



KSIT CSE

# CS-GYANBYTES



## The Committee

### Faculty:

Mrs.Priyanga.P,Asst.Prof

Mrs.Renukadevi.S,Asst.Prof

### Students:

Siddharth Meharwade

S.N.Shreyas

## Department Vision & Mission

**Vision:** To provide competent and responsible professionals in the field of Computer Science and Engineering with knowledge and skills required for the country in its quest for development.

### Mission:

1. Inculcate strong theoretical and practical knowledge for continuous learning.
2. Prepare students to find Computer Solutions for the society through research and entrepreneurship with professional ethics.
3. Encourage team work in inter-disciplines and evolve as leaders with

## Principal's Words

At KSIT, we offer a holistic educational experience through various innovative teaching approaches. Guided by experienced faculty, you will have the opportunity to work in teams, and resolve problems. By the time you graduate, you will be a confident, resourceful problem-solver and presenter who will be an asset to any organisation.

Life on campus is both enriching and exciting. As a KSIT student, you have access to excellent facilities to enhance your capabilities. Broaden your network and enjoy your time in KSIT by participating in Co-Curricular Activities, which span from Interest Groups to Clubs, to nurture your creativity, interests and interpersonal skills.

Wishing you all the best..!!

—Dr.T V Govindaraju

**Mission: Aim at perfection achieve excellence**

**Vision: From Diversity to Integrity.**

## HOD's Words

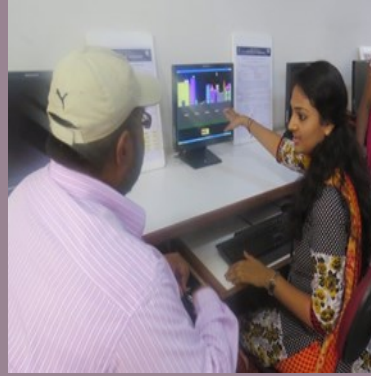


The Research Division of Computer Science and Engineering at KSIT was created to conduct basic and applied research in Computer Science, covering a broad range of research topics that includes Big Data Analytics, Data Mining, Cloud Computing, Wireless Networking, Image Processing and Artificial Intelligence . Currently 2 research scholars have registered for PhD under VTU and 5 projects are submitted to different funding agencies. Our department took the initiative to encourage as many student developers in KSIT and with the help of Google Student Ambassador Program, Android Student Club was started to achieve the same. Our department is sponsored by Karnataka Fund for Infrastructure Strengthening in Science and Technology (KFIST) under VGST.

—Dr.Rekha B Venkatapur

**"It always seems impossible until it's done."**

# COMPUTER GRAPHICS



A Mini Project Exhibition on “COMPUTER GRAPHICS” was conducted for the students of 6th semester during the month of June under the guidance of Mrs Sougandhika Narayan, Asst Professor & Mr Pradeep Kumar G H, Asst Professor and the top 10 Projects were selected by the chief guest of the event Mr C P Sameerana, Head of the department Computer Science & Engineering, APSCE.

Seminar on “Inspiring Entrepreneurship and Encouraging Volunteerism” was conducted on 27th August 2015 to 3rd, 5th & 7th sem students by Mr Subhash Chairman, World Merit Council of India.

Dataquest is an Indian magazine focused on information technology related articles. Also referred to as the bible of Indian IT, it has constantly endeavored to highlight new developments in the IT industry and the corresponding information needs of the corporate user.



PC World is a computer technology magazine, and is one of the best tech based magazines in the world. It was flagged off in 1983 and has since then been at the forefront of technology news, reviews and other articles.

# SKILLS ENHANCEMENT

FDP on “APPLE IN HIGHER EDUCATION” and “Enhancing Digital Skills on Adobe’s Best-of –Breed Creative Tools” was conducted on 25th June 2015, under CSI Chapter in association with Creative InfoTech, Bengaluru by Mr Mohit Hegde Director Creative InfoTech and Mr V J Swaroop Apple certified Trainer.

A technical talk on “Software Testing Fundamentals” was conducted on 31st October 2015, under Entrepreneurship Development Centre in association with IEE to the students of 3rd and 5th semester by Mrs. Manjula Guruswamy, Test Lead HP & EMIDS.



