



**K.RAMAKRISHNAN COLLEGE OF ENGINEERING
(Autonomous)**



**Department of
Computer Science & Business Systems**

CSBS LEAD THE WAY

(July – 2025 to December – 2025)

KRCE–“CSBSLEADTHE WAY”

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CHAIRMAN'S MESSAGE



I'm excited to announce that the next issue of “CSBS LEADS THE WAY” will highlight some remarkable achievements. These milestones are a significant step forward in KRCE's pursuit of excellence. Your hard work and commitment have been essential to our success, and I sincerely appreciate your dedication. Together, we are building a future filled with promise, and I look forward to your continued support as we reach new height.

EXECUTIVE DIRECTOR'S MESSAGE



KRCE is always active in hosting conferences, symposiums, cultural events, workshops, and guest lectures. Our staff members are consistently engaged in these important activities. Looking ahead, I see our college excelling in academics, moral qualities, and higher standards of excellence. KRCE has intensified its commitment to providing quality education. I hope the college continues to reach new heights and achieves the pinnacle of success.

PRINCIPAL'S MESSAGE



Excellence in academics and social transformation are core to KRCE. We are proud of our growth in teaching, research, and innovation. Embracing change and earning stakeholders ' trust are vital. KRCE excels in academics, extracurricular, research, ICT, and student progress, offering ample professional development opportunities. We aim to lead in education with innovative teaching methods.

HOD'S MESSAGE



Welcome to the Computer Science and Business Engineering Department at KRCE. We are committed to providing a strong education that prepares students for the tech industry. Our curriculum emphasizes hands-on learning, research, and industry collaboration to equip students with essential skills.

We encourage innovation, active participation in research, and the development of both technical and soft skills to ensure success in diverse career paths. Additionally, we support involvement in workshops, internships, and extra-curricular activities to enhance practical knowledge.

EDITORIAL BOARD

Welcome to this issue of Newsletter from the Department of Computer Science and Business Systems. We are delighted to launch our CSBS Newsletter 2025. This newsletter is a digital way for us to communicate with our students, faculty members, alumni and industrial partners.

This newsletter will provide a glimpse of the departmental activities and achievements. Also, it enlightens the readers about the latest happenings in the department, focusing about different activities like placement, student and faculty achievements. We look forward for more activities and achievements for the department to march towards excellence in the future. We would like to thank all teaching, supporting staff and our beloved students for their constant support.

CHIEFPATRON

Dr.K. RAMAKRISHNAN,
Chairman, KRCE

&

Dr.S. KUPPUSAMY,
Executive Director, KRCE

PATRONS

Dr. D. SRINIVASAN
Principal, KRCE

EDITORINCHIEF

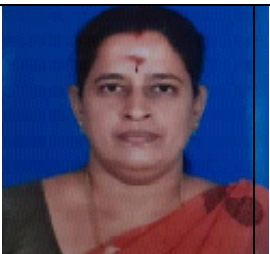
Dr. J. SASIDEVI,
HOD/CSBS, KRCE

EDITOR

Mr.V.GOKULAKRISHNAN,
AP/CSBS, KRCE

FACULTY DETAILS

Sl. No	Photo	Faculty Name	Qualification	Designation
1.		Dr. J. Sasidevi	B.E., M.E., Ph.D.	Head of the Department
2.		Dr. P. Shanmuga Priya	M.Sc., M.E., Ph.D.	Assistant Professor
3.		Mrs. B. Sathiya	B.E., M.Tech.,	Assistant Professor
4.		Mrs. N.G. Gayathri	B.E., M.E.,	Assistant Professor
5.		Mrs. P. Umamaheswari	B.E., M.E.,	Assistant Professor

6.		Mrs. M. Krithika Devi	M.Sc., M.E., (Ph.D.)	Assistant Professor
7.		Mrs. M. Karthika	B.E., M.E.,	Assistant Professor
8.		Mr. P. Ranjith	B.Tech., M.E.,	Assistant Professor
9		Mr. V. Gokulakrishnan	B.E., M.E.,	Assistant Professor
10		Dr. S. Saravana kumar	B.Tech., M.Tech.,	Assistant Professor
11		Mr. M. Santhosh kumar	B.E., M.E.,	Assistant Professor

ABOUT THE INSTITUTION

Established in the year 2008 K. Ramakrishnan college of Engineering is a leading Engineering college affiliated to Anna University, Chennai, providing valuable courses. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, TIRUCHIRAPALLI, is located in the famous temple town of Shri Samaya Puram Maariyamman temple, on the sprawling campus of 30 acres with a panoramic and pleasant view.

The Engineering College of the Institution established in the year 2008 is dedicated to the cause of “**Promotion of quality education with basic philosophy summed up as to be a center of learning, excelling in academics, which imparts state of the art knowledge to its students, encourages staff and students to actively take up research and development activities and to be an agent of promotion of ethical values to its students and staff and thus serve the society.**”

**EDUCATION IS THE MOST POWERFUL WEAPON WHICH YOU
CAN CHANGE THE WORLD**

DEPARTMENT PREFACE

Computer Science and Business Systems is about the design, development and application of computer systems. This is a constantly evolving industry. Graduates go onto careers in the development of hardware/software systems to work with consumer electronics, transport systems, medical equipment, telecommunications and many more. Our students will gain hands-on experience in engineering design and programming in addition to learning the fundamentals of mathematics and physics. Our faculty members deliver the highest quality professional education to students to develop core competencies. The Department has an excellent track record for organizing various seminars, workshops, symposia and conferences in areas of emerging technology. Our graduates are in high demand. Companies are looking for people who combine technical capabilities with communication, collaboration and leadership skills—all of which are part of the curriculum at KRCE. The Department labs are well equipped with the latest software and Hardware. E- Learning resources are provided to students through Model Learning Management System

