



**KARPAGAM**  
**INSTITUTE OF TECHNOLOGY**

Inspiring Innovation

Approved by AICTE and Affiliated to Anna University

NBA Accredited (CSE, IT, ECE) | Accredited by NAAC with 'A++' grade

(An ISO 9001:2015 and ISO 14001:2015 Certified Institution)

*Department of*

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**&**

**&**

*Newsletter*

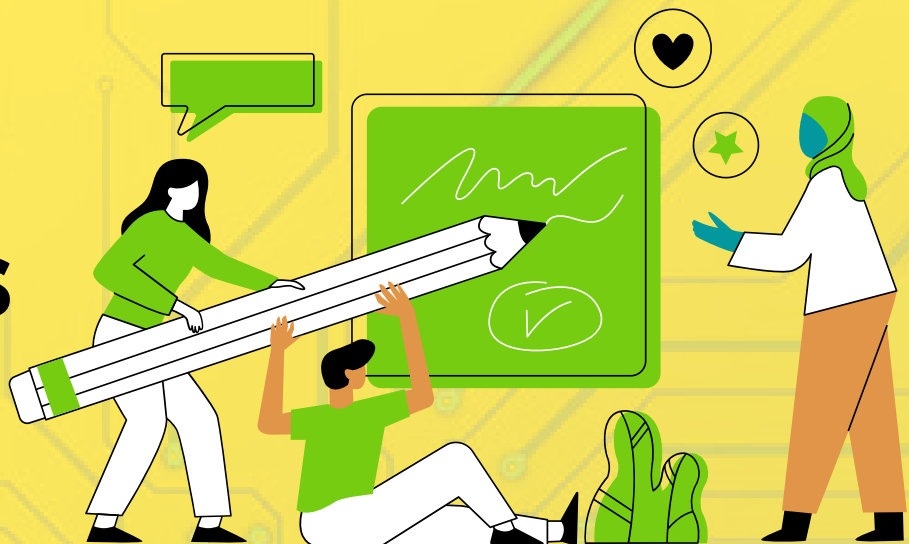
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**VOLUME 8** **ISSUE 1**



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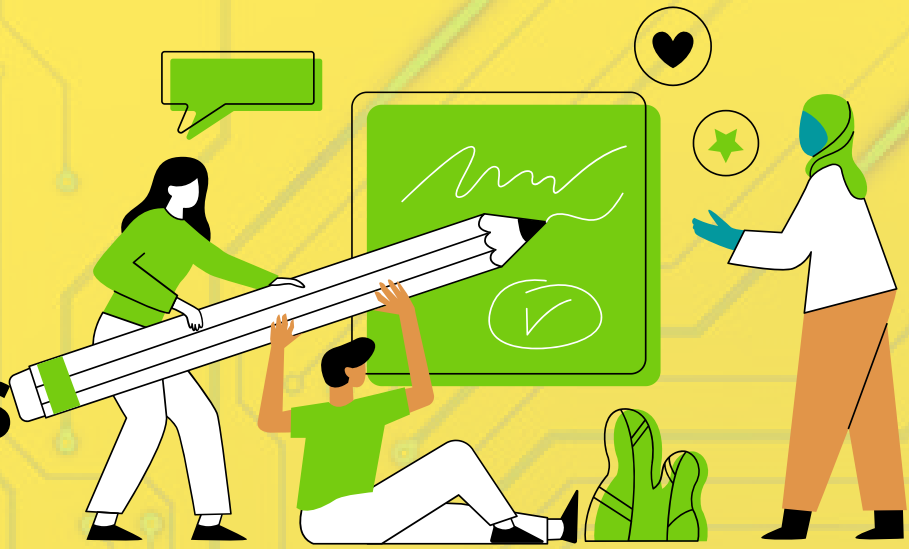
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# EDITORIAL BOARD

## CHIEF PATRONS

**Dr. R. Vasanthkumar**

Chairman and  
Managing Trustee

**Shri. V. Karthick**

Trustee

**Shri. K. Murugaiah**

CEO

## CHIEF EDITORS

**Dr. P. Manimaran**

Principal

**Dr. K. Karunambiga**

HoD / CSE

## EDITOR

**Mr. P. Vigneshkumar**

Assistant Professor  
CSE



# ABOUT THE INSTITUTION

## KARPAGAM INSTITUTE OF TECHNOLOGY

Karpagam Institute of Technology (KIT), one of the top Engineering colleges in Coimbatore, is founded by a far-sighted educationist, Dr. R. Vasantha Kumar, who with a noble aim, wanted to make higher education in engineering and technology accessible to everyone, the college is sited at NH47 near Eachnari, Coimbatore. It is a dream come true to build such a top quality Engineering college in Coimbatore.