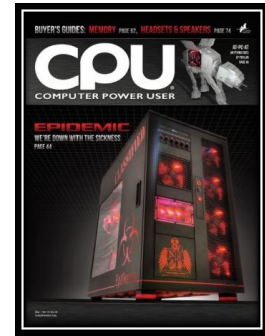
“You can't have a better tomorrow if you're still thinking about yesterday.”

# DIGITAL MARKETING



Seminar on “Digital Marketing” was conducted on 10th October 2015, under KSIT Alumni Association to the students of 3rd semester by Mr Ganesh Internet Marketer, Blogger with Mr Varun and Mr Abhishek Alumni 2014 Batch.

Two days workshop on “IOT IDEATION BOOT CAMP” was conducted on 14th and 15th October 2015 under CSI in collaboration with INTEL to the students of 5th semester of all the branches by Dr. H S Jamadagni, Professor, DESE, Indian Institute of Science.



Computer Power User also known as CPU is one of the most popular tech magazines of today. In a world where magazines have tried to become accessible to every reader, this tech magazine still maintains most of its sections targeted towards the seasoned science buff.



**PC Pro is the UK's number one IT monthly.** We specialize in insight: what's the best technology to buy for home and business. War stories from IT consultants. What impact the latest developments will have (and what the headlines don't tell you). In-depth advice on getting more from the kit you already own.

## CPS



CPS are smart systems that have cyber technologies, both hardware and software, deeply embedded in and interacting with physical components, sensing and changing the state of the real world. In cyber-physical systems, physical and software components are deeply intertwined, each operating on different spatial and temporal scales, exhibiting multiple and distinct behavioural modalities, and interacting with each other in a myriad of ways that change with context. These systems have to operate with high levels of reliability, safety, security and usability since they must meet the rapidly growing demand for applications such as the smart grid, the next generation intelligent air transportation systems, smart medical technologies, smart buildings and smart manufacturing, robotics, process control systems, etc. 2017 will be another milestone year in the development of these critical systems, which while currently being employed on a modest scale, don't come close to meeting the demand. The Internet Of Things Will Need Millions Of Developers By 2020.

**“You can't have a better tomorrow if you're still thinking about yesterday.”**

# PAPERS PUBLISHED

Paper published for International Journal of Science Technology & Management titled "A Survey on Software Risks" ISSN: 2394-1537 by Mr K Venkata Rao, Associate Professor & Mr Aditya Pai H, Asst Professor.

Paper published for International Journal of Advanced Technology in Engineering and Science titled "Survey On Software Defect Prediction" ISSN: 2348-7550 by Mr. Piyush Pareek, Asst Professor & Mrs Swathi K Asst Professor.

Paper published for International Journal of Innovative Research in Computer and Communication Engineering titled "Lung parenchyma segmentation and solitary pulmonary nodules in lungs detection techniques-a survey" ISSN: 2320-9801 by Mrs Vijayalakshmi M, Asst Professor.

Paper presented for National Conference on Advances in computing and communication Technologies titled "Gathering Data Using Mobile Nodes In Wireless Sensor Networks" by Miss Mamatha A, Asst Professor.

Paper published for The Board of International journal of Innovative journal of Research and Development titled "Feature Match:A General ANNF Estimation Technique and its Applications" ISSN:2278-0211 by Mrs.DEEPA .S.R Asst professor.

Paper published for International Journal of Computer Science Trends and Technology (IJCTST) titled" REAL : A Reciprocal Protocol for Privacy in Wireless Communication Networks" and its Application in the volume issued volume-4, Issue-2" ISSN : 2347-8578" by Mrs.RENUKA DEVI Asst professor .

Paper published for International Journal of Engineering Research and Science titled " Survey On Long term product Planning and Requirements, prioritization to customer value creation And it application in the volume issued Volume-2, Issue - 6, "ISSN : 2395-6992" by Mrs.Swathi.K Asst professor

Paper published for Communications on applied Electronics (CAE) titled" Mining Health data using weighted approach" and its application in the volume issued Volume 5, No-10," ISSN: 2394-4714" by Mrs. Priyanaga.P Asst professor.

