



R.M.K. ENGINEERING COLLEGE

(An Autonomous Institution)



DEPARTMENT OF INFORMATION TECHNOLOGY

Annual Newsletter
2023-24



Knowledge Partner &
Powered by
virtusa

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Dr. K. Manivannan

Dean External Affairs

Chief Editor

Dr. M. Sheerin Banu

Professor & Head - IT

Dr. K. Saravanan

Associate Professor

Dr. S. Selvakanmani

Associate Professor

Dr. A. Vijayaraj

Associate Professor

Dr. T. Mahalingam

Associate Professor

Dr. A. Anna Lakshmi

Associate Professor

Dr. R. Rajitha Jasmine

Associate Professor

Mr. L. Vinoth Kumar

Assistant Professor

Mr. N. Shanmugam

Assistant Professor

Ms. M. Rekha

Assistant Professor

Ms. M. Kanniga Parameshwari

Assistant Professor

Ms. S. Shobana

Assistant Professor

Ms. K. Selvi

Assistant Professor

Ms. S. Nandhini

Assistant Professor

Ms. T. Akila

Assistant Professor

Mr. S. Nagarajan

Assistant Professor

VISION & MISSION



VISION

- ✔ To be the most preferred destination in the country for imparting education in Information Technology, at the undergraduate and research levels.
- ✔ To transform the learners into innovators at the global level to provide solutions for emerging societal challenges.

MISSION

- ✔ To provide an infrastructure and adopt creative teaching techniques to promote participatory learning.
- ✔ To develop high personal and professional values, technical competence and a spirit of innovation and entrepreneurship.
- ✔ To encourage the desire for higher learning and research, to address global challenges.
- ✔ Collaborate with industry to gain knowledge on their current trends.
- ✔ To provide opportunity for nurturing skills that leads to career excellence.



ABOUT THE DEPARTMENT

The Department of Information Technology was started in the year 1999 with an intake of 30 students in B.Tech Information Technology and at present, the sanctioned intake is 120. The National Board of Accreditation (NBA), New Delhi, has accredited the Program B.Tech Information Technology. The Department aims at providing domain specific training and skills to the students for pursuing a career in Information Technology. Our mission is to create a conducive environment for technical learning, fostering a desire for higher education and research in the field of Information Technology. Additionally, we aim to equip our learners with the necessary skills to tackle global challenges, nurture an entrepreneurial and innovative mindset. We provide personalized care and counseling to our students, ensuring their holistic development. A dedicated team of 16 faculty members contributes to the holistic development of students. The faculty team includes Two Professors, Five Associate Professors and Nine Assistant Professors.

The Department has well-equipped state-of-the-art laboratory facilities to carry out various projects, research and consultancy activities. The department has received AICTE-CII Award 2018 for the Best Industry-Linked Institute for Computer & IT Engineering & Allied Courses (Established-Degree).

Virtusa Consulting Services Pvt. Ltd., our esteemed Knowledge Partner, contributes to the design of 40.38% of the B.Tech Information Technology curriculum and syllabus. The curriculum includes a majority of Practicum Integrated Courses that focus on niche areas. Expert professionals from Virtusa deliver course contents, which are further enhanced by the AI-driven learning platform, RMK Nextgen, providing students with a personalized learning experience. The Department of Information Technology is recognized as a Research Centre under Anna University, Chennai.



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virtusa

COURSES OFFERED

B.Tech - Information Technology

Knowledge Partner and Powered by Virtusa

Collobrated with Mr. Cooper for student & faculty engagement activities

HONOURS DEGREE OFFERED:

B. TECH - HONOURS IN INFORMATION TECHNOLOGY WITH SPECIALIZATION IN

- Full Stack Engineering
- Fintech and Web 3.0
- Artificial Intelligence
- Data Science
- Media Processing
- Cyber Security
- Quantum Computing

MINOR DEGREE OFFERED:

B. TECH - INFORMATION TECHNOLOGY WITH MINOR DEGREE IN

- Internet of Things
- Robotics and Automation
- Electric Vehicle Technology
- Embedded Systems
- Business Analytics
- Entrepreneurship and Innovation

Ph.D. - INFORMATION AND COMMUNICATION ENGINEERING



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INDUSTRIAL VISITS

Batch : 2020-2024



**Sansbound Solutions Pvt Ltd,
Chennai**

Batch :2020-24

Year: Final Year

No of Students : 57

02-Nov-2023

RETECH

Batch : 2020-24

Year : Final Year

No of Students : 57

29-September-2023



INDUSTRIAL VISITS



Retech Laser Solutions, Chennai

Batch :2021-25
Year: Third Year
No of Students :61
20-Sep-2023

Sansbound Solutions, Chennai

Batch :2021-25
Year: Third Year
No of Students :61
03-Nov-2023



Virtusa Consulting Services Private Limited,

Navalur, Chennai
Batch :2022-26
Year: Second Year
No of Students :125
06-Jan-2024

IITM Research Park, Chennai

Batch :2021-25
Year: Third Year
No of Students : 49
02-Mar-2024



INDUSTRIAL VISITS



RETECH

Batch :2022-26
Year : Second year
No of Students : 129
04-September-2023

THE INDIAN EXPRESS

IITM RESEARCH PARK

Batch :2022-26
Year : Second Year
No of Students : 129
04-November-2023



Virtusa Consulting Services Pvt Ltd,

Navalur, Chennai

Batch :2022-26
Year: Second Year
No of Students :125
06-January-2024

IITM Innovation Hub

Batch :2022-26
Year : Second Year
No of Students : 129
16-March-2024



KNOWLEDGE PARTNER BOOTCAMPS & MASTERCLASSES



Bootcamp on **Microservice Architecture** by Mr. S. Rajkumar, Associate Director, Learning and Campus, Virtusa Consulting Services Private Limited, Chennai on 7th October 2023.

