

ZEAC PRESENTS



SRI RANGANATHAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
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Athipalayam, Coimbatore - 641 110. Web site: sriet.ac.in Ph: 0422 2697792



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COMPUTER SCIENCE COMPUTER

engineering

TECHNICAL 2021-2022

MAGAZINE

TECH

TRENDS





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About SRIET



Sri Ranganathar Institute of Engineering and Technology (SRIET), came into existence in 2011, out of an ardent desire of Dr. V. Narayanasamy to contribute manifold to the society that nurtured him. SRIET is an Innovative Educational Institution where the curiosity, creativity and intellectual joy of students all drive to academic excellence. Our Institution provides complex problem-solving skill and imbibes service to the public good. SRIET is defined by strong association and working in ways that excel in traditional boundaries SRIET's academic excellence is rooted in a student-centered model of learning. The Curriculum is an accurate approach to education that pushes the students to be creative thinkers, intellectual risk-takers and entrepreneurial problem-solvers. SRIET leaves students prepared to thrive as independent and innovative leaders and equipped with the tools they need to become the next generation of leaders in the respective fields.



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INSTITUTE VISION AND MISSION

VISION OF THE INSTITUTE

To be a unique Institution that enables students to become contributing Humans towards technology business and sustainability of natural world.

MISSION OF THE INSTITUTE

Our mission is to facilitate students with harmonious teaching and experiential learning by integrating industrial and societal needs with curriculum, providing requisite infrastructure facilities and imbibing ethical values.

QUALITY POLICY

SRIET is committed to provide quality learning experience to students by adopting continual improvements in management system, infrastructure and competence of faculties.



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ABOUT OUR DEPARTMENT

The Department of Computer Science and Engineering is committed to provide unique learning for innovation, impart knowledge in cutting edge technologies and aiming to be a key regional, national and international center for the development of computing and its application. The department offers B.E CSE Education with high technical quality through committed faculty, hardworking staff and students aimed towards job success and professional excellence.

The department is approved by AICTE and affiliated by Anna University, Chennai and has placed emphasis on the important aspects of computing in the areas such as Internet of Things (IoT), graphical database systems, cloud computing and many more. The department provides a learning platform for the students to achieve their computer and information technology career goals.



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DEPARTMENT VISION

Our vision is to empower students with cutting-edge software programming skills, adaptability to evolving technological landscapes, and heightened competence, ensuring their readiness for dynamic industrial challenges and optimizing their employability prospects.

DEPARTMENT MISSION

- ❖ Enlightening young generation with effective pedagogies hands-on practice and advanced skills.
- ❖ Stimulating the interest of students through add-on courses for better collaborative learning and employability.
- ❖ Providing guidance on innovative research and leadership proficiency.
- ❖ Inculcating human values along with social skills.





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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.



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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.



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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.



PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1 - Addressing societal problems through design and development of software and firmware solutions using latest Computer Science tools and technologies.

PSO2 - Involving enthusiastically in software development, software testing, storage, computing and business intelligence sectors





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PROGRAM EDUCATIONAL OUTCOMES

PEO1 - Have successful career or pursue higher studies and research or emerge as entrepreneurs

PEO2 - Indulge in problem identification, analysis and formulation to provide technically Superior, economically feasible, environmentally compatible and socially acceptable design Solutions in computer science and allied domains.

PEO3 - Contribute towards entrepreneurship, research, exercise and leadership through Effective communication, teamwork and knowledge up gradation through lifelong learning.





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EDITING MEMBERS

CHIEF EDITOR



Dr.S.LAVANYA, HoD/CSE.

FACULTY EDITOR



Mr. A. SURESH KUMAR

STUDENT EDITOR

Archana A

IV CSE

Selvabhuvaneswari S

III CSE

Karthika P

IICSE



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From Management's Desk:



Shri. V. Narayanasamy “Best Methods Man – Steel Foundry”, Chairman of SRI Group with 40+ years of rich Industry experience established Sri Ranganathar Institute of Engineering and Technology (SRIET) in 2011, an Industry Integrated Institute to offer quality Engineering Education



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From the Principal's Desk:



“Welcome to our SRIET, on behalf of all of our faculty, staff and students...”

In today’s competitive global world, a skilled technical education is becoming increasingly important for future success. As Principal, I am extremely proud of our college’s rich tradition of providing valuable, experience-based engineering education since its inception. Our programs prepare students to become leaders with the moral depth and intellectual rigor required to meet the challenges of a critical societal transition. We offer individualized, high-quality education delivered by an experienced and well-qualified faculty who bring objectivity and a practical focus to their classrooms. We attract students from a wide range of ethnic and cultural backgrounds, resulting in a vibrant and stimulating classroom environment. With this message, I’d like to wish all of our students, alumni, and future students a very positive and effective experience together.”

Warm regards,

Dr. K. P. Arul Shri, M.E., Ph.D.



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Message from HoD's Desk:



Warm greetings!!

