



NEWSLETTER
DEPARTMENT OF MECHANICAL
ENGINEERING

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ACADEMIC YEAR 2023-24

KEC-MECH-NEWSLETTER

CONTENTS

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EDITORIAL COMMITTEE

Name of the editors



Mr.S.Mahendiran

HOD/Mech



Dr.N.Shankar Ganesh

Prof./Mech

Publisher: Department of Department of Mechanical Engineering

DEPARTMENT VISION

The department of Mechanical Engineering strives to develop skilled, competent, ethical and versatile mechanical engineers capable of designing, developing and analyzing the complex problems and implementation of emerging engineering technologies, to solve the real time problems.

DEPARTMENT MISSION

- To impart quality education to the students to build their capacity and enhance their skills to make them globally competitive mechanical engineers.
- To maintain a vital, state-of-the-art research enterprise to provide our students and faculty with opportunities to create, interpret, apply and disseminate knowledge.
- To prepare our graduates to pursue life-long learning, serve the profession and society and develop intellectual, ethical and career challenges.

EVENTS CONDUCTED



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)

DEPARTMENT OF MECHANICAL ENGINEERING

Organizes

TWO DAYS HANDS ON TRAINING ON TESTING WITHOUT DESTRUCTION
(Non-Destructive Testing and Evaluation)

on 19th & 20th Feb, 2024 @ 10.00 am

Venue : Anna Hall



Presidential Address
Thiru. D.M.Kathir Anand, M.B.A.(USA)
Member of Parliament, Vellore Constituency,
Chairman, Kingston Group of Institutions,
Vellore.

Chief Guest
Mr. M.Selvin Immanuel,
NDT Engineer,
SIS Institute of NDT,
Chennai.

Felicitation
Dr. U.V.Arivazhagu, M.E., Ph.D.,
Principal,
Kingston Engineering College,
Vellore.

Welcome Address
Mr. S.Mahendiran,
HOD - Department of Mech & Civil Engineering,
Kingston Engineering College,
Vellore.

Programme Schedule

Day-1

- 10:00 am : Inauguration at Anna Hall
- 10:15 am : Welcome Address
Mr. S.Mahendiran
HOD- Department of Mech & Civil Engineering,
Kingston Engineering College, Vellore.
- 10:25 am : Felicitation
Dr. U.V.Arivazhagu, M.E., Ph.D.,
Principal, Kingston Engineering College, Vellore.
- 10:40 am : Presidential Address
Thiru. D.M.Kathir Anand, MBA (USA).
Member of Parliament, Vellore Constituency,
Chairman, Kingston Group of Institutions, Vellore.
- 11:00 am : Chief Guest Introduction
- 11:25 am : Tea Break
- 11:40 am : Address by Chief Guest on NDT Methods
- 01:00 pm : Lunch
- 02:00 pm : Hands on training on Surface Inspection Testing - LPT, HPT
- 03:00 pm : Tea Break
- 04:00 pm : End of Day 1

Day-2

- 09:00 am : NDT Evaluation Methods
- 11:25 am : Tea Break
- 01:00 pm : Lunch
- 02:00 pm : Hands on training on Surface Inspection Testing - UT
- 03:00 pm : Tea Break
- 04:15 pm : Vote of Thanks
Mr. H.Dineshkumar,
Asst. Prof /Mech,
Kingston Engineering College, Vellore.
- 04:25 pm : National Anthem

☎ 0416-2258200,

🌐 www.kingston.ac.in,

📍 Chittoor Main Road, Vellore - 632058,

Invitation for the event



Students having hands on experience on NDT with the trianer

INDUSTRIAL VISITS ORGANIZED

S.No	Date of Visit	Name of the Company	Year & Section	No of Students	Faculty Accompanied
1	06.10.23 & 07.10.23	Kundah Power House, Ooty	IV Year	17	Mr.H.Dineshkumar
2	24.11.2023	Ashok Leyland Unit-1, Hosur	II, III & IV Year	41	Mr.H.Dineshkumar, Mr.Aswathy C Nair,
3	28.02.24	Neyveli Lignite Corporation (NLC), Neyveli	II & III Year	30	Mr.H.Dineshkumar, Mr.Aswathy C Nair,
4	18.03.24	FESTO CORPORATION, Bangalore	II & III Year	30	Mr S V Charunnath Mr R Vigneshvaran
5	12.04.24	Madras Atomic Power Corporation, Kalpakkam, Chennai	II & III Year	30	Mr.H.Dineshkumar, Mr.Aswathy C Nair,



IV Year Mechanical – Kundah Power House, Ooty Industrial Visit



II, III & IV Year Mechanical – Ashok Leyland Hosur Visit



II & III Year Mechanical – NLC Industrial Visit



II & III Year Mechanical – Festo Corp, Bengaluru Industrial Visit



**II & III Year Mechanical – Madras Atomic Power Station
Industrial Visit**

INTERNSHIPS UNDERGONE BY STUDENTS

S.No	Register Number	Name of the Student	Class/ Section	Name & Address of the Company	Dates		Duration
					From	to	
1	511320114007	Neha mahesh	IV Year	Renault Nissan Business centre	01.11.23	Till date	10 Months
2	511321114003	Nadheesan S	III Year	Eesa Fabricator Pvt Ltd	18.01.24	31.01.24	15 days
3	511321114003	Sanjay S	III Year	Eesa Fabricator Pvt Ltd	18.01.24	31.01.24	15 days
4	511321114003	Ragul Gandhi R	III Year	Eesa Fabricator Pvt Ltd	18.01.24	31.01.24	15 days
5	511320114006	Naveen T	IV Year	India Japan Lighting company	02.01.24	29.02.24	56 days



INDIA JAPAN LIGHTING PRIVATE LIMITED

Chennai Factory :
No.1 Tiruvallur High Road,
Puduchatram (PO),
Thirumazhisai (via),
Chennai, Tamilnadu, India
Pincode - 600 124
Ph : 044-3910 6210

29.02.2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Naveen .T (Reg. NO: 511320114006) fourth Year B.E (Mechanical Engineering) student of Kingston Engineering College, Vellore, has successfully completed the Internship in our organization "INDIA JAPAN LIGHTING PRIVATE LIMITED" from 02/01/2024 to 29/02/2024

We appreciate the efforts taken by him during this period we wish him all success.

During the above period his conduct and character were found good.

For India Japan Lighting Pvt. Ltd.

N. Sridevi

Deputy Manager

Skill Development Centre

HR



PAN : AABCE9556D
GSTIN : 33AABCE9556D1ZR
CIN : U29268TN2008PTC067146

05th Feb 2024

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. **SANJAY S (Reg No. 511321114006)**, a Student of B.E (Mechanical), Kingston Engineering College, Vellore, Tamil Nadu has successfully completed Fifteen Days Internship Training from 18-01-2024 to 31.01.2024 with us at EESA Fabricator Private Limited.

During the period of his Internship Training, he was punctual, hardworking and inquisitive.

We wish him every success in life.

For EESA Fabricator Private Limited

Managing Director
(T A Senthil Vel)

EESA Fabricator Private Limited
(An ISO 9001:2015 Company)

259A, NH4, Thiruvalluvar University Post
Vellore 632115, Tamil Nadu

+91 94890 15159
+91 416 2915159

contactus@eesafpi.com
www.eesafpi.com

FACULTY ACHIEVEMENTS

S.No.	Name of the Participant	Designation	Title of the FDP/MDP/Professional Development/Administrative Training Program	Period
1.	Vigneshvaran R	Assistant Professor	Train the Trainer program on Digital Productivity and AI Fluency	06-10-2023 to 14-10-2023
2.	Mr.S.Rudramoorthy	Assistant Professor	Employability Skills – Ethnus (E2324)	07.05.2024



BOOK CHAPTERS PUBLISHED

S.No.	Name of the Teacher	Title of the book chapters published	Year	ISBN Number of the Proceeding	Name of the Publisher	Web Link
1.	Dr.N.Shankar Ganesh	Impact of Emulsified Bio-Fuel on the Environment	2023 July	978-981-99-3002-9_7 Bioenergy-pp 99 - 113,	Springer	https://doi.org/10.1007/978-981-99-3002-9_7

