



**SUSTAINABLE
DEVELOPMENT
GOALS**

SKCT supports the Sustainable Development Goals

**Sri Krishna
College of Technology**

An Autonomous Institution
Affiliated to Anna University and Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR CAMPUS, COIMBATORE - 641 042.

**VOL 24 - ISSUE 28
DEC 22 - DEC 28, 2024**

SKCT

DIGEST

THE PRIDE OF OUR REFLECTION



ISBN NUMBER



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Engineering is the art of directing
the great sources of power in nature
for the use and convenience of man
- **Thomas Tredgold**

Contact Us

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📍 Kovaipudur,
Coimbatore - 641 042.

JULY TO DECEMBER - NPTEL ACHIEVEMENTS





SKCT supports the Sustainable Development Goals



SUSTAINABLE DEVELOPMENT GOALS



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NBA ACCREDITED



NIRF ACCREDITED



INSTITUTION'S INNOVATION COUNCIL

SKCT DIGEST

VOL 24 - ISSUE 28

DEC 22 - DEC 28, 2024

NEW YEAR 2025 CELEBRATIONS



ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

FACULTY PARTICIPATION



Mr Arun Kumar R Asst.Professor, successfully completed the **AICTE-ATAL** Online FDP on “**AI – Driven Solutions For Modern Cybersecurity Challenges**” organized by **Ramco Institute of Technology**.



ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

FACULTY PARTICIPATION



Ms Deepa P Asst.Professor, successfully completed the **AICTE-ATAL** online FDP on “**Introduction to IoT and Machine Learning: Essential Skills for Smart Cities and Mobility**” organized by **GOVT. POLYTECHNIC HAMIRPUR**.



CSE(AIML)

FACULTY PARTICIPATION



Dr Suma Sira Jacob Associate Professor, successfully completed the AICTE-ATAL online FDP on **“Next Generation Smart Grids for Sustainable Power Systems: The Path from Industry 4.0 to 5.0”** organized by the **Sri Krishna College of Technology** during 2-7 December 2024.



CSE(AIML)

FACULTY PARTICIPATION



Dr Suma Sira Jacob Associate Professor successfully completed an Online course on **“Edge Computing Fundamentals”** through Coursera on 21 December 2024.



Dr Suma Sira Jacob Associate Professor successfully completed an online course on **“Protecting Business Innovations via Strategy”** through Coursera on 21 December 2024



CSE(AIML)

FACULTY PARTICIPATION



Dr Naveenbalaji G Asst.Professor successfully completed the **AICTE-ATAL** online FDP on **“Artificial Intelligence and its Applications in Business Management”** organized by the **Asian School of Business** during 16-21 December 2024.



CSE(CYS)

FACULTY PARTICIPATION



Ms Sugitha A Asst.Professor successfully completed the **AICTE-ATAL** online FDP on **“Responsible AI”** organized by the **PSG College of Technology** during 9-14 December 2024



CIVIL ENGINEERING

FACULTY ACHIEVEMENTS



Dr P Subashree Associate .Professor, Dr G Selina Ruby Asst.Professor and Mr R Ramesh, Asst.Professor successfully completed the AICTE QIP PG Certification Program in Artificial Intelligence and Data Science at IIT Kottayam.



CIVIL ENGINEERING


FACULTY ACHIEVEMENTS



Dr N Shanmugasundaram Asst.Professor has been recognized as **Anna University Research Supervisor (Ref.No.4410016)**.




Dr N Shanmugasundaram
AP Civil

 **CENTRE FOR RESEARCH**
ANNA UNIVERSITY
CHENNAI - 600 025

Dr. C. UMARANI
DIRECTOR

Telephone : +91-44-22351354
Email : director@annauniv.edu
dirresearch@gmail.com



Lr. No: SUPRIAR2
Date : 19.12.2024

To
Dr. Shanmugasundaram N
Assistant Professor
Department of Civil Engineering
Sri Krishna College of Technology
Kovaipudur, Coimbatore-641042

Sir/Madam,

Sub : Ph.D Programme - Supervisor Recognition - Approved - Orders - Issued.
Ref : Your application for Supervisor Recognition.