A warm welcome to Computer Science and Engineering. The department has highly committed faculty fraternity with pioneering pedagogy, puts constant effort towards knowledge. "The Expert in anything was Once a Beginner". Begin enthusiastically, achieve greater heights

Warm regards

Dr.S. LAVANYA M. Tech,MBA., Ph.D. ASP/HOD



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

TOPPERS



A.ARCHANA
IV-CSE



S.SELVBHUVANESHWARI
III-CSE



P.KARTHIKA
II-CSE



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PRODUCT DEVELOPMENT

AI and IOT based Animal Recognition and Repelling System for Smart Farming

Agriculture automation has been on the rise leveraging, among others, Deep Neural Networks (DNN) and IoT for the development and deployment of many controlling, monitoring and tracking applications at a fine-grained level. In this rapidly evolving scenario, managing the relationship with the elements external to the agriculture ecosystem, such as wildlife, is a relevant open issue. One of the main concerns of today's farmers is protecting crops from wild animals' attacks. There are different traditional approaches to address this problem which can be lethal and non-lethal. Nevertheless, some of the traditional methods have environmental pollution effects on both humans and ungulates, while others are very expensive with high maintenance costs, with limited reliability and limited effectiveness. In this project, we develop a system, that combines AI Computer Vision using DCNN for detecting and recognizing animal species, and specific ultrasound emission for repelling them. The edge computing device activates the camera, then executes its DCNN software to identify the target, and if an animal is detected, it sends back a message to the Animal Repelling Module including the type of ultrasound to be generated according to the category of the animal.

PROJECT GUIDE

MR.M.SURESHKUMAR

ASSISTANT PROFESSOR/CSE

PROJECT MEMBERS

POOVENTHAN.S

PRABHAKARAN.K

TEERANKUAMR.J

VETRIVEL.E



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EMINENT PERSONALITIES

A. P. J. Abdul Kalam



A.P.J. Abdul Kalam, the former President of India, encouraged students to have a vision, be proactive, and take responsibility for their actions. He also believed that students should have the courage to think differently, dream big, and work hard.

His quotes for students include:

Have a vision ,Be proactive, Work hard, Learn from failure, Set goals, Be creative

by

Mr.B.DineshBabu

Assistant Professor

Department of Computer Science and Engineering.



PHOTOGRAPHY
JOTHIKA.S
IV-CSE





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AKASTIN P

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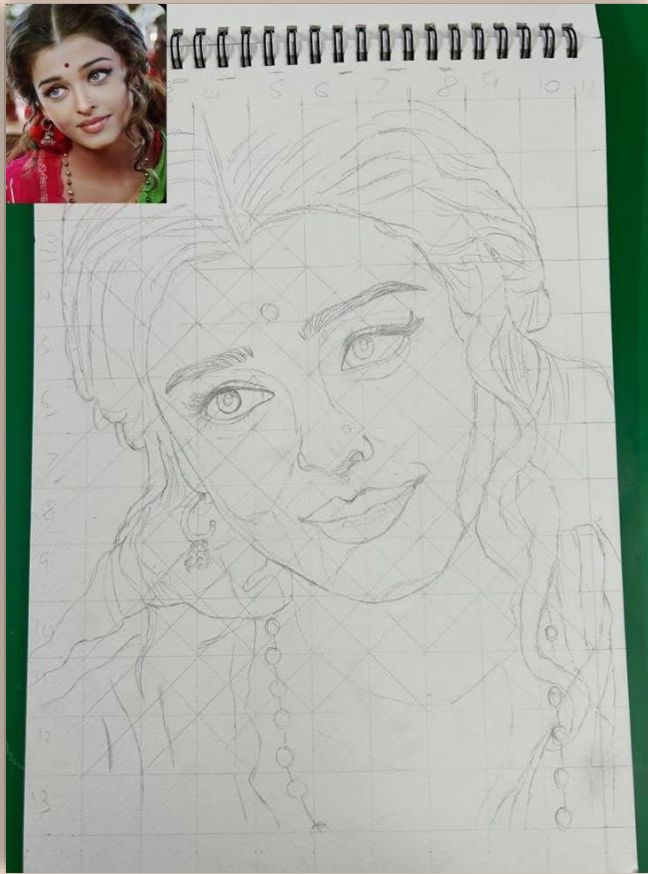


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ABIRAMI M
III-CSE





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TANSUSYA II-CSE





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PRINCY J

III-CSE





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PUZZLE

TAMIZHARASI A IV CSE

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POEM

A friend like you

A FRIEND LIKE YOU IS RARE TO FIND,
A HEART SO TRUE, SO WARM, SO KIND.
THROUGH DARKEST NIGHTS AND BRIGHTEST DAYS,
YOU LIGHT MY PATH IN COUNTLESS WAYS.

YOU SHARE MY LAUGHTER, DRY MY TEARS,
STAND BY MY SIDE THROUGH ALL THE YEARS.
NO MOUNTAIN HIGH, NO OCEAN WIDE,
COULD BREAK THE BOND WE HOLD INSIDE.