PAPERS PUBLISHED

S. No.	Title of the Paper	Name of the Authors	Name of the Journal	Year	ISSN No.	Indexing
1.	Mechanical and tribological behaviour of mg-matrix composites manufactured by stir casting	V.Mohanavel, M.M.Ravikumar	International Journal of Vehicle Structures and Systems	2019 May	0975-3060, 0975-3540	Scopus
2.	Experimental investigation on mechanical properties of AA7075 AIN composites	V.Mohanavel	Materials Testing	2019 May	2254-3697	Scopus
3.	Feasibility and emission study on employing MgO nanoparticle as oxygenated additive in neat biodiesel	Mohanavel Vinayagam, M.M.Ravikumar, S.Mahendiran	International journal of Ambient Energy	2019 May	0143-0750 (Print) 2162-8246 (Online)	Scopus
4.	Impact of nozzle opening pressure on the performance and emission behaviors of CI engine using Yellow Oleander Biodiesel	V.Mohanavel	International journal of Ambient Energy	2019 May	0143-0750 (Print) 2162-8246 (Online)	Scopus
5.	Tribological and mechanical behaviour of composites fabricated via compo casting, stir casting and in situ casting – An overview	V.Mohanavel, M.M.Ravikummar, S.Mahendiran	Journal of the Balkan Tribological Association	2019	1310-4772	Scopus
	An integrated approach for performance evaluation of suppliers in manufacturing industries	M.M.Ravikumar	International Journal of Services and Operations Management	2019 Mar.	1744-2389 (Online) 1744-2370 (Print)	Scopus
	Development of Optimized Energy System	N.Shankar Ganesh, S.Mahendiran, and D.Manivannan	Energy and Environment	2019 Mar.	0958-305X, 2048-4070	Scopus
	Influence of ZrB ₂ on the microstructural characteristics of AA6082/ZrB ₂ composites	Vinayagam Mohanavel	Materials and Technology	2018	1580-2949 E-ISSN: 1580-3414	Scopus
	Effect of ZrB ₂ content on mechanical and	V. Mohanavel	International Journal of	2018	22147853	Scopus

	microstructural characterization of AA6093 aluminium matrix composites		Materials Today Proceedings			
	Parametric optimization of friction welded 17-4 PH SS alloy using Tahuchi techniques	V,Mohanavel and M.M.Ravikumar	Progress in Industrial Ecology	2018 Oct.	1478-8764 (Online) 1476-8917 (Print)	Scopus
	Nuclear energy – driven Kalina cycle suitable for Indian climatic conditions	N.Shankar Ganesh	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2018 Sep.	1556-2036	Scopus
	IWF based optimization of porous insert configurations for heat transfer enhancement using CFD	V.Mohanavel	Journal of Applied Fluid Mechanics	2018 July	1735-3572	Scopus

PATENTS PUBLISHED

S.No .	Name of the Faculty	Title of the Patent	Application Number
1	N. Shankar Ganesh, Mr. D.Manivannan and Pradeep Kumar A R,	Integrated Organic Rankine Cycle Power Generation and Ejector Refrigeration Systems using Waste Heat Recovery from Multifuel Research Engine and A Method Thereof	20224100471 4 A



रज. सं./SL No. 044185183



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 529734
आवेदन सं. / Application No. : 201741046830
प्रस्तुत करने की तारीख / Date of Filing : 27/12/2017
पेटेटी / Patentee : NARAYANAN, Shankar Ganesh

प्रमाणित किया जाता है कि पेटेटी को, उपरोक्त आवेदन में यथावस्थित *THERMODYNAMIC CYCLE BASED POWER GENERATION SYSTEM AND A METHOD THEREOF* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आन तारीख दिनांक 2017 के सत्राईसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *THERMODYNAMIC CYCLE BASED POWER GENERATION SYSTEM AND A METHOD THEREOF* as disclosed in the above mentioned application for the term of 20 years from the 27th day of December 2017 in accordance with the provisions of the Patents Act, 1970.



उपग्रहण की तारीख : 22/03/2024
Date of Grant :

पेटेंट प्रोव्स
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा गया है, दिनांक 2019 के सत्राईसवें दिन को और उसके पश्चात उसके वर्ष में जहाँ दिन देव होता।
Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 27th day of December 2019 and on the same day in every year thereafter.



DEPARTMENT OF INFORMATION TECHNOLOGY
NEWS LETTER JULY 2023 - JUNE 2024

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- ❖ **FDP/Workshop/Paper Presentation attended by the Students**

EDITORIAL COMMITTEE

Name of Editor:

Mrs. M. Menaka

Head of the Department/IT

Mrs. S. Sarah

Asst.Professor Dept of IT

Mrs. M. Bharathi

Asst.Professor Dept of IT

Student members: Shammi Kumar.T(IV / IT)

Rohan Samuel.J (III / IT)

Durgesh Kumar.R (II / IT)

Publisher: Department of Information Technology

MISSION OF THE INSTITUTION

- Developing innovative, competent computer engineers through planning, in-depth analysis, and hands-on problem solving in the quest for the students to work with emerging technologies.
- Inculcating a learning environment and upgrade the knowledge of students through value-based education and promotes the academic excellence.
- Providing a leadership and ethical values for effective deliberate and tactical planning to cater the needs of the Society and to Prepare students for professional career and higher studies and promoting innovative research and education programs in the IT field.

VISION OF THE INSTITUTION

To provide quality education to the students and impart IT excellence by building strong academic environment and to enable the essential skills in the innovators and entrepreneurs making them as proficient professionals for industrial consultancy.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

- **PEO 1(Fundamental Knowledge):** To ensure graduates will be proficient in utilizing the fundamental knowledge of basic sciences, mathematics and Information Technology for the applications relevant to various streams of Engineering and Technology.
- **PEO 2(Core Competencies):** To enrich graduates with the core competencies necessary for applying knowledge of computers and telecommunications equipment to store, retrieve, transmit, manipulate and analyze data in the context of business enterprise.
- **PEO 3(Life-Long Learning):** To enable graduates to think logically, pursue lifelong learning and will have the capacity to understand technical issues related to computing systems and to design optimal solutions.
- **PEO 4(Professional Career):** To enable graduates to develop hardware and software systems by understanding the importance of social, business and environmental needs in the human context.
- **PEO 5(Multifaceted Aspects):** 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.

ABOUT THE DEPARTMENT

The Department of Information Technology was established in the year 2008 with the intake of 60. Our vision and mission focus towards academic excellence along with emerging technologies. We also pave way towards higher studies and research activities through curricular, co-curricular, and extra-curricular events. We adhere to the Anna University curriculum as an affiliated institution. The department provides an environment towards collaborative research by guiding students in developing solutions to meet industry or society needs. The department has been achieving consistently good placement and academic records.

The main objective is to motivate the students to excel in basic engineering skills and mould them as good technocrats through futuristic plans. We also provide continuous exposure on current trends and tools through practical hours and workshops in which the collaboration from industry people is in place. We also provide individual attention to each student that would in turn inculcate entrepreneur skills with ethical and social values. We create opportunities for students through various activities in building their interpersonal and intrapersonal skills.

Lab Configurations:

Data Structures Lab:

Processor: AMD Ryzen3 / 3.60 GHz, 8 GB RAM, 480 GB SSD

Object Oriented Analysis & Design Lab:

Processor: AMD Ryzen3 / 3.60 GHz, 8 GB RAM, 480 GB SSD

Web Technology Lab:

Processor: Intel i3 10th Gen / 3.70 GHz, 8 GB RAM, 480 GB SSD

FACULTY PARTICIPATIONS

1. Mrs. Menaka M

- ❖ **Role:** Resource Person
- ❖ **Event:** Robo Talento Competition at FIITJEE Global Public School
- ❖ **Date:** August 2023

2. Mrs. Sarah S

Roles and Events:

- ❖ **Reviewer** at the International Conference on Computational Sciences and Sustainable Technologies (ICCSST-2023), Christ University (May 2023)
- ❖ **Jury member** for the Student Innovation and Development Programme for Vellore and Ranipet District Level Bootcamp for School Students Projects organized by Entrepreneurship Development and Innovation Institute, Government of Tamil Nadu (February 2024)
- ❖ **Resource Person** for delivering a guest lecture on Basic Computer Skills at Worth Trust, Vellore (February 2024)
- ❖ **Niral Thiruvizha Project Mentor**, received a fund of 10,000 for the project titled "Gamified App for Learning by PwDs" (March 2024).

FACULTY PUBLICATION DETAILS

1. Mrs. Menaka M

- ❖ **"A Combination of Cloud Radio Accessing Networks and Mobile Cloud Computing for Remote Cloud Computing Services"**: Published in July 2023 in the IEEE Conference Issue. [DOI: 10.1109/ICESC57686.2023.10193219]
- ❖ **"Forecasting Naturally Occurring Forest Fires using AI and Machine Learning in Wireless Sensor Networks"**: Published in August 2023 in the IEEE Conference Issue. [DOI: 10.1109/ICIRCA57980.2023.10220860]
- ❖ **"Blockchain Technology Based Privacy Protection Scheme for Large-Scale Distributed Systems"**: Published in August 2023 in the IEEE Conference Issue. [DOI: 10.1109/ICIRCA57980.2023.10220586]

2. Mrs.Sarah S

- ❖ **"Predictive Analysis of Hybrid Grasshopper with FireFly Optimization Algorithm for Feature Selection using HCC Data"**: Presented at the 7th International Conference on Intelligent Computing (ICONIC 2K24) held in March 2024 at Panimalar Engineering College, Chennai.
- ❖ **"Predictive Policing: Harnessing Machine Learning for Crime Forecasting and Prevention"**: Presented at the International Conference on Intelligent Computing Advanced Communication and Materials (IC2ACM-2023) in December 2023.

