEMP/E-1/44356/2018-DEL.
- Provisionally Patent has been successfully filed in India under THE PATENT ACT 1970 (39 of 1970) & The Patent Rules, 2003. This Patent is related to Embedded System and Automobile Sector. Reference No 201841044218 & Application No. TEMP/E-1/48170/2018-CHE.
- Patent has been successfully filed in India under THE PATENT ACT 1970 (39 of 1970) & The Patent Rules, 2003. This Patent is related to Embedded System and Automobile Sector. Reference No 201821047908 & Application No. TEMP/E-1/52261/2018-MUM.
- Patent has been successfully filed in India under THE PATENT ACT 1970 (39 of 1970) & The Patent Rules, 2003. This Patent is related to Embedded System and Automobile Sector. Reference No 201941000050 & Application No. TEMP/E-1/44/2019-CHE.
- Patent has been successfully filed in India under THE PATENT ACT 1970 (39 of 1970) & The Patent Rules, 2003. This Patent is related to Embedded System and Automobile Sector. Reference No 201911005535 & Application No. TEMP/E-1/4574/2019-CHE.
- Patent has been successfully filed in India under THE PATENT ACT 1970 (39 of 1970) & The Patent Rules, 2003. This Patent is related to Embedded System and Automobile Sector. Reference No 201941004200 & Application No. TEMP/E-1/4574/2019-CHE.

Awards

- Young Researcher Award in the International Conference on Advancements in Engineering, Technology and Management, (AETM) Bangkok Thailand held on 6th-7th June, 2018.
- Remote Centre Coordinator for conducting IIT Bombay workshop Under NME-ICT (MHRD) with ID: 1533.
- SPOC Coordinator of Smart Hackathon, 2018 in Sreyas Institute of Engineering & Technology, Hyderabad.
- Chief-Coordinator of Electronic Society in Sreyas Institute of Engineering & Technology, Hyderabad. I organized Two times event (Technical and Non-Technical) in the department level on 11/08/2017 & 26/01/2018 (Electronics Society).
- Best Performer award in the International Conference on Importance of Interdisciplinary Research in Engineering, Management, Humanity & Medical Sciences (I.I.D.R.E.M.H.M.S-2018) held on 25th February 2018, Hyderabad.
- Best Paper award in the National Conference on Engineering, Management, Humanity & Law (NCEMHSL-2018) held on 23rd February 2018, Rewari, Haryana.
- Reviewer of SCI Springer Journal -Wireless Personal Communication.
- Reviewer of IEEE 4th IEEE International Conference On Computing Communication and Automation (ICCCA-2018).
- Reviewer of Springer International Conference on Data Communication and Networks Co located with GUCON-2018 (Book).
- Reviewer of Springer Conference 7th International Springer Conference on Innovation in Electronics and Communication Engineering (ICIECE-2018).
- Reviewer of IEEE International Conference on Computing, Power and Communication Technologies GUCON-2018.
- Advisory Board Member of International Conference & Award function on “Importance of Inter-Disciplinary Research in Engineering, Management, Humanities, Medical Sciences” IIDREMHMS-2018 held on 25th February, 2018 Hyderabad.
- Reviewer of “International Journal of Engineering Development and Research (IJEDR)” ISSN: 2321-9939.
- Reviewer of “International Journal of Science & Engineering Development Research (IJSDR)” ISSN: 2455-2631.
- Invited for IEEE Guest for Conference.

FACULTY ACHIVEMENTS

Dr. V.A Sankar Ponapalli

V. A. Sankar Ponnapalli received his B.Tech in Electronics and Communication Engineering from the JNT University Kakinada in 2011, MTech in RF and Microwave Engineering and PhD from the GITAM (Deemed to be University) Visakhapatnam in 2013 and 2018 respectively. He is currently working as an Associate Professor in the Department of Electronics and Communication Engineering, Sreyas Institute of Engineering and Technology Hyderabad. He has authored or co-authored books, book chapters, and more than 20 research articles. He is acting as a technical program committee member, reviewer and editorial board member for international journals and conferences. His research interests include Microwaves, antennas, and intelligent transportation systems, etc.