I am by direction to inform that you are recognized as a Supervisor (Ref.No: 4410016) for guiding Ph.D. scholars of this University under the faculty of Civil Engineering.

Area of Specialization: "Engineered Cementitious Composites, Sustainable Building Materials, Concrete Technology, Material Characterization"

The functions and responsibilities of the supervisor are described under clause (7.0) of the Ph.D. Regulations of this University and applicable as and when amendments are made to the Regulations from time to time.


It should be noted that Supervisors should create their profile using the "New Registration" tab under the "Supervisor web portal" available on the homepage of the Centre for Research website. Supervisors are expected to strictly adhere to the Ph.D. Regulations (refer to CFR website) when they begin guiding the scholars.

Further for any correspondence in future quote 4410016 for reference.


DIRECTOR

Copy to:

The Head
Department of Civil Engineering
Sri Krishna College of Technology
Kovaipudur, Coimbatore-641042


19/12/24

CIVIL ENGINEERING

FACULTY ACHIEVEMENTS



Mr Manoj K M, Asst.Professor, published an article titled "Evaluation of the Antifungal Properties of Rosmarinus Officinalis (L.) Essential Oil for Managing Fungal Plant Pathogens" in Oxidation Communications Journal (Scopus indexed).



Mr Manoj K M
AP Civil

Oxidation Communications 47, No 4, 1-1 (2024)

3973

EVALUATION OF THE ANTIFUNGAL PROPERTIES OF *Rosmarinus officinalis* (L.) ESSENTIAL OIL FOR MANAGING FUNGAL PLANT PATHOGENS

K. M. MANOJ^{a*}, J. SUNEETHA^b, P. HEMA PRABHA^c,
N. MUTHUKUMARAN^d, M. VADIVEL^e, RUPESH GUPTA^f,
JIM MATHEW PHILIP^g

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^cDepartment of Food Technology and Agricultural Engineering, Nehru Institute of Technology, Coimbatore, India

^dDepartment of Civil Engineering, VSB College of Engineering Technical Campus, 642 109 Coimbatore, India

^eCivil Engineering Department, Nehru Institute of Technology, 641 105 Coimbatore, India

^fChitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India

^gDepartment of Computer Science and Engineering, Sri Ramakrishna Institute of Technology, Coimbatore, Tamil Nadu, India

ABSTRACT

The troubles of synthetic fungicides' effects on the environment and the enhanced resistance of phytopathogenic fungi to them are adding up pressures for carrying out research by natural and environmentally-friendly antifungal agents. For this study, the extraction of the oil from *Rosmarinus officinalis* was done using hydro distillation process and identification of the chemical compounds present in the extract was

CIVIL ENGINEERING

FACULTY PARTICIPATION



Dr V Sreevidya Professor & Head, Dr V Sathish Kumar Assoc.Professor, Dr N Shanmugasundaram and Mr. G. Jaya Kumar Asst Professor, successfully completed ATAL FDP on Disaster Risk Reduction through Sustainable Infrastructure.



CIVIL ENGINEERING

EVENTS



The Department of Civil Engineering students

(25 Students) had visited **M/s. A.N.D Valves and Castings India Pvt Ltd** located at **Madukkarai** on **23.12.2024** as a part of **Industrial Exposure Visit** sponsored by **Standards club of BIS.**



COMPUTER SCIENCE AND ENGINEERING

FACULTY PARTICIPATION



Dr Udhayamoorthi M
 Asst.Professor , successfully completed five days **online FDP** on **‘Speech recognition and text analytics using Generative AI’** organized by **Stanley college of Engineering and Technology, Hyderabad**



Dr Udhayamoorthi M
 successfully completed the course **“Introduction to Generative AI”** offered by **Google cloud skill learning and Threat Modeling**. Next **“Gen Technologies”** offered by **Infosys Springboard**



COMPUTER SCIENCE AND ENGINEERING

FACULTY PARTICIPATION



Ms M Kavitha Margret
Asst.Professor successfully completed a online course on **Computational Theory: Language Principle & Finite Automata Theory** from **Infosys Springboard**.