PATENTS

1. Mrs. Menaka M

- ✓ Patent Name: Design and Implementation of the Inventory Management System
 - Published Date: 16-06-2023
 - Details: 2nd Author, Patent Application Number: 202341034506
- ✓ Patent Name: QR Code Controlled Clever Cookies/Beverages Vending Machine and Auto Payable Option Using UPI Payments Application
 - Published Date: 05-05-2023
 - Details: 2nd Author, Patent Application Number: 202341027064

2. Mrs. Sarah S

- Patent Name: Cancer Cell Detection Device
- Published Date: 18-08-2023
- Details: 4th Position, Design Number: 387009-001, Journal No: 33/2023

DEPARTMENT EVENTS

1. On **September 14, 2023**, industrial visit to **MSC Technology in Chennai** for III Year IT and IV Year IT students.
2. On **September 2, 2023** a Placement Awareness event titled "**Synergy Connect'23**" held for the parents of II Year and III Year students (B21 & B22) from the **CSE and IT departments**.
3. From **October 25, 2023 to October 30, 2023** a value-added course on "**Cloud Computing: A Comprehensive Introduction**" was organized.

4. From **January 30, 2024 to February 3, 2024** value-added course conducted on "**Art of Generative AI Algorithms and Applications.**"
5. On **March 4, 2024**, an **Industrial visit** to the **Visvesvaraya Industrial and Technological Park** in **Bengaluru** for **III Year IT students**.
6. On **February 8, 2024** a Cybercrime Awareness event titled "**Cyber Resilience Navigation**" held for **students from the CSE, IT, AI&DS, and CSBS departments**. The event included judges as HOD of Mechanical Engineering and the HOD of Electronics and Communication Engineering, along with a drawing competition on cybercrime awareness.
7. From **March 21, 2024 to March 25, 2024** a **Faculty Development Program (FDP)** called "**Exploring Frontiers of AI Computing & Technologies (EFACT'24)**" was organized. This program guests are from **MSC Tech, NIT-Puducherry, ATE-Machine Vision Systems, ATOS, and BGENT**, which would benefit both internal and external faculty members.
8. On **April 18, 2024**, a virtual workshop titled "**TechXperience with REST APIs for Application Development**" was conducted by our Alumni Mr. Dhanush Ram, a Senior Software Engineer at CRUX Digital in Bangalore.

GENERAL EVENTS

1. On **November 20 and 21, 2023**, a **Faculty Development Program (FDP)** titled "**Cambridge English**" was held featuring **Ms. Scharada Dubey**, an author and communication consultant from Bengaluru as part of Naan Mudhalvan Initiative.
2. On **February 15, 2024**, an Engineering Awareness event called "**Engineering Horizons: Igniting Young Minds**" was organized with all **Heads of Departments** presenting the current technology and Career scope for the **Government Boys Higher Secondary School, Katpadi**.
3. From **February 26 to February 28, 2024** a placement training program titled "**Employability Skills: Career Competent Engineer**" was conducted by Naandi Foundation for all final year students.
4. On **May 29, 2024** a State Level Job fair named "**Naan Mudhalvan State-wide Placement Drive**" was organized, where **106 job offers** made by **19 different participated companies**.

Workshop/Symposium/Paper Presentation attended by the Students

1. Rajeshwari S (II Year, Reg. No. 511322205701)

- **Tongue Twister:** First Prize at Global Cognizance'23, Global Institute of Engineering & Technology on July 28, 2023.
- **Paper Demonstration:** Winner at Tech Spark'23, Global Institute of Engineering & Technology on October 26, 2023.
- **Badminton:** Runner-Up at Annual Sports Meet'23, Global Institute of Engineering & Technology from February 8 to 11, 2023.

2. Nithyasree G (III Year, Reg. No. 511321205020)

- **Web Crafting:** Runner-Up at Tech Spark'23, Global Institute of Engineering & Technology on October 26, 2023.
- **Script Debugging:** Winner at Tech Spark'23, Global Institute of Engineering & Technology on October 26, 2023.
- **Visual Vision - 2K24:** Third Place at TPGIT - ALGOTRON V3.0 Symposium on February 28, 2024.
- **Code Dilemma:** First Prize at TPGIT - ALGOTRON V3.0 Symposium on February 28, 2024.
- **Web Design:** Second Place at INFOGRAM'23, C. Abdul Hakeem College of Engineering and Technology.

3. Gayathri S (III Year, Reg. No. 511321205007)

- **Script Debugging:** Runner-Up at Tech Spark'23, Global Institute of Engineering & Technology on October 26, 2023.
- **Tamil Typewriting:** First Class in August 2023.

4. Pon Lavanya S (III Year, Reg. No. 511321205021)

- **SDG Quiz:** First Place at MGR IGEN ENSAV CLUB on April 5, 2024.

5. Shree Varshenee K (III Year, Reg. No. 511321205035)

- **Bharathanatyam (Grade-II Exam):** First Class with Distinction on November 10, 2023, at Sri Natarajar Natiyalaya.
- **Bharathanatyam (Grade-I Exam):** First Class on November 10, 2023, at Sri Natarajar Natiyalaya.
- **Seerkazhi Nattiya Thiruvizha'23:** Nattiya Mangai Award on May 23, 2023.
- **Treasure Hunt:** Second Place at Zenithrive / AMCET Symposium on October 5, 2023.
- **Dance Performance:** Achieved a World Record in classical dance.
- **Performing Dance Form in Nalvar Saiva Thirumuraigal:** Participated in a world record event at Arunachaleswarar temple, Thiruvannamalai, recognized by the Raaba World Records.

6. Janani A (III Year, Reg. No. 511321205012)

- **Script Debugging:** Runner-Up at Tech Spark'23, Global Institute of Engineering & Technology on October 26, 2023.

7. Rohan Samuel J (III Year, Reg. No. 511321205025)

- **Code-athon:** First Prize at a symposium at Dhanish Ahmed College of Engineering on May 2, 2024.
- **Connexion:** First Prize at a symposium at Dhanish Ahmed College of Engineering on May 2, 2024.
- **Script Debugging:** Winner at Tech Spark'23, Global Institute of Engineering & Technology on October 26, 2023.
- **Byte Grable:** First Place at Kongu Engineering College on March 2, 2024.
- **Coding & Debugging:** First Prize at NEXUS'2K24 at Kongu Engineering College on March 13, 2024.
- **Triumph Journey:** First Prize at NEXUS'2K24 at Kongu Engineering College on March 13, 2024.
- **Fortune Quest:** First Prize at Kongu Engineering College on March 2, 2024.
- **Code Crafters Summit:** First Prize at Electrofocus'24, MIT, Anna University from March 23 to 24, 2024.
- **Fault Fix Fiesta:** First Prize at Electrofocus'24, MIT, Anna University from March 23 to 24, 2024.
- **Code Blitz:** First Prize at Muthayammal Engineering College on April 24, 2024.
- **Coding Debugging:** First Prize at PTLee Engineering College on April 28, 2024.
- **Code Crusade:** First Prize at SNS College of Technology on May 24, 2024.
- **Mix N Mingle:** First Prize at SNS College of Technology on May 24, 2024.
- **Coding Debugging:** First Prize at Shree Venkateshwara Hi-Tech Engineering College on April 22, 2024.
- **CODING CONQUERER - 2K24:** First Prize at TPGIT - ALGOTRON V3.0 Symposium on February 28, 2024.
- **Code Dilemma:** First Prize at TPGIT - ALGOTRON V3.0 Symposium on February 28, 2024.
- **Web Designing:** First Prize at Shree Venkateshwara Hi-Tech Engineering College on April 22, 2024.
- **Coding:** First Prize at Zenithrive / AMCET Symposium on October 5, 2023.
- **Cipherex - Coding & Debugging:** Second Prize at ELOQUENCE'23, C. Abdul Hakeem College of Engineering and Technology on October 7, 2023.
- **Coding Debugging:** Second Prize at Manakula Vinayagar Institute of Technology on April 16, 2024.
- **Code Class with Python:** Second Prize at Manakula Vinayagar Institute of Technology on April 16, 2024.
- **Web Design:** Second Place at INFOGRAM'23, C. Abdul Hakeem College of Engineering and Technology.

- **Web Crafting:** Runner-Up at Tech Spark'23, Global Institute of Engineering & Technology on October 26, 2023.
- **Project Expo:** Third Place at TPGIT - EPULZ'2K24 Symposium on February 28, 2024.
- **Code Carnival:** Third Place at VTECH SPARK'2K24 at VelTech, Avadi on March 27, 2024.
- **Connexion:** First Place at Zenithrive / AMCET Symposium on October 5, 2023.