- Selected as an Editorial board member to Journal of Electronic Research and Applications, BBS Publisher, Australia.
- Selected as a Technical Program Committee member to 2018 IEEE 7th International Conference on Reliability, Infocom Technologies and Optimization, AMITY University.
- Selected as a Technical Program Committee member to IEEE International Conference on Data Communication and Networks (Co located with GUCON 2018), Galgotias University.
- Selected as a Technical Program Committee member to IEEE International Conference on Soft Computing & Machine Learning, Huazhong University of Science and Technology, China.
- Selected as a Technical Program Committee member to the 2nd International Conference on Sensor Networks and Signal Processing (SNSP 2019) National Dong Hwa University Taiwan.
- Attended ISTE-AICTE sponsored FDP on Recent Advances in Radar Systems for Special Applications, CVR college of Engineering, Hyderabad, India.
- Successfully completed a 12-week online course (NPTEL (MHRD-Gov. of India)) on Microwave Theory & Techniques.

Book Publications

- Published a book (Design of Thinned Fractal Arrays Using Fractal Tapering Techniques), Lambert Academic Publisher Germany (Europe); ISBN: 978-613-9-82057-3.
- Published a book chapter (Fractal Array Antennas and Applications), InTech-Open, Croatia (Europe) ISBN: 978-953-51-5807-3

Dr. C. John Moses

Dr. C. John Moses was graduated in Electronics and Communication Engineering in 1996 from Manonmaniam Sundaranar University, Tirunelveli. He obtained his M.E. degree from Madurai Kamaraj University, Madurai in 1999, specializing in Applied Electronics. He joined as a Research Scholar under Dr. D. Selvathi, Senior Professor, Department of ECE, Mepco Schlenk Engineering College, Sivakasi and he obtained Ph. D. degree from Anna University, Chennai for his research work on “Some Studies on Realization of Image Interpolation Algorithms in FPGA” in 2017.

He has acted as coordinator for many workshops, Seminars, International Conferences and International Assignments like MoU with foreign universities. He visited various technical universities in Malaysia and organized student exposure programs in association with University Sains Malaysia, Penang, Malaysia. He is a senior member of IEEE, Life Member of ISTE and Professional Member of IET and ACM. He has acted as Counselor of IEEE Student Branch of SXCCE from 2006 to 2014, Chair of IEEE Madras Education Society Chapter from 2013 to 2015 and Faculty Sponsor of SXCCE ACM Student Chapter from 2014 to 2017. He received the Outstanding Branch Counselor 2013 award and IEEE MGM award 2019 from IEEE, USA. When not engaged in academic thoughts, he prefers to involve in counseling youngsters, music or reading.

Faculty Publications

- Dr. John Mosses A Study on Adaptive Image Interpolation for Multimedia Applications, Sreyas International International Journal of Scientists and Technocrats Vol.2, No. 4 May,2018.
- Dr. C. JOHN MOSES Queen, "High Performance Adder-Based Stepwise Linear Interpolation". DJ Journal of Advances in Electronics and Communication Engineering vol.4, no. 1, pp. 16-23 Dec-2018.
- Dr. N MURALI KRISHNA FPGA Implementation of Reduced Complexity LDPC Codes, DJ Journal of Advances in Electronics and Communication Engineering Vol. 5(1), pp. 1-9 2019.
- Dr. N MURALI KRISHNA FPGA Implementation of On-Chip Network, DJ Journal of Advances in Electronics and Communication Engineering Vol. 5(1), pp. 1-10 2018.
- Sandeep Kumar, Hemlata Dalmia, Neha and Shilpa "Satellite and Underwater Image Enhancement Using Color Correction Method for Luminance Model" in the International Journal of Engineering and Technology (IJET) (Scopus) Accepted.
- Kone Srikrishnaswetha, Sandeep Kumar and Prashant Johri, "Comparision Study on Various Face Detection Techniques" in 4th International IEEE Conference On Computing Communication and Automation (ICCCA-2018), December 14-15, 2018.
- Hemlata Dalmia, Nikhil, Shilpa Chodhary and Sandeep Kumar, "Comparision Study on Various Face Detection Techniques" in 4th International IEEE Conference On Computing Communication and Automation (ICCCA-2018), December 14-15, 2018.
- Sony Alam, Sandeep Kumar and Kone Srikrishnaswetha, "Automated Non-Supervised Detection of Dental Caries using PCA and K-Means" in 2nd International Springer/Elsevier Conference on Nano Science & Engineering Applications, 4th to 6th, October 2018.
- C. Yamuna, D. Bindu and Sandeep Kumar, "Design a Rescue Robot and Pipeline Inspection Using RF Technology" in 2nd International Springer/Elsevier Conference on Nano Science & Engineering Applications, 4th to 6th, October 2018.
- Fariha Khatoon, Sandeep Kumar and Mohd Niyaz Ali Khan, "A Study on Solar Remote Monitoring Using the Internet of Thing" in 2nd International Springer/Elsevier Conference on Nano Science & Engineering Applications, 4th to 6th October, 2018.