IN WHISPERED DREAMS OR STORMS THAT RAGE,
YOU TURN MY FEAR TO COURAGE BRAVE.
THROUGH EVERY TRIAL, THICK AND THIN,
A FRIEND LIKE YOU—MY GREATEST WIN.

By
ARCHANA A IV CSE



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ARTICLE

Top 5 Growing technology Trends for 2021:

1. BIG DATA
2. ARTIFICIAL INTELLIGENCE
3. EDGE COMPUTING
4. CYBERSECURITY
5. VIRTUAL REALITY (VR)



By **Mr. M.Sureshkumar** AP/CSE



TECHNOLOGY QUIZ

1. What is the official programming language for Android development?

- a) Java
- b) Python
- c) Swift
- d) Kotlin

2. What is the purpose of AndroidManifest.xml?

- a) To define app permissions and components
- b) To store user preferences
- c) To manage app databases
- d) To design UI layouts

3. Which component is used to create a user interface in Android?

- a) View
- b) Intent
- c) Service
- d) Broadcast

4. What does APK stand for?

- a) Android Program Kit
- b) Android Package Kit
- c) Advanced Programming Kit
- d) Application Processing Kit

5. Which file format is used to store UI layouts in Android?

- a) .json
- b) .xml
- c) .html
- d) .css



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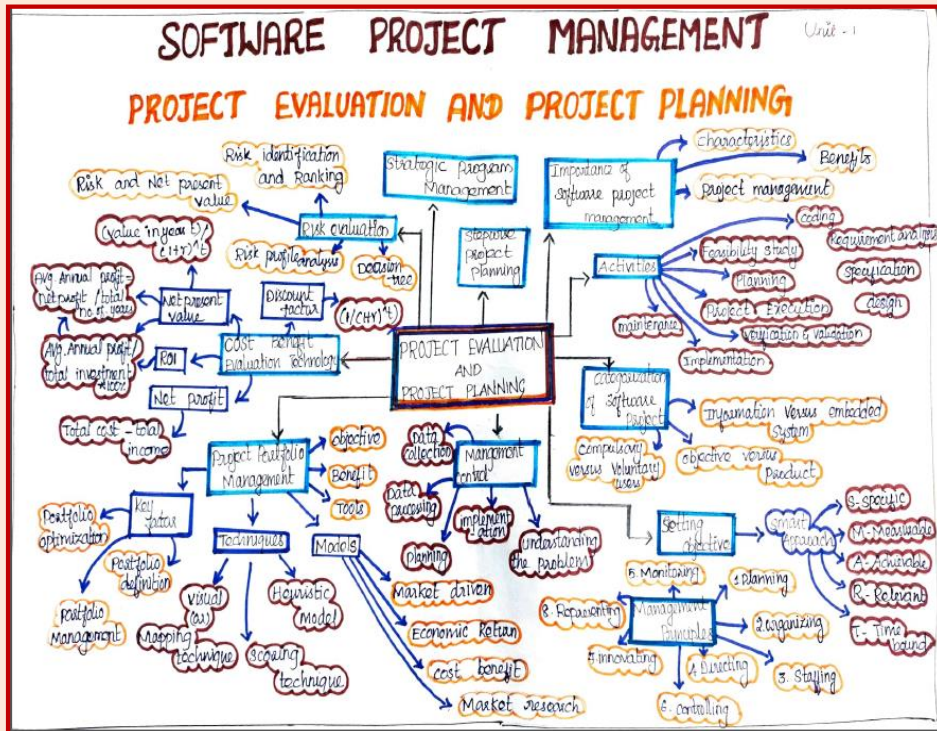
AJITH R IV CSE

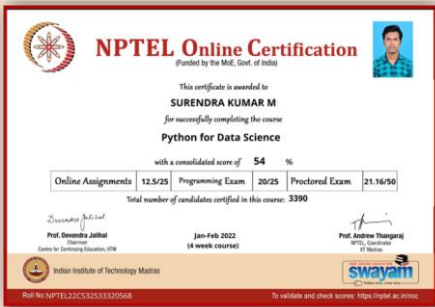


SATHISH .R II CSE

The right classroom activities can transform the way students learn

Concept Map

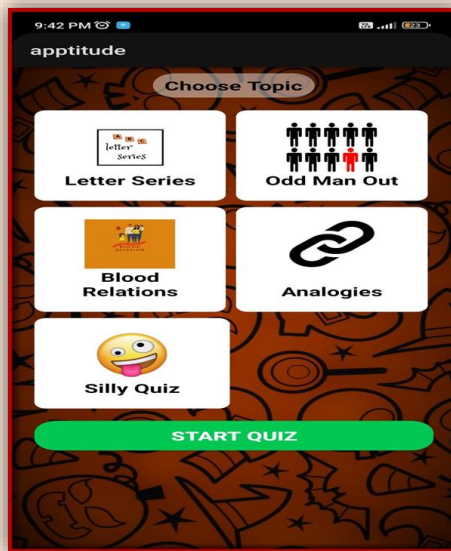




STUDENT ACHIEVEMENT



Students won prize in Quiz and Code Debugging



Android App Development



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