The Engineering college stands out as a top, premier learning hub in Coimbatore with the mission of imparting excellence in top quality technical education and research. The college recognises the top performers and meritorious engineering students with educational scholarships. A team of dynamic faculty, diverse student community and the state-of-art facilities available in the premises brand the institution as a querencia. Engineering education is provided at its best in this college.

Students at KIT, one of the top Engineering colleges in Coimbatore find themselves involved in both co-curricular and extra-curricular activities. The college provides equal opportunities in sports and fine arts to showcase their talents in addition to the engineering excellence thereby aiding in their overall development. Alumni's valuable feedback is also taken to train our college students as per the top industrial requirements.

## VISION

To impart quality technical education emphasizing innovations and research with social and ethical values.

## MISSION

- Establishing state-of-the infrastructure, effective procedures for recruitment of competent faculty and innovative teaching practices.
- Creating a conducive environment for nurturing innovative ideas and encouraging research skills.
- Inculcating social and ethical values through co-curricular and extra-curricular activities.



# ABOUT THE DEPARTMENT

## COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering has been an integral part of Karpagam Institute of Technology since its establishment in 2008. The department is dedicated on producing excellent engineers. In order to do this, the faculty tries to instill professionalism, creativity, and employability in our students while also keeping up with evolving technologies. We have excellent facilities and equipment in our labs. Students are assisted by experienced and well-trained faculty members.

### VISION

To provide technical education in the field of Computer Science and Engineering by imparting employability, research capabilities, entrepreneurship with human values

### MISSION

- Adopting innovative teaching learning practices through the state-of-the-art-infrastructure.
- Establishing a conducive environment for innovations and research activities.
- Inculcating leadership skills, moral and social values through extension activities.



# ACHIEVING EXCELLENCE THROUGH POS, PSOS, AND PEOS

## PROGRAM OUTCOMES

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **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.
- **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.
- **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.
- **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.
- **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.
- **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.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **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.
- **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.
- **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.



# ACHIEVING EXCELLENCE THROUGH POS, PSOS, AND PEOS

## PROGRAM SPECIFIC OUTCOMES

- **PSO1:** Analyze, design and develop computing solutions by applying foundational concepts of Computer Science and Engineering.
- **PSO2:** Apply software engineering principles and practices for developing quality software for scientific and business applications.
- **PSO3:** Adapt to emerging Information and Communication Technologies (ICT) to innovate ideas and solutions to existing/novel problems.

## PROGRAM EDUCATIONAL OBJECTIVES

- **PEO1:** The graduates will excel in their chosen technical domains in Computer Science and Engineering.
- **PEO2:** The graduates will solve real world problems in computer science and engineering by applying logical and coding skills considering ethical values.
- **PEO3:** The graduates will work enthusiastically as a team and engage in life long learning





# Management's Desk

**Dr. R. VASANTHKUMAR**

Dr. R. Vasanthakumar, a distinguished industrialist and philanthropist, is the Chairman of Karpagam Institute of Technology, a leading engineering college in Coimbatore. He also leads Karpagam Industries, Karpagam Yarns, and Karpagam Infrastructure, employing over 2000 personnel. A Gold Medalist in Electrical & Electronics Engineering from Madras University, his academic passion fuels his educational initiatives.

Dr. R. Vasanthakumar is renowned for his philanthropy, particularly in temple maintenance and the establishment of the Panniru Thirumurai Aaivu Mayyam, which researches Ancient Tamil Saivism Literature. His efforts have earned him numerous accolades, including an Honorary Doctorate from Avinashilingam University and the title 'Kongu Nattu Sathanaiyalar' from NIA Institutions. KIT, under his vision, strives to be a top engineering education provider, aligning with Anna University standards.



# Principal's Desk

**Dr. P. MANIMARAN, M.E., M.B.A., Ph.D.**

Dr. P. Manimaran earned his B.E. from Annamalai University, MBA from Madurai Kamarajar University, M.E. from Thiagarajar College of Engineering, and PhD from Anna University in Chennai. He has worked in administration and education for around thirty years. He serves as a resource for several academic institutions and is a member of numerous expert committees. He has outstanding academic credentials and a wealth of expertise in research & development fields. And he has also received a prestigious award as a renowned scientist from Stanford University, USA.