Bootcamp on **React** by Mr. S. Rajkumar, Associate Director, Learning and Campus, Virtusa Consulting Services Private Limited, Chennai on 3rd February 2024.



Hands-on Workshop on **Microservice Architecture** by Mr. N. Akash Karthik, Software Development Engineer (SDE III), Glance, Chennai on 21st October 2023.



GUEST LECTURES



R.M.K. ENGINEERING COLLEGE
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DEPARTMENT OF INFORMATION TECHNOLOGY
Guest Lecture
On
Design and Analysis of Algorithms

Resource Person
Dr. Yadu Vasudev
Assistant Professor
Department of CSE
Indian Institute of Technology Madras
(IITM)

DATE
30 September, 2023

TIME
9:00AM TO 11:00 AM

LOCATION
RJ Block First Floor Seminar Hall
R.M.K. Engineering College
www.rmkec.ac.in

Guest Lecture on **Design and Analysis of Algorithms** by Dr. Yadu Vasudev, Assistant Professor, Department of CSE, IITM, Chennai on 30th September 2023.

Guest Lecture on **Cybersecurity Fundamentals** by Mr. Rakesh Elamaran, Security Engineer, Comcast, Chennai on 14th October 2023.



R.M.K. ENGINEERING COLLEGE
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DEPARTMENT OF INFORMATION TECHNOLOGY

Guest Lecture
on
Cybersecurity Fundamentals

SPEAKER
RAKESH ELAMARAN
Security Engineer,
Comcast, Chennai

III YEAR IT STUDENTS

SATURDAY
14 OCTOBER 2023

TIME
01.30-03.00 PM



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R.S.M Nagar, Kavarappattai, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu - 601206.
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Department of Information Technology
Presents
Neural Networks

Date : 03.02.2024 @ 9.30 am
Venue : RJ Block Seminar Hall First Floor
Participants : Students & Faculty Members

Dr. Y. Nancy Jane, Assistant Professor, Anna University, Chennai

ORGANIZING COMMITTEE

Smt. Manjula Munirathinam Chairperson Shri. R. M. Kishore Vice - Chairman Smt. Sowmya Kishore Management Trustee Dr. M. K. Sivagnana Prabhu Dean - CDC	Shri. R. S. Munirathinam Founder & Chairman Shri. Yalamanchi Pradeep Secretary Dr. K.A. Mohamed Junaid Principal Dr. S. Pavai Madheswari Academic Co-ordinator	Shri. R. Jothi Naidu Director Dr. Durgadevi Pradeep Vice - Chairperson Dr. Elwin Chandra Monie Dean - Research Dr. M. Sheerlin Banu Prof. & Head/IT
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Follow us on

Guest lecture on **Neural Networks** on 3rd february 2024 by Dr. Y. Nancy Jane, Assistant Professor, Anna University, Chennai .

GUEST LECTURES

R.M.K. ENGINEERING COLLEGE
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Department of Information Technology
In Association With
Higher Education Cell
Presents
International Workshop
On
Design Thinking

Dr. Sharmini Gopinathan
Associate Professor
School of Management & Marketing
Faculty of Business & Law
Taylor's University, Malaysia

FEBRUARY 7, 2024
1:00 PM - 3:00 PM
Pre-Final Year IT Students

www.rmkec.ac.in

International Workshop on **Design Thinking** on February 7, 2024, by Dr. Sharmini Gopinathan, School of Management & Marketing Faculty of Business & Law, Taylor's University, Malaysia.

Guest Lecture on **Generative AI** on 26th February 2024 by Mr. Mohanbabu, Balachandran, Head - IT, Mr.Cooper.

R.M.K. ENGINEERING COLLEGE
(An Autonomous Institution)

Department of Information Technology

In Association With
mr. cooper
Presents
GUEST LECTURE
On
GENERATIVE AI

Mr. Mohanbabu Balachandran
Head - IT, India
Mr.Cooper

26 FEBRUARY, 2024
01:00 PM - 2:00 PM

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R.M.K. ENGINEERING COLLEGE
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Guest Lecture

INTERNET OF THINGS

Dr. Karthik N
Assistant Professor,
Department of CSE,
NIT Puducherry

09 August 24
01:30 PM

IV year IT Students

Guest Lecture on **Internet of Things** on 9th August 2024 by Dr. Karthik N, Assistant Professor, Department of CSE, NIT Puducherry.

