



KAMMAVARI SANGHAM (R) - 1952
K. S. INSTITUTE OF TECHNOLOGY
 (Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
 #14, Raghuvanahalli, Kanakapura Main Road, Bangalore - 560109 Tel : 080 - 28435722 / 24 Web : www.ksit.ac.in



PRERANA - 4

Inspire To Innovate

VISION

"To achieve excellence in academics and research in Electronics & Communication Engineering to meet societal need"

MISSION

- To impart quality education with relevant technologies to produce industry ready engineers with ethical values
- To enrich experiential learning through active involvement in professional clubs and societies
- To promote Industry-Institute collaboration for Research and Development

Staff Coordinators:

Mrs. Sahana Salagare
 Mrs. Lakshmi H R

Student Coordinators:

Ms. Smitha S Karanth	Mr. Akash P S
Mr. Sudhanshu S Sharma	Ms. Chethana N Gowda
Mr. Shreyas K V	Mr. Suvijith S
Ms. Kadri Srinidhi Rao	Ms. Swathi K S
Ms. Neha N V	Mr. Skanda H N

Department of Electronics and Communication Engg.
2017-2018



Dr. K V A BALAJI

Chief Executive Officer
K S Group Of Institute

Talent transformation is the order of the day. I am pleased to take note of the hidden talents available among the students who come to KSIT for a professional degree and leave the portals of our institution as a fully blossomed professional who has discovered himself / herself and also his / her potential to contribute to the society. At KSIT, we strongly believe in overall development and sensitizing our students with adequate social responsibility. I am very happy that my colleagues in the Department of Electronics and Communication Engineering have been very successful in spotting these talents among our students, harnessing them and enabling our students to learn beyond the syllabus content. They encourage experiential learning from various live and ongoing projects and also active participation in various competitions and professional clubs. All their efforts and learning are being showcased in this newsletter "PRERANA-4". I wish the staff and our talented students the very best in both their professional and personal lives.



Sri. Y Ramachandra Naidu
President



Sri. K Venkatesh Naidu
Secretary



Sri. D Rukmangada
Treasurer

It's good to look back and reflect on what we have achieved as a community and the very purpose of publishing an annual newsletter is to highlight the activities and developments of the department, achievements of the staff, students, alumni and events organized. Newsletter reflects upon the commendable contribution made by the faculty and students alike, we congratulate the editorial team for bringing out the 4th edition of PRERANA

Management

EDITORIAL COMMITTEE



Sitting(left to right): Ms. Lakshmi H R, Dr. T V Govindaraju, Dr. P N Sudha, Ms. Sahana Salagare
Middle row (left to right) :Ms. Swathi K S, Ms. Kadri Srinidhi Rao, Ms. Neha N V, Ms. Smitha S Karanth
Top row(left to right): Mr. Shreyas K V, Mr. Sudhanshu S Sharma, Mr. Skanda H N, Mr. Suvijith S

TOPPERS LIST

EVEN SEM, JUNE-JULY 2017

II SEM



POOJA. K
1KS16EC061
9.25(SGPA)



NAMRATHA GOPAL
1KS16EC054
9.17(SGPA)

IV SEM



SWATHI K S
1KS15EC101
9.0(SGPA)



SMITHA S KARANTH
1KS15EC095
8.57 (SGPA)

VI SEM



JOSHNA .J . G
1KS14EC041
79.66%

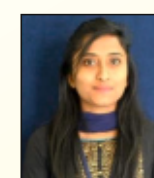


CHEZHANA .N. GOWDA
1KS14EC027
79.11%

VIII SEM



MEGHANA MANJUNATH
1KS13EC046
86.80%



PRIYADARSHINI.J
1KS13EC060
84.67%

ODD SEM, DEC-JAN 2018

I SEM



RACHANA
1KS17EC075
10 (SGPA)



SIRISHA
1KS17EC050
9.67 (SGPA)

III SEM



PRATYUSHA.S.A
1KS16EC064
9.07 SGPA



BHOOMIKA.P.M
1KS16EC017
9 SGPA

V SEM



SWATHI K S
1KS15EC101
9.08(SGPA)



PRAGATHI MADHYASTHA.K.P
1KS15EC067
9(SGPA)

VII SEM



CHEZHANA .N. GOWDA
1KS14EC027
83.44%



JOSHNA .J . G
1KS14EC041
79%

PROFESSIONAL CLUBS



KSIT IEEE Student branch has been recognized as one of the most active student branches by the IEEE Bangalore section. This student chapter has been highly involved in the technical development of students by conducting workshops & tech talks.



