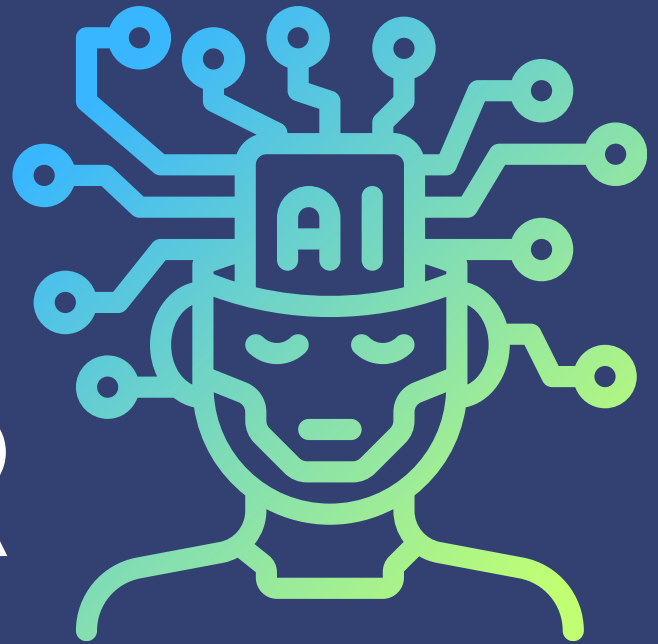




Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 8 of UGC Act, 1956)

NEWS LETTER



Department of Computer Science and Engineering
School of Computing

April - June 2024
Volume 9 | Issue 2

VISION

To produce intellectual graduates who could contribute significantly in the analysis, design, development, operation and maintenance of complex software systems for meeting the ever changing requirements of service systems and to compete globally towards professional excellence.

MISSION

- M1: Design curricula for imparting training in adapting newer computing methods and technologies for providing effective and efficient solutions to the existing / new problems.
- M2: Emphasizing in-depth knowledge of the subjects by employing Information and Communication Technology (ICT) based pedagogy methods
- M3: Creating a conducive research environment for making technological innovations by the faculty and students.
- M4: Providing leadership skills and professional ethics thereby making a prolific career in academics and industry.

PROGRAM EDUCATIONAL OBJECTIVES

- PEO1 Will formulate, solve and analyze Computer Science and Engineering problems using necessary mathematical, Scientific and engineering fundamentals.
- PEO2 Will demonstrate the impact of cutting-edge technologies to accomplish social and professional responsibilities.
- PEO3 Will demonstrate critical thinking, communication, teamwork, leadership skills and ethical behavior necessary to function productively and professionally.
- PEO4 Will pursue higher education at reputed institution in India and abroad, work in product development companies and engage in lifelong learning.



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 8 of UGC Act, 1956)

NEWS LETTER

01 | Technical Events

02 | Students Acheivements

03 | Placement Record

04 | Research / Patent / Book
& Book Chapter Publications

The Department of Computer Science & Engineering (CSE) was established in the year 1997. The department has grown to current strength of 3051 students from a humble beginning with 250 students. The department is equipped with the latest state-of the art laboratories. The department has a dedicated team of faculty members with 19 Professors, 44 Associate Professors and 152 Assistant Professors among them 83 are having doctoral degree. Our students are having the membership in professional societies like CSI, IEEE-CS, IEEE-PCS, IEEE-WIE, ACM & ISTE. Our students have been placed with leading MNC's like Amazon, Cisco, Accenture, Capgemini, Virtusa, Wipro, ZOHO, KAAR technologies, TCS, Microsoft, Infosys, Cognizant, HP and Verizon.

For further details:

www.veltech.edu.in/cse.

April - June 2024
Volume 9 | Issue 2

Institution Headships



Col. Prof. Vel. Dr. R. Rangarajan

B.E. (Elec), B.E. (Mech), M.S. (Auto), D.Sc.,
Founder President & Chancellor



Dr. Sagunthala Rangarajan

M.B.B.S
Foundress President



Mrs. Rangarajan Mahalakshmi Kishore

B.Tech, M.Tech, MBA(UK),
Chairperson & Managing Trustee



Prof. S. Salivahanan

B.E, M.E, Ph.D
Founder President & Chancellor



Prof. Dr. S P. Chokkalingam

M.Tech, Ph.D
Dean - School of Computing

Technical Events

Projectify ML: A Project-Based Learning Hackathon Contest - 2024

12th April 2024



This event offers students a hands-on learning experiences and provide a platform to showcase their technical expertise and presentation skills. The hackathon commenced at 10:00 AM with a Holy Prayer song. The event coordinator, Dr. S. Alex David welcomed everyone, followed by an inspiring inaugural address from Dean SOC, Dr. V. Srinivasa Rao. Both highlighted the importance of practical machine learning experience and participants to innovate and excel. The event warmly ended up with Valedictory Function speech given by Dr.Muralidhar – Professor and Head CSE. which was very encourageable one for the student regarding their skill development. Then the participants have given their valuable feedbacks which was very much needed for an event conduction. Followed by the participants feedback, the prize announcements were done. Finally vote of thanks given by event coordinator.

STUDENT SPECIAL ACHIEVEMENTS

COGNIZANCE - IDEAZ 2024



STUDENT PRIZE WINNERS
Annual Technical Fest on
COGNIZANCE 2024 Contest
Organized by - **IIT Roorkee, Uttarakhand**

Congratulations to all Students and Faculty mentors - **Prof. Dr. SP Chokkalingam**, Dean - School of Computing

No.42, Avadi-Vel Tech Road, Vel Nagar, Avadi, Chennai - 600 062. www.veltech.edu.in 1800 2127 669

Cognizance is the annual technical festival organized by the Indian Institute of Technology (IIT) Roorkee in Uttarakhand, India. It is a platform that promotes creativity, innovation, and the development of technical skills among students.