**"TO BUILD A BETTER WORLD, USE THE
INNOVATIONS OF TO DAY TO
CREATE THE SOLUTIONS OF TOMORROW."**

OUR GOALS

- ❖ To import latest knowledge in Computer Science and Business Systems.
- ❖ Aiming to produce the maximum of distinctions in the university examinations.
- ❖ Produce the maximum number of university rank holders from this academic year.
- ❖ Valuable lectures delivered by renewed personalities from the reputed industries, for the benefit of students.
- ❖ Student's seminar to increase the presentation skills and leadership qualities.
- ❖ Students are bestowed with plentiful guest lecturers to be on par with the industrial standards.
- ❖ We had a privilege of inviting the resource personnel from the booming IT industries, which lead these edge technologies.
- ❖ Enhancing the knowledge of the student's by interacting with the industry, and their leadership qualities.
- ❖ Aiming to place the maximum number of students through on campus and off-campus interviews conducted by the top slash companies

SALIENT FEATURE

- ❖ Excellent Core and Dedicated faculty members.
- ❖ Innovative Teaching and Smart Class rooms
- ❖ Laboratories with state of the Equipment's and Instruments
- ❖ Wi-Fi Connection throughout the Campus
- ❖ Well Stacked Library
- ❖ Continuous Faculty up gradation programs
- ❖ Communication Skills
- ❖ Highly Active Training and Placement Cell
- ❖ Industrial focused curriculum and Industry-Institute Interaction
- ❖ Guest Lectures and Seminars
- ❖ Student Exchange Program with various Institutions.

VISION

To produce competent professional with industry-oriented education, adept research, technical and inventive computer science professional's acquaintance with managerial skills, human and social values.

MISSION

- ❖ Impart technical knowledge through innovative teaching, research, and consultancy.
- ❖ Impart technical knowledge through innovative teaching, research, and consultancy.
- ❖ Produce competent engineers with managerial skills, professional ethics, and a spirit of innovation.

ASSOCIATION INAUGURATION CUM GUEST LECTURE ON GEN AI FOR INDUSTRIAL AUTOMATION

The Department of Computer Science and Business Systems, K.Ramakrishnan College of Engineering (Autonomous) organized the **INNOVIT 2K25 - Association Inauguration and Guest Lecture** on August 7th, 2025. The event was coordinated by Mrs. P. Sivamalar, Assistant Professor in the CSBS department. It aimed to inspire students to embrace leadership and innovation.

Dr. Suresh Kannaiyan was the chief guest for the event. He shared his deep expertise on the revolutionary role of **Generative Artificial Intelligence** in transforming industrial automation. He elaborated on its applications in predictive maintenance, smart manufacturing systems, real-time process optimization, quality assurance, and autonomous control systems. Dr. Suresh also discussed the challenges in deploying AI in industrial settings, such as data handling, security, and integration with legacy systems, while presenting innovative solutions through real-world case studies.

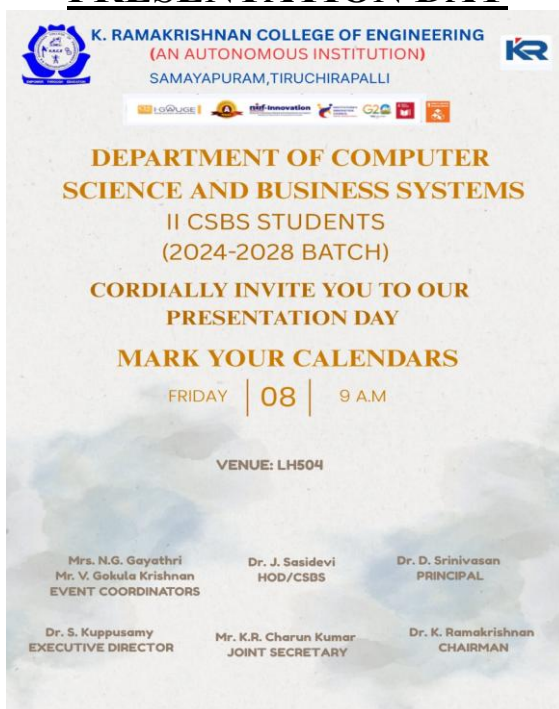


PRESENTATION DAY



Presentation Day was held on 8th August 2025, coordinated by Mrs. M. Kirithika Devi, Assistant Professor in the Department of CSBS. The session featured Dr. V. Kannan and Dr. P. Pramila, Department of Physics, as the resource person. This event served as a platform for the brilliant minds of the Third year CSBS (Batch 2023- 2027) to showcase their innovative project ideas and unveil the prototypes they had meticulously developed.