Ms M Kavitha Margret
Asst.Professor successfully completed an **FDP** on **“Integrating AI, Supercomputing And Quantum Computing For Future Innovation”** organized by **Sengunthar Engineering College**.



COMPUTER SCIENCE AND ENGINEERING

FACULTY PARTICIPATION



Ms G Sandhya, Asst Professor, completed the online course **“Software Design and Development: Object-oriented Analysis and Design”** on 13.12.2024 offered by **Infosys Springboard**.



COMPUTER SCIENCE AND ENGINEERING

STUDENT PARTICIPATION



Ms Thilagavathi K , Student of Third B.E.CSE C completed the various courses offered by **MICROSOFT** official certification.

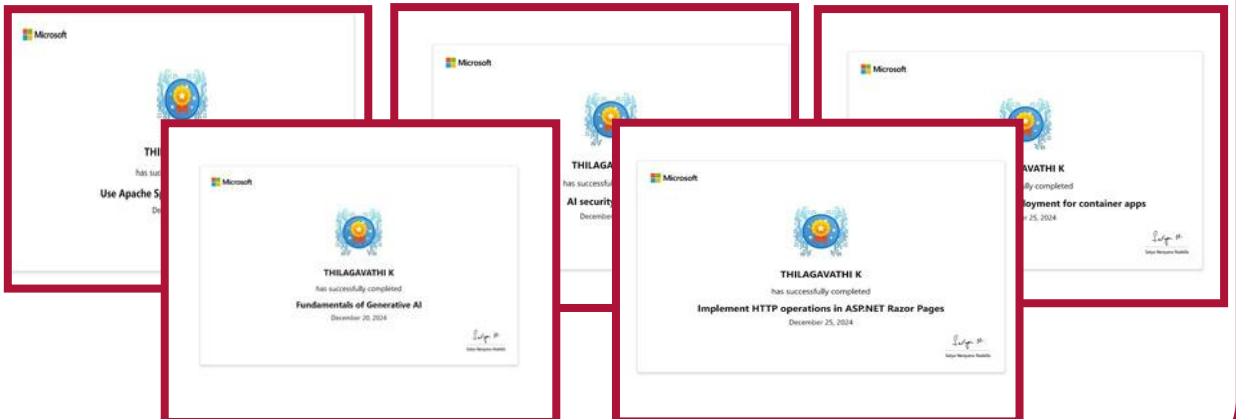
1. Use Apache Spark in Microsoft Fabric

2. AI security controls

3. Configure continuous deployment for container apps

4. Fundamentals of Generative AI

5. Implement HTTP operations in ASP.NET Razor



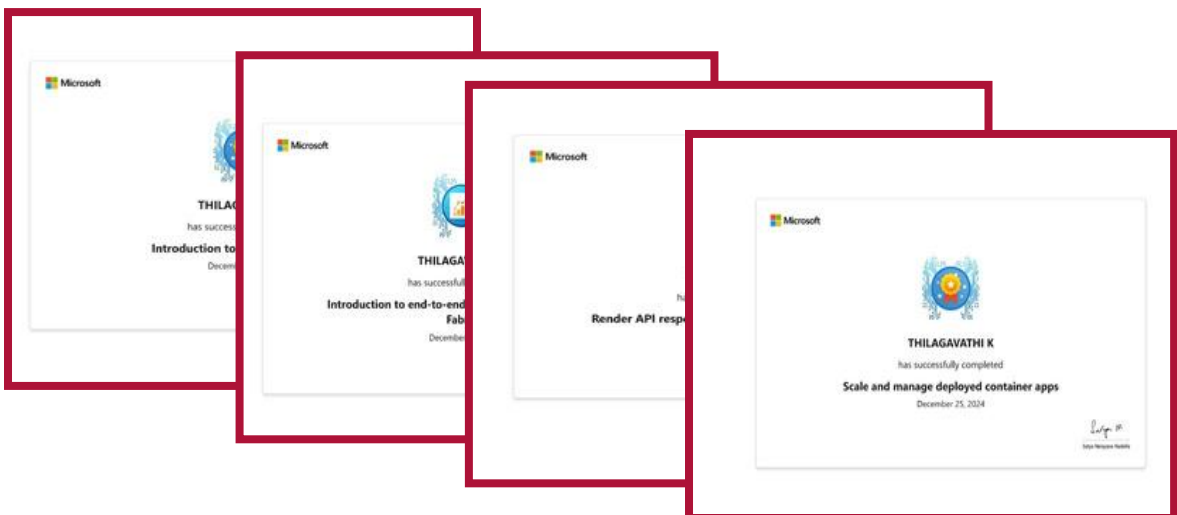
COMPUTER SCIENCE AND ENGINEERING

STUDENT PARTICIPATION



Ms Thilagavathi K , Student of Third B.E.CSE C completed the various courses offered by **MICROSOFT official certification.**

- 1.Introduction to AI security testing**
- 2. Introduction to end-to-end analytics using Microsoft Fabric**
- 3. .Render API responses in ASP.NET Core Razor Pages**
- 4. Scale and manage deployed container apps**



COMPUTER SCIENCE AND ENGINEERING

STUDENT PARTICIPATION



Ms Thilagavathi student of Third B.E.CSE-C participated in **AICTE activity points** by **donating** to a **children's home** and encouraging the children to actively engage in transformative thinking.



COMPUTER SCIENCE AND ENGINEERING

STUDENT PARTICIPATION



Ms Shalini K student Second of CSE D, involved in encouraging people to **adopt safety practices like wearing masks and sanitizing hands frequently** also **distributed the masks and hand sanitizer** to those in need, ensuring **access to basic protective measures.**