INTERNATIONAL WORKSHOP

R.M.K. ENGINEERING COLLEGE
(An Autonomous Institution)

INTERNATIONAL WORKSHOP
ON
APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN INTERDISCIPLINARY FIELDS

DATE 9 August, 2024 | **TIME** 09:30 AM

Organized By
Department of Electrical and Electronics Engineering
and
Department of Information Technology
www.rmkec.ac.in

SPEAKERS

Dr. Yukio Mizuno
Professor
Electrical Engineering
Nagoya Institute of Technology
Japan

Dr. E.P. Shrinathan
Proud Alumnus
2014 Batch EEE, RMKEC &
Nagoya Institute of Technology
Japan

International Workshop on Applications
of **Artificial Intelligence** in
Interdisciplinary Fields on 9th August
2023 by:

- Dr. Yukio Mizuno, Professor, Electrical Engineering, Nagoya Institute of Technology, Japan
- Dr. E. P. Shrinathan, Proud Alumnus, 2024 Batch EEE, RMKEC & Nagoya Institute of Technology, Japan

84.78
%

PLACEMENTS - BATCH 2024

Batch : 2020 - 24



BOSON MOTORS
1 Student



KAAR TECHNOLOGIES
3 Students



MULTICOREWARE
1 Student



MR COOPER
1 Student



SCHNEIDER ELECTRIC
1 Student



PRESIDIO
3 Students



**Virtusa Consulting Services
Pvt. Ltd. (JATAYU Contest)**
4 Students



M/S. FORD MOTORS
1 Student



BNP PARIBAS
1 Student



ERNST & YOUNG
1 Student



TCS NINJA
5 Students

KPIT
3 Students



HUB STREAM
1 Student



MPHISIS
2 Students



**M/S. COGNITIVE PLATFORM
SOLUTION**
1 Student



ACCENTURE
6 Students



ADENEZA
2 Students



COGNIZANT
7 Students



TCS DIGITAL
5 Students



MOVATE
1 Student



TCS PRIME
1 Student



SOPRASTERIA
2 Students



ACHIEVEMENTS



A Team of 4 students from 2024 batch won Virtusa Jatayu Season 3 and received reward of \$1000 from Virtusa.

Mr. V. Harish of 2025 Batch IT has won JP Morgan's "Code for Good" Hackathon held at JP Morgan, Mumbai on 15th & 16th June 2024.



ACHIEVEMENTS



Ms. B. Madhumitha of 2024 Batch IT received the ISTE “Best Student Award” for the Year 2023.

Ms. Kamali H of 2024 Batch IT received the ISTE “Best Student Award” for the Year 2023.



MULTIPLE OFFERS

R.M.K. ENGINEERING COLLEGE
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DEPARTMENT OF INFORMATION TECHNOLOGY

Congratulations
2024 BATCH STUDENTS WITH 4 OFFERS

Ms. MADHUMITHA B

- Adenza 9.6LPA
- Kaar 6.5LPA
- TCS 7LPA
- cognizant 4LPA

Ms. KAMALI H

- TCS 9LPA
- Kaar 6.5LPA
- MR. COOPER 6LPA
- cognizant 4LPA

2024 BATCH STUDENTS WITH 3 OFFERS

Mr. SENADHIAN G

- PRESIDIO 9.5LPA
- virtusa 7LPA
- hubstream 5.5LPA

Mr. MANOJ KUMAR D

- Adenza 9.6LPA
- TCS 7LPA
- CPS 2.4LPA

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- Ms. B. Madhumitha and Ms. H. Kamali of 2024 Batch, IT has bagged 4 job offers each.
- Mr. G. Senadhian and Mr. D. Manoj kumar of 2024 Batch IT has bagged 3 job offers each.

R.S.M. GOLD MEDALIST



Ms. S. Swethasri of 2024 Batch has received the R.S.M. Gold Medal for “The Best Outgoing Hostel Student Award (among Girls)” with 10 grams Gold Coin for the period 2020-24.



ACHIEVEMENTS



Two teams from 2026 Batch have received a project grant of Rs. 10,000 each from **Niral Thiruvizha Hackathon, 2024.**

Ms. Kamala Vasanthi of 2026 Batch has received seed money of Rs. 25,000 during the event **Startup Cafe** held at Anna University.



A team of 2026 Batch has been shortlisted among the top 30 teams of **Tata Technologies InnoVent Hackathon 2024.**


ACHIEVEMENTS

S.No	Register Number	Student Name	Name of the Award
1	111720203022	Kamali H	IEI Best Student Award 2024
2	111720203025	Madhumitha B	IEI Best Student Award 2024
3	111721203053	Swetha R	IEI Best Student Award 2024
4	111721203004	A L Sakthi	IEI Best Student Award 2024
5	111721203043	Rajalakshmi G	IEI Best Student Award 2024
6	111721203018	Gokulavani V	IEI Best Student Award 2024
7	111721203032	Manasvini G	IEI Best Student Award 2024
8	111721203014	Deepalakshmi D	IEI Best Student Award 2024
9	111721203049	Shivani B	IEI Best Student Award 2024

CLUB ACTIVITIES

Name of the Club	No of activities conducted within the Department
Math Club	4
Language Club	4
Science and Innovation Club	4
Coding Club	4
Photography Club	4
Astronomy Club	4
Tedx Club	4
Eco Club	4
Cultural Club	4
Yoga Club	4

FACULTY DEVELOPMENT PROGRAMMES & WORKSHOPS



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Gummidipoondi Taluk,
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ISO 9001:2015 Certified Institution
All the eligible UG Programmes are accredited by NBA, New Delhi.

Faculty Development Programme (FDP)
ON
ARTIFICIAL INTELLIGENCE
By
Dr. A Kannan
Senior Professor,
School of Computer Science and Engineering,
Vellore Institute of Technology,
Vellore.

18.12.2023, Monday
09:00 am to 03:00 pm

Participants: CSE, IT, ADS, AIML, CSD and CSBS Faculty
Venue: RMKEC, SV Block, First Floor, Seminar Hall 1

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Faculty Development Program (FDP) on **Artificial Intelligence** by Dr. A. Kannan, Senior Professor, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore on 18th Dec 2023.

Faculty Development Program (FDP) on **Design and Analysis of Algorithms** by Dr. S. Jenicka, Associate Professor, Vellore Institute of Technology, Vellore, on 12th July 2024.