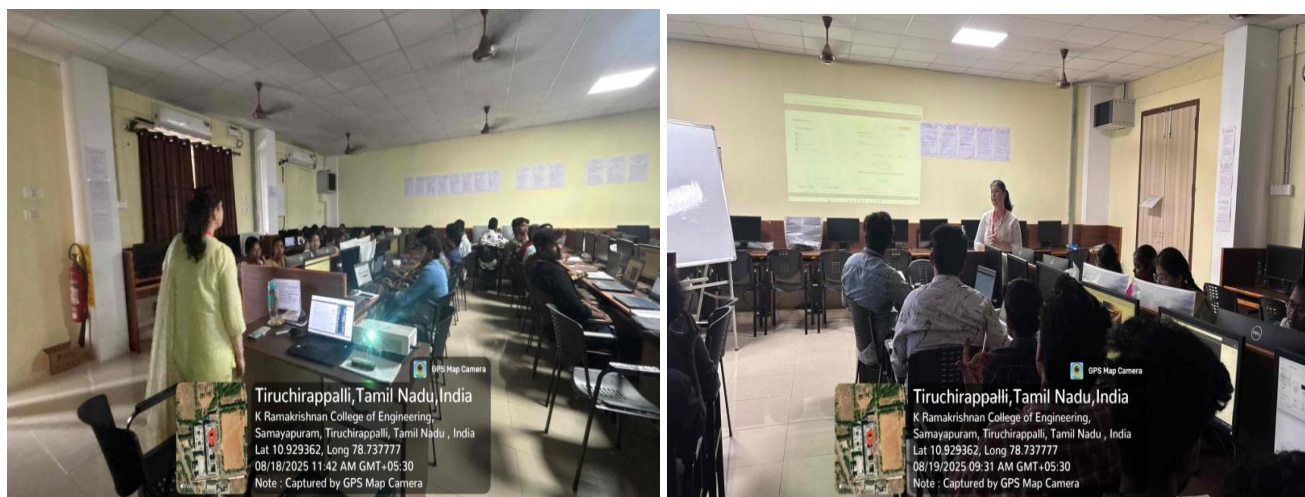
PRESENTATION DAY



Presentation Day was held on 8th August 2025, coordinated by N.G. Gayathri & Mr. V. Gokula Krishnan, Assistant Professor in the Department of CSBS. The session featured Dr. S. Selva Kumar and Dr. B. Rajeshwari, Department of Physics and Department of Chemistry, as the resource person. This event served as a platform for the brilliant minds of the Second year CSBS (Batch 2024- 2028) to showcase their innovative project ideas and unveil the prototypes they had meticulously developed.

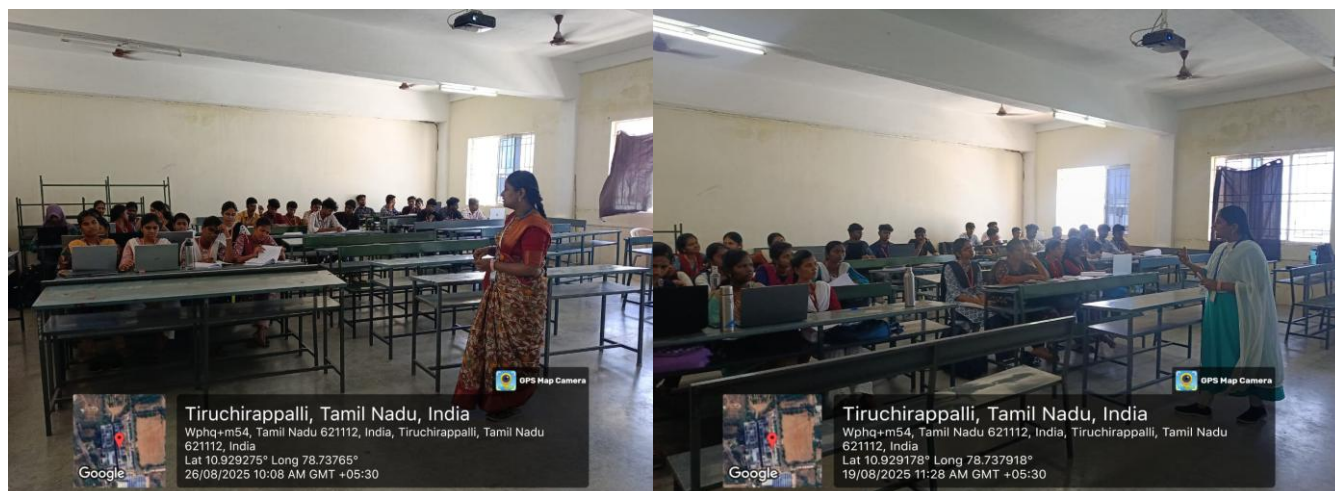
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TRAINING PROGRAM - AWS COURSE



The Department of Computer Science and Business Systems at K. Ramakrishnan College of Engineering (Autonomous) organized a training program on “**AWS Course**” from **18.08.2025 to 29.08.2025**. A total of **31 students** from the **2023–2027 Batch (III Year CSBS)** successfully completed the program. The course provided students with the opportunity to learn **Amazon Web Services (AWS)**. The sessions were conducted by **Mrs. Manochitra**, who served as the resource persons for the program.

TRAINING PROGRAM - AZURE COURSE



The Department of Computer Science and Business Systems at K. Ramakrishnan College of Engineering (Autonomous) organized a training program on “**AZURE Course**” from **18.08.2025 to 29.08.2025**. A total of **32 students** from the **2023–2027 Batch (III Year CSBS)** successfully completed the program. The course provided students with the opportunity to learn **Microsoft Azure**.