TOPPERS LIST

ANNA UNIVERSITY EXAMINATIONS

S.NO	DEPARTMENT	RANK	REGISTRATION NUMBER	STUDENT NAME	SEM
1	II IT	1	511321205007	BARATH M	3
2		2	511321205044	RITHICK R	3
3		3	511321205029	LOKESH A	3
4	III IT	1	511321205016	MALAIYARASI M	5
5		2	511321205038	SOWMIYA G	5
6		3	511321205032	SARAVANAN C	5
7	IV IT	1	511320205028	SUDHARSHAN R C	7
8		2	511320205019	NISHA V	7
9		3	511320205007	DEVIPRIYA M	7

DEPARTMENT - BEST OUTGOING STUDENT FOR NOV/DEC 2023

S.NO	DEPARTMENT	GENDER	REGISTRATION NUMBER	STUDENT NAME
1	IT	MALE	511320205033	YESWANTH M
2		FEMALE	511320205019	NISHA V

STUDENTS ACHIEVEMENTS

NIRAL THIRUVIZHA FINAL REVIEW AT ANNA UNIVERSITY

Team Leader Name	Reg. No	Year	Department
I. Revathi S	511320205022	Final year	Information Technology
Team members			
I. Atchaya S	511320205005	Final year	Information Technology
2. Sweatha C	511320205029	Final year	Information Technology
3. Boomika G U	511320205301	Final year	Information Technology

Faculty Guide (Mentor) Details: Mrs. S. Sarah,
Assistant Professor,
Department of Information Technology



GLIMPSE – DEPARTMENT EVENTS







Approved by AICTE, Affiliated to Anna University

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TECH PULSE

Newsletter

**ACADEMIC YEAR
2023-2024**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION OF THE INSTITUTE



To be a pioneer in engineering and management education by providing amicable ambience and being a centre for learning thereby perpetuating versatile professionals in engineering and management suitable for industry, higher education and research.

MISSION OF THE INSTITUTE



Building infrastructure that earmarks the institution to be the most preferred educational destination and provides the right ambience for creative and innovative teaching - learning process. Enabling learners to broaden their horizon and helping to meet global challenges.

VISION OF THE DEPARTMENT



To build competent industry ready professionals to largely contribute the society, by imparting the knowledge in the domain of Computer Science and Business Systems with managerial skills, human and social values.

MISSION OF THE DEPARTMENT



1. Educating students with the background of fundamentals, stretching their imagination to meet the challenges in the field of computer science and Engineering.
2. Transforming the Emerging technology to the young minds by effective teaching learning process.
3. Imparting the self-learning ability, leadership and managerial quality to the students

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates of Computer Science and Engineering Program will

1. Achieve a successful profession with good knowledge in Computer Science and Engineering to meet the demands of industry.
2. Become morally responsible engineers and contribute to the betterment of society.
3. Possess required skills and leadership qualities which will make them to be a continuous learner.

PROGRAM OUTCOMES (POs)

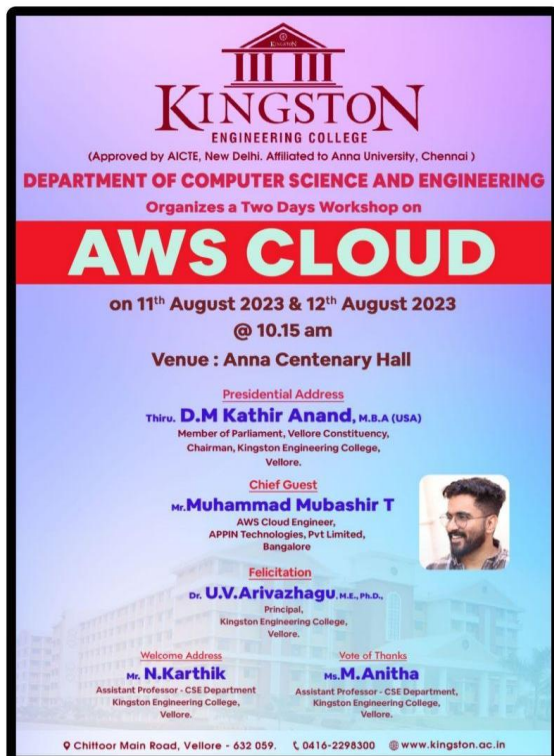
Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.
4. **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.
5. **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.

6. **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.
7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **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.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage independent and life-long learning in the broadest context of technological change

WORKSHOP

The two-day workshop on AWS Cloud, which took place on the 11th and 12th of August 2023, proved to be a comprehensive and engaging learning experience. The workshop was expertly led by Mr. Muhammad Mubashir T, an experienced AWS Cloud Engineer from APPIN Technologies Pvt. Limited, Bangalore. Participants gained in-depth knowledge of AWS services, best practices, and hands-on experience in cloud computing.



KINGSTON
ENGINEERING COLLEGE
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai.)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Organizes a Two Days Workshop on
AWS CLOUD
on 11th August 2023 & 12th August 2023
@ 10.15 am
Venue : Anna Centenary Hall

Presidential Address
Thiru. **D.M Kathir Anand, M.B.A (USA)**
Member of Parliament, Vellore Constituency,
Chairman, Kingston Engineering College,
Vellore.

Chief Guest
Mr. **Muhammad Mubashir T**
AWS Cloud Engineer,
APPIN Technologies, Pvt Limited,
Bangalore

Felicitation
Dr. **U.V.Arivazhagu, M.E., Ph.D.,**
Principal,
Kingston Engineering College,
Vellore.

Welcome Address
Mr. **N.Karthik**
Assistant Professor - CSE Department
Kingston Engineering College,
Vellore.

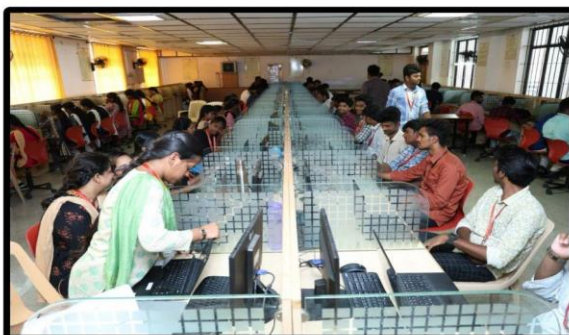
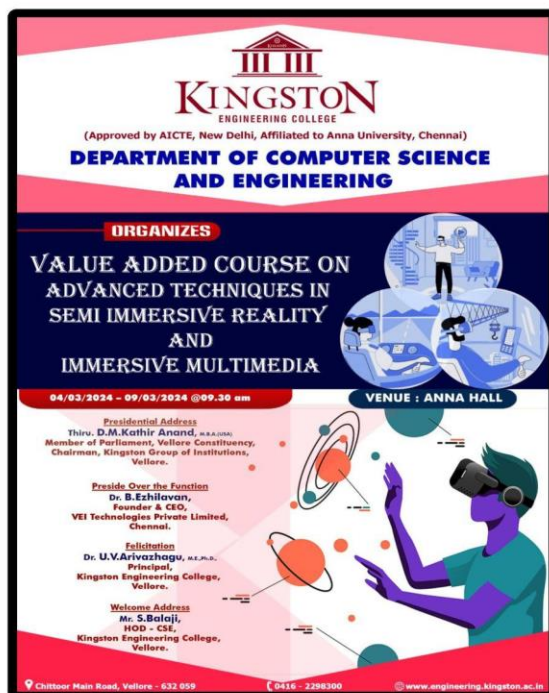
Vote of Thanks
Mr. **M.Anitha**
Assistant Professor - CSE Department,
Kingston Engineering College,
Vellore.

Chittoor Main Road, Vellore - 632 059. ☎ 0416-2298300 @ www.kingston.ac.in



Value-added course

The value-added course on advanced techniques in semi-immersive reality and immersive multimedia, held from March 4th to March 9th, 2024, was led by **Dr. B. Ezhilavan**, the esteemed Founder and CEO of VEI Technologies Private Limited, Chennai. Dr. Ezhilavan brought a wealth of experience to the course, combining deep academic knowledge with hands-on industry expertise. Participants had the unique opportunity to learn cutting-edge techniques directly from a leading figure in the industry, exploring both the theoretical foundations and practical applications of immersive technologies. This intensive course was designed to equip attendees with the skills necessary to innovate and excel in the rapidly evolving domains of semi-immersive reality and immersive multimedia.



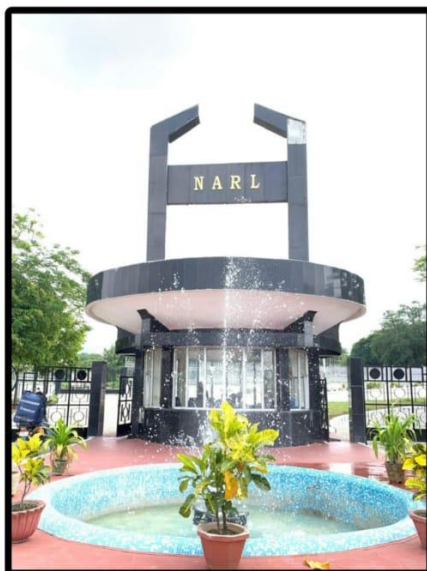
COMPETITION

Dr. M.G.R. Educational and Research Institute was proud to present this Certificate of Appreciation to Mr. Pulluru Bhavith from the Department of Computer Science Engineering. His outstanding performance in the Project-Expo event at KALAM'22 - DIGITRA, held on the 19th and 20th of September 2022, earned him the prestigious First Place award. This achievement reflected his innovative thinking, technical expertise, and dedication to excellence. His success brought great honor to the Department of Computer Science Engineering and served as an inspiration to his peers. The Department of Electronics and Communication Engineering congratulated Mr. Bhavith on this remarkable accomplishment and wished him continued success in his future endeavors.