R.M.K. GROUP OF INSTITUTIONS
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ORGANIZES
A FACULTY DEVELOPMENT PROGRAM
ON
22CS303 - DESIGN AND ANALYSIS OF ALGORITHMS (LAB INTEGRATED)

RESOURCE PERSON
Dr.S.Jenicka
Associate Professor
VIT Vellore

12 July 2024
9:00 AM - 3:05 PM
CP - VI Lab

ORGANIZING COMMITTEE

Tmt. Manjula Munirathnam Chairperson	Thiru. R. S. Munirathnam Founder - Chairman	Thiru. R. Jothi Naidu Director	Thiru. R. M. Kishore Vice Chairman	Thiru. Yalamanchi Pradeep Secretary
Dr. Durgadevi Pradeep Vice Chairperson	Tmt. Sowmya Kishore Management Trustee	Dr. M. S. Palanichamy Advisor	Thiru. T. Pichandi Advisor	Thiru. V. Manoharan Advisor
Dr. N. Anbuhezhan Principal-RMDEC	Dr. N. Suresh Kumar Principal-RMKCET	Dr. T. Sethukarasi HOD-CSE/RMKEC	Dr. P. Ezhumalai HOD-CSE/RMDEC	Dr. S. Sankar Ganesh HOD-CSE/RMKCET



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ORGANIZES
A FACULTY DEVELOPMENT PROGRAM
ON
22CS302 - COMPUTER ORGANIZATION AND ARCHITECTURE

RESOURCE PERSON
Dr.K.Jayakumar
Associate Professor
VIT Vellore

12 July 2024
9:00 AM - 3:05 PM
CP - III Lab

ORGANIZING COMMITTEE

Tmt. Manjula Munirathnam Chairperson	Thiru. R. S. Munirathnam Founder - Chairman	Thiru. R. Jothi Naidu Director	Thiru. R. M. Kishore Vice Chairman	Thiru. Yalamanchi Pradeep Secretary
Dr. Durgadevi Pradeep Vice Chairperson	Tmt. Sowmya Kishore Management Trustee	Dr. M. S. Palanichamy Advisor	Thiru. T. Pichandi Advisor	Thiru. V. Manoharan Advisor
Dr. N. Anbuhezhan Principal-RMDEC	Dr. N. Suresh Kumar Principal-RMKCET	Dr. T. Sethukarasi HOD-CSE/RMKEC	Dr. P. Ezhumalai HOD-CSE/RMDEC	Dr. S. Sankar Ganesh HOD-CSE/RMKCET

For further details visit www.rmkec.ac.in

Faculty Development Program (FDP) on **Computer Organization and Architecture** by Dr. K. Jayakumar, Associate Professor, Vellore Institute of Technology, Vellore on 12th July, 2024.

FACUTLY DEVELOPMENT PROGRAMMES & WORKSHOPS

Faculty Development Program (FDP) on **Product-centric Agile Development** by Dr. P. Seshu Babu, NITTR, Chennai on 13th July 2024.

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**DEPARTMENT OF
COMPUTER SCIENCE AND DESIGN**

Organizes
Faculty Development Programme On
PRODUCT CENTRIC AGILE DEVELOPMENT

13 July 2024
9:00 AM - 3:00 PM
Faculty Members
2D Block Seminar hall II

ORGANIZING COMMITTEE

Smt. Manjula Munirathnam Chairperson	Shri. R.S. Munirathinam Chairman	Shri. R. Jothi Naidu Director	Shri. R. M. Kishore Vice Chairman
Shri. Yalamanchi Pradeep Secretary	Dr. Durgadevi Pradeep Vice-Chairperson	Smt. Sowmya Kishore Trustee	Dr. K.A. Mohamed Junaid Principal
Dr. Davin Chandra Monie Research-Dean	Dr. K.K. Sivaganesa Prabhu Dean-DCD	Dr. K. Manivannan Dean - External Affairs	Dr. S. Pavai Madheswari Academic-Coordinator
Dr. S. Thanga Ramya HOD-ICSD	P. S. Subha Mercy FDP Coordinator		

R.M.K. ENGINEERING COLLEGE
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Department of
COMPUTER SCIENCE AND BUSINESS SYSTEMS

FACULTY DEVELOPMENT PROGRAM ON
DATABASE MANAGEMENT SYSTEMS
on 13th July, 2024 at 09:00 AM

Guest Speaker
Dr. E. Shanmugapriya
Assistant Professor,
Anna University, Chennai

Seminar Hall,
New Block

ORGANIZING COMMITTEE

Smt. Manjula Munirathnam Chair Person	Shri. R. S. Munirathinam Founder & Chairman	Shri. R. Jothi Naidu Director	Shri. R. M. Kishore Vice Chairman	Shri. Yalamanchi Pradeep Secretary
Dr. Durgadevi Pradeep Vice Chairperson	Smt. Sowmya Kishore Trustee	Dr. K.A. Mohamed Junaid Principal	Dr. Davin Chandra Monie Dean Research	Dr. K. Manivannan Dean External Affairs
Dr. K.K. Sivaganesa Prabhu Dean DCD	Dr. S. Pavai Madheswari Academic Coordinator	Dr. K. Chidambaram Prof. & Head / CDS		

For further details visit www.rmkec.ac.in

Faculty Development Program (FDP) on **Database Management System** by Dr. E. Shanmugapriya, Assistant Professor, Anna University, Chennai on 13th July 2024.