ISTE formulates & generates goals & responsibilities of technical education. Seminars, workshops, conferences are organized on the topic of relevance to technical education for engineering students as well as teachers



IETE focuses on advancing electro-technology. The vision of IETE is reaching the unreached & empowering youth through technical education & skill development. IETE conducts workshops & technical talks on various tech topics.



The Institution of Engineers (IEI) is the national organisation of engineers in India. IEI in KSIT promotes an environment to enable ethical pursuits for professional excellence.



Garut aeromodelling club (GAC) in KSIT provides the students with various aero modelling related workshops, technical talks & promotes environment to professional excellence.



Dr. T V Govindaraju
Principal / Director

Dear Staff and Students,

I congratulate Electronics and Communication Department editorial team on this pleasant occasion of releasing the Department Newsletter "PRERANA VOLUME -4" for the period April 2017 –March 2018. This newsletter reflects on what we have achieved, learnt and are learning. I am proud to say that our students are excelling in academics, sports and cultural activities. This participation and winning prove that our staff and students have brought KSIT and the ECE Department name to greater heights. Our Motto should be, "If you Believe, you can Achieve". In light of this, I urge the students and staff to believe in themselves and strive towards achieving success in various walks of life. I encourage the staff to continue the excellent work in motivating our students. My best wishes to all.

HOD MESSAGE



Dr. P.N. Sudha
Prof & Head, ECE Department

It's my pleasure to congratulate our department Editorial team for their excellent effort in summarizing the talents and achievements of our Staff and students through the department magazine PRERANA-4 for the year 2017-18. Our college is one of the pioneer institute in providing technical education. Main aim of our department is to provide overall development for our students through academic excellence, innovations and creativity. Our department has dedicated teaching and supporting staff to help our students to excel in their learning. Our experienced faculty are the strong pillars of the department whose focus is to empower a diverse community of students to nurture their capabilities, transform their lives and find success through high quality teaching and learning. We encourage our students to participate in curricular and extracurricular activities to shape them as leaders of tomorrow and to be industry ready engineers to face competitive world. Our department believe in the quote "Develop Passion for learning. If you do, you will never cease to grow". We ignite passion towards learning in our students.

ECE Magazines



LATEST TECHNOLOGY

Artificial intelligence



"Artificial intelligence (AI) is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans" AI research is defined as the study of "intelligent agents". Any device that perceives its environment and takes actions that maximize its chance of successfully achieving its goals. Colloquially, the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving". Knowledge engineering is a core part of AI research. Machines can often act and react like humans only if they have abundant information relating to the world. Artificial intelligence must have access to objects, categories, properties and relations between all of them to implement knowledge engineering. Initiating common sense, reasoning and problem-solving power in machines is a difficult and tedious task. Machine learning is also a core part of AI. Learning without any kind of supervision requires an ability to identify patterns in streams of inputs, whereas learning with adequate supervision involves classification and numerical regressions. Classification determines the category an object belongs to and regression deals with obtaining a set of numerical input or output examples, thereby discovering functions enabling the generation of suitable outputs from respective inputs. Mathematical analysis of machine learning algorithms and their performance is a well-defined branch of theoretical computer science often referred to as computational learning theory. Machine perception deals with the capability to use sensory inputs to deduce the different aspects of the world, while computer vision is the power to analyze visual inputs with a few sub-problems such as facial, object and gesture recognition. Robotics is also a major field related to AI. Robots require intelligence to handle tasks such as object manipulation and navigation, along with sub-problems of localization, motion planning and mapping