*Our greatest glory is  
not in never falling, but  
in rising every time we  
fall*



## HOD's Desk

Dr. K. KARUNAMBIGA, M.E., Ph.D.

Dr. K. Karunambiga is a distinguished Professor at Karpagam Institute of Technology, bringing 17 years of extensive teaching experience to the institution. Her academic journey began with an undergraduate degree from Crescent Engineering College, followed by postgraduate and Ph.D. degrees from Anna University. With a strong foundation in her field and a passion for education, Dr. Karunambiga is committed to fostering academic excellence and contributing to the growth and development of her students.

Remember, your journey here is not just about earning a degree—it's about growth, discovery, and preparing yourselves to make a positive impact on the world around you.



*“We now accept the fact that learning is a lifelong process of keeping abreast of change. And the most pressing task is to teach people how to learn.”*

*– Peter Drucker*



# Events



# Association Inauguration

## Techtronautz

The department of Computer Science and Engineering has inaugurated the CSE Department association **TECHRONAUTZ** on **24.08.2023** by **Mr. Prasanth Ganesh, Founder, Preskale, Coimbatore.**



# CSE



# POWER SEMINAR ON DEVOPS

The department of Computer Science and Engineering in association with ICT Academy organized power seminar on "*DevOps*" on 24.08.2023 (Thursday) by *Mr. Prasanth Ganesh, Founder, Preskale, Coimbatore.*



“The more that you read, the more things you will know. The more that you learn, the more places you’ll go.”



# CSE

## Poster presentation on **START-UP Innovative Ideas**

In association with:  
Institution & Innovation Council (IIC)

Faculty Members  
Dr. S. S. Srinivasan  
Mrs. R. Subbulakshmi  
AP/CSE

Dr. Prabhu

Dr. D. Bhanu  
Vice Principal

Dr. K. Karan  
HoD



Garbage Collection and



Wastes are  
collected without

*Creativity is  
intelligence  
having fun.*

#POSTERPRESENTATION

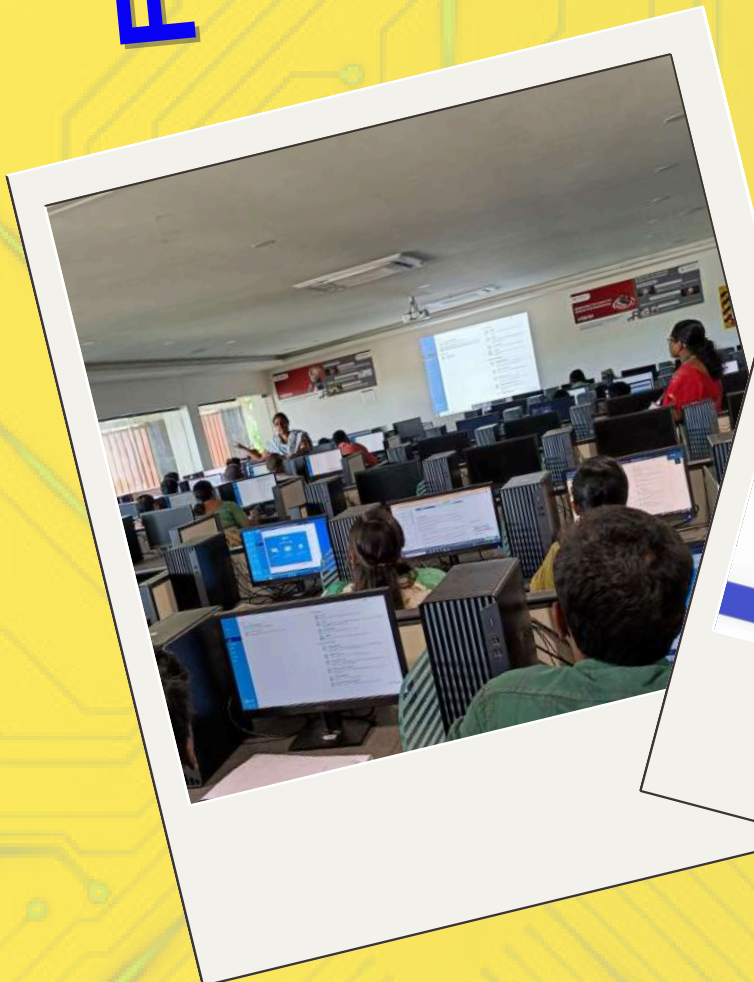
The Computer Science and Engineering Department of Karpagam Institute of Technology in association with Institution's Innovation Council organized a poster presentation on "START-UP and Innovative Ideas" on 26.08.2023. Eventually the cash prize (Rs.2000, Rs.1500, Rs.1000) were awarded for the first three winners respectively.