Faculty Publications

- Nallamothu Gowtham, Sandeep Kumar and G. Ramchandra Kumar, "IOT Applications on Secure Smart Shopping System" in 7th (Springer) International Conference on Innovation in Electronics and Communication Engineering (ICIECE-2018).
- Sandeep Kumar and Sai Anirudh, "IOT and RF-ID Based E-Passport System" in 7th (Springer) International Conference on Innovation in Electronics and Communication Engineering (ICIECE-2018).
- Kone Srikrishnaswetha, Sandeep Kumar and MD Rashid Mahmood, "A Study on Smart Electronics Voting Machine Using Face Recognition and Aadhar Verification with IOT" in 7th (Springer) International Conference on Innovation in Electronics and Communication Engineering (ICIECE-2018).
- Sandeep Kumar, V.Taj Kiran, Sekuri Swetha and Prashant Johri, "IoT based Smart Home Surveillance and Automation" in IEEE International Conference on Computing, Power and Communication Technology (GUCON), pp. 795-799, September 28th-29th, 2018.
- Shalini Shinde, Sandeep Kumar and Prashant Johri, "A Review: Eye Tracking Interface with Embedded System & IOT" in IEEE International Conference on Computing, Power and Communication Technology (GUCON), pp. 800-804, September 28th-29th, 2018.
- Sandeep Kumar, P.Raja and G. Bhargavi, "A Comparative Study on Modern Smart Irrigation System and Monitoring the Field by using IOT" in IEEE International Conference on Computing, Power and Communication Technology, (GUCON), pp. 637-641, September 28th-29th 2018.
- Fariha Khatoon and Sandeep Kumar, "A Study on E-Nose and Air Purifier System" in IEEE International Conference on Innovative Technologies in Engineering (ICITE-2018), April 2018.
- Soumya and Sandeep Kumar, "Health Care Monitoring Based on Internet of Things" the (Springer) International Conference on Artificial Intelligence & Cognitive Computing (AICC), 2nd -3rd Feb, 2018 Hyderabad.
- Kone Srikrishnaswetha, Sandeep Kumar and Hemlata Dalmia, "A Review: Pills based on Edible Electronics" in National Conference on Engineering, Management,

Faculty Publications

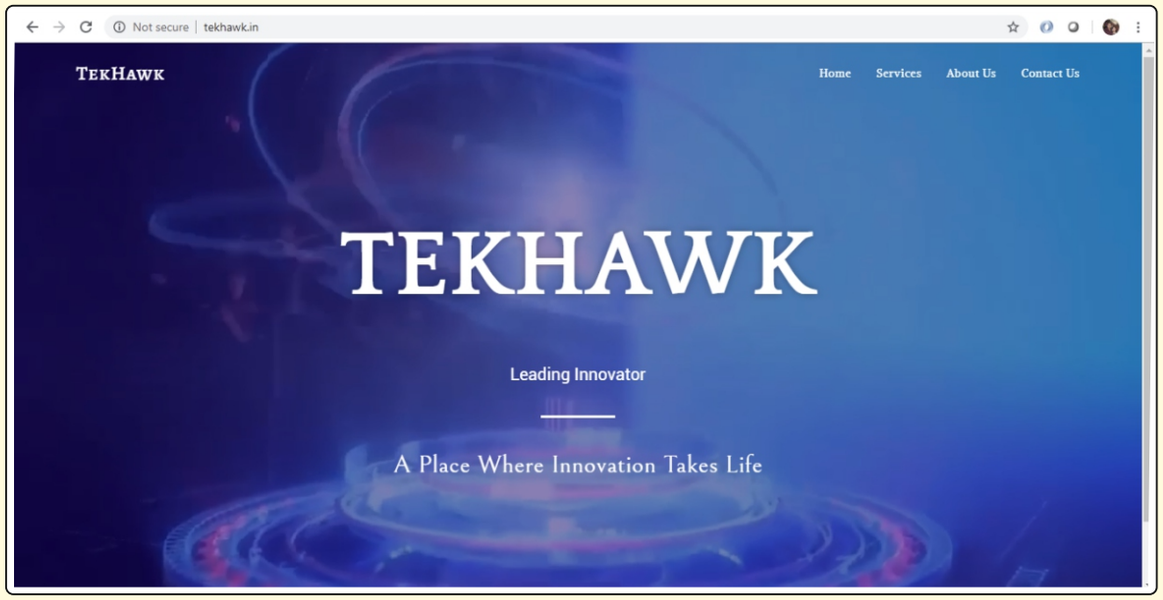
Humanity & Law (NCEMHSL) on Somany Institute of Technology & Managemnet, Rewari on 23rd February 2018.