The 2024 edition of Cognizance featured various events, workshops, and competitions that aimed to provide participants with opportunities to showcase their ideas and talents.

We are thrilled to share that our college students have actively participated in various technical competitions and have achieved remarkable success, winning several prizes, thanks to the support of our dedicated faculty members.

STUDENT SPECIAL ACHIEVEMENTS

COGNIZANCE - IDEAZ 2024



1. UTTKARSH KUMAR (VTU20041)
4. ASHIQUE ALI (VTU20055)
2. YASHRAJ ANAND (VTU20763)
5. SAURAV KUMAR (VTU1909)
3. SUSHANT KUMAR (VTU20074)
6. ABHINAV ANAND (VTU20015)

2ndPRIZE
RS.30, 000/-

Title: RESILIENT MINDS

Domain: WEB DEVELOPMENT AND ARTIFICIAL INTELLIGENCE
IIT ROORKEE, UTTARAKHAND
17TH MARCH, 2024

MENTOR: Dr. S. RAVIKUMAR, ASSOCIATE PROFESSOR/CSE

COGNIZANCE - IDEAZ 2024



1. YASH RAJ - VTU23168
2. YESHWANTH GUPTA- VTU20497
3. VANKADARI CHAKRADHAR
-VTU22842

2ndPRIZE
RS.30, 000/-

Title: THE RISE OF AI-RESHAPING JOBS AND GROWTH IN DEVELOPING COUNTRIES

Domain: ARTIFICIAL INTELLIGENCE
IIT ROORKEE, UTTARAKHAND
17TH MARCH, 2024

MENTOR: Mrs. SHYAMALA KUMARI, ASSISTANT PROFESSOR / CSE

STUDENT SPECIAL ACHIEVEMENTS

COGNIZANCE - PROD-G



1. MOUMONI ROY(VTU 22702)

2. VAISHNAV V H (VTU 20096)

2nd PRIZE
RS.30, 000/-

Title : A SUSTAINABLE WASTE TECH

Domain : DEEP LEARNING AND CV

IIT ROORKEE, UTTARAKHAND

16TH MARCH, 2024

MENTOR: Dr. D. UMANANDHINI, PROFESSOR / CSE

COGNIZANCE - IDEAZ 2024



1.MOUMONI ROY- VTU22702

2. VAISHNAV V H (VTU 20096)

3. J S N AKHIL (VTU19714)

1stPRIZE
RS.20, 000/-

Title : A SUSTAINABLE WASTE TECH

Domain : DEEP LEARNING AND CV

IIT ROORKEE, UTTARAKHAND

17TH MARCH, 2024

MENTOR: Dr. D. UMANANDHINI, PROFESSOR / CSE

STUDENT SPECIAL ACHIEVEMENTS

COGNIZANCE - TECHZIBITION 2024



1. JAY BARDHAN SINGH (19691)
2. G SRUTHI (19610)
3. SHANU KUMAR (19462)
4. CH V SRIRAM (19643)
5. RAJNISH KUMAR(19607)

3rd PRIZE
RS.40, 000/-

Title :: PARK SMART - IOT BASED CAR PARKING APPLICATION

Domain : IOT AND WEB APPLICATION

IIT ROORKEE, UTTARAKHAND

17TH MARCH, 2024

MENTOR:Dr. DHILIP KUMAR V, PROFESSOR/CSE

PLACEMENT RECORD 2023 – 2024

S. No	Company	Count	CTC
1	[24]7.ai	7	2.5
2	Accenture	10	4.5
3	ADP (internship)	1	25k / M
4	ADP India	4	8.8
5	Atos	30	3.1
6	BNP Paribas	11	6
7	BNY Mellon	1	10.63
8	BYJU'S	3	7
9	CISCO	2	17.9
10	Comcast	10	7
11	Concentrix	10	2.5
12	Daimler India	1	7.5
13	DeltaX	1	7
14	DevTown	40	4
15	EPIKInDiFi	2	4

PLACEMENT RECORD 2023 – 2024

S. No	Company	Count	CTC
16	Foxconn	6	2.76
17	Genpact	33	8
18	Global Quest Technologies	13	2.5 - 10
19	HCL	24	4.25
20	IDP	1	8
21	Infosys	1	9.5
22	Kalvium	9	5
23	KGiS	2	2.83
24	Kodenest	22	2.2 - 7.0
25	KPMG India	3	5
26	L&T Technology Services Limited (LTTS)	13	4
27	Logitech	2	1.68
28	Maveric Systems	3	3.5
29	Merit Data and Technology	3	5
30	Motherson Automotive Technologies & Engineering	1	3

PLACEMENT RECORD 2023 – 2024

S. No	Company	Count	CTC
31	Mphasis	6	4
32	Mu Sigma	23	5
33	OpenText	2	10
34	PayTabs	2	3.5
35	RapidData Technologies	1	6
36	Renault Nissan	5	4.2
37	SkillForge	26	4.32
38	Societe Generale	1	5.43
39	TCS	30	3.3 - 7
40	Trane Technologies	4	6
41	TransCurators	1	1.8
42	Valeo India	1	4
43	Zoho Corp	1	8.4
44	Rapport IT	2	2