DEPARTMENT WELCOMES

1. Ms. Aruna.Rao, Assistant Professor.
2. Ms. Veda.B, Assistant Professor.
3. Mr. Deekshith. B. N, Assistant Professor.

100% RESULTS

Mr. Praveen A	Analog and Mixed Mode VLSI Design
Dr. B. Sudarshan	Digital Switching Systems
Ms. Pragati P	GSM
Mr. Santosh Kumar B R	Network Security
Dr. P. N. Sudha	Information theory & coding
Dr. B. Sureka , Ms. Sangeetha	Analog communication
Dr. B. Sureka	Digital image processing
Mr. B. R. Santosh kumar	Embedded system design
Ms .D. V. Rajeshwari	DSP & Architecture
Mr. Praveen A	Computer communication networks
Mr. S. Cristo Jain	Power electronics
Mr.Saleem.S.Tevaramani	Digital image processing
Dr. P.N Sudha	Error Control Coding
Dr. Shanthi Prasad.M.J	Advances in VLSI Design
Ms. Sangeetha. V, Mr. K. V. Madhava Murthy,	Advanced Communication Lab
Dr. B Surekha, Mr. Saleem S Tevaramani	
Mr. Christo Jain, Mrs. Anitha Senthil Kumar ,	Microprocessors Lab
Ms. Lakshmi. H.R, Mr. Praveen.A	
Ms. Pragati, Ms. Aruna Rao B .P, Ms. Veda ,	
Mr. K. V. Madhava Murthy,Mr.B. R. Santhosh Kumar,	Analog Electronics Lab
Mr.B. R. Santhosh Kumar, Mr. Deekshith	
Dr Shanthi Prasad	Fundamentals of CMOS VLSI
Ms. Jayasudha B.S.	KDSP Lab
Mr. Saleem S Tevaramani	Analog Communication Lab + LIC Lab
Mr. Sunil Kumar.G.R , Dr. B.Sudharshan	Verilog HDL
Mr. Praveen.A ,Dr. P.N Sudha	Information Theory & Coding
Ms. Jayasudha B.S.K, Dr. B Surekha	DSP Lab
Mrs.Sangeetha.V, Mr. Deekshith	
Ms. Lakshmi H.R	Applied Embedded Systems Design
Mr. Praveen.A, Dr. M.J Shanthi Prasad , Ms. Lakshmi. H.	RVLSI Lab
Ms.Vishalini Divakar,Ms. Sahana Salagare,	Power Electronics Lab
Mr. Christo Jain, Ms. Priyadarshini .J. Patil	

STUDENT ACHIEVEMENTS

- Manisha Jayson has represented our college & has successfully secured 55th rank in Indian Engineering Olympiad organized in Bangalore.
- Spurthi M. K of 2nd year, ECE has represented our college and secured 1st prize in Choreography competition organized by Jyothy Institute of Technology.
- Shreya Srinivas K of 2nd year, ECE has represented our college and secured 1st prize in Choreography competition organized by Jyothy Institute of Technology.
- Vidya, Vinuta & Vandana M.V has secured 2nd prize in group dance competition organized by K.S.I.T, Bangalore.
- Nithin Joshwa has secured 2nd prize in Instrumental competition organized by K.S.I.T, Bangalore.
- Rabichith has secured 2nd prize in face painting organized by K.S.I.T, Bangalore.
- Ritu Prasanna has secured 1st prize in Instrumental competition organized by K.S.I.T, Bangalore.
- Gautham R has secured 1st prize in Solo Dance during Ananya 2017 organized by K.S.I.T, Bangalore.



Our M.Tech Digital Electronics and Communication branch student, Ms. Navya. R bearing the USN 1KS15LECO2 secured 2nd Rank in the University Examination 2017.



CULTURAL ACHIEVEMENT

Goutham R of 7th SEM, ECE has been awarded with gold medal at World Dance Cup Canada, USA, International for chore Culture Crew for the year 2017-2018.

EVENTS CONDUCTED



National conference was organized on 10th and 11th May 2017 in association with IEEE KSIT SB. Dr. K Ramachandra, Former Director GTRE, DRDO, Bangalore and Dr. L. V. Muralikrishna Reddy, Former President, (IEI), were the chief guests for the conference

Project exhibition for final year students was organized on 12th may 2017 in association with IEEE KSIT SB. Dr Dr. Karthik P, Prof ECE, KSSEM, Bangalore was invited as the judge for the event.



Annual IEEE valedictory function was celebrated on 23rd may 2017 in association with IEEE KSIT SB & WIE Affinity group. Dr. Sujatha, WIE CHAIR, Bangalore section, Prof & HOD, MCA dept, BMSCE, Bangalore was the chief guest.

Talk on women safety & self defence was organized by ISTE on 23rd august 2017. Dr. Hemavathi Srinivasan from Institute of Combat studies, Bangalore was the chief guest.



Four days Internship on 3-D printing was organized by IEEE KSIT SB on 4 consecutive Sundays from 27th august 2017 to 17th September 2017.



Two days workshop regarding Internet of things (IOT) was organized on 1st & 2nd September 2017 in association with IEEE KSIT SB. The event was conducted in conjunction with Skyfi labs with Mr.Prashanth Kumar as resource person.

Technical talk was organized on 9th September 2017 by IETE. Dr. Vishwas Lakkundi, Principal architect, Incedo Inc, Bangalore.



Guest lecture on Field theory & Applications was organized on 23th September 2017 for second year students. Dr. Chaitanya Kumar, Principal, HKBK college of Engineering, Bangalore was the resource person.