INNOVATION TOOLKIT: PRACTICAL SKILLS FOR ASPIRING ENTREPRENEURS



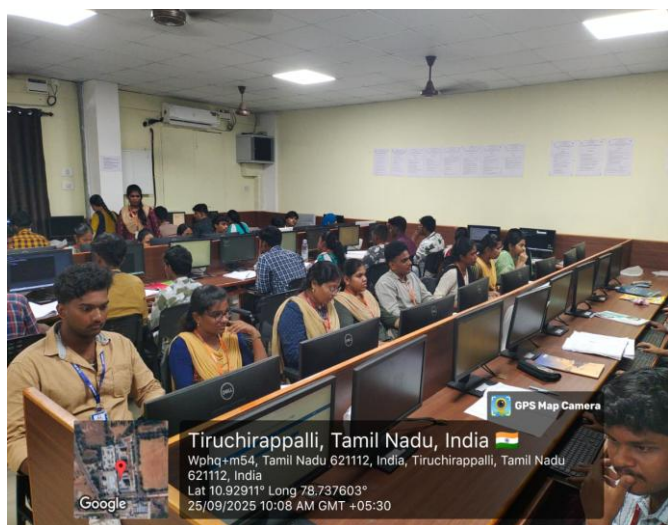
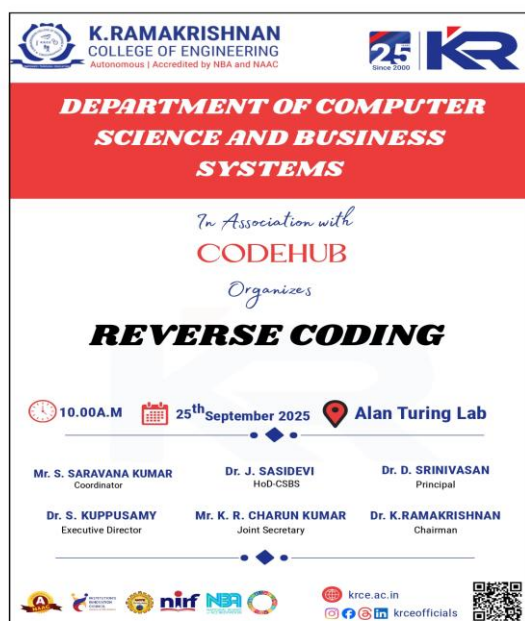
The Institution Innovation Council of K.Ramakrishnan College of Engineering and Department of CSBS organized seminar on “**Innovation Toolkit: Practical skills for aspiring Entrepreneurs**” on 30.08.25. The chief guest **Mr.A.ARUN B.E, Founder & CEO of Top Tech Developers, Chennai** delivered presentation on how to have Practical skills for aspiring Entrepreneurs

Intra-Department Quiz Competition



The department of CSBS organized an engaging **Intra-Department Quiz Competition** titled “**BUG BUSTERS**” on 21st August 2025. This event was designed to provide a stimulating platform for students to sharpen their problem-solving ability, enhance logical reasoning, and develop efficient debugging skills, all within a fun and competitive atmosphere

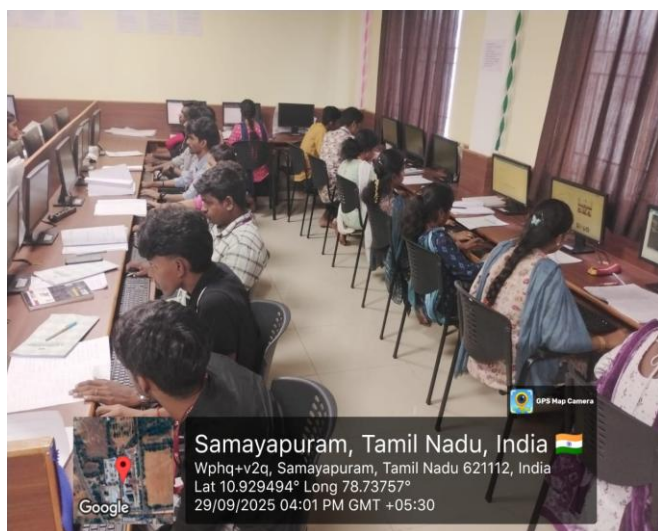
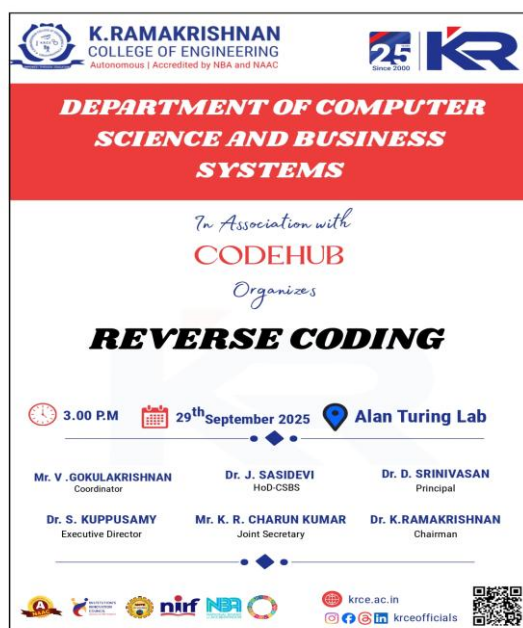
Intra-Department Reverse Coding Competition



The department of CSBS organized an engaging **Intra-Department Reverse coding - Debugging Competition** titled “**CODE HUB**” on **25th September 2025**. This event was designed to provide a stimulating platform for students to sharpen their problem-solving ability, enhance logical reasoning, and develop efficient debugging skills, all within a fun and competitive atmosphere. The event witnessed an enthusiastic participation of over 57 students from the 3rd year of the CSBS department. The competition was designed to engage students with thought-provoking questions related to programming, debugging, and core computing concepts.