INDUSTRIAL VISIT

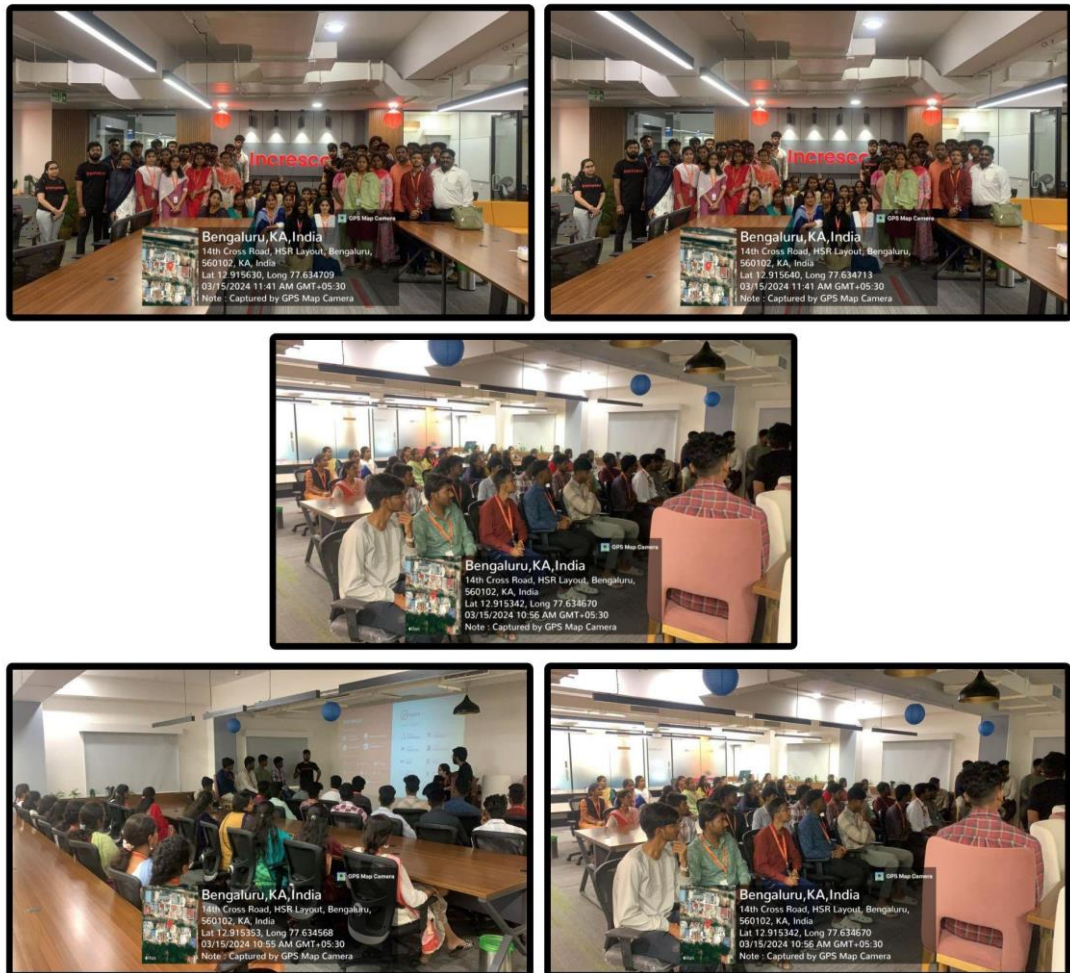
An industrial visit for the II-year CSE (B Sec) students to the National Atmospheric Research Laboratory (NARL) at the SVU Campus in Panapakkam, Tirupati, Andhra Pradesh, took place on 06-10-2023. The visit provided a hands-on learning experience, allowing the students to explore advanced technologies used in atmospheric data collection and analysis. They also had the opportunity to interact with researchers, gaining a deeper understanding of the real-world applications of their classroom knowledge, particularly in areas such as climate monitoring, weather prediction, and environmental science.



Industrial visit for II year CSE (A Sec) students at National Atmospheric Research Laboratory (NARL),SVU Campus , Panapakkam,Tirupati, Andhra Pradesh Visited on 02-10-2023.The visit offered a hands-on learning experience, allowing the students to explore advanced technologies used in atmospheric data collection and analysis. They also had the chance to interact with researchers, gaining a deeper understanding of the real-world applications of their classroom knowledge, especially in areas like climate monitoring, weather prediction, and environmental science.

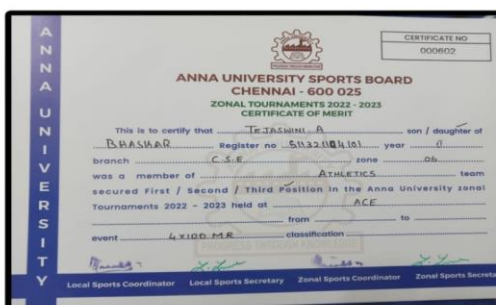


Industrial visit for III year CSE (B Sec) students at Incesco Technology Solutions Private Limited Bengaluru Visited on 15-03-2024. The visit offered us a comprehensive overview of their diverse operations, from software development and IT consulting to advanced solutions in artificial intelligence and machine learning. The experienced professionals at Incesco provided detailed explanations of their processes, showcasing real-world applications of the technologies and also inspired us to pursue excellence in our future careers.



STUDENTS -EXTRA CURRICULAR ACTIVITIES

- Certificate of Merit - Anna University Sports Board.
 1. First Place Awarded to Mr. Pugazhvendhan. M from the CSE branch of Kingston Engineering College. Recognized as a team member of Athletics event 4x100 for the Zonal Tournaments.
 2. First Place Awarded to Mr. Pugazhvendhan. M from the CSE branch of Kingston Engineering College in the Athletics event 200mts.
 3. Third Place Awarded to Tejaswini. A from the CSE branch of Kingston Engineering College in the Athletics event 400mts...etc,
- Certificate of Appericiation - Mrs. Pavithra. K from the CSE branch of Kingston Engineering College has secured 2nd Place with CGPA of 9.0 and for the successful completion of Network Essential course under Naan Mudhalavan Scheme.



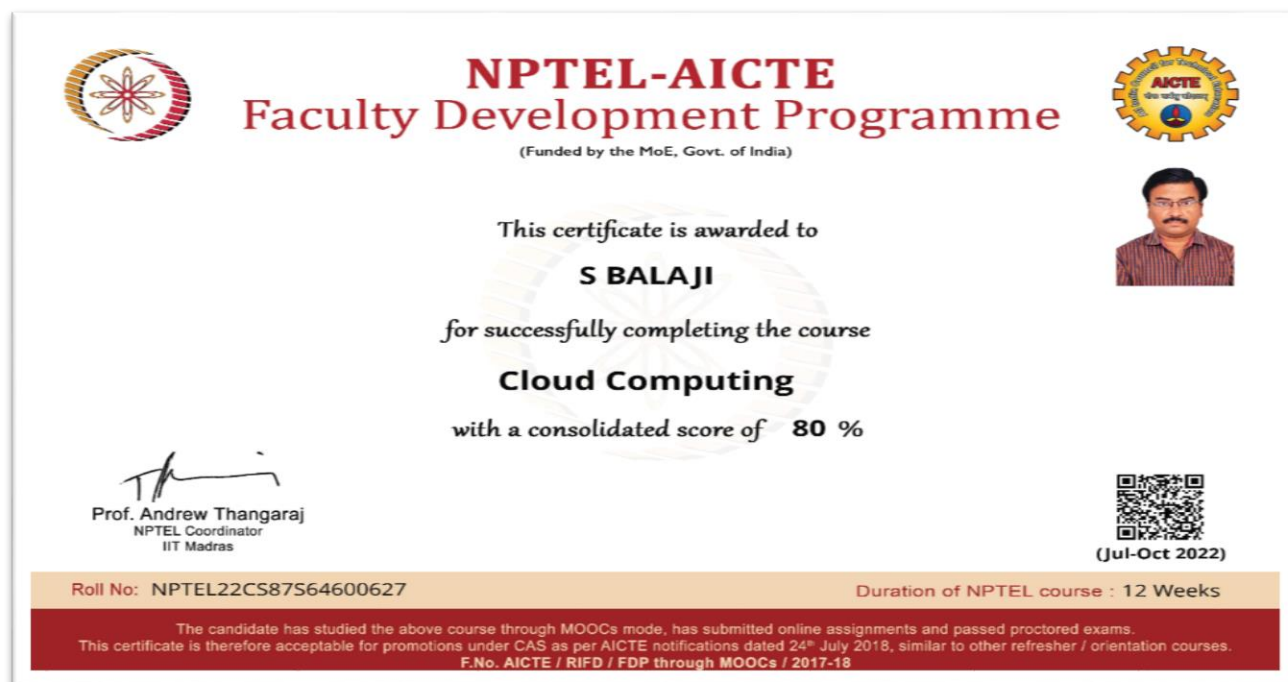
STUDENTS JOURNAL

S.No	Name of the Author	Title of the Paper	Name of the journal	Vol No/ Issue No	Page No	Month	Year of publication
2023-2024							
1	B. Sujai Mathew	A Holistic Approach on Airfare Price Prediction using Machine Learning Techniques	IRJAET	9/6	1-14	Dec	2023
2	M Sugavanam	Joint Communication and Sensing toward 6G Models and potential of using MIMO	IRJAET	9/6	15-24	Dec	2023
3	V Vishal	A Novel Machine Learning Approach for Android Malware Detection based on the Coexistence of Features	IRJAET	9/6	25-34	Dec	2023
4	V Vishal	Feature Engineering Techniques for effective Heart Disease Prediction using Block Chain	IJIRMET	9/3	286-289	Apr	2024

5	M Sugavanm	SDN Enabled Employee's Novel security survival with quantum key distribution	IJIRMET	9/3	280- 285	Apr	2024
6	B Sujai Mathew	Machine Learning based Learning Effect Prediction for improving student information Literacy	IJIRMET	9/3	290- 294	Apr	2024

FACULTY FDP ATTENDED









Wipro Certified Faculty Program

CERTIFICATE

AWARDED TO

K.H.Gayathri

For participating in the training program on .NET Full Stack conducted by
TalentNext from 24-June-2024 to 12-July-2024

A handwritten signature in black ink, appearing to read "Bibhuti Patnaik".