IEEE day was celebrated on 4th October 2017. Ms. Y. V. S. Lakshmi, IEEE Bangalore Section Treasurer (2017) was the resource person.

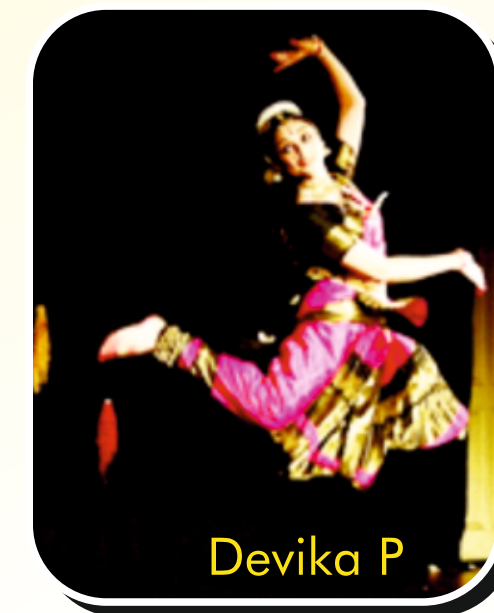


Mini project exhibition was organized on 4th October 2017 in association with IEEE KSIT SB. Mr. Palani, LIVE WIRE organisation Bangalore was the chief guest & judge for the exhibition.



STUDENT ACHIEVEMENT : CULTURAL

Ms. Devika P, a young Bharathanatyam artist showed inclination towards the field of art at her very young age. She started her formal Bharathanatyam training at the age of 3 under Guru Smt. Jyothi and now continuing the tutelage under Karnataka Kalashree Guru Smt. Revathi Narasimhan from the age of 6. She has been practicing music from past 10 years. Devika gave her debut performance when she was 4 years old. Since then she has continued to give performances on many prestigious stages, has won many state and national level competitions and has given more than 800 performances all over Karnataka and few major cities of India. She has completed her VidwatAnthima in First Class conducted by Karnataka Secondary Education Examination Board in 2017.



Devika P

STUDENT ACHIEVEMENT : SPORTS

Mr. Aakash. P. S of 7th sem, ECE has represented our college in Akhila Karnataka sports karate association , 9th state level championship on 2nd April 2017 at Jain university, J. C. road, Bangalore & has secured 1st place under category Team Kata.



Mr. Aakash. P. S

- Ms. Prathima.BA, Dr.P N Sudha, Dr. Suresh P M, "Electronic Sensors for Micron Resolution Dimension Measurement", Second IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques), 15th -16th December 2017, GSSSIETW, Mysuru.
- Mr. Santhosh Kumar B.R, Ms. Varalakshmi N, Ms. Soundarya Lokeshwari, Ms. Rohit K, Mr. Manjunath, Ms. Sahana DN Presented paper on, "Eco-Friendly IoT based Waste Segregation and Management", at Second IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques), 15th -16th December 2017, GSSSIETW, Mysuru.
- Mr. Srinivas Halvi, Ms. Nayina Ramapur, Mr. K. B. Raja, Dr. Shanthi Prasad. M. J., Presented paper on " Fusion Based Face Recognition system using 1D Transform Domains" 7th International conference on Advances in Computing & Communications, ICACC-2017 August 2017, pages 1-8
- Mr. Chiranthan C V, Dr. M Krishna Prasad, Mr. Shreyas R Y, Ms. Lakshmi H R, "Digital MCB", 2017 IEEE International Conference on Smart Technology for Smart Nation, Reva University, Bangalore, August 17th -19th 2017, pp.1416-1420
- Mr. Ashwin S, Mr. Sanketh S Hiremath, Mr. Akshay Vasist R, Ms. Lakshmi H R, "Automatic Control of Road Traffic using Video Processing" 2017 IEEE International Conference On Smart Technology for Smart Nation, Reva University, Bangalore, August 17th -19th 2017.
Dr P. N. Sudha, Ms. Navya R, "An Automatic Wireless Multimedia Communication System To Detect Accident Of Vehicle 7mobile Telemedicine System", International conference on computer science technology allies in research, city engineering college, Bengaluru on 11th -12th May 2017.