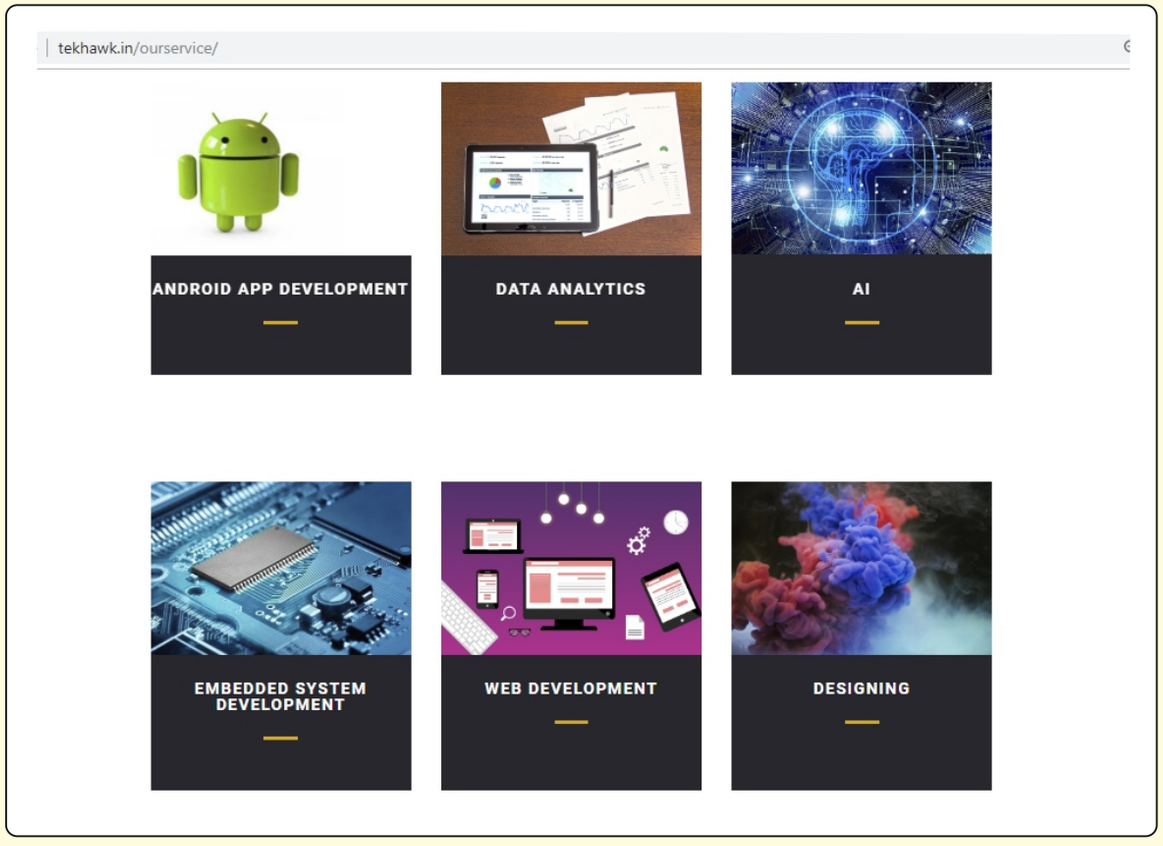
- Poornima Bandari and Sandeep Kumar, “Design a Smart Kitchen Model for Smart Homes based on Arduino” in SREYAS International Journal of Scientists and Technocrats” Vol 1, No 3, pp. 36-41, 2017 with ISSN: 2456-8783
- S.Mounica and Sandeep Kumar, “Zigbee Based Communication System for Future Micro-Grids Using Http and MQTT Protocols” in SREYAS International Journal of Scientists and Technocrats” Vol 1, No 3, pp. 36-41, 2017 with ISSN: 2456-8783.
- Dr V A SANKAR PONNAPALLY V. A. Sankar Ponnapalli, Thinning of Sierpinski Fractal Array Antennas using Bounded Binary Fractal Tapering Techniques for Space and Advanced Wireless Applications,ICT Express (Elsevier), South Korea SCOPUS and ESCI, January 2018.
- Dr S VENKATESWARLU “Identification of Effective parameters for Designing a Data Channel Model” Springer Mar 2018.
- Dr S VENKATESWARLU Survey on various Channel Models for Data Transmission UGC Jan 2018.
- Mr.MARUTI RAO SERBEGS: Security Enhanced Routing for Best Effort service using GT slack in QNOC systems IJETAE Vol 8,issue 3, MAR 2018
- Mr Y SRAVAN KUMAR Implementation of Multi-level Inverter for GRID Connected Application by using Hybrid Wind Solar Power IJREAM Volume IV/I, Apr-2018.
- NEHA ANJUM Hiding Text in Video by linked list method ,Dual Stegonography AJOCIT Vol.IV/II NOV-2018.
- Mrs VARSHA AGARWAL, “FPGA Implementation of 16-Point FFT Algorithm Using Digital Signal Processing” International Journal of Scientific Research and Modern Education Vol. 3, No. 1, pp. 10-15, 2018 with ISSN: 2538-4155, January 2018.