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Intra-Department Reverse Coding Competition



The department of CSBS organized an engaging **Intra-Department Reverse coding - Debugging Competition** titled “**CODE HUB**” on **29th September 2025**. This event was designed to provide a stimulating platform for students to sharpen their problem-solving ability, enhance logical reasoning, and develop efficient debugging skills, all within a fun and competitive atmosphere. The event witnessed an enthusiastic participation of over 54 students from the 2nd year of the CSBS department. The competition was designed to engage students with thought-provoking questions related to programming, debugging, and core computing concepts.

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EXTRA & CO CURRICULAR ACTIVITIES

Harish KV, Janani J and Hariprakash R of III Year Computer Science and Business Systems students secured second place in the “**Hackathon Event**” conducted at Isysway on 20.09.2025. Their innovative approach, teamwork, and problem-solving skills were highly appreciated by the judges, showcasing their technical excellence and creativity in developing effective solutions.



Sarveshwar S., a student of III Year Computer Science and Business Systems, secured the Second Prize in Singles Carrom and the **First Prize in Doubles Carrom** conducted at the Dindigul District Level Match. His outstanding performance and consistent focus demonstrated excellent strategic skills and sportsmanship, bringing pride to the department.



Harish K. V., and **Janani J.,** a student of III Year Computer Science and Business Systems, received the **NPTEL Disciplinary Star award** for his exceptional academic performance and dedication to continuous learning through online certification courses. His achievement reflects his commitment to excellence and enthusiasm for expanding knowledge beyond the classroom.





The participants from the **Department of Computer Science and Business Systems (CSBS)**, comprising both boys and girls, were awarded as the **runners-up** in the **March Past** event during the **Independence Day Function** at **K. Ramakrishna College of Engineering** on **15th August 2025**.

Congratulations
to **Mr. K. KRISHNA**
DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS
Batch: 2022 - 2026

PLACED IN
Zoho
MTS_DEVOPS
7 LPA
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DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Congrats!
BATCH
2022-2026

Placed In
LTIMindtree
SOFTWARE TRAINEE



Ms. J. ROSHNA PARVEEN



Ms. M. ARTHY



Ms. M. SRIVIDHYA

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COLLEGE OF ENGINEERING
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DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Congrats!
BATCH
2023-2027

Internship:
MENMOZHI TECHNOLOGIES



Mr. K. V. HARISH



Ms. J. JANANI



Ms. M. SOWMIYA



Ms. S. MAHALAKSHMI



Ms. M. MEKALA



Ms. V. SREENITHI



Mr. S. KRITHIK RAGUL



Ms. S. MANASAA





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College of Engineering**

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Samayapuram, Tiruchirappalli - 621 112, Tamilnadu, India.



DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Congrats!

-BATCH-

2022-2026

Placed In

Infosys

SYSTEMS ENGINEER (TRAINEE)



Ms. R. SWATHI



Ms. D. MIRUDHULA



Ms. G. BHUVANESWARI



Ms. S. REENA



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DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Congrats!

-BATCH-

2022-2026

Placed In

**TCS TATA
CONSULTANCY
SERVICES**

NINJA



Ms. K. T. KULAPRAGALAYA



Mr. R. MUTHURAJA



Ms. M. SRIVIDHYA



**Mr. S. NIRMAL SIVARAM
KUMAR**



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DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Congrats!