Paper published for International Journal of Scientific Engineering and Applied Science(IJSEAS) titled" Emotion Finder: Detecting Emotions From Text, Tweets and Audio" And its application in the volume issued vol:2,Issue-5," ISSN: 2395-3470" by Mrs.Sougandhika.N Asst professor

Paper published for International Journal of Engineering Trends and Technology (IJETT) titled" Automatic Educational Document Classification using NLP"and its application in the volume issued Volume 35," ISSN :2231-5381"by Mr.Kushalkumar.B.N Asst professor.

Paper published for International journal of Engineering trends and technology titled" Object Tracking Robot on Raspberry Pi Using OpenCV" and its application in the volume issued Volume 35, No 4, by Mr.Pradeepkumar.G.H K Asst professor.

Prof. Swathi.K, has published a paper as a Co-Author titled "An Adoptive Model for Lean Software Development", in the LAMBERT Academic Publishing, Germany, 21st September 2016.

Prof.Priyanga.P, has published a paper on " Mining Health data using weighted approach", in International conference on " Communications on applied Electronics(CAE)" in ISSN:2394-4714 issue: Volume 5, No-10 , Year -Sep-2016.

Prof.Aditya Pai.H, has published a paper on "Modeling and Simulation of Cell Biological Systems on Heterogeneous Parallel Computing Platforms: A Review", in International conference on "Advance Trends in Engineering, Science & Humanities (15th December 2016)" in ISBN: 978-81-81693-07-5, PP 159-167, Year-sep-2016.

## 100% RESULT:-

### FACULTY NAME

1. Mrs Rekha B Venkatapur
2. Mrs Vijayalakshmi M
3. Mrs Sangeetha V
4. Mr Raghavendracher
5. Mr Roopesh Kumar B N
6. Mr Chethan M
7. Mrs Sangeetha V
8. Mrs Vijayalakshmi M
9. Dr Naveen N C
- 10.Siddu Tushara.M.S
- 11.Piyush Pareek
- 12.Mamatha.A
- 13.Harshavardhan.J.R
- 14.K.Venkata Rao
- 15.Krishna Gudi
- 16.B.N.Kushal Kumar
- 17.Vijayalakshmi.M

### SUBJECT

1. System Modelling and Simulation
2. Software Architecture
3. Information and Network Security
4. ADHOC Network
5. Embedded Computing System
6. Programming the WEB
7. Embedded Computing System
8. Advanced Computer Architectures
9. JAVA and J2EE
10. Design and Analysis of Algorithms
11. Management & Entrepreneurship
12. Unix System Programming
13. Compiler Design
14. Operations Research
15. Management & Entrepreneurship
16. Unix System Programming
17. Software ArchitectureS

18.Rekha.B.Venkatapur

System Modeling and Simulation

19.Raghavendracher

Ad-hoc Networks

20.Pradeep Kumar.G.H

Services Oriented Architecture



"Successful people never worry about what others are doing."

## GUEST LECTURES

- A Guest Lecture on “Overseas Education and International Career” was conducted on February 2nd 2016. The Department of Computer Science and Engineering Organized a Guest Lecture on International Careers under CSI Student Chapter in association with SIEC, Bangalore.
- A WORKSHOP is Organized by 'APP DESIGN PROTOYPING' on 19th March 2016, under CSI Student Chapter in association with Creative Infotech, Bangalore .
- A Technical Talk on IoT and Industry trends presented by Alumni Mr.Abhiroop Matilal, Manager, IoT Business Strategy (Automative), Tech Mahindra, Bangalore, Thanks to Alumni of 2004 Batch Dept of CSE,KSIT who shared his 12 years of Experience, Innovations,Contributions with our students.
- The Department of Computer Science and Engineering in collaboration with Electronics and Electrical Engineering Organized Awareness program on 'John Deere presents Techno - Champ 2016' by Girish.K from BMSCE College, under KSIT-ISTE Student Chapter.
- A Guest Lecture on 'Joy of Learning Computer Networks' was conducted on 16th April 2016, for 6th Semester, CSE students by Prof. Chidambara, PESIT, Bangaluru under CSI Student chapter.
- A Technical Talk on 'Opportunities & Trends in Animation, Visual Effects and Gaming Industry' by ICAT Design and Media was conducted on 9th March 2016, under KSIT-ISTE Student Chapter.
- On 08th August 2016 a Guest Lecture on “Programming skills” was given by Prof. A.M Padma Reddy, Prof & Head, CSE, SVIT, Bangalore. The students learnt about range and representation of signed and unsigned integer. It was an enlightening session as he focused on the importance of how to understand the problem, think logically, frame an algorithm and then write programs. It was an interactive-learning session for the students where he answered all the queries put up by the students to their full satisfaction.
- On 27th August 2016, all Research scholars of CSE, R&D presented the progress in Research work. Organized with Evaluation panel members from Industry Expert Dr. K Vasu, System Architect, Huawei Technologies, Bengaluru, An Academic Expert – Dr. Rajashekhar, Assoc. Professor, ISE Department, Dayanand Sagar College of Engineering, Bengaluru.