Learning Never Ends.....

Students Excellence

Mr. Kranthi Kumar, Alumni of Sreyas (2013-17) has established startup Tekhawk IT Solutions on Artificial Intelligence, Data Analytics and Embedded Web Development.

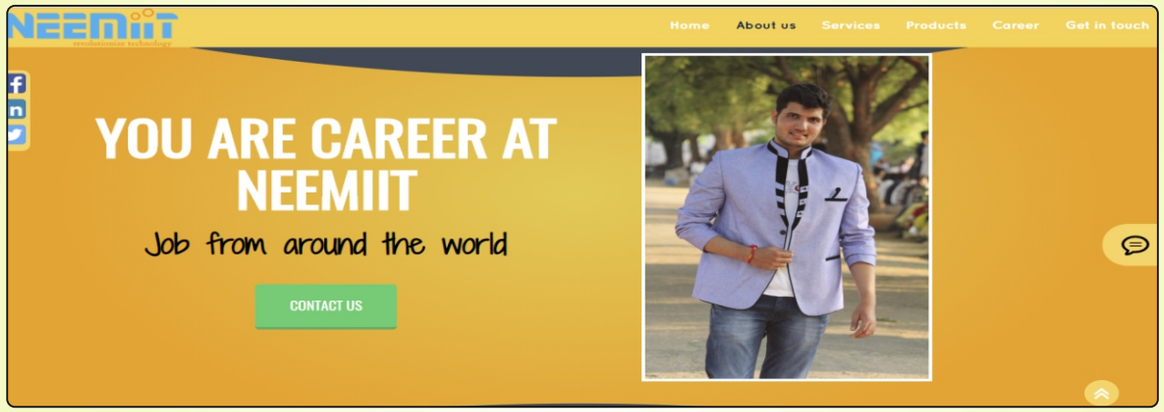




Students Excellence

Mr. Ranveer Neemkar, Alumni of Sreyas (2013-17) has established startup NEEMiiT, Hyderabad. NEEMiiT comprises of software developers, system analysts, business analysts, interface designers, quality testers who are all experienced and versatile team. Your goal is to succeed and our aim is to ensure you reach there as quickly as possible. It is important for us to turn your dream to brilliant master work.

Nowadays customers demand applications delivering good connectivity, very personalised, and synchronized tailor made solutions. These demands will mean converting the application development setting and also how organisations choose their IT partners. With upcoming technical trends such as packaged solutions, NEEMIIT social, mobile, cloud technologies, open source tools and automation, developing just play applications is a thing of the history. Organisations need IT partners who can co-develop systems as per businesses specific strategies to improve their business value.



Student Rocks at NASA

Mr. Sathyanarayana Damaraju (2014-18) has been selected for The internship on “STEM APPLICATIONS PROCESS” at NASA, California, US. The Internship and follows the project combustion on chamber energy requirement. The programme starts from September, 2019 and ends November, 2019.

His practical research will be on Combustion chamber to examine and analyse for future applications.