Bibhuti Patnaik
General Manager
Global Head - Talent Skilling
Wipro Limited

12-July-2024

NPTEL COURSES COMPLETED

Sl.No	Academic Year	Name of the Student	Curricular/Extra Curricular Activity	Participation/Winning Details
1	2023-24	YUVAN PRAKASH P	NPTEL-PROGRAMMING IN JAVA	Successfully completed
2	2023-24	PRAVEEN KUMAR S	NPTEL-PROGRAMMING IN JAVA	Successfully completed
3	2023-24	SNEHA B	NPTEL-PROGRAMMING IN JAVA	Successfully completed
4	2023-24	RANJITHA S	NPTEL-PROGRAMMING IN JAVA	Successfully completed
5	2023-24	YUVARANJANI R	NPTEL-PROGRAMMING IN JAVA	Successfully completed
6	2023-24	JANANI A	NPTEL-PROGRAMMING IN JAVA	Successfully completed
7	2023-24	LEKHA PRIYADARSHINI KP	NPTEL-DISTRIBUTED SYSTEMS	Successfully completed
8	2023-24	DAYANA S	NPTEL-DISTRIBUTED SYSTEMS	Successfully completed
9	2023-24	SANJAY P	NPTEL-MACHINE LEARNING	Successfully completed
10	2023-24	SOWMIYA H	NPTEL-MACHINE LEARNING	Successfully completed
11	2023-24	MONIKA R	NPTEL-CLOUD COMPUTING	Successfully completed



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NEWS LETTER 2023-2024



EDITORIAL COMMITTEE

Name of Editor:

Mrs.M.Rathika,

Head of the Department/ECE

Mrs.N.Vanitha,

Asst.Professor,

Department of ECE

Mr.J.Paul

Richardson

Gnanaraj,

Asst.Professor,

Department of ECE

Student Members:

- **LOKESH S** – Final Year ECE
- **SANDHIYA SRI P** – Final Year ECE

Publisher: Department of ECE, KEC

A vision statement is an institute's roadmap, indicating both what the institute wants to become and guiding transformational initiatives by setting a defined direction for the institute's growth.

A mission statement is one of the ways to communicate the purpose of the institute. It guides the institute's actions, overall objective and provides a path in delivering services to the engineering education.

Institute Vision

To be a pioneer in engineering and management education by providing amicable ambience and being a centre for learning thereby perpetuating versatile professionals in engineering and management suitable for industry, higher education and research.

Institute Mission

- Developing, nurturing and building professionals with technical, research and managerial expertise, intellectual proficiency, right attitude and moral ethics.
- Building infrastructure that earmarks the institution to be the most preferred educational destination and provides the right ambience for creative and innovative teaching-learning process.
- Enabling learners to broaden their horizon and helping to meet global challenges.

Department Vision

To develop the department into a full-fledged centre for learning in recent trends of Electronics and Communication Engineering and thereby enabling our graduates to excel as efficient engineer, manager or entrepreneur.

Department Mission

- Providing quality education in the areas of Electronics and communication engineering to enhance the competitiveness of our graduates in the job market and contribute to the economic, scientific and social developments.
- Endowing students with the knowledge, technical skills and values that prepare them to excel as engineers and leaders in their profession and to be committed to lifelong learning.
- Promoting active learning, critical thinking and engineering judgment coupled with business, management and entrepreneurial skills.

FDP/Workshop/Seminar/Guest Lecture etc Attended by the Faculty

Name of the Faculty	Title
Dr.S.R.Surem Samuel	Six days online FDP on “Artificial Intelligence Impact on Transforming software ,Robotics ,electrical,Electronics and mechanical Fields”Organized by Dhaanish Ahed College of Engineering,Chennai from)5 th to 10 th August.
	Participated in the Five Days National Level Faculty Development Programme On "EXPLORING COMPUTATIONAL INTELLIGENCE (ONLINE)" organised by School of Computer Science and Engineering, VIT-AP University,Amaravati from 16th July 2024 to 20th July 2024 .
Mrs.M.Rathika	Participated in the Tamil Nadu Government Sponsored One Week Faculty Development Programme on " EV: Challenges and Opportunities" from 22.07.2024 to 26.07.2024 organized by the Faculty Development Training Centre in association with Department of Electrical and Electronics Engineering, Alagappa Chettiar.
Mrs.N.Vanitha	Participated in the Tamil Nadu Government Sponsored One Week Faculty Development Programme on " EV: Challenges and Opportunities" from 22.07.2024 to 26.07.2024 organized by the Faculty Development Training Centre in association with Department of Electrical and Electronics Engineering, Alagappa Chettiar.
Mr.A.Venkatesan	Participated in the Tamil Nadu Government Sponsored One Week Faculty Development Programme on " EV: Challenges and Opportunities" from 22.07.2024 to 26.07.2024 organized by the Faculty Development Training Centre in association with Department of Electrical and Electronics Engineering, Alagappa Chettiar.

Students Achievements

Sl. No.	Name of the Event	Students Participated	Prizes/ Awards Won/Participation
1	National Level Technical Symposium: Technical Quiz (Thanthai Periyar Government Institute of Technology, Vellore, Tamil Nadu. Date: 28.02.2024)	L.Bharat Kumar	Second Place
2	National Level Technical Symposium: Paper Presentation - Mind Unfolded (Thanthai Periyar Government Institute of Technology, Vellore, Tamil Nadu. Date: 28.02.2024)	L.Bharat Kumar	First Place
3	National Level Technical Symposium: Paper Presentation (C.Abdul Hakeem College of Engineering & Technology, Melvisharam, Tamil Nadu. Date: 27.04.2024)	L.Bharat Kumar	Second Place
4	National Level Technical Symposium: Paper Presentation - Life Technology (C.Abdul Hakeem College of Engineering & Technology, Melvisharam, Tamil Nadu. Date: 27.10.2023)	L.Bharat Kumar	First Place
5	National Level Technical Symposium: Paper Presentation (Annai Mira College of Engineering and Technology, Arcot, Tamil Nadu. Date: 25.09.2023)	L.Bharat Kumar	Participation
6	National Level Technical Symposium: Coding & Debugging (Annai Mira	M.Jagan	Third Place

	College of Engineering and Technology, Arcot, Tamil Nadu. Date: 25.09.2023)		
7	World Organ Donation Day Awareness Programme (Sri Narayani Hospital & Research Centre, Vellore, Tamil Nadu. Date: 30.08.2023)	S.Priya	First Place
8	Project Expo (Kingston Engineering College, Katpadi, Vellore, Tamil Nadu. Date: 25.04.2024)	L.Bharat Kumar	Participation
9	Project Expo (Kingston Engineering College, Katpadi, Vellore, Tamil Nadu. Date: 25.04.2024)	B.Ranjith Raj	Participation
10	Five Days Workshop: MATLAB for Science and Technology (Vellore Institute of Technology, Vellore, Tamil Nadu. Date: 11.09.2023 to 15.09.2023)	M.Jagan	Participation
11	Five Days Workshop: MATLAB for Science and Technology (Vellore Institute of Technology, Vellore, Tamil Nadu. Date: 11.09.2023 to 15.09.2023)	K.Deepika	Participation
12	Two Days Workshop: Embedded C Programming for 8 bit Microcontroller (Vellore Institute of Technology, Vellore, Tamil Nadu. Date: 23.06.2023 to 24.06.2023)	S.Kiruba Joshuakumar	Participation
13	NPTEL Course on “Introduction To Internet Of Things”	Karthick V	Successfully Completed With ELITE+SILVER
14	NPTEL Course on “Introduction To Internet Of Things”	Sanjay Kumar S	Successfully Completed With ELITE+SILVER

15	NPTEL Course on “Introduction To Internet Of Things”	Naveen Moses D	Successfully Completed With ELITE+SILVER
16	NPTEL Course on “Introduction To Internet Of Things”	C.K. Akshaya Prathiksha	Successfully Completed With ELITE+SILVER
17	NPTEL Course on “Programming In Java”	Naveen Moses D	Successfully Completed With ELITE
18	Anna University Zone 6 Volleyball Tournament	Dharshini	First Place
19	Anna University Zone 6 Basketball Tournament	C.K. Akshaya Prathiksha	Second Place
20	AMCET – National Technical Symposium (Dumb charades)	Karthick V Sanjay Kumar S	First Place
21	TPGIT– National Technical Symposium (Photography Competition)	Naveen Moses D	Second Place
22	AMCET – National Technical Symposium (Power point presentation)	Naveen Moses D	First Place
23	AMCET – National Technical Symposium (Code Debugging)	Naveen Moses D	First Place
24	AMCET – National Technical Symposium (Circuit Debugging)	Uthrakumar TN	First Place
25	TPGIT– National Technical Symposium (Power point presentation)	Naveen Moses D	Second Place

26	KNEC – Project Expo	C.K. Akshaya Divya K Pavithra Sonia S	Second Place
27	KNEC – Maths Quiz	Aishwarya C.K. Akshaya Divya K Pavithra Sonia S Sangeeta Ml	Second Place

MSME IDEA HACKATHON 3.0 (Women)

“Smart Bike Safety Innovation” idea submitted by Ms.S. Pavithra (IV ECE), Kingston Engineering College mentored by Mrs. M. Radhika, Head of the Department, ECE, Kingston Engineering College was selected in MSME IDEA HACKATHON 3.0 (Women) and receiving Financial assistance of Rs.15 lakhs .