Faculty Development Program (FDP) on **DevOps** by Dr. T. Subha, Associate Professor, Department of Educational Media and Technology, NITTR, Chennai on 13th July 2024.

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**Faculty Development Programme
on
DevOps**

CSF and IT
Faculty Members

Dr. T. Subha
Associate Professor
Department of Educational Media
and Technology
NITTR, Chennai

Date: 13-07-2024
Saturday
9:00 am to 12:00 pm

Venue: SN Block Seminar Hall
R.M.K Engineering College

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FACUTLY DEVELOPMENT PROGRAMMES & WORKSHOPS

Faculty Development Program (FDP) on **Server-side Programming** by Dr. T. Sudhakar, Assistant Professor, Department of Computer Technology, Anna University, MIT campus, Chrompet, Chennai on 13th July 2024.



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Faculty Development Programme (FDP)
On **Server side Programming**
By **Dr. T. Sudhakar**
Assistant Professor
Department of Computer Technology
Anna University, MIT campus
Chrompet, Chennai

CSE and IT Faculty Members

Venue: SN Block Seminar Hall
R.M.K Engineering College

Date: 13-07-2024
Saturday
9.00 am to 3.00pm

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Faculty Development Programme
on **Advanced Java Programming**
By **Dr. K. Sathiyamurthy**
Professor
Department of Computer Science & Engineering
Puducherry Technological University,
Puducherry

19.07.2024, Friday
09:00 am to 03:00 pm

Participants: R.M.K. GROUP OF INSTITUTIONS Faculty

Venue: Seminar Hall, CSE Department, RMKEC

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Faculty Development Program (FDP) on **Advanced Java Programming** by Dr. K. Sathiyamurthy, Professor, Department of Computer Science & Engineering, Puducherry Technological University, Puducherry on 19th July, 2024.

SCHOLARSHIP

Mr. Yogesh Kannan S of
Batch 2026 has received
Rs. 1 Lakh scholarship
through the Virtusa
Engineering Excellence
Scholarship Program
2023 - 24.



EVENTS

R.M.K. ENGINEERING COLLEGE
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RSM NAGAR, KAVARAPETTAI, 602006

DEPARTMENT OF INFORMATION TECHNOLOGY
PRESENTS

CYBERNAUTIX '24
- UNLEASHING INNOVATION -
A NATIONAL CANVAS FOR TECHNICAL BRILLIANCE
SHOWCASE | COMPETE | EXCELL | WIN

REGISTER NOW!

5th FEBRUARY 2024
(Monday)

FREE ENTRY
DO PARTICIPATE AND
UNLEASH YOUR TALENT

TECHNICAL EVENTS -
BLITZBYTE
PAPERPINNACLE
WEBVORTEX
PIXEL STUDIO

SURPRISE EVENT -
SMIRK

FOLLOW US ON
@cybernautix
cybernautix@rmkac.ac.in
<https://rmkac.ac.in/cybernautix>

WIN EXCITING CASH PRIZES

Registration closes by Feb 3rd, 2024

[linkedin.com/in/rmkacit/](https://www.linkedin.com/in/rmkacit/)
www.rmkek.ac.in

CYBERNAUTIX 2K23,
a National Level Technical
Symposium on 5th
February 2023.

COLLABORATIVE RESEARCH



Collaborative Research By:

R.M.K. Engineering College

Nagoya Institute of Technology, Japan

TOENEC Corporation, Japan

Collaborative Research Work Title :

Development of High-Performance Fault Diagnostic Method using AI Techniques

Name of the Mentor : Dr. M. Sheerin Banu

Financial Year : 2022 - 24

Students: Mr. Maaz Hussain - 2023 Batch

Mr. Senadhian G - 2024 Batch

Mr. Dinesh H - 2024 Batch



FUNDED PROJECT



उन्नत भारत अभियान
ग्रामीण विकास एवं प्रौद्योगिकी केंद्र
भारतीय प्रौद्योगिकी संस्थान, दिल्ली
होजखास, नयी दिल्ली- 110016



UNNAT BHARAT ABHIYAN
INDIAN INSTITUTE OF TECHNOLOGY, DELHI
National Coordinating Institution

Address: V-405, IIT Delhi Main Rd, Block 5, Hauz Khas, New Delhi, 110016
Tel: +91-11-2659 1121/1157, Fax: +91-11-2659 1121
Email: unnatbharatabhiyanuid@gmail.com

Date: June 13, 2024

To

Dr. Rajitha Jasmine R & Dr. S D Uma Mageswari
R.M.K Engineering College, Thiruvallur

Subject: Financial Sanction of Technical Intervention Project (No. RP-03525G) under UBA 2.0

Dear Sir/ Madam

1. This is to intimate you that Technology Intervention proposal under the category of "Technology Development" entitled, "Clean infinity - Domestic waste management" submitted by you under SEG Sanitation And Solid Waste Management, *Unnat Bharat Abhiyan* Project-No: RP-03525G, has been approved and the funds have been disbursed by the National Coordinating Institute, IIT Delhi in your account no. 6220100030115 against UTR No. C052428500423 vide dated 28-05-2024.

2. You can use the grant for fulfilling the project objectives under the approved heads as per the proposal submitted and as per the UBA guidelines. The project completion is expected within 6 months from the date of receiving of funds. Kindly note that the utilization of funds allowed under the head "General Contingency" should not be more than 10% of the total sanctioned fund.

Note: TA/ Honorarium is strictly not permitted in this project.