Glimpse of Sreyans

Mr. Sumedh Reddy Koppula have won the Gold Medal for JNTU Hyderabad under affiliated colleges for the academic year (2014-18). He was awarded by Dr.N.Yadaiah-Registrar JNTUH, Prof.A.Venugopal Reddy-Vice Chancellor JNTUH, Sri E.S.L. Narsimhan, Governor of Telangana & AP.

There is a famous old adage “Success is 99% perspiration and 1% inspiration” it was made true by Sumedh Reddy.K. Through his hardwork and dedication he reached the pinnacle of success and brought glory to his family. As well as college by becoming the Best outgoing student for the academic year…….

CHAMPIONS WERE BORN IN SREYAS...

TERA BITS ROUTER & SWITCHES:

In the present network infrastructure, world's communication service providers are laying fiber at very rapid rates. And most of the fiber connections are now being terminated using DWDM. The combination of fiber and DWDM have made raw bandwidth available in abundance. 64-channel OC-192 capacity fibers are not uncommon these days and OC-768 speeds will be available soon. Terabit routing technologies are required to convert massive amounts of raw bandwidth into usable bandwidth. Present day network infrastructure is shown in Fig 1. Currently, Add/Drop multiplexers are used for spreading a high-speed optical interface across multiple lower-capacity interfaces of traditional routers. But carriers require high-speed router interfaces that can directly connect to the high-speed DWDM equipment to ensure optical inter operability. This will also remove the overhead associated with the extra technologies to enable more economical and efficient wide area communications. As the number of channels transmitted on a single fiber increases with DWDM, routers must also scale port densities to handle all those channels. With increase in the speed of interfaces as well as the port density, next thing which routers need to improve on is the internal switching capacity. 64-channel OC-192 will require over a terabit of switching capacity. Considering an example, a current state-of-the-art gigabit router with 40 Gbps switch capacity can support only a 4-channel OC-48 DWDM connection. Four of these will be required to support a 16-channel OC-48 DWDM connection. And 16 of these are required to support 16-channel OC-192 DWDM connection with a layer of 16 4::1 SONET Add/Drop Multiplexers in between. In comparison to that a single router with terabit switching capacity can support 16-channel OC-192 DWDM connection. With this introduction, we now proceed to understand what is required to build full routers with terabit capacities.

-CH Spandana Yadav
(14VE1A0434)

3D OPTICAL DATA STORAGE

3D optical data storage is the term given to any form of optical data storage in which information can be recorded and/or read with three dimensional resolution (as opposed to the two dimensional resolution afforded, for example, by CD).

This innovation has the potential to provide petabyte-level mass storage on DVD-sized disks. Data recording and readback are achieved by focusing lasers within the medium. However, because of the volumetric nature of the data structure, the laser light must travel through other data points before it reaches the point where reading or recording is desired. Therefore, some kind of nonlinearity is required to ensure that these other data points do not interfere with the addressing of the desired point.

No commercial product based on 3D optical data storage has yet arrived on the mass market, although several companies are actively developing the technology and claim that it may become available soon.

-- Kovvuri Vinay Kumar
(14VE1A0483)

HYDROGEN SUPER HIGHWAY

Hydrogen Super Highway-- It is a collection of vital municipal utilities bundled into what we call the Conduit Cluster providing a first of its kind full integration of solar powered hydrogen production and distribution system supporting a high speed magnetic levitation (MagLev) on-demand public transit network built along the right of way of the US Interstate Highway Systems, and any other permissible right of way where such a machine would be of benefit. The Hydrogen Super Highway, also known as the HSH, is accessed by Traveler Stations that are built within the right of way of the Interstate Highway within the land locked real-estate of the clover leaf interchanges providing maximum ease of access for people who live anywhere near the Interstate Highway. The HSH is much more than just a high speed rail system.

--Preethika M
(14VE1A0498)

8K Technology

While current transfer services offer high-definition (HD) quality video, live-streaming applications will soon shift to providing cinema quality 8K content to both business and movie theaters users.The extra- high-quality 8K format enables a realistic telepresence, and will be combined with special tools such as video editing systems to realize effective remote collaboration for business workspaces. This paper introduces successive research on SHD image transmission and its application, especially in digital cinema and associated application fields.

Four years before the digital cinema industry standardized the DCI specification, in 2001, the worlds first video JPEG decoder system was developed that could display SHD images (38402048 pixel spatial resolution) with 24-frames/s time resolution. This decoder was designed to realize IP transmission of extra-high-quality videos, while fully utilizing the full bandwidth of emerging commercial communication networks based on 1-Gb Ethernet. In 2002, the second prototype SHD image decoder was developed that exploits a highly parallel processing unit of JPEG2000 de-compressors.