BATCH

2022-2026

Placed In



NINJA



Ms. G. BHUVANESWARI



Mr. B. BALASUBRAMANIAM



Mr. K. GNANAGURU



Mr. K. KISHANT



Ms. C. P. JEEVIKA

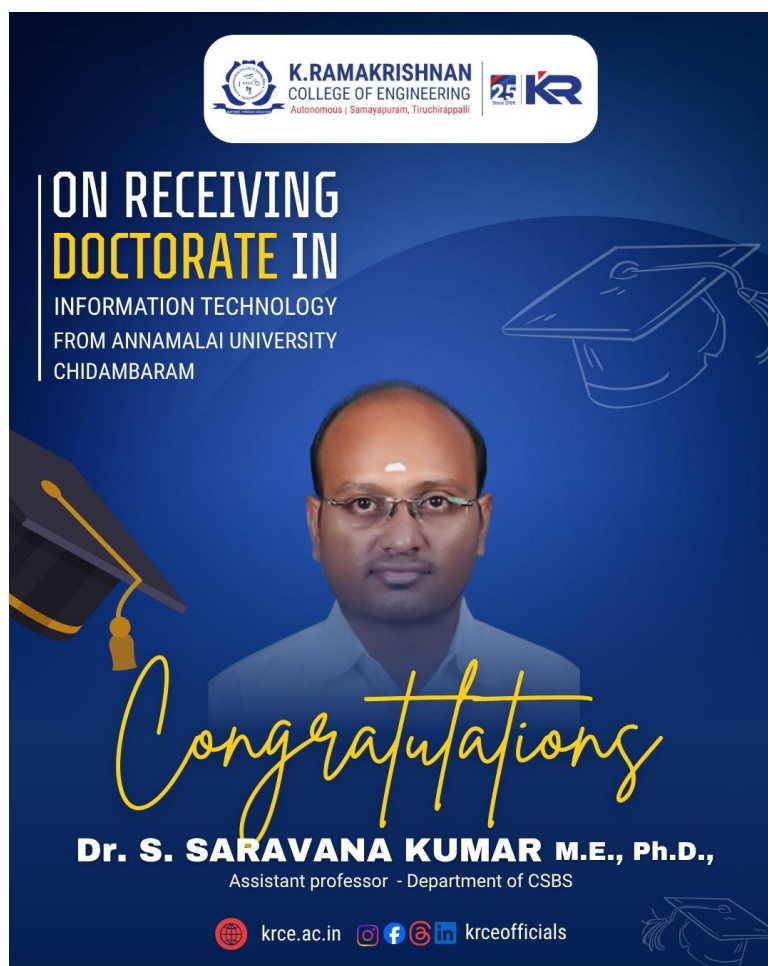


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FACULTY ACHIEVEMENT



NPTEL CERTIFICATE

NPTEL DISCIPLINE STAR CERTIFICATE




CERTIFICATE OF APPRECIATION
TO

J SASIDEVI
Computer Science and Engineering
for being recognized as NPTEL DISCIPLINE STAR
JUL-DEC 2025


Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM


Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

NPTEL DISCIPLINE STAR
Candidate has to be certified in courses of same discipline, completed more than 50 weeks of learning, final score in each subject >= 55




CERTIFICATE OF APPRECIATION
TO

DR P SHANMUGA PRIYA
Computer Science and Engineering
for being recognized as NPTEL DISCIPLINE STAR
JUL-DEC 2025


Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM


Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

NPTEL DISCIPLINE STAR
Candidate has to be certified in courses of same discipline, completed more than 50 weeks of learning, final score in each subject >= 55



KRCE – “CSBS LEAD THE WAY”

NPTEL – COURSE CERTIFICATE

Course: Introduction to Machine Learning Staff Name: Dr. J. Sasidevi Elite NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India) This certificate is awarded to J SASIDEVI for successfully completing the course Introduction to Machine Learning with a consolidated score of 63 % <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Online Assignments</td> <td>24.69/25</td> <td>Proctored Exam</td> <td>37.88/75</td> </tr> </table> Total number of candidates certified in this course: 6928 Jul-Oct 2025 (12 week course) Prof. Andrew Thangaraj Chair Centre for Outreach and Digital Education, IITM Prof. Vignesh Muthuvijayan NPTEL Coordinator IIT Madras Indian Institute of Technology Madras swayam Roll No: NPTEL25CS91S466200117 To verify the certificate No. of credits recommended: 3 or 4	Online Assignments	24.69/25	Proctored Exam	37.88/75	Course: Introduction to Large Language Models Staff Name: Dr. J. Sasidevi Elite NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India) This certificate is awarded to J SASIDEVI for successfully completing the course Introduction to Large Language Models (LLMs) with a consolidated score of 71 % <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Online Assignments</td> <td>24.5/25</td> <td>Proctored Exam</td> <td>46.75/75</td> </tr> </table> Total number of candidates certified in this course: 4747 Jul-Oct 2025 (12 week course) Prof. Andrew Thangaraj Chair Centre for Outreach and Digital Education, IITM Prof. Vignesh Muthuvijayan NPTEL Coordinator IIT Madras Indian Institute of Technology Madras swayam Roll No: NPTEL25CS16S1166200061 To verify the certificate No. of credits recommended: 3 or 4	Online Assignments	24.5/25	Proctored Exam	46.75/75
Online Assignments	24.69/25	Proctored Exam	37.88/75						
Online Assignments	24.5/25	Proctored Exam	46.75/75						
Course: Introduction to Machine Learning Staff Name: Dr. P. Shanmuga Priya NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India) This certificate is awarded to DR P SHANMUGA PRIYA for successfully completing the course Introduction to Machine Learning with a consolidated score of 56 % <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Online Assignments</td> <td>24.69/25</td> <td>Proctored Exam</td> <td>31.5/75</td> </tr> </table> Total number of candidates certified in this course: 6928 Jul-Oct 2025 (12 week course) Prof. Andrew Thangaraj Chair Centre for Outreach and Digital Education, IITM Prof. Vignesh Muthuvijayan NPTEL Coordinator IIT Madras Indian Institute of Technology Madras swayam Roll No: NPTEL25CS91S466200102 To verify the certificate No. of credits recommended: 3 or 4	Online Assignments	24.69/25	Proctored Exam	31.5/75	Course: Introduction to Large Language Models Staff Name: Dr. P. Shanmuga Priya NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India) This certificate is awarded to DR P SHANMUGA PRIYA for successfully completing the course Introduction to Large Language Models (LLMs) with a consolidated score of 56 % <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Online Assignments</td> <td>24.38/25</td> <td>Proctored Exam</td> <td>31.13/75</td> </tr> </table> Total number of candidates certified in this course: 4747 Jul-Oct 2025 (12 week course) Prof. Andrew Thangaraj Chair Centre for Outreach and Digital Education, IITM Prof. Vignesh Muthuvijayan NPTEL Coordinator IIT Madras Indian Institute of Technology Madras swayam Roll No: NPTEL25CS16S1266200108 To verify the certificate No. of credits recommended: 3 or 4	Online Assignments	24.38/25	Proctored Exam	31.13/75
Online Assignments	24.69/25	Proctored Exam	31.5/75						
Online Assignments	24.38/25	Proctored Exam	31.13/75						
Course: Introduction to Industry 4.0 and IOT Staff Name: Mr. P. Ranjith Elite NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India) This certificate is awarded to RANJITH P for successfully completing the course Introduction to Industry 4.0 and Industrial Internet of Things with a consolidated score of 83 % <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Online Assignments</td> <td>24.56/25</td> <td>Proctored Exam</td> <td>58.5/75</td> </tr> </table> Total number of candidates certified in this course: 19100 Jul-Oct 2025 (12 week course) Prof. Haimanti Banerji Coordinator, NPTEL IIT Kharagpur Indian Institute of Technology Kharagpur swayam Roll No: NPTEL26CS146S966200324 To verify the certificate No. of credits recommended: 3 or 4	Online Assignments	24.56/25	Proctored Exam	58.5/75	Course: Introduction to IOT Staff Name: Mrs. M. Kirithika Devi Elite NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India) This certificate is awarded to KIRITHIKA DEVI M for successfully completing the course Introduction to Internet of Things with a consolidated score of 72 % <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Online Assignments</td> <td>24.78/25</td> <td>Proctored Exam</td> <td>47.45/75</td> </tr> </table> Total number of candidates certified in this course: 50282 Jul-Oct 2025 (12 week course) Prof. Haimanti Banerji Coordinator, NPTEL IIT Kharagpur Indian Institute of Technology Kharagpur swayam Roll No: NPTEL25CS147S1066800164 To verify the certificate No. of credits recommended: 3 or 4	Online Assignments	24.78/25	Proctored Exam	47.45/75
Online Assignments	24.56/25	Proctored Exam	58.5/75						
Online Assignments	24.78/25	Proctored Exam	47.45/75						