Ms Shalini K student Second of CSE D, successfully completed the **AWS Certified Developer course certification** from **Infosys Springboard**



ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT INTERNSHIP



Mr F Shahin Ahmed, Student of Final Year B.E. ECE undergone an abroad Internship at **Smart Payments Collections LLC, United Arab Emirates.**



ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PARTICIPATION



Dr K Muthulakshmi, Professor, attended the AICTE-ATAL FDP on **“Building Services in Smart City Through IoT-Edge-Fog-Cloud Federation”** organized by the National Institute of Technology Warangal during 9 - 14 December 2024.

Dr K Muthulakshmi, Professor, attended the AICTE-ATAL FDP on **“Introduction to IoT and Machine Learning: Essential Skills for Smart Cities and Mobility”** organized by the Govt. Polytechnic Hamirpur during 16 - 21 December 2024



ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PARTICIPATION

Mr G Santhakumar, Asst. Professor, attended the AICTE-ATAL FDP on **“Advanced Solutions for Space Exploration and Modern Defense System”** organized by the **IIIT Kottayam** during 2-7 December 2024.

Mr M Kalimuthu, Asst. Professor, attended the AICTE-ATAL FDP on **“Automating Excellence: FDP on Robotics and Process Automation”** organized by the **Er. Perumal Manimekalai Polytechnic College** during 16 - 22 August 2024.



ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PARTICIPATION



Dr P Divya, Asst. Professor, attended the AICTE-ATL FDP on “Leveraging Healthcare: Innovations, Technology and Applications” organized by the National Institute of Technology Delhi during 16 - 21 December 2024.