## PHOTO GALLERY



**“What you are looking for is not there..... It's in you!!”**

## EVENTS ATTENDED

- Mrs Rekha B Venkatapur, Associate Prof & Head attended Professional Development Programme on “Formulation of Research & Development Initiatives for scientists and Technologists” from 07-10<sup>th</sup> September 2015 at Engineering Staff College of India, Hyderabad.
- Mrs Sangeetha V, Asst Professor, Mrs Priyanga P, Asst Professor, Mrs Vijayalakshmi M, Asst Professor & Mr Pradeep K R, Asst Professor attended FDP on “Plagiarism and Process adopted in VTU” on 25<sup>th</sup> July 2015 at SJBIT Bangalore Organized by VTU, Belgavi.
- Mr Kumar K, Asst Professor attended 2 days conference on “Skill Development, Rural Entrepreneurship and Technology” on 3<sup>rd</sup> and 4<sup>th</sup> of September at VTU regional office, Bengaluru.
- Mrs Swathi K, Asst Professor attended “Big Data and its Applications” from 22-25<sup>th</sup> of June 2015 organized by Department of Computer Science & Engg, VTU Post Graduation Studies, Mysuru.
- Mrs Sangeetha V, Asst Professor attended workshop on “Outcome Based Education and Accreditation” on 21<sup>st</sup> July 2015 at BMSCE organized by BMSCE in collaboration with VTU, Belgavi.
- Mrs Sangeetha V, Asst Professor & Miss Mamatha A, Asst Professor attended three days FDP on “Soft Computing and its Application in Engineering” from 10<sup>th</sup> to 12<sup>th</sup> of August 2015 organized by Department of Electronics and Instrumentation, MSRIT.
- Mrs.Rekha.B.Venkatapur, Prof & Head, attended a Workshop on "National Program On Technology enhanced Learning" organized by JIT, Bengaluru on 20th January 2016.
- All faculty of the computer science department has attended FDP on "R&D Funding opportunities & intellectual property rights" at KSIT, Bengaluru on march 28th 2016.
- Mr. K.Venkata Rao, Mrs Deepa.S.R, Mrs. Swathi. K & Mrs. Renukadevi.S attended Workshop on "App Design Prototyping" at KSIT, Bengaluru on 19th march 2016
- Mrs. Deepa.S.R, Mrs. Sangeetha.V ,Mrs. Sougandhika Narayan & Renukadevi.S attended FDP on "Writing Research Proposals" at KSIT, Bengaluru on 1st February 2016
- Mrs. Sangeetha.V & Mrs. Vijayalakshmi.M attended Workshop on "Plagiarism" at CMRIT, Bengaluru on 4th march 2016
- Mr. Piyush Pareek attended Journal Round Table 2016 at Le Meridian, Bengaluru 8th march 2016
- Mr. Aditya.H attended a Workshop on "IoT Ecosystem - A hands on workshop with Hackathon" at JIT, Bengaluru on 4th January 2016
- Mrs. Siddu Tushara.M & Mrs. S.kokila attended FDP on " Python for Research Applications" at DSCE, Bengaluru on 10th march 2016
- Prof. Vaneeta M and Prof.Mamatha. A, attended a 2 days FDP on “Matrix Laboratory for teaching and research” organized at Reva Institute of Technology and Management, Bangalore on 04th and 05th July 2016.
- Prof.Harshavardhan.J.R, Prof. Sougandhika Narayan and Prof. Imapana.K.P, attended a 6 day FDP on “Cloud Computing Hands-On” organized at BNMIT, Bangalore on 11th July 2016 to 16th July 2016.
- Prof. Rekha B Venkatapur, attended a 4 day FDP on “Linear Algebra and its Applications in Computer Vision” organized at JSSATE, Bangalore on 13th July 2016 to 16th July 2016.
- Prof.Priyanga.p and Prof.S.Kokila, attended a 5 day FDP on “Data Science and Data Analytics” organized at JIT, Bangalore on 18th July 2016 to 22nd July 2016.
- Prof. Sangeetha. V, attended a 6 day FDP on “Advances and Research Challenge in the Application of Artificial Intelligence in Gaming, Medical Imaging and Bio-Informatics” organized at MSRIT, Bangalore on 18th July 2016 to 23rd July 2016.
- Prof.Pradeep.K.R and Prof.Priyanga.p , attended a one day workshop on “Bigdata Analytics for Health Care” organized at DSU School of engineering, Bengaluru on 24th August 2016.
- Prof.Pradeep.K.R, attended a 2 day workshop on “Accreditation process for Technical Institutions” organized at JSSATE, Bangalore on 26th and 27th August 2016.
- Prof.Pradeep.K.R, attended one day workshop on “Emerging Technologies” organized at VTU Regional Center, Beangalure on 26th September 2016.