NATIONAL CONFERENCE

- All the final year students have presented technical papers in the National Conference on Recent Trends and Applications in Electrical and Electronics Engineering (NCRTAEEE-17) held at KSIT during 10 th – 12 th May 2017.
- Ms. Chaithra B, Ms. Kavya M, Dr. Jayasudha B S K, "A Survey on Monitoring stress levels of an individual by different techniques" Evolution 2017, 24th -25th September 2017, Instrumentation Society of India, RNS Institute of Technology, Bengaluru.
- Ms. Megha Venkatesh, Ms. Alaka, Ms. Jayasudha B S K, "A Survey on WBAN (Wireless Body area Network) and its applications", Evolution 2017, 24th -25th September 2017, Instrumentation Society of India, RNS Institute of Technology, Bengaluru

STUDENT PLACEMENTS :

- Our department students have been well-placed in prestigious companies like Infosys, SAP labs, NTT data, West line shipping & many more. Apart from placement, many students have chosen to pursue their higher studies in various renowned universities and are doing very well in academics.

STUDENT INTERNSHIP

- Our students have done internship for hands-on experience in various institutes/companies like ISRO, BEML, HAL, CG Technologies, Ideal Educraft Technologies, etc...

EVENTS CONDUCTED

Technical Talk on Python and Industrial Applications of Python was organized on 10th October 2017 in association with IEEE KSIT SB. Dr. Shri Ranga Raju, Professor, Electronics and communication Department, BIT, Bangalore was the resource person.



IEEE KSIT visited DESIRE SOCIETY, Kothnoor Dinne, JP Nagar, Bangalore on 20th October 2017 as a part of humanitarian event to spread happiness to the students of Desire society.

Technical talk on GSM was organized on 7th February 2018 in association with IEEE KSIT SB. Mr. C. K. Prem Kumar, M.E. Chief Business co-ordinator and Mentor, Ultra Cube private limited was the resource person



A two day workshop on Intro arduino was conducted on 15th & 16th February 2018 in association with IETE.

A Two day workshop on Embedded Systems with MSP430 was conducted on 17th & 18th February 2018 in association with IETE. Mr. Sanjay, Jyothi Technologies Bangalore was the resource person.





IEEE KSIT SB visited Vani Vilas Girls School, Kalasipalya, Bangalore and Kadapaswamy matta Government high school, Bangalore on two consecutive days i.e. 23th & 24th February 2018 to educate girls on cleanliness, hygiene & gave career guidance as a part of humanitarian activity.

A Guest lecture on Robotics and Artificial Intelligence was organized on 9th march 2018 in association with IETE. Dr. TC Manjunath, DSCE, Bangalore was the resource person.



A two day workshop on RC Aircraft was organized by Garut Aeromodelling Club in collaboration with Skyfi Education Labs Pvt.Ltd. on 16th and 17th March 2018 at KSIT, Bangalore. Mr. Nikhil and Mr.Bhaskaran from Skyfi Labs was the resource person.

IEEE KSIT SB organized their mega event InnovacEEEa 2.0 on 24th march 2018 where students from all the colleges participated in the semi-technical event.



Dr. Sangappa. S. B has completed PhD in "A Cross Layer Architecture based Robust Routing Protocol for Intervehicular Communication in VASNET" from All India Society for Electronics & Computer Technology University

- Dr. Rohit Thanki, Dr. Surekha Borra, Dr. Vedavyas Dwivedi, Dr. Komal Borisagar, "A Steganographic Approach for Secure Communication of Medical Images based on DCT-SVD and Compressed Sensing (CS) Theory", Imaging Science Journal, Taylor & Francis, Vol. 65, Issue 8, pp.457-467. DOI: 10.1080/13682199.2017.1367129] [Scopus Indexed]
- Ms. Aruna Rao B P, Dr. Ravi Shankar J, Dr. M. J. Shanthi Prasad, "Overview of Differential ended I/O Logic Families", International Journal of Engineering Research and Technology, ISSN: 2278-0181, Vol. 6, No. 11, pp. 1-6, Nov. 2017.
- Ms. Madhura. R, Dr. Shanthi Prasad. M. J., "A Technical survey of Important Research works in VLSI Test scan architecture", International Journal of Emerging Technology and Advanced Engineering (IJETA), Vol. 7, No. 10, Oct 2017,ISSN 2250-2459
- Dr. Rohit Thanki, Dr. Vedavyas Dwivedi, Dr. Komal Borisagar, Dr. Surekha Borra, "A Watermarking Algorithm for Multiple Watermarks Protection Using RDWT-SVD and Compressive Sensing", Informatica: An International Journal of Computing and Informatics, Vol. 41, No.4, Dec 2017, pp. 479-493.[Scopus Indexed]
- Dr. Rohit Thanki, Dr. Surekha Borra, Dr. Vedavyas Dwivedi, Dr. Komal Borisagar, "A RONI based Visible Watermarking Approach for Medical Image Authentication", Journal of Medical Systems, Springer, Vol41:143, [DOI: 10.1007/s10916-017-0795-3] [Scopus Indexed]
- Dr. Rohit Thanki, Dr. Surekha Borra, Dr. Vedavyas Dwivedi, Dr. Komal Borisagar, "A Steganographic Approach for Secure Communication of Medical Images based on DCT-SVD and Compressed Sensing (CS) Theory", Imaging Science Journal, Taylor & Francis, Vol. 65, Issue 8, pp.457-467. DOI: 10.1080/13682199.2017.1367129] [Scopus Indexed]
- Dr. Rohit Thanki, Dr. Surekha Borra, Dr. Vedavyas Dwivedi, Dr. Komal Borisagar, "An Efficient Medical Image Watermarking Scheme based on FDCuT – DCT", Engineering Science and Technology, an International Journal, Elsevier, Vol.20, No.4, pp. 1366-1379, 2017. [DOI: 10.1016/j.jestch.2017.06.001 2215-0986] [Scopus Indexed]
- Dr P. N. Sudha, Ms. Navya, "An Automatic Wireless Multimedia Communication System to detect accident of vehicle & mobile telemedicine system" International journal of Innovative Research in science Engineering & Technology [IJIRSET], pp.1111-1116.DOI:10.15680.
- Dr. Sureka, Ms. Lakshmi H R, Dr. Nilanjan Dey, Dr. Amira.S .A & Dr. Fuqian Shi, "Digital Image Water Marking Tools: State Of The Art", Frontiers in artificial intelligence & applications, Vol. 296 pp.450-4592017[ISBN;0922638][Scopus Indexed].