- Any product/service developed under the sanctioned project must have UBA logo on it.
- Detailed information of faculty in charge and students/volunteers, who will be coordinating/working under the sanctioned project, shall be shared in the project report submitted by your institution.
- The project implementation location/site shall be selected in consideration with gram panchayat officials/ members.
- Please take care that the position holders/Panchayat officials shall not be benefitted in person. Also, ensure that the project shall not be controversial in terms of beneficiaries. Selection of beneficiaries shall include the Marginalized communities or EWS Category as well.

Project Category : Technical Intervention Project

Project Title : Clean Infinity - Domestic Waste Management

Mentors : Dr. R Rajitha Jasmine

Financial Year : 2024

Project Grant : Rs. 1,00,000/-

KNOWLEDGE PARTNER INTERNSHIP

No. of students undergone Internship
(Academic Year 2023-24) - 118



No. of students (2025 batch) - 61

No. of students (2024 batch) - 57

INDUSTRY INTERNSHIPS WITH STIPENDS

No. of students (2024 batch) - 16



RESEARCH PAPER PUBLICATIONS

Name of the faculty	Title	Journal	Indexed in SCI/ Scopus/ WoS/	Year
Dr. Sheerin Banu M	Image Representation through Pixel-Based Encoding	Journal of Technology	Scopus	2023
	Integrating Innovative Technologies for Empowering Student - Centered Learning	Journal of Technology	Scopus	
Dr. Radhika S	Implementation of Human Machine Interface Module and Control System Based on Controller Area Network	Cyber-Physical Systems and Supporting Technologies for Industrial Automation	Scopus	2023
Dr. S. Selvakanmani	Improving the Security based Routing Protocol for Wireless Sensor Networks	ICTACT Journal on Communication Technology	Scopus	2023
Dr. M. Jayaprakash	Enhanced Expectation-Maximization Algorithm for Smart Traffic IoT Systems using Deep Generative Adversarial Networks to Reduce waiting time.	IEEE Xplore	Scopus	2023
	Deep Learning Model on Blockchain for Secured Mobile Communication.	IEEE Xplore	Scopus	
	Supply Chain Management Using Bee Swarm Optimisation to Improve the Logistics in E- Commerce Era.	IEEE Xplore	Scopus	
Dr. T. Mahalingam	EOEEORFP: Eagle Optimized Energy Efficient Optimal Route-Finding Protocol for Secure Data Transmission in FANETs	IETE Journal of Research	SCIE	2023
	SWEEPER: Secure Waterfall Energy-Efficient Protocol-Enabled Routing in FANET	IETE Journal of Research	SCIE	
Ms. Selvi K	Effective Short Packet Communication for Resource Allocation in Wireless Powered IOT Networks	International Conference on Advanced Computing and Communication Systems (ICACCS)	Scopus	2023

RESEARCH PAPER PUBLICATIONS

Name	Title	Journal	Indexed in SCI/ Scopus/ WoS/	Year
Dr A Vijayaraj	A Novel Communication Pathway Metric Evaluation using Throughput and Energy Improvements over Wireless Sensor Networks	International Journal on Recent and Innovation Trends in Computing and Communication	Scopus	2023
	Skin Cancer Detection in Deep Learning Using Restnet-50 Model	International Journal on Recent and Innovation Trends in Computing and Communication	Scopus	
Dr. Rajitha Jasmine R	Perceptual Video Summarization Using Keyframes Extraction Technique	IEEE Xplore	Scopus	2023
	Body Sensor Network Using Data Analysis and Modeling for Healthcare Application	IEEE Xplore	Scopus	
	AirMobilize: IoT-Powered Air Quality Monitoring on the Go	IEEE Xplore	Scopus	
Ms. M. Rekha	A future prediction for Cyber Attack in Network Domain with Visualizing	IJESDF-International Journal of Electronic Security and Digital Forensics	Scopus	2023
Ms. Shobana S	A Detection of Intrusions Based on Deep Learning	Cybernetics and Systems	SCI	2023
	Machine Learning based Cybersecurity Technique for Detection of Upcoming Cyber Attacks	IEEE Xplore	Scopus	
	IOT based on Smart Traffic Lights and Streetlight System	IEEE Xplore	Scopus	

RESEARCH PAPER PUBLICATIONS

Name	Title	Journal	Indexed in SCI/ Scopus/ WoS/	Year
Mr. Vinoth Kumar L	A deep learning-based spices reciprocal system for partridge	International Conference on Deep Sciences for Computing and Communications	Scopus	2023
Dr.Uma mageswaran	An Energy-Aware Agent-Based Resource Allocation Using Targeted Load Balancer for Improving Quality of Service in Cloud Environment	Cybernetics and Systems	Scopus	2023
	Health Information Broadcast Distributed Pattern Association based on Estimated Volume	IEEE Xplore	Scopus	
	Mobility and Behavior based Trustable Routing in Mobile Wireless Sensor Network	IEEE Xplore	Scopus	
	Industries Fire Accident Tracking System based on Internet of Things using Arduino UNO	IEEE Xplore	Scopus	
Dr. Sheerin Banu M	Transforming Higher Education: Strategies for Fostering Innovation and Entrepreneurship in the New Millennium	IEEE Xplore	Scopus	2024
	Design and Development of Automation Tool for NBA Evaluators	IEEE Xplore	Scopus	
	ANI-SOUL -A Voice-Assisted System for Animal Identification and Classification	IEEE Xplore	Scopus	
	Skin Cancer Disease Classification Using Tasnet V2 In Image Classification	2024 2nd International Conference on Disruptive Technologies (ICDT)	Scopus	

