HEAD OF DEPT

Ms. Devi Gopal T

About CSE

The Computer Science and Engineering Department of Gurudeva institute of science and technology focus on promoting excellence in academics as well as extracurricular activities. CSE department, established in 2010 has grown into a full-fledged one with excellent staff and well equipped laboratories which helps to mold student to meet changing technological needs. The department offers UG programme in Computer Science and PG programme in Cyber Security enabling students to broaden their knowledge in the emerging technologies. The department frequently conducts seminars and expert talks with the support of experienced resource persons from the industry.

Vision

The Computer Science and Engineering Department produce globally competent graduates with moral values committed to build a vibrant nation & to make innovative research in computer field to serve the needs of industry, government & society.

Mission

- Our mission is to teach and prepare educated, articulate and skilled engineers for professional career and for advanced study
- Enrich society and by preparing graduates with the knowledge, ability and skill to become leaders and innovators to contribute to the aspiration of country.
Researchers help robots 'think' and 'plan' in the abstract

New research shows that robots can learn abstract representations of the world that are useful in planning for multi-step tasks, something that's monumentally difficult for robots to do. Here, a robot learns useful abstractions about the world by executing a set of motor skills.

Faculty Achievements
- Asst Professor Mr. Arun P. Kuttappan and Mr. Nidhin R has attended three day workshop on Data Analytics & Information Security held at RIT on 14th July 2018.
- Asst Professor Mr. Kiran G Kumar published a research article on "Anonymous Two -Factor Authentication in Distributed Systems" in International Journal of Computer Science Trends & Technology (IJCST).
- Assistant Professor Arun P. Kuttappan and Kiran G Kumar attended a two day workshop on "Design Project" on 15th to 19th July 2017.
- Assistant Professor Jisha Raju attended a two day workshop on "Graph Theory & Combinatorics" conducted by KMEA Engineering College on 25th & 26th July 2017.
- Assistant Professor Timimol Andrews attended one day workshop on "Soft Computing" conducted by MBC peer made on 12th July 2017.

Student Achievements
- Thaslim Shajahan, Midhun J and Harikrishna from S3 CSE got selected for Kerala startup Mission's idea day on 6th November for presenting their ideas before Dr. M Sivasankar, IAS and Dr. saji Gopinath, KSUM CEO. Their idea has been selected and funding for the same has been approved by IT Ministry. They are now woking upon the project to create the actual product.

Events Organized & Forthcoming
- Organized a one day seminar on 'Emerging Trends in Networking' in association with ASCEPT (Association of Computer Science Engineering Professional Threads) on 2nd March 2018.
- Organizing International Conference ICCISCON 18 on April 6-7.

Meetings Organized
- Course team meeting, course committee meeting and class committee meeting conducted for B.Tech and M.Tech courses in CSE.
- Student Council Meeting were conducted by the department.
- First series RA Meeting conducted for S2, S4, S6 and S8 CSE.
DIGIMED

Throughout the history of modern medical science, medicine and their timely availability is a core factor. As per current situation, requirement of specific medicine can be met mainly through direct enquiry in medical shop which in most case leads to wastage of time. Also, there may be situation in which there is lack of timely availability of medicine. So, the proposed system, DIGIMED, which is a java plus android system that emphasis on ease of user. The application mainly targeted in helping those who are in urgent need of medicine by giving him the proper information about right place where he can able to find the required medicine as fast as possible, that is at most nearest location. More over our application also aims at disease prediction by symptom analysis and also aims to provide the list of doctors on different categories who are available for further consulting with the use of machine learning technique.

Anuja Sibi, Dona Mariam Moses, Hyma Sreekumar (S8 CSE)

Shape Detection Using OpenCV in Android Application

Vision is the most advanced of our senses, so it is not surprising that images contribute important role in human perception. This is analogous to machine vision such as shape recognition application which is important field nowadays. We introduce a new approach for recognizing two dimensional shapes in an image, and also recognizes the shapes type. The study of shapes is a recurring theme in computer vision. For example, shape is one of the main sources of information that can be used for object recognition.

Shone Mathew, Tijin Joe, Prabhul Sanjeev, Amal Viswanath (S8 CSE)

A snapshot of current trends in visualization

Visualization is the study of the transformation of data to visual representations. These visual elements are then used to gain insight into and from the data. In the 30 years since the landmark "Visualization in Scientific Computing” report in which the National Science Foundation Panel on Graphics, Image Processing, and Workstations outlined a vision for developing computer-generated visualization as a scientific field.
Neural Networks everywhere

MIT researchers have developed a special-purpose chip that increases the speed of neural-network computations by three to seven times over its predecessors, while reducing power consumption 93 to 96 percent. That could make it practical to run neural networks locally on smartphones or even to embed them in household appliances.

Program Educational Objectives (PEOs)

1. To prepare students for academically talented and to be employed as computer professionals to significantly contribute to society at large.
2. To develop students skills and knowledge related to computer science and other related areas and make them to solve challenging problems and hard tasks.
3. To train students for self learning and mould them to face changes and posses the ability to understand the impact of engineering on society.
4. To train students for making better communication skills and able to comprehend and write effective presentations and give & recieve clear instructions.

Program Specific Outcomes (PSO)

1. An ability to develop principles to analyze and design complex software and hardware components of varying complexity.
2. Graduates capable of pursuing successful carrers in industry, reasearch and to adapt everchanging and evolving new trends.
3. Graduates capable of developing, maintaining software services and embedded systems by applying the entire software developments by applying the software development life cycle.
4. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems.

Editorial Board
Staff Editor: Tjinmol Andrews, AP, CSE
: Ardra Raj, AP, CSE