Course: Cyber Security and Privacy

Staff Name: Dr. S. Saravana Kumar

Elite



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to
SARAVANA KUMAR S
for successfully completing the course



Cyber Security and Privacy

with a consolidated score of **61** %

Online Assignments	25/25	Proctored Exam	36.43/75
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Total number of candidates certified in this course: **9907**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Oct 2025
(12 week course)

M. Vignesh
Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Roll No: NPTEL25CS116S570500633 To verify the certificate No. of credits recommended: 3 or 4

Course: Introduction to IOT

Staff Name: Mrs. B. Sathya

Elite



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to
SATHIYA B
for successfully completing the course



Introduction to Internet of Things

with a consolidated score of **78** %

Online Assignments	23.25/25	Proctored Exam	55.1/75
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Total number of candidates certified in this course: **50282**

Jul-Oct 2025
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Roll No: NPTEL25CS147S1070501586 To verify the certificate No. of credits recommended: 3 or 4

Course: Introduction to IOT

Staff Name: Mrs. P. Uma maheshwari

Elite



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to
P UMA MAHESWARI
for successfully completing the course



Introduction to Internet of Things

with a consolidated score of **76** %

Online Assignments	23.94/25	Proctored Exam	52.04/75
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Total number of candidates certified in this course: **50282**

Jul-Oct 2025
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Roll No: NPTEL25CS147S1070501700 To verify the certificate No. of credits recommended: 3 or 4

Course: Cyber Security and Privacy

Staff Name: Mr. V. Gokulakrishnan

Elite



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to
GOKULAKRISHNAN V
for successfully completing the course



Cyber Security and Privacy

with a consolidated score of **60** %

Online Assignments	25/25	Proctored Exam	34.9/75
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Total number of candidates certified in this course: **9907**

Jul-Oct 2025
(12 week course)

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

M. Vignesh
Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Roll No: NPTEL25CS116S566200228 To verify the certificate No. of credits recommended: 3 or 4

Course: NPTEL Mentor Certificate

Staff Name: Mr. P. Ranjith



**CERTIFICATE
OF APPRECIATION**
is awarded to

RANJITH P

K. RAMAKRISHNAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI, TAMIL NADU

In recognition of his/her role as mentor for the
NPTEL Online Certification course



Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

JUL - DEC 2025

Members Enrolled	Members Present	Score (in %)		Certified (Score in %)				Toppers
		<40	40-59	60-74	75-89	>=90		
11	5	0	0	5	0	0	0	0

GLOBAL CERTIFICATION

Certificate: Azure Fundamentals Dr. P. Shanmuga Priya

Microsoft Certified Azure Fundamentals

SHANMUGAPRIYA P

has successfully completed the requirements of
Azure Fundamentals

Date Issued: December 16, 2025



N. Sathya
Sathya Nadella
Chief Executive Officer



Course: Introduction to Large Language Models Staff Name: Dr. S. Saravana Kumar



S SARAVANA KUMAR

has successfully passed all requirements for

Microsoft Certified: Azure Fundamentals

Credential ID: 65098D0EFF2DF8F5

Certification number: C78CPB-B4ABDE

Earned on: December 6, 2025

✓ Online Verifiable



S. Saravana Kumar
Sathya Narayana Nadella

Course: Introduction to Machine Learning Staff Name: Mrs. P. Uma maheshwari

Microsoft Certified Azure Fundamentals

P UMA MAHESWARI

has successfully completed the requirements of
Azure Fundamentals

Date Issued: December 16, 2025



N. Sathya
Sathya Nadella
Chief Executive Officer



Course: Introduction to Large Language Models Staff Name: Mrs. B. Sathya

Microsoft Certified Azure Fundamentals

SATHIYA B

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Azure Fundamentals

Date Issued: December 16, 2025



N. Sathya
Sathya Nadella
Chief Executive Officer



Course: Introduction to Industry 4.0 and IoT Staff Name: M. Kirithika Devi

Microsoft Certified Azure Fundamentals

M KIRITHIKA DEVI

has successfully completed the requirements of
Azure Fundamentals

Date Issued: December 16, 2025



N. Sathya
Sathya Nadella
Chief Executive Officer



verify.certport.com: F5R8-XM5n

verify.certport.com: L4Sq-sF7K

KRCE – “CSBS LEAD THE WAY”