RESEARCH PAPER PUBLICATIONS

Name	Title	Journal	Indexed in SCI/ Scopus/ WoS/	Year
Dr. Sheerin Banu M	Blockchain Innovations in Education: Empowering Students with Smart Contracts	2024 2nd International Conference on Disruptive Technologies (ICDT)	Scopus	2024
	Fusing Nature Inspired Fuzzy Neural Networks for Hypervisor Intrusion Detection	International Journal of Information Technology	Scopus	
	Multi-objective load balancing based on adaptive osprey optimization algorithm	International Journal of Information Technology	Scopus	
Dr. Radhika S	A Hash based Deduplication to optimize Medical Image Storage	Proceedings of RMKMATE 2023	Scopus	2024
	Pulse Non-Orthogonal Multiple Access (PNOMA) Technique for Future Generation Wireless Networks	Proceedings of RMKMATE 2023	Scopus	
	A Data-Driven Approach to Improving Neonatal Care through Artificial Intelligence and Clinical Data Integration	IEEE Xplore	Scopus	
Dr. Saravanan K	Image Quality Enhancement and Caption Generation	IEEE Xplore	Scopus	2024
	Deep Graph Neural Networks for Multi-Image Super Resolution Reconstruction	International Journal of Intelligent Systems and Applications in Engineering	Scopus	
	Improved Adaptive Network-Based Fuzzy Inference System Approach for Power Flow Analysis in Interconnected DC Microgrid	Journal of Electrical Systems	WoS	
	Internet of Things Driven Rule Based Management Model for Heterogeneous Environment	SN Computer Science	Scopus	

RESEARCH PAPER PUBLICATIONS

Name	Title	Journal	Indexed in SCI/Scopus/WoS/	Year
Dr. Saravanan K	Leveraging Machine Learning to Identify Synergistic Drug Combinations for Effective Cancer Treatment.	IEEE Xplore	Scopus	2024
	Unleashing Innovation: Experimental Evaluation of Blockchain Assisted Electronic Voting System using Secured Authentication Scheme.	IEEE Xplore	Scopus	
Dr. Selvakanmani S	Multiple Target Research of Construction Progress on the Basis of on BIM and Decide Tree Algorithms	IEEE Xplore	Scopus	2024
	Multiple Target Research of Construction Progress on the Basis of on BIM and Decide Tree Algorithms	IEEE Xplore	Scopus	
	BABYBLOOM - Nurturing Pregnancy and Parenthood with Personalized Care	IEEE Xplore	Scopus	
	Optimizing E-waste management: Deep learning classifiers for effective planning	Journal of Cleaner Production	SCI/Scopus	
	Privacy-Preserving Breast Cancer Classification: A Federated Transfer Learning Approach	Journal of Imaging Informatics in Medicine	SCI	
Ms Selvi K	1A Novel Development of Artificial intelligence enabled learning Methodology for Human Depression Prediction scheme	Intelligent Systems for Cybersecurity (ISCS)	Scopus	2024

RESEARCH PAPER PUBLICATIONS

Name	Title	Journal	Indexed in SCI/ Scopus/ WoS/	Year
Dr.A.Vijayaraj	Enhanced routing strategy of wireless sensor network based on fifth generation communication technology	The Scientific Temper	WoS	2024
	Obstacle Detection and Avoidance Robot with Multi-Control System using IOT	IEEE Xplore	Scopus	
	Organic and Recyclable Waste Classification Using Integrated Feature Selection Method	IEEE Xplore	Scopus	
	Wireless Sensor Networks Consistent and Honest Routing Scheme	IEEE Xplore	Scopus	
	Enhancement of CURE algorithm using Map-Reduce Technique with Pa	IEEE Xplore	Scopus	
	Prediction of User Attrition in Telecommunication Using Neural Network	EAI Endorsed Transactions on Scalable Information Systems	WoS	
	An Efficient routing protocol to reduce traffic and congestion control in cloud edge networks of wireless sensor networks	International Journal of Communication Systems	SCI	
	A Sentimental Analysis Approach for Personalized Drug Recommendations Using Machine Learning	IEEE Xplore	Scopus	
	Analysis of Stock Market Predicting Future Trend using ML	IEEE Xplore	Scopus	

RESEARCH PAPER PUBLICATIONS

Name	Title	Journal	Indexed in SCI/ Scopus/ WoS/	Year
Dr. A. Vijayaraj	Enhancing Security for Dual Access control for Cloud Based Data Storage and Sharing	IEEE Xplore	Scopus	2024
	Legal Documentation System using Blockchain and Interplanetary File System	IEEE Xplore	Scopus	
	Cyber intrusion detection using dual interactive Wasserstein generative adversarial network with war strategy optimization in wireless sensor networks	Multimedia Tools and Applications	SCI	
	Aquila Optimized Fuzzy Deep Belief Network for Secure Data Transmission in WSN	IETE journal of Research	SCI	
Dr. Rajitha Jasmine R	AirMobilize: IoT Powered Air Quality Monitoring on the Go	IEEE Xplore	Scopus	2024
Dr. A. Anna Lakshmi	Enhancing Security for Smart Healthcare Systems and Infrastructure with Artificial Intelligence	Book chapter	Scopus	2024
Ms. Shobana S	A human-centered approach to artificial intelligence in the supply chain	Taylor & Francis - Book Chapter	Scopus	2024
	Hyperspectral Image Classification Using Dimensionality Reduction Deep Networks	International Journal of Intelligence System and Application in Engineering	Scopus	
	DNovel AI Applications for Advancing Earth Sciences	IGI Gobal - Book Chapter	Scopus	