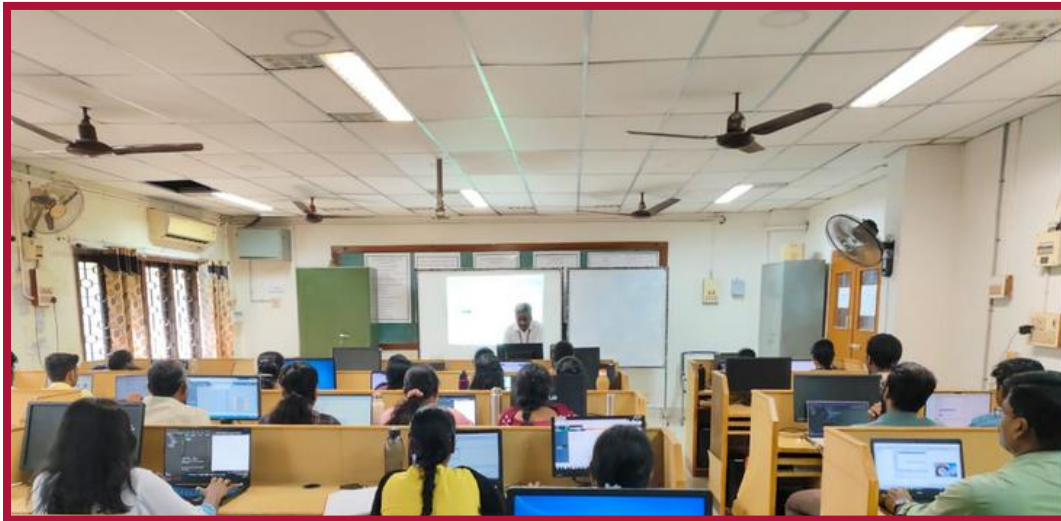


ELECTRONICS AND COMMUNICATION ENGINEERING

GUEST LECTURE



Mr V Suresh Babu, Asst. Professor, delivered a guest lecture on "**Latex for Scientific Writing**" for the Faculties and Students of ECE , **Madras Institute of Technology**, Chennai on 23 December 2024.



ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PARTICIPATION



Dr S Nithya Devi, Asst. Professor, attended the **AICTE-ATAL FDP** on **“Quantum Computing”** organized by the **Dhanalakshmi Srinivasan Engineering College** during 16 - 21 December 2024.



ELECTRICAL AND ELECTRONICS ENGINEERING

FACULTY PARTICIPATION



Dr Ajith.B.Singh, Dr Dilipkumar S and Dr Suresh K P, Asst Professors successfully completed one week ATAL faculty development program on **“Climatic Crisis and Mitigation through Sustainable Development of Energy and Environment Systems”** organized by Sri Krishna College of Engineering and Technology, Coimbatore, from 16 to 21 December, 2024.



ELECTRICAL AND ELECTRONICS ENGINEERING

FACULTY PARTICIPATION



Dr Jaisiva S and Mr Harish R, Asst Professor, have been appreciated for reviewing research articles for **“International Conference on Communication, Computing & Industry 6.0 - 2024 (C216-2024)”** organized by **CMR Institute of Technology**, Bengaluru from 06 to 07 December, 2024.



MECHANICAL ENGINEERING

EVENTS



SKCT ISHRAE Student Chapter organized an awareness event for our students on **6 simple tips to lower the energy cost of AC.**



MECHANICAL ENGINEERING

FACULTY PARTICIPATION



Mr M Rajeswaran, Asst.Professor, under the supervision of Dr P Prathap, Professor and head, conducted the **synopsis meeting**.



MECHANICAL ENGINEERING

STUDENT PARTICIPATION



Mr Navayugan and Ms Hanukshiya Students of First Mechanical Engineering are undergoing 1-week **Industrial practice training** at **Exide Industries Limited, Bengaluru.**



SCIENCE AND HUMANITIES

FACULTY PARTICIPATION



Dr N Venugopal Assoc.Professor and **Dr B Kogilavani** Asst Professor, Successfully completed an online International **Faculty Development Program “Working with Emotional Intelligence and Life Skills Management”** Organized By **Bapatla Engineering College** in collaboration with **ELTAI** during 2-6 of December



SCIENCE AND HUMANITIES

FACULTY PARTICIPATION



Dr N Nalini, Assistant Professor successfully completed **13 coursera courses** in her field of expertise.