4G/5G Laboratory Inaguration

Established 4G/5G Laboratory for Academic and Research purposes on 07th March 2024.

2023 - 2024 ECE – Footprints







Department of Artificial Intelligence and Data Science

MAY 2023 – MAY 2024

Issue 1

NEWS LETTER

For private circulation only



2023-2024

CONTENTS

- ❖ **Mission**
- ❖ **Vision**
- ❖ **PEO'S**
- ❖ **About the Department**
 - ❖ **Department Events**
- ❖ **Symposium, Workshops & Guest Lecture organized by the Department.**
- ❖ **Sports Activities**
- ❖ **FDP/Workshop attended by the Faculty**
- ❖ **FDP/Workshop/Paper Presentation attended by the Students**

Department Vision

Foster competent professionals by inculcating knowledge and skills in the Artificial Intelligence and Machine Learning empire to cater needs of industry and society.

Department Mission

1. To provide a good environment with latest technological infrastructure facilities and interaction with industry in the field of Artificial Intelligence and Data Science.
2. To educate the students in problem solving with necessary skills to solve real world problems.
3. To strengthen the assimilation process of concepts in AI & ML through experiential learning.
4. To create a better Academia-Industry liaison by means of skill enhanced training.

Programme Educational Objectives (PEOs)

1. Utilize their proficiencies in the fundamental knowledge of basic sciences, mathematics, Artificial Intelligence, data science, and statistics to build systems that require management and analysis of large volumes of data.
2. Advance their technical skills to pursue pioneering research in the field of AI and Data Science and create disruptive and sustainable solutions for the welfare of ecosystems.
3. Think logically, pursue lifelong learning, and collaborate with an ethical attitude in a multidisciplinary team.
4. Design and model AI-based solutions to critical problem domains in the real world.
5. Exhibit innovative thoughts and creative ideas for effective contribution towards economy building.

Programme Outcomes (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **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.
4. **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.
5. **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.
6. **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.
7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
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11. **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.
12. **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.

Programme Specific Outcomes (PSOs)

At the end of the programme, the graduates will be able to:

1. evolve AI based efficient domain specific processes for effective decision making in several domains such as business and governance domains.
2. Arrive at actionable Foresight, Insight, hindsight from data for solving business and engineering problems
3. Create, select, and apply the theoretical knowledge of AI and Data Analytics along with practical industrial tools and techniques to manage and solve wicked societal problems.
4. Develop data analytics and data visualization skills, skills pertaining to knowledge acquisition, knowledge representation and knowledge engineering, and hence be capable of coordinating complex projects.
5. Able to carry out fundamental research to cater the critical needs of the society through cutting edge technologies of AI.

FDP/WORKSHOP/JOURNAL/CONFERENCE ATTENDED BY THE FACULTIES

- ✓ Mrs. K.Poongodi, AP/AIDS , Completed course for Applied Generative AI at INFOSYS Springboard (2023-2024)



- ✓ Dr.N .Kannammal,ASP/AIDS, attended FDP on “**Web Technology – Full Stack Using Django**” on from **01-02-2024 to 03-02-2024**.
- ✓ Dr.N .Kannammal,ASP/AIDS , participated and completed five days workshop on “Exploring Frontiers of AI computing and Technologies” at MSC Tchnology on 21.3.24 to 25.3.24
- ✓ Dr.N.Kannammal, ASP/AIDS attended FDP on “Machine Learning on Generative AI” at MLR Institute of Technology

VALUE ADDED COURSE (2023-2024)





ACADEMIC YEAR 2023-2024
STUDENT ACHIEVEMENTS (2023-2024)

REGISTER NUMBER	STUDENT NAME	YEAR	TOPPER	SUBJECTS
511322243029	Madhumitha.S	2023-2024	Subject Topper	First year
511322243029	Madhumitha.S	2023-2024	Subject Topper	Database Design and Management
511322243029	Madhumitha.S	2023-2024	Subject Topper	Artificial Intelligence
511322243029	Madhumitha.S	2023-2024	Subject Topper	Discrete Mathematics
511322243029	Madhumitha.S	2023-2024	Subject Topper	Database Design and Management
511322243053	Thirisha.N	2023-2024	Acedemic Topper	9.26 CGPA
511322243053	Thirisha.N	2023-2024	Acedemic Topper	9.19CGPA
511322243053	Thirisha.N	2023-2024	Subject Topper	9.11CGPA
511322243050	Suruthi.K	2023-2024	Acedemic Topper	O grade
		2023-2024		
511322243050	Suruthi.K	2023-2024	subject topper	O grade
511322243050	Suruthi.K	2023-2024	subject topper	O grade
511322243051	Swathi.K	2023-2024	subject topper	O grade
511322243053	Thirisha.N	2023-2024	Animation Associate 3D	210 hrs-recognised by NCVET

STUDENT PARTICIPATION (2023-2024)

REGISTER NUMBER	STUDENT NAME	YEAR	EVENT/PROGRAM	CONDUCTED BY
511322243002	Ashok.S.v	25.04.2024	Project Expo-2024	Research and Development cell

511322243020	Jayanth.A	25.04.2024	Project Expo-2024	Research and Development cell
511322243006	Deepak.R	25.04.2024	Project Expo-2024	Research and Development cell
511322243031	Monisha.M	31.03.2024	Artificial Intelligence Workshop	IIT Madras
511322243004	Bhouthri.K	02.12.2023	IoT workshop	IIT Madras
511322243008	Dharikashree.T	02.12.2023	IoT workshop	IIT Madras
511322243007	Devadharshini.R	02.12.2023	IoT workshop	IIT Madras
511322243043	Shalini.R	02.12.2023	IoT workshop	IIT Madras
511322243054	Vanitha.C	04.11.2023	Data science and analysis with	IIT Madras
511322243015	Harini.M	04.11.2023	Data science and analysis with	IIT Madras
511322243025	Keerthana.B	04.11.2023	Data science and analysis with	IIT Madras
511322243032	Nikkitha.PS	04.11.2023	Data science and analysis with	IIT Madras
511322243031	Monisha.M	25.04.2024	Project Expo-2024	2 nd prize
511322243008	Dharikashree.T	19.02.2023	Dr.A.P.J.Abdul Kalam Satellite launch	Chengalpattu(TN),
511322243054	Vanitha.c	19.02.2023	Vehicle mission-2023	Chengalpattu(TN), India
511322243015	Harini.M	19.02.2023	Dr.A.P.J.Abdul Kalam Satellite launch	Chengalpattu(TN),

OUR STUDENTS IN SPORTS(2023-2024)

REGISTER NUMBER	STUDENT NAME	YEAR	TOURNAMENT	EVENT	PLACE
511322243041	Saraswathi.G	3.12.2023	Anna University Zonal Tournamnet	1st -Triple Jump	SKP Engineering
511322243041	Saraswathi.G	3.12.2023	2023-2024	1st- 5000mts	college
511322243041	Saraswathi.G	17.10.2023 to 18.10.2023	Anna University Zonal Tournamnet	2nd- Basketball	SKP Engineering
511322243041	Saraswathi.G	3.12.2023	2023-2024	3rd-Ball batmiton	college
511322243041	Saraswathi.G	17.10.2023 to	Anna University Zonal Tournamnet	1st- 4x400mt relay	KNEC

ACADEMIC YEAR 2024-2025

FDP/WORKSHOP/JOURNAL/CONFERENCE ATTENDED BY THE FACULTIES

- ✓ *Dr. KANNAMMAL N, Faculty members of the AICTE approved institutions of KINGSTON ENGINEERING COLLEGE successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Building Healthy and Sustainable Educational Environment: Legal and Policy Insights at A.V.C.COLLEGE OF ENGINEERING from 03/02/2025 to 08/02/2025.*
- ✓ *Dr. KANNAMMAL N, Faculty members of the AICTE approved institutions of KINGSTON ENGINEERING COLLEGE - participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on HARNESSING DEEP LEARNING IN BUSINESS ANALYTICS-TRANSFORM DATA TO DECISION at KIT-Kalaignarkarunanidhi Institute of Technology from 06/01/2025 to 11/01/2025.*
- ✓ *Dr.N.Kannammal.N completed Oracle certification from Oracle AI certification and received the ORACLE badge.*
- ✓ *Dr.N.Kannammal ASP/AIDS successfully completed Bootcamp on “Introduction to Blockchain Technology and its Usecases” from CDAC from 20.1.25 to 24.1.25*