FACULTY FDP (ATAL) CERTIFICATION

Title: Next-Gen Computing: From Mathematical Models to AI in Computer Vision at National Institute of Technology Hamirpur
Staff Name: Dr. J. Sasidevi

Title: Next-Gen Computing: From Mathematical Models to AI in Computer Vision at National Institute of Technology Hamirpur
Staff Name: Dr. P. Shanmuga Priya

Title: Next-Gen Computing: From Mathematical Models to AI in Computer Vision at National Institute of Technology Hamirpur
Staff Name: Mrs. P. Uma maheshwari



Title: Optimizing Next-Gen Computing for Smart System Development at National Institute of Technology Warangal
Staff Name: Mrs. B. Sathva



Title: Next-Gen Computing: From Mathematical Models to AI in Computer Vision at National Institute of Technology Hamirpur
Staff Name: Dr. S. Saravana Kumar



Title: Optimizing Next-Gen Computing for Smart System Development at National Institute of Technology Warangal
Staff Name: Dr. S. Saravana Kumar



Title: Next-Gen Computing: From Mathematical Models to AI in Computer Vision at National Institute of Technology Hamirpur
Staff Name: Mr. V.Gokulakrishnan



Title: Optimizing Next-Gen Computing for Smart System Development at National Institute of Technology Warangal
Staff Name: Mr. V.Gokulakrishnan



Title: Optimizing Next-Gen Computing for Smart System Development at National Institute of Technology Warangal
Staff Name: Mrs. M. Karthika



Title: Optimizing Next-Gen Computing for Smart System Development at National Institute of Technology Warangal
Staff Name: M. Kirithika Devi



Title: Optimizing Next-Gen Computing for Smart System Development at National Institute of Technology Warangal
Staff Name: Mrs N.G.Gayathri



PATENT PUBLICATION FACULTIES AND STUDENTS

Mr.V.Gokulakrishnan

Dr.S.Saravana kumar

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/08/2025

(21) Application No.202541078439 A

(43) Publication Date : 29/08/2025

(54) Title of the invention : A Smart AI-IoT-Enabled Water Heater System for Real-Time Detection and Prevention of Electrical Leakages

(51) International classification : F24H15/124, F24H15/128, F24H15/395, F24H9/20, G16Y40/10, G16Y40/20, H02H3/16, H02H3/28
(86) International Application No : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
(62) Divisional to Application Number : NA

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(57) Abstract :
ABSTRACT: Electrical hazards caused by faulty or aging water heaters remain a critical safety issue, particularly in regions with inadequate grounding systems and fluctuating power supply. Traditional water heaters operate without any fault-detection intelligence, leaving users vulnerable to electric shock, appliance damage, or even fire. In order to address this issue developed a Smart Water Heater with Real-Time Electrical Leakage Detection and Prevention, integrating an array of sensors and smart control logic to proactively monitor and mitigate electrical risks. The system is equipped with Residual Current Sensors (RCS) and Ground Fault Detection Modules, which continuously monitor leakage current flow through the water heater's metallic body and water outlet path. A microcontroller system evaluates these signals in real-time, and upon detection of leakage above a safe threshold (e.g., >30mA), it activates an electromagnetic relay switch to disconnect power instantly. Complementary sensors such as temperature sensors, current transformers (CTs), and voltage sensors ensure safe thermal and electrical operation. Data collected is transmitted via IoT modules (Wi-Fi) to a mobile application for real-time user alerts and remote diagnostics. This automated safety solution reduces the risk of electric shock, supports early maintenance, optimizes energy usage, and ensures long-term appliance health. Such AI-IoT-assisted smart water heater systems will not only protect users but also promote safe, energy-efficient living, especially in resource-constrained and high-risk environments.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/09/2025

(21) Application No. 202541082972 A

(43) Publication Date : 19/09/2025

(54) Title of the invention : An Intelligent AI-IoT Optimized Framework for Real-Time Adaptive Traffic Signal Control based on Vehicle Density

(51) International classification : G08G0001010000, G08G0001080000, G08Q0050240000, G08G0001096500, G08G0001017000
(86) International Application No : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
(62) Divisional to Application Number : NA

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(57) Abstract :
ABSTRACT: Urban areas are increasingly plagued by traffic congestion due to the exponential growth in vehicle population and outdated traffic management systems. Traditional traffic signals operate on fixed-time intervals, which fail to adapt to real-time traffic fluctuations. This results in unnecessary delays, fuel wastage, increased pollution, and compromised emergency response times. The need for a dynamic, intelligent, and context-aware traffic control system has become more pressing than ever, especially in smart city development initiatives. The system utilizes a network of IoT-enabled devices and sensors, including high-resolution cameras for live vehicle detection, infrared and ultrasonic sensors for measuring vehicle presence and distance, and microphones capable of recognizing emergency vehicle sirens. These sensors are connected to edge devices like Raspberry Pi or Arduino, which process the data locally and communicate with a central AI model for decision-making. The system dynamically adjusts traffic signal timings depending on lane-wise vehicle density, ensuring smoother traffic flow. In addition to reducing traffic congestion, the proposed framework improves emergency response by detecting sirens and prioritizing emergency vehicles. It benefits the public by cutting wait times, saving fuel, reducing emissions, and enhancing road safety. The system is scalable for smart cities and supports data-driven urban planning, contributing to a more efficient and sustainable traffic management solution.

No. of Pages : 12 No. of Claims : 5