RESEARCH PAPER PUBLICATIONS



Name	Title	Journal	Indexed in SCI/ Scopus/ WoS/	Year
Ms. Rekha M	Development of a Neuro-Inspired Algorithm for Monitoring and Prediction of Earthquakes	IGI Global Book Submission System	Scopus	2024
	Revoluziting gas managment-integrated approach to leakage detection	Proceedings of RMKMATE 2023	Scopus	
	Determining Intrusion Attacks Against Online Applications Using Cloud-Based Data Security	EAI Endorsed Transactions on Scalable Information Systems	WoS	
	Intruder identification using feed forward encasement-based parameters for cybersecurity along with IoT devices	Measurement: Sensors	Scopus	
	CRUD Application Using React JS Hooks	EAI Endorsed Transactions on Internet of Things	Scopus	
	Human AI Collaboration for backend text generation: Dynamic Content Recommendation (DCR) for Websites based on keywords	2024 International Conference on Computing and Data Science (ICCDs)	Scopus	
Ms. M. Kanniga Parameshwari	CRUD Application Using React JS Hooks	EAI Endorsed Transactions on Internet of Things	Scopus	2024
	Experimental Evaluation of a Secured Phrase Searching Model Using Cipher Principles Over Cloud Computing Platform	2024 International Conference on Intelligent Systems for Cybersecurity (ISCS)	Scopus	

RESEARCH PAPER PUBLICATIONS

Name	Title	Journal	Indexed in SCI/ Scopus/ WoS/	Year
Dr. Selvakanmani S	Recognition of Cyber Physical Systems Through Network Security for Wireless Sensor Networks: Using Artificial Intelligence in Cyber Physical Systems	Intelligent Solutions for Sustainable Power Grids (Book Chapter)	Scopus	2024
	Strategic Improved K-Means Clustering in Mining Blood Donor Data Analysis and IoT-based Allocation	IEEE Xplore	Scopus	
Dr. M. Jayaprakash	An Optimized Routing Scheme in SDN-Based IoT Using the Lion Optimization Algorithm	IETE Journal of Research	SCI/Scopus	2024
	Theoretical study and analysis of advanced wireless sensor network techniques in Internet of Things (IoT)	Measurement: Sensors	Scopus	
	Innovations in Robotic Technology: A Smart Robotic Design for Effortless Wall Painting using Artificial Intelligence	IEEE Xplore	Scopus	
Dr. T. Mahalingam	Beyond the Current State of the Art in Electric Vehicle Technology in Robotics and Automation	Journal of Electrical Systems	Scopus	2024
	Functional Gastrointestinal Disorders (FGID): Information Technology Adoption Based on Power Transmission	Journal of Electrical Systems	Scopus	
Ms. Karthiga	A logical cyber security enabled methodology design for identifying distributed denial of service attacks using enhanced learning principles	IEEE Xplore	Scopus	2024

PATENT PUBLICATIONS

Title	Patent Application Number	Name of Inventors	Status
Internet of Things Based Air Quality sensor device	398899-001	Dr. A.Vijayaraj	Published
IOT Monitoring System for Detecting harmful gases and fires in work field	202441009140	Dr. A. Vijayaraj Dr. S. Selvakanmani Dr. A. Annalakshmi Dr. M. Jayaprakash	Published
IoT Control Smart farm System Using Silicon LED Lamp	202441010176	Dr. K.Saravanan Dr. T.Mahalingam Dr. Rajitha Jasmine R Mr. L. Vinoth Kumar	Published
IOT Based Oxygen Supply System	202441029740	Dr.M.Jayaprakash Dr.T.Vijayaraj Dr.S.Selvakanmani Dr.A.Annalakshmi	Published
A System And Method For Remote Controlling And Monitoring Of lot Based Vehicle	202441029720A	Dr. T.Mahalingam Dr. Rajitha Jasmine R Dr. K.Saravanan Dr.J.Sathiamoorthy	Published
Huam Following Robot Using Arduinio UNO	202341080347	Dr. S. Radhika	Published
An Electronic Walking Device For Physically Challenged Persons	6364399	Dr. Rajitha Jasmine R	Published
System and method for categorizing mobile phone price information using machine learning algorithms	202441044799	Dr. S. Selvakanmani Dr. R. Annalakshmi Dr. M. Jayaprakash Dr. A. Vijayaraj	Published
A cloud computing system for scalable data storage, processing and method	202441044796	Dr Rajitha Jasmine R Dr.J.Sathiamoorthy Dr.T.Mahalingam Dr.K.Saravanan	Published

PATENT PUBLICATIONS

Title	Patent Application Number	Name of Inventors	Status
Third Eye For Blind	20234108034	Dr. M. Sheerin Banu	Published
An IOT & AI based Pneumonia Detection Device	Design number: 6324846	Dr. A. Vijayaraj	Granted
An Intelligent System for Weather Monitoring and Natural Disasters Prevention Using Internet of Things	202341049441	Dr. A. Vijayaraj	Published
An Analytics Interface For Providing Cyber Threat Detection And Security System	202340109516	Ms.Rekha M	Published
Artificial Intelligence and IOT Based Smart House for Activity Recognition	202341011187	Ms.Shobana S	Published
Deep Learning with Nanotechnology Approach to the Effect of Topical Creams for Treating Blood Cancer	202341007873	Dr K Saravanan	Published



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