INTERNATIONAL CONFERENCE

- Ms. Raksha Ghosh, Ms. Pragathi R, Mr. Ullas S, Dr. Surekha Borra, "Intelligent Transportation Systems: A Survey", Second IEEE International conference on Circuits, Controls and Communications (C-CUBE-2017), R N Shetty Institute of Technology, Bengaluru, 15th -16th December 2017, pp.160-165.

BOOK CHAPTERS

- Dr. Rohit Thanki, Dr. Surekha Borra, Dr. Nilanjan Dey, Dr. Amira S. Ashour, "Introduction to Medical Imaging and Objective Quality Assessment Techniques", Studies in LNCVB Series, Springer, Chapter 1, pp.3-32, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
- Dr. Madhavi Gudavalli, Dr. Viswanadha Raju S, Ms. Vidya sree P, Dr. Surekha Borra , "Secured Optimal Cost Approach for Bimodal Deep Face Recognition in IOT and Its Applications" Handbook of Research on Big Data Management and the Internet of Things for Improved Health Systems, IGI Global, USA, Chapter 10, pp.163-175. [DOI: 10.4018/978-1-5225-5222-2.ch010
- Ms. Vidyasree P, Dr. Madhavi Gudavalli, Dr. Viswanadha Raju S, Dr. Surekha Borra, "A BioApplication for Accident Victims' Identification using Biometrics", Studies in LNCVB Series, Springer, Chapter 15, pp.407-447, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
- Ms. Pragati Pukkela, Dr. Surekha Borra, "Machine Learning based Plant Leaf Disease Detection and Severity Assessment Techniques" State-of-the-Art, Studies in LNCVB Series, Springer, Chapter 8, pp. 199-226, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
- Ms. Ambika Annavarapu, Dr. Surekha Borra , Dr. Padmavathi Kora, "ECG signal Dimensionality Reduction based Atrial Fibrillation Detection", Studies in LNCVB Series, Springer, Chapter 14, pp. 383-406, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
- Dr. Padmavathi Kora, Dr. Ambika Annavarapu, Dr. Surekha Borra, "ECG based Myocardial Infarction Detection using Hybrid Classification Techniques", Studies in LNCVB Series, Springer, Chapter 3, pp.57-78, [EBook ISBN 978-3-319-65981-7] Scopus Indexed
- Dr. Surekha B ,Dr. Nilanjan Dey, Dr. Amira.S.Ashour, on "Video Text Extraction & Mining", Mining Multimedia Documents, CRC Press, Taylor & Francis group, chapter 13, pp.173-192, 2017, [ISBN 9781138031722]. [DOI;10.1201/978131539974414].
- Dr. Surekha B, Ms. Kanchan Nazare Jayant, Dr. Vishwanadha Raju , Dr. Nilanjan Dey, "Attendance Recording System Using Partial Face Recognition Algorithm", Intelligent techniques in signal processing for multimedia security, Springer SCI series, Vol.660, Chapter 13, pp 293-319, 2017, [ISBN:978-3-319-44790-2], [DOI:10.1007/978-3-319-44790_14]-Scopus Indexed.
- Ms. Lakshmi H R ,Dr. B Surekha, Dr. Viswanadha raju S, "Real Time Implementation of Reversible Watermarking", Intelligent techniques in signal processing in multimedia security SCI series: Vol.660, 2016, Springer studies in computational intelligence (SCI) series, Vol.660, 2017, chapter 5, pp.113-132. [ISBN:978-3-319-44790-2] [DOI:10.1007/978-3-319-44790-2_6]-Scopus Indexed.