## ACHIEVEMENTS BY STUDENTS

- **Achyuth S R** of 3<sup>rd</sup> sem got a new edge to his dreams when he innovated a project named **NPP- Notepad Project** under the platform **i3** which were gifted to government school children around Bengaluru.
- **Poojitha Hebbar** of 6<sup>th</sup> sem secured first position in Mini Project exhibition on **“Computer Graphics”** for the project on **“FUN FAIR”**.
- **Sweatha Suresh** of 6<sup>th</sup> sem secured second position in Mini Project exhibition on **“Computer Graphics”** for the project on **“Simulation of City”**.
- Bhavani.B, M.shruthi , Madhubala.S , Nirusha.A presented a paper on Steganography using reversible texture synthesis on National level project competition and exhibition "Tech -storm-2016" at GSSS institute of engineering & technology for women
- Vasudev. S.V ,Akshay Kumar. T ,Ashwin Bhadraraj ,Nidhi Subramanya L presented a paper on Video Stitching & Object Tracking and secured 2nd place in ,5th National Conference on emerging trends in Engineering Technologies(ETET-16)
- Sonali Singh,Swetha.R,S.Varna,Shaburul Hasina.S presented a paper on Nazi-An App for English correction Grammer on 2nd national conference on advances in Computing Technology
- Sharanya M S, Rajesh D presented a paper on Web App Development on CSI-GAT State level Tech-Meet-2016, Feb-2016 at Global Academy of Technology
- Meena.M,Nandini.R ,Kruthika.K.P ,Kavya.N D presented a paper on survey on big data storage and analysis using berkely database on national conference on "Information and communication technologies" at R.V .college of engineering.
- Students of VII semester participated at I-MEDIA for project based summer internship program from 06.07.2016 to 22.07.2016
- Student of II semester Neha Kouser selected to participate at “Catalyst for workshop and the Annual Convention 2016” from 25.07.2016 to 30.07.2016.
- Srinidhi.G participated in the workshop “How to crack gate” at the gate academy held on 4th Sep 2016.
- Ananyasree H.B. Hrishikesh.C.V, Pooja Sreedhara Murthy, Aditya Shankar, Nancy Jal-lerndhara had participated in E-Pravarthana – 13th state level “ISTE student Annual Convention” held on 25th Aug 2016 in JSSATE, Bengaluru.
- Siddhanth.M, Abhishek M, Aditya Shankar.M, SourabKumar were placed 1st in the event “TECH QUIZ” in 13TH state level ISTE students annual Convention held on 2nd August 2016 in JSSATE, Bengaluru.



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