- Create an infographic in Canva.
- Create a storyboard using Canva.
- Finding, sorting, and filtering data in Microsoft Excel.
- Editing the table of contents and layout in Microsoft Word.
- Student self-assessment with Microsoft Word.
- Create a newsletter in Microsoft Word.
- Using animations and transitions in Microsoft PowerPoint.
- Getting started with Microsoft Excel.
- Conditional formatting, tables, and charts in Microsoft Excel.
- Excel for beginners - advanced functions.
- Make a table of contents, footnotes, and more with Microsoft Word.
- Getting started with Microsoft PowerPoint.
- Advanced use of PowerPoint for presentations.



SCIENCE AND HUMANITIES

FACULTY PARTICIPATION



Ms V Tharakeswari , Asst Professor Completed an online course on "**Graph Data Structures: Representing Graphs Using Matrices, Lists, & Sets**", "**Data Structures & Algorithms in Python: Implementing Trees & Graphs**" through Infosys Springboard.



SCIENCE AND HUMANITIES

FACULTY PARTICIPATION



Dr B Haripriya, participated in the one week FDP on “Statistical Applications and Data Analytics for Modern Research” organized by the Department of Mathematics, **SRM Institute of Science and Technology**, Chennai during 17-22 December.



SCIENCE AND HUMANITIES

FACULTY ACHIEVEMENTS

Dr T Bhavani Asst.Professor received the **Faculty Excellent Award** from **SNS institutions** under the category of **Creative and Innovation Faculty Award** .



SCIENCE AND HUMANITIES

FACULTY ACHIEVEMENTS



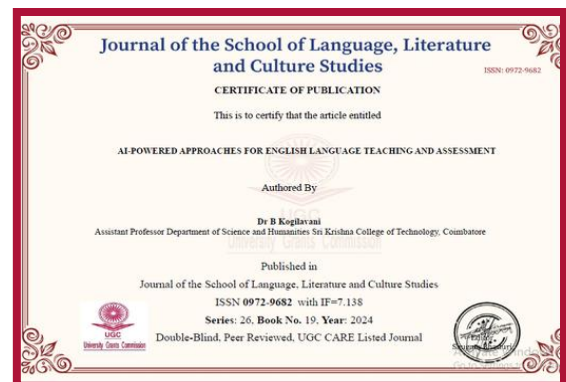
Dr B Kogilavani Asst.Professor published a paper titled **“AI-Powered Approach for English Language Teaching and Assessment”** her paper was published in **UGC List.** .

AI-POWERED APPROACHES FOR ENGLISH LANGUAGE TEACHING AND ASSESSMENT
AI-POWERED APPROACHES FOR ENGLISH LANGUAGE TEACHING AND ASSESSMENT

