SRI SHANMUGHA

COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous institution

TechChronical

Second Edition

(Jan - Apr 2024)

Department of Information Technology

INFORMATION TECHNOLOGY

ABOUT THE DEPARTMENT

The Department of Information Technology was established in 2021 with the objective of imparting quality education in the field of Information Technology. The department is augmented with qualified faculty with rich teaching experience. The Department has well established lab facilities with advanced software suited to the syllabus prescribed by the University. Faculty and students have been doing research in the areas like IoT, Data Analytics, Full stack Development, Image Processing, Network security, Mobile Ad-hoc Networks etc. The Department is adopting a new innovative teaching methodology to meet PEOs (Programme Educational Objectives). The class rooms are well equipped with all modern electronic audio- visual facilities to cater to the academic needs of students and staff. Our students have undertaken internships in many reputed MNCs.

HIGHLIGHTS

VISION AND MISSION OF THE DEPARTMENT

VISION

To create a conducive environment for the development of academic and innovative technocrats employable at the global level, socially responsible and professionally competent to sustain the challenges.

Mission

M1: To develop competent and quality IT professionals by imparting state-of the art technology learning methodologies.

M2: To enrich the knowledge of the students through value-based education.

M3: To promote Industry – Institution relationships among the students to become more employable and better citizens to solve societal issues.

M4: To constantly upgrade the Faculty qualification with cutting edge technology to achieve high status in technical and research areas.

EDITORIAL TEAM

Managing Editors

V.Sangeetha
B Tech IT-IIIYEAR

M.Sowmiya
B Tech IT-IIIYEAR

B.Rohini
B Tech IT-IIIYEAR

S.Hemamalini
B Tech IT-IIIYEAR

Associate Editors

Dr.K.Muthukannan
Head of Department

Mr.S.Balaji
Assistant Professor

PEOs & POs

Program Educational Outcomes (PEOs)

PEO 1. To ensure graduates will be proficient and core competent by utilizing the fundamental knowledge of Basic Sciences, Engineering, Mathematics and Information Technology for the applications of various Engineering and Technology disciplines.

PEO 2. To enable graduates to think logically and will have the capacity to understand the social, business, environmental based hardware and software issues by designing optimal solutions through lifelong learning.

PEO 3. To enable graduates to gain employment in organizations and establish themselves as professionals by applying their technical skills to solve real world problems and meet the diversified needs of industry, academia and research.

PROGRAM OUTCOMES (POs)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. 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.

PO3. 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.

PO4. 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.

PO5. 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.

PO6: 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.

PO7: 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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: 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.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

HIGHLIGHTS OF THE DEPARTMENT

INTERNS @IT

Habishek R
III - IT
YOHO

Naveen S
III - IT
YOHO

Harishkumar P
III - IT
YOHO

Gobika R
III - IT
YOHO

Deepa S
III - IT
SEVAL SOFTWARE SOLUTIONS

Viji S
III - IT
SEVAL SOFTWARE SOLUTIONS

Sandip mondal
III - IT
SEVAL SOFTWARE SOLUTIONS

Udayakumar M
III- IT
POPULAR SYSTEM

N.Dinesh
III - IT
POPULAR SYSTEM

Abinaya M
II - IT
IN22LABS

Harshini P
II - IT
IN22LABS

Sangamithra S
II - IT
IN22LABS

Sowpathira v
II - IT
IN22LABS

GLIMPSES OF 2023 - 24

WORKSHOP

PYTHON TKINTER

The Workshop mainly focused on The Basic introduction of python and python Tkinter in the facto way in python to create Graphical User Interface (GUIs) and how they included in all standard python Distributions and its Python standard library.

PROJECT EXPO

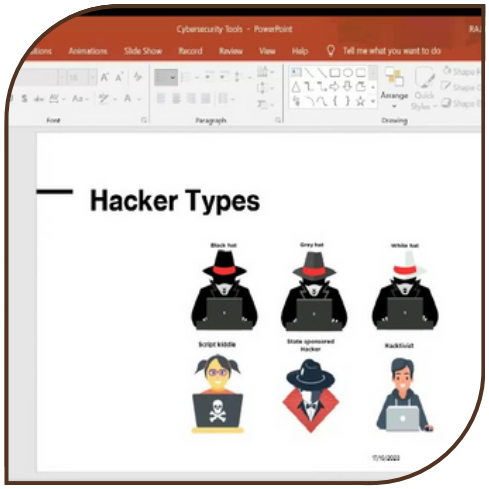
PROJECT EXPO

The Project Expo as been conducted on (20.11.2023) motivate the young budding engineering to enhance the creativity and innovation students from all department displayed their projects were evaluated and certificates have been awarded.

WEBINAR

INNOVATION STRATEGIES FOR TECHNOLOGY TRANSFER IN CYBER SECURITY THREATMITIGATION

The webinar provided an introductory overview of Cyber Security encompasses the practice of protecting systems ,networks, devices and data from digital attacks. It involves a range of technologies, processes and practices designed to safeguard information, prevent unauthorized access or damages and ensure the continuity of operations..



STUDENT ACHIEVEMENTS

SPORTS

Sowpathira, our student, participated in the college-level sports meet. She got first place in the 400 meters race and second place in the 400*400meter relay.

Hemamalini, our student, participated in the college-level sports meet. She achieved first place in the 800-meter race and second place in the 400x400 meters relay. Additionally, she secured a runner-up position at the Koo Koo competition.

Dinesh participated in the state-level sports day. He secured second place in the 200-meter race and achieved the runner-up position in the kabaddi match.

PPT PRESENTATION

Our students participated in the paper presentation at our college's Department of Electronics and Communication Engineering on the topic of Augemented Reality and Virtual Reality. We received second place.