The decoder receives the IP streams of compressed video contents transmitted by a video server over a 1-GbE network, and decodes them using the standard JPEG2000 decoding algorithm in real time. The decoder was combined with a special 38402048 pixel projector using a dedicated digital video interface for the decoder. This architecture allows the decoded videos to be transferred and shown in completely digital form.

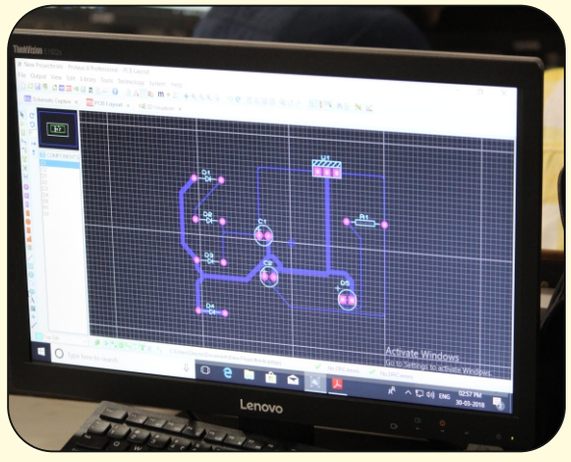
-- Patlolla Nandini Reddy
(14VE1A0494)

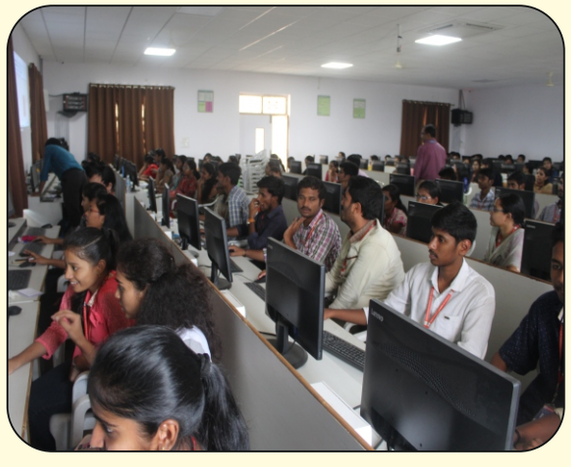
SAMVIDA-2K18

Department of Electronics and Communication Engineering Conducted National Level Tech Fest “SAMVIDA-2K18" on 29th to 30th March, 2018. Student from Sreyas and other colleges have attended and Participated in several events like, Paper and Poster Presentation, Techno JAM, Qriosity (Quiz), Circutrix, Project Expo and etc.

TWO DAYS WORKSHOP ON PCB DESIGN-2K18

Department of Electronics and Communication Engineering Conducted A Two day National Level Workshop on “ PCB Design” by 29th to 30th March, 2018. In association with Robokart Mumbai. The Student from II, III B.Tech Year have participated and grab the knowledge towards circuits and its design based on industry requirements.

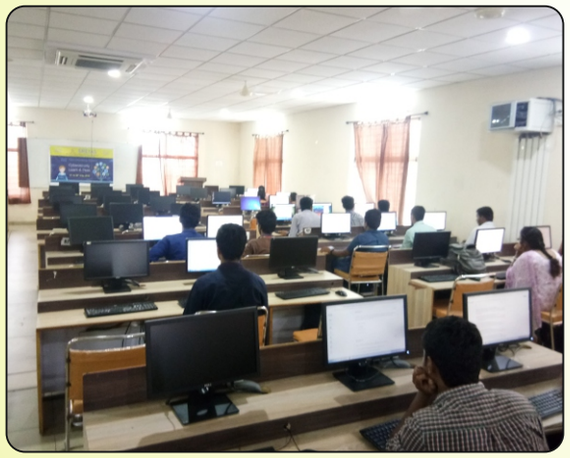




Cyber security Learn-a-thon

Department of Electronics and communication Engineering took a initiative to conduct two week(16th - 28th July,2018) online Cybersecurity under Cisco Networking Academy. In E.C.E department around 480 students enrolled for this course and succesfully completed 412 student. During this course schedule students have learn how cyber attacks takessplace and how to protect networks with secuirty and firewall concpets etc.