## POSTER PRESENTATION ON STARTUP AND INNOVATIVE IDEAS



# FACULTY DEVELOPMENT PROGRAM

ROBOTICS PROCESS  
AUTOMATION WITH HANDS -  
ON  
TRAINING ON UIPATH  
COMMUNITY EDITION



The **Department of Computer Science and Engineering** has organized **One Day Faculty Development Program** on **“Robotics Process Automation with Hands-on Training on UiPath Community Edition”** on **26.08.2023** by **Mrs. R. Pavithra, Director - Skills & Excellence, Metazord, Coimbatore.**





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**TWO DAYS HANDS-  
 ON SESSION ON CYBER  
 SECURITY TOOLS &  
 SOLIDITY**





CSE



*Learn with Responsibility*

# Workshop on "AI in Computer Vision using Python"

ON BEHALF OF KIT, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, ORGANIZED AN WORKSHOP ON 28.10.2023 BY MR. R. SATHISH, ASSISTANT PROFESSOR, KGISL INSTITUTE OF TECHNOLOGY, COIMBATORE.





## Seminar on "Ideation to mitigate security issues and challenges in the IoT"

On behalf of KIT, the **Department of Computer Science and Engineering** and **Institution's Innovation Council** organized a Seminar on "Ideation to Mitigate Security Issues and Challenges in the IoT" for II year CSE students on 28.11.2023 by **Dr. M. Udhayamoorthi**, Associate Professor, Department of Computer Science and Design, Karpagam College of Engineering, Coimbatore.



DEPARTMENT OF  
**COMPUTER SCIENCE AND ENGINEERING**  
is organizing



### Ideation to Mitigate Security Issues & Challenges in the IoT

In Association with  
Institution's Innovation Council

**Coordinators**

**Mrs. R. Subbulakshmi**  
AP / CSE

**Mrs. S. Yamini**  
AP / CSE

RESOURCE PERSON

**Dr. M. Udhayamoorthi**

Associate Professor  
Department of Computer Science and Design  
Karpagam College of Engineering  
Coimbatore



Seminar on

# My Story - Motivational Session by Successful Innovators



CSE



Seminar on  
**My Story Motivational Session by Successful Innovators**

In Association with  
Institution's Innovation Council

**Coordinators**

**Mrs. R. Subbulakshmi**  
AP / CSE

**Mrs. S. Yamini**  
AP / CSE

**Convenors**

**Dr. P. Manimaran**  
Principal

**Dr. K. Karunambiga**  
HoD / CSE

Kumar Immanuel

RESOURCE PERSON

**Mr. Sunil Subash**

Co-Founder  
SDG Schools & Annaiyin Karam Trust

29<sup>th</sup> | NOVEMBER 2023

ON BEHALF OF KIT, THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IN ASSOCIATION WITH INSTITUTION'S INNOVATION COUNCIL ORGANIZED A MOTIVATIONAL SESSION ON 29.11.2023 BY MR. SUNIL SUBASH, CO-FOUNDER SDG SCHOOLS AND ANNAIYIN KARAM TRUST.



# Alumni Interactions



# CSE

Alumni Interaction on

@KIT

# Raising the Bar to Achieve Success in Career



On behalf of KIT, Department of Computer Science and Engineering, organized an **Alumni Interaction program** on **24.08.2023**. The session was handled by our college Alumni **Mr. S. Jeeva, CEO and Founder, Techbylanz Business Solutions, Coimbatore.**



CSE

Department of CSE

# ALUMNI INTERACTION PROGRAM ON CAREER DEVELOPMENT

On behalf of KIT, Department of Computer Science and Engineering, organized an *Alumni Interaction program* on **22.09.2023** by *Alumni Mr. E. Balaji, Game Developer, Eye Brows Games, Coimbatore.*