INTERNATIONAL JOURNAL

- Ms. Madhura R, Dr. Ravi Shankar J, Dr. Shanthi Prasad. M. J, "Comprehensive Study of Popular VLSI Test Scan Architecture", International Journal of Engineering Research & Technology (IJERT), Vol.6, Issue 11, Nov. 2017, ISSN: 2278-0181.

FDP/WORKSHOP ATTENDED BY FACULTY

- Ms. Jayasudha, Asst. Professor and Ms. Sahana Salagare, Asst. professor, have attended 2 days Workshop on "Research Methodology" held during 8th to 9th July 2017 at Amritha University, Bangalore.
 - Ms. Pragathi. P, Asst. Professor, has attended 2 days Workshop on "Research Methodology" held during 17th to 18th July 2017 at KSTA, Dept of Science & Technology, Govt of Karnataka, Bangalore.
 - Ms. Prathima. B. A, Asst. Professor, has attended 2 days Workshop on "Industrial Internet of Things" held during 10th to 11th November 2017 at R.V.College of Engineering, Bangalore.
 - Ms. R. Nithya kumari, Asst. Professor has attended 1 day workshop on "IOT & Cloud Computing" held on 28th November 2017 at ISM University, Bangalore.
 - Dr. P. N. Sudha Prof & HOD and Ms. Nityakumari K Asst. Professor, have attended "One week Hands on Workshop Advances in Communication Network using NS3" at Rajrajeshwari College of Engineering, Bangalore date.
 - Dr. B. Surekha, Professor attended 6 Day FDP on "Big Image Data Processing using Machine Learning Algorithms" at National Institute of Technology, Warangal.
 - Ms. Jayasudha Asst professor attended 3 days workshop on "Pedagogy and Personal Effectiveness Capacity building" from 18th to 20th December 2017, at PES University Bangalore.
 - Mrs . Mrs.Sahana Salagare, Assistant Professor attended One day workshop on 03-2-2018 on Sonar Signal Processing at KSSEM, Bengaluru
 - Priyadarshini Patil, Assistant Professor, attended 4 days FDP on Latest advancement in power Engineering sector from 8-01-18 to 11-01-2018 at DSATM ,Bengaluru
 - Mrs.Prathima B.A, Assistant Professor attended 4 days FDP on Armcrtex M3 Embedded Controllers from 8-01-2018 to 11-11-2018 at DSATM,Bengaluru
 - Mrs.Sangeetha V , Assistant Professor attended FDP on Armcrtex M3 Embedded Controllers from 8-01-2018 to 11-11-2018 at DSATM,Bengaluru
- FACULTY AWARDED WITH PHD**

FACULTY ACHIVEMENTS:

- Dr. P. N. Sudha, Prof. & HOD has been Reviewer for the "International Conference On Signal Processing, Image Processing, Communication & Automation" organized by ISS Academy Of Technical Education, Bengaluru.
- Dr. B. Sureka, Prof has been a Guest editor for a special issue on "End-user privacy, security & copyright issues" in Informatica: an International Journal Of Computing Informatics, Europe, Vol.41, Issue 1, 2017.
- Dr. Sangappa. S. B, Assoc Prof, was invited as chief guest at Dayananda Sagar college of engineering for the event "Eco Innovation National level student symposium 2017" held on 7th April 2017.
- Dr. Sureka, Prof stood as one of the topper in 4 weeks NPTEL MOOC on "Intoduction to remote sensing" conducted by IIT Roorkee, India, 23rd April 2017.
- Dr. Sangappa. S. B, Assoc Prof, worked as "Advisory committee member" for the 3rd National Conference On Recent Trends In Electronics & Communication organized by GAT Bengaluru on 12th may 2017.
- Dr. B. Surekha, Professor delivered Guest Lecture on "Image Processing for Remote Sensing Applications", on 12th August 2017, at Geethanjali Institute of Science and Technology, Nellore, Andhra Pradesh.
- Dr. B. Surekha, Professor is a Guest Editor for the Special Issue on "Content Protection and Management in E-commerce: Approaches to Multimedia Security", Journal of Global Information Management (JGIM), IGI Global, US.
- Dr. Sangappa. S. B, Associate Professor, ISTE Executive Council Member contributed for the successful organisation of 14th State Level ISTE Students' Annual Convention and 5th National Conference on Emerging Trends in Engineering, Research and Management at G M Institute of Technology, Davanagere, on 8th & 9th September 2017.
- Dr. B. Surekha, Professor, stood as Topper in 4 weeks NPTEL MOOC on "Digital Image Processing of Remote Sensing Data" conducted by IIT Roorkee, India, 24th September, 2017
- Dr. Sangappa. S. B, Associate Professor, attended the ISTE Students' Award Selection Committee Meeting at ISTE Headquarters, New Delhi on 26th & 27th September, 2017
- Ms. Lakshmi. H. R, Assistant Professor, stood as Topper in 8 weeks NPTEL MOOC on "Hardware Modeling using Verilog" conducted by IIT Kharagpur, India, 22nd October, 2017.
- Dr. B. Surekha, Professor, contributed as Technical Program Committee member and Reviewer for IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICECCOT-2016), GSSS Institute of Engineering and Technology for Women, Mysore, India, 15th-16th December 2017.

- Mrs. Sahana Salagare, Assistant Professor Delivered a talk on "Internet of Things" at BLDE's KCP Science College, Vijayapur for BCA final Year students on 30th December 2017.

Dr. Sudha. P. N, Prof & HOD, contributed as Reviewer for: 2nd IEEE INTERNATIONAL CONFERENCE ON CIRCUITS, CONTROLS AND COMMUNICATIONS organized by ECE dept. R.N.S.I.T Bangalore to be held on 15th & 16th December 2017 International Conference on Cognitive informatics and soft computing organized by VBIT Hyderabad, AP from 20th -21st December 2017 International Conference on Electrical, Electronics, Communication, Computer technologies and Optimization Techniques organized by GSSSIT Mysuru 15th to 16th December 2017

Dr. B. Surekha, Professor, contributed as Reviewer for: Second International Conference on Smart Trends for Information Technology and Computer Communications (SmartCom 2017), 18th -19th August, 2017, Pune. 3rd Springer International Conference on Next Generation Computing Technologies (NGCT-2017), School of Computer Science & Engineering University of Petroleum & Energy Studies, Dehradun, 30th - 31st October, 2017.

• Dr. Sangappa. S. B, Associate Professor, was invited as Chief Guest for: Mega Alumni Meet 2017 at Dayananda Sagar College of Engineering, Bangalore on 25th December 2017. 28th

Dr. L S Chandrakant Memorial Lecture on "Challenges and Issues of Outcome Based Education" and Valedictory of 20th ISTE State Level Faculty Convention at Dayananda Sagar College of Engineering, Bangalore on 9th December 2017. Workshop on Writing Research Proposal, IPR and Patenting", at ACS College of Engineering, Bangalore on 31st July 2017

FUNDED PROJECTS

- Dr. B. Sureka, Prof & her project students have received a fund of Rs 5000/- for the project entitled "Design & Implementation of highly secure medical record communications algorithms for Telemedicine applications" by Karnataka state Council for science & technology (KSCST) under students' project proposals 40th series.
- Dr. B. Surekha, Prof received a fund of Rs 5 Lakhs from Government of Karnataka, Vision Group on Science and Technology, Department of Information Technology, Biotechnology and Science and Technology under the scheme SEED MONEY TO YOUNG SCIENTISTS FOR RESEARCH (SMYSR) for conduction of research project titled "Design and Development of Bio-Inspired Algorithms for Confidential Medical Image Communication"

PUBLICATIONS

BOOKS

Dr. Rohit Thanki, Dr. Komal Borisagar, Dr. Surekha Borra, "Advanced Compression and Watermarking Techniques for Speech Signals", Springer Briefs in Speech Technology, Springer – [ISBN 978-3-319-69069-8, 978-3-319-69068-1] [ISSN: 2191-737X] [DOI : 10.1007/978-3-319-69069-8]

EDITED BOOKS

Dr. Nilanjan Dey, Dr. Amira. S. Ashour, Dr. Surekha Borra, "Classification in BioApps- Automation of Decision Making" Lecture Notes in Computational Vision and Biomechanics (LNCVB Series), Series Volume 26, Springer – [ISSN: 2212-9391] [ISBN 978-3-319-65980-0 ISBN 978-3-319-65981-7 (eBook)]