Women Rock-IT

On 2nd November, Sreyas Institute of Engineering and Technology in association with Cisco Networking Academy and Trident Group of Institutions, organized Women Rock- IT, an hour session for all the female students of E.C.E and C.S.E departments.

In this session, Dr. Shanta Thoutam, vice president of T-Hub was the guest speaker.

Dr. Mariana Dahan and Dr. Natalie Ren's shared their views through live channel about the challenges and responsibilities they have in IT sector. The guest speaker has given an inspirational speech and have motivated many students to enter into IT sector to get benefits from the career. Few students have shared their views about their future goals.




Placement Activities

Department of Electronics and Communication Engineering, (2014-18) Batch, Fourth Year students has grabbed the placement opportunity and got placed in around 254 selection for various core and IT Industries.

ÏßÕ	Date	Company	No.of Students Placed	Location	Package	Designation
1	03-08-2017	Suryatech Solutions Pvt Ltd	18	Hyderabad	2.40 L	Trainee Engineer (Technical)
2	10-08-2017	Geoinfosys	1	Hyderabad	1.80 L	Software Engineer Trainee
3	18-08-2017	Multiplier Solutions	1	Hyderabad	2.40 L	Business Consultant
4	19-09-2017	Genpact	16	Hyderabad	2.00 L	Tech Support
5	25-10-2017	Hinduja Global Solutions	13	Hyderabad	1.80L	Customer Service Executives
6	31-10-2017	Westline Shipping Services	2	Ahmedabad	18.00L	Trainee Marine Engineer/Electro Technical Officer/Trainee Navigating Officer
7	18-12-2017	Suneratech	1	Hyderabad	3.00L	Software Engineer
8	27-12-2017	LMV Financial Services	19	Hyderabad	1.44L	Relationship Manager/Customer Support Executive
9	29-12-2017	Zenus Group	2	Pan India	1.80L	Design Engineer
10	08-01-2018	ILM	48	Bengaluru	2.16L	Trainee Executive
11	11-01-2018	SIA Publishers & Distributors	5	Hyderabad	2.00L	Technical Writer
12	12-01-2018	Mphasis	1	Pune	1.80L	Process Executive (Non Technical)
13	31-01-2018	HeadStart	18	Chennai	6.0L	Territory Business Officer
14	12-02-2018	ProFuture	7	Chennai	2.00L	SoftwareDev/Adroid Dev/System Admin
15	20-02-2018	Genpact	7	Hyderabad	2.00L	Tech Support
16	21-02-2018	Rapid Robotics	1	Hyderabad	2.20L	Tech Support
17	22-02-2018	IBeON Infotech	3	Bangalore	2.40L	Tech Support
18	26-02-2018	Vision Group	1	Hyderabad	1.80 L	TRAINEE ASSOCIATES
19	22-02-2018	popcorn apps solutions	1	Hyderabad	1.8L	Trainee Engineer
20	22-02-2018	Axness Technologies	3	Hyderabad	1.8L	Trainee Engineer
21	13-03-2018	Face Academy	5	Chennai	3L	Trainee Engineer
22	14-03-2018	Caiman Auto Pvt ltd	15	Hyderabad	1.8L	Graduate Trainee Engineer
23	15-03-2018	sitel	4	Hyderabad	1.94L	Graduate Trainee Engineer
24	16-03-2018	verlin solutions	2	Hyderabad	1.8L	Trainee Engineer
25	03-10-2018	Biztime It Services	1	Bangalore	1.80L	Software Intern
26	03-10-2018	Appasamy associates	22	Chennai	3.0L	Service Engineer/Sales Engineer
27	16-12-2018	LorinHR	37	Hyderabad	2.50L	HR Trainee

Our Corporate Recruiters

Total No.of Selections : 254

Academic Toppers

(IV- Year)

Koppula Sumedh Reddy
(14VE1A04A9)
88.70%

(III-Year)

Lenkala Akhila Reddy
(15VE1A04E5)
77.60%

(II- Year)

Shyam Goel
(16VE1A04M4)
8.54 CGPA

Award of PhD Degrees

Dr. N. Murali Krishna
Awarded on May,9th, 2018.
JNT Univeristy
Hyderabad

Dr. V.A. Sankar Ponapalli
Awarded on March 15th, 2018.
GITAM Deemed to be Univeristy
Vishakapatnam

Best Student of the Year

Koppula Sumedh Reddy
Percentage : 86.23%