On behalf of KIT, Department of Computer Science and Engineering, organized an **Alumni Interaction program on 02.12.2023**. The session was handled by our college **Alumni Mr.C.Hrithick, Software Developer, ZOH0 Corporation, Chennai.**

alumni interaction program  
on

**HOW TO PREPARE  
YOURSELF FOR  
PLACEMENTS**



# *Social Activities*







# Eye Camp

08.09.2023

CSE

## Awareness Program on Say no to Plastics

25.09.2023



## AIDS Awareness Campaign

01.12.2023



# PLACEMENTS



# PLACEMENT

## *Highlights*



**AWESOME PLACEMENT RECORD!!!**



# PLACEMENT

## *Highlights*



*To Be Continued....*

**AWESOME PLACEMENT RECORD!!!**



# Students

## Achievements



CSE



*Anna University Zone Match  
Table Tennis*



**3** *Place*

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



# CSE

# CHAMPIONS

## COGNIZANT DIGITAL NURTURE

# TECHNOVERSE 2023

# 3



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# Faculty

## Achievements





CSE

# NPTEL DISCIPLINE STAR



**Mrs. C. Kalpana**

ASSISTANT PROFESSOR

JULY - DECEMBER  
**2023**



CSE

# NPTEL TOPPER

*TOP 5 %*



**Mr. C. Karthikeyan**

ASSISTANT PROFESSOR

JULY - OCTOBER

**2023**



# NPTEL



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**KARTHIKEYAN**  
for successfully completing the course  
**Introduction to Internet of Things**  
with a consolidated score of **91** %

Online Assignments	24.56/25	Proctored Exam	66/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 25880

Jul-Oct 2023  
(12 week course)

*Banerji*  
Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

Institute of Technology Kharagpur

S83S93380158 To verify the certificate  No. of credits recommended: 3 or 4






*Mr. C. Karthikeyan*  
I I I  
I

**NPTEL-AICTE**  
**Faculty Development Programme**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**SUBBULAKSHMI R**  
for successfully completing the course  
**Demystifying Networking**  
with a consolidated score of **55** %

*angaraj*  
ator

CS124S35342584 Duration of NPTEL course : 4 Weeks

  
  
  
Jul-Aug 2023

Candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. Promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

*Mrs. R. Subbulakshmi*  
I

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**SENTHILPRABHU**  
for successfully completing the course  
**Demystifying Networking**  
with a consolidated score of **50** %

Online Assignments	15.83/25	Proctored Exam	34.5/75
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Total number of candidates certified in this course: 649

Jul-Aug 2023  
(4 week course)

*Sridhar*  
Prof. Sridhar Iyer  
Head CDEEP & NPTEL Coordinator  
IIT Bombay

Institute of Technology Bombay

CS124S35341504 To verify the certificate  No. of credits recommended: 1 or 2



*Mr. N. Senthilprabhu*  
I



# NPTEL



**Elite**

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**KARUNAMBIGA**  
for successfully completing the course

**Python for Data Science**

with a consolidated score of **71** %

Online Assignments	19.17/25	Proctored Exam	52.13/75
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Total number of candidates certified in this course: 7596

Jul-Aug 2023  
(4 week course)

Prof. Andrew Thangaraj  
NPTEL, Coordinator  
IIT Madras

swayam  
FREE ONLINE EDUCATION  
video text, open web

S98S45344511 To verify the certificate No. of credits recommended: 1 or 2

*Dr. K. Karunambiga*  
D D D

**Elite**

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**KALPANA C**  
for successfully completing the course

**Google Cloud Computing Foundations**

with a consolidated score of **60** %

Online Assignments	20.88/25	Proctored Exam	39.06/75
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Total number of candidates certified in this course: 4443

Aug-Oct 2023  
(8 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

swayam  
FREE ONLINE EDUCATION  
video text, open web

To verify the certificate No. of credits recommended: 2 or 3

*Mrs. C. Kalpana*  
D D

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**VIGNESHKUMAR P**  
for successfully completing the course

**Google Cloud Computing Foundations**

with a consolidated score of **51** %

Online Assignments	20.67/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 4443

Aug-Oct 2023  
(8 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

swayam  
FREE ONLINE EDUCATION  
video text, open web

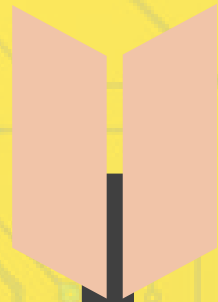
To verify the certificate No. of credits recommended: 2 or 3