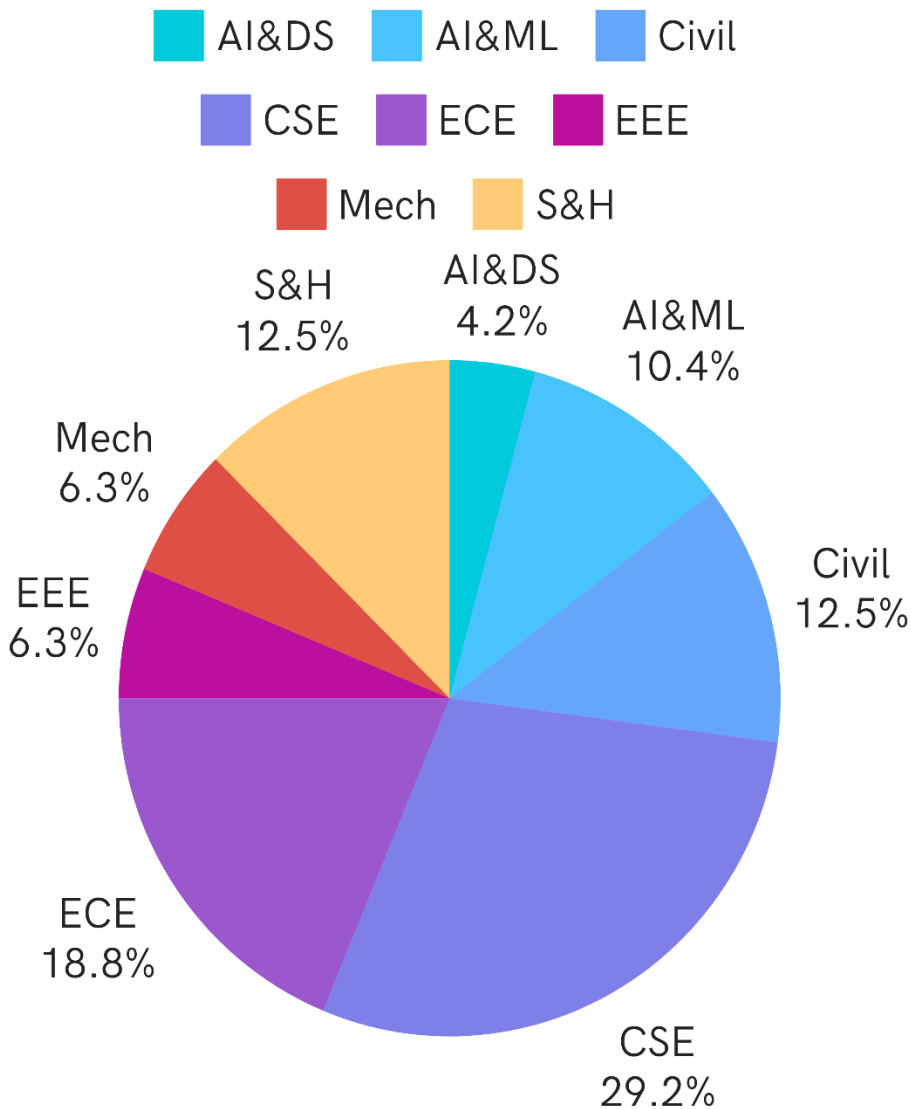
Dr B Kogilavani Assistant Professor Department of Science and Humanities Sri Krishna College of Technology, Coimbatore. kogilavani.b@skct.edu.in
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Ms S Sangeetha Assistant Professor Department of Science and Humanities Hindusthan College of Engineering and Technology, Coimbatore

Abstract

Education has undergone a technological revolution, opening up new possibilities for English language instruction and assessment. This abstract explores the impact of technology on English language education, focusing on its role in enhancing instructional methods and assessment techniques. The integration of technology in the classroom has allowed for more interactive and engaging learning experiences, promoting active participation and improving student motivation. Additionally, digital tools and platforms offer personalized and adaptive learning environments, catering to individual learner needs and facilitating language acquisition. In terms of assessment, technology has facilitated the development of innovative testing methods, including online assessments, simulations, and multimedia presentations, allowing for more authentic and comprehensive evaluation of language proficiency. Even while technology has many advantages, there are drawbacks as well. For example, having digital literacy skills is necessary, as is making sure that everyone has equal access to technological resources. This abstract highlights the potential of technology in transforming English language teaching and testing, while acknowledging the importance of addressing the associated challenges to ensure its effective implementation.



CONTENT CONTRIBUTIONS BY THE DEPARTMENTS





SKCT supports the Sustainable Development Goals



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Principal

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Mechanical Engineering

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Assistant Professor
English

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- Ms S Jaya Preethi, AP/MBA
- Dr B Kogilavani, AP/English

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Mr Nithin S
I B.E. CSE (Cys)

Mr R Yashwanthraja
III B.E. Mechanical Engineering

Mr T Lokesh
IV B.Tech. ADS



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