AIDS STUDENT PARTICIPATION

Register Number	Student Name	Year	Event/Program	Conducted By
III/AI&DS	ALL THIRD YEAR	2024-2025	Programming Fundamentals Using Python- Part 1,2	INFOSYS Springboard
511322243010	GnanaPrassanna V	2024-2025	Paper Presentation	Symposium
511322243015	Harini .M	2024-2025	Paper Presentation	Symposium
511322243016	Hemalatha S	2024-2025	National Level E-Quiz	National Service Scheme
511322243018	Jaishree . C. N	2024-2025	Paper Presentation	Symposium
511322243022	Kabil.G	2024-2025	Project Expo - 2024	Research and Development Cell
511322243022	Kabil.G		KITATHON'24	Multi Purpose Robot
511322243050	SuruthiI.K	2024-2025	VEI Technologies Industry Internship	JAVA APPLICATION DEVELOPMENT
511322243051	Swathi.K	2024-2025	VEI Technologies Industry Internship	JAVA APPLICATION DEVELOPMENT
511322243053	Thirisha N	2024-2025	VEI Technologies Industry Internship	JAVA APPLICATION DEVELOPMENT
511323243011	ARAVINDHAN . R	2024-2025	IGEN ENVIRONMENT 2024	Earth Element, Fire Element

OUR STUDENTS IN SPORTS(2024-2025)

Register Number	Student Name	Year	Tournament	Event	Place
511322243024	Karthikeyan.D.P	2024-2025	Inter College Sports	Ball Badmitton Tournament	Anna University
511322243031	Monisha .M	2024-2025	Anna University Zonal Tournament	Ball Badmitton	Anna University Zonal Tournament
511322243037	Rajesh I	2024-2025	Inter College Sports	Ball Badmitton Tournament	Inter College Sports
511322243041	Saraswathi G	2024-2025	DelhiNcr Rokit Ball Association	Ball Badmitton	DelhiNcr Rokit Ball Association
511322243041	Saraswathi G	2024-2025	Anna University Zonal Tournament	Atheletics	Anna University Zonal Tournament
511322243042	Sasikumar. R	2024-2025	Inter College Sports	Atheletics	Inter College Sports
511322243301	Jeeva S	2024-2025	Anna University Kabaddi Zonal Tournament	Kabaddi Match	Anna University Kabaddi Zonal Tournament



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Department of Computer Science and Business Systems

JUNE 2023 – MAY 2024

Issue 1

NEWS LETTER

For private circulation only



2023-2024

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Department Vision

To provide the best opportunity to the students to attain technical excellence in the field of Computer Science and Business Systems Engineering and to produce competitive and versatile computer engineers.

Department Mission

1. Educating students with the background of fundamentals, stretching their imagination to meet the challenges in the field of Computer Science and Business Systems.
2. Transforming the emerging technology to the young minds by effective teaching learning process.
3. Imparting the self learning ability, leadership and managerial quality to the students.

Programme Educational Objectives (PEOs)

PEO1 - To ensure graduates will be proficient in utilizing the fundamental knowledge of basic sciences, mathematics, Computer Science and Business systems for the applications relevant to various streams of Engineering and Technology.

PEO2 - To enrich graduates with the core competencies necessary for applying knowledge of computer science and Data analytics tools to store, retrieve, implement and analyze data in the context of business enterprise

PEO3 - To enable graduates to gain employment in organizations and establish themselves as professionals by applying their technical skills and leadership qualities to solve real world problems and meet the diversified needs of industry, academia and research

PEO4 - To equip the graduates with entrepreneurial skills and qualities which help them to perceive the functioning of business, diagnose business problems, explore the entrepreneurial opportunities and prepare them to manage business efficiently.

Programme Outcomes (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.
4. **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.
5. **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.
6. **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.
7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **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.
12. **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.

Programme Specific Outcomes (PSOs)

At the end of the programme, the graduates will be able to:

- PSO1** - To create, select, and apply appropriate techniques, resources, modern engineering and business tools including prediction and data analytics to complex engineering activities and business solutions
- PSO2** - To evolve computer science domain specific methodologies for effective decision making in several critical problem domains of the real world.
- PSO3** - To be able to apply entrepreneurial skills and management tools for identifying, analyzing and creating business opportunities with smart business ideas
- PSO4** - To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications

VALUE ADDED COURSE



Department of computer science and business systems organized a 5 day Value added course on **Cloud Computing Technologies (Microsoft Azure, Amazon)** from 06/03/2024 to 09/03/2024. Ms.M.Anitha Head of Department introduced a chief guest Mr.Venkatesan Gopal, Senior Solution Architect, Finastra MISYS, A sonata software services company, Chennai. This course focused in enabling the students for using and understanding AZURE AD RBAC. Understand the potential impact of cloud technologies on various industries. Provided insight into the emerging trends and future directions of AWS cloud. At valedictory ceremony, the participants were awarded the certificates. The ceremony function came to an end with a group photo session.

FDP/WORKSHOP/JOURNAL/CONFERENCE ATTENDED BY THE FACULTIES

- ✓ Ms. M. Anitha – attended an Online FDP on Five Days National Level Online Faculty Development Programme on “Unlocking Industry Insights in Data Science” from 12.02.2024 to 16.02.2024 organized by Department of Computer Science & Engineering (Data Science), Madanapalle Institute of Technology & Science, Madanapalle-517325.
- ✓ Ms. M. Anitha – Published a Book Chapter titled Artificial Intelligence – Emerging Marketing in Economies, Challenges, Opportunities, with Integrated Development of SMES in PMS in Futuristic Trends in Computing Technologies and Data Sciences, e-ISBN: 978-93-6252-441-6, IIP Series, Volume 3, Book 6, Part 1, Chapter 1 February 2024.
- ✓ Ms. M. Anitha – Published a Journal titled Dynamic Mobile Cloud Ecosystem Security a Review in International Journal of Data Informatics and Intelligent Computing. March 23, 2023
- ✓ Ms. M. Anitha – Published a Journal titled Skin Cancer Detection Using Deep Learning a Review in International Journal of Scientific Research in Engineering & Management, May, 2023
- ✓ Ms. M. Anitha – attended FDP on Full Stack with Python Programming at KCG College of Engineering and Technology, Chennai.

INPLANT TRAINING/INTERNSHIP/WORKSHOP/ PAPER PRESENTATION ATTENDED BY THE STUDENTS

S. No.	Academic Year	Event Type Workshop/ Conference/ Symposium	College /Industry/Univ ersity Attended	Name of the Event	Students Participated	Prizes / Awards Won
1	2023-24	Online Course	Infosys Springboard	Introduction To Java	Velmurugan S Dharshan J Logeswaran S	Completed
2	2023-24	Project Expo-24	Kingston Engineering College	Project Expo-24	Logeswaran S Sarath Kumar U Rohith R Chethanprasath T C	Second Prize
3	2023-24	Workshop	Kingston Engineering College	Self Defence Training Program for Girls	Sathyasadhana S Salini V Priyanka S Mathumitha S Gayathri G Monica B Monica P Gayathri G Harini Sree S Divya K Archana G	Participated
4	2023-24	Online Course	Infosys Springboard	Personal Skills For Effective Business Analysis	Priyanka S	Completed
5	2023-24	Online Course	Infosys Springboard	Business Analysis Analytical Techniques	Priyanka S	Completed
6	2023-24	Online Course	Infosys Springboard	Cloud Computing	Priyanka S	Completed
7	2023-24	Online Course	Infosys Springboard	Python Programming-01	Priyanka S	Completed
8	2023-24	Online Course	Infosys Springboard	Machine Learning With Matlab	Priyanka S	Completed
9	2023-24	Online Course	Infosys Springboard	Self Defence Training Program For Girls	Priyanka S	Completed
10	2023-24	Online Course	Infosys Springboard	Business Analyst To Data Analyst	Priyanka S	Completed
11	2023-24	Online Course	Infosys Springboard	Business Analyst	Priyanka S	Completed
12	2023-24	Online Course	Infosys Springboard	Decision Analyst	Priyanka S	Completed
13	2023-24	Online Course	Infosys Springboard	The Strategy Analysis Knowledge Area	Priyanka S	Completed
14	2023-24	Online Course	Infosys Springboard	Full Stack Development: Introduction	Priyanka S	Completed
15	2023-24	Online Course	Infosys Springboard	Ruby Full Stack Development: Introduction	Priyanka S	Completed
16	2023-24	Online Course	Infosys Springboard	Business Analysis Overview	Priyanka S	Completed
17	2023-24	Online Course	Infosys Springboard	System Analyst	Priyanka S	Completed
18	2023-24	Cultural	Kingston Engineering College	POSTER MAKING COMPETITION	Divya K	Participated