*Mr. P. Vigneshkumar*  
D D





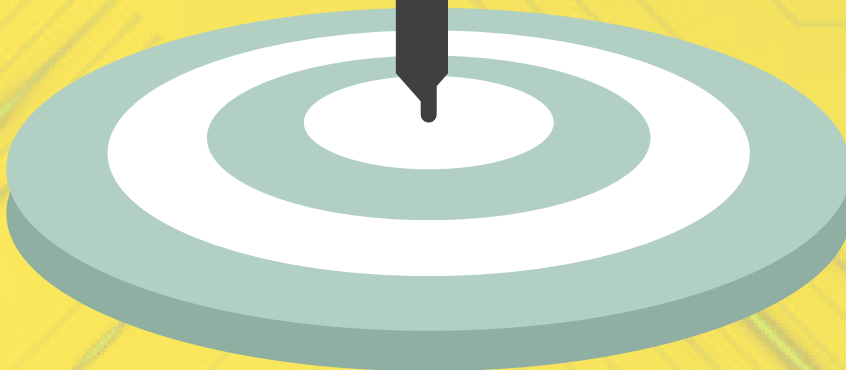
# PUBLICATIONS



**Dr. K. Karunambiga**  
Concurrency Computational Practices  
Expert

**Dr. K. Karunambiga**  
International journal of intelligent systems  
and applications in engineering

**Mr.N. Senthil Prabhu**  
YMER



# Book Chapters



**DR. K. KARUNAMBIGA**

**Taylor and francis group**

Prediction of Liver Diseases at Earliest Using Machine Learning Algorithms

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Detection of Lung Cancer Using Deep Learning Techniques

**MRS. C. KALPANA**

**Tekscience Publishers**

Current Approaches in Engineering Science and Information Technology for Society

**MR. P. VIGNESHKUMAR**

**Tekscience Publishers**

Current Approaches in Engineering Science and Information Technology for Society

**MR. N. SENTHIL PRABHU**

**AETS Global**

A Drone Delivery System for Medical Emergency



# PATENT

**DR. K. KARUNAMBIGA**

Robot for providing information  
related water resource support

**DR. K. KARUNAMBIGA**

Intelligent Charging Station  
Based On Internet Of Things

**MRS. R. SUBBULAKSHMI**

Ceiling Light



# FACULTY DEVELOPMENT PROGRAMS



## **DR. K. KARUNAMBIGA**

Cloud Infrastructure(AWS)

## **DR. D JEBAKUMAR IMMANUEL**

Impact of information technology  
in diverse domain

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Unleashing Emerging Research  
Trends and Advancements in  
Computer Science 2.0

## **DR. A. SABANAYAGAM**

Unleashing Emerging Research  
Trends and Advancements in  
Computer Science 2.0

## **DR. S. SHARAVANAN**

Unleashing Emerging Research  
Trends and Advancements in  
Computer Science 2.0

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Cloud Infrastructure(AWS)

## **DR. R. MANIKANDAN**

Emerging trends in artificial  
intelligence and machine  
learning

## **MR. P.N. RAMESH**

Modern research convergence in  
next generation computing

## **MRS. K. KALAISELVI**

Emerging technologies for next  
generation networks





# FACULTY DEVELOPMENT PROGRAMS



## MRS. C. KALPANA

Unleashing Emerging Research Trends and Advancements in Computer Science 2.0

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Cloud Infrastructure(AWS)

---

Google cloud computing foundations

---

Emotional Intelligence

---

Emerging trends in artificial intelligence and machine learning

## MR. P. VIGNESHKUMAR

Emerging technologies for next generation networks

---

Cloud Infrastructure(AWS)

---

Google cloud computing foundations

---

Emerging trends in artificial intelligence and machine learning

---

Modern research convergence in next generation computing

## MRS. P. G. BANUPRIYA

Unleashing Emerging Research Trends and Advancements in Computer Science 2.0

---

Emerging technologies for next generation networks

---

Train the Trainer program on Digital Productivity and AI Fluency

---

Data analytics and cloud development with industry use cases

---

Emerging trends in artificial intelligence and machine learning

## MR. N. SENTHILPRABHU

Emerging technologies for next generation networks

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Modern research convergence in next generation computing

## MRS. R. SUBBULAKSHMI

Unleashing Emerging Research Trends and Advancements in Computer Science 2.0

---

Cloud Infrastructure(AWS)

---

Demystifying networks

---

Modern research convergence in next generation computing

# Student Representatives





# **STUDENT REPRESENTATIVES**

**NEETHIKUMAR M**

**SAKTHI KUMAR P**

**SIBIKIRAN G**

IV CSE STUDENTS

Thank  
you



*"Computer science empowers students  
to create the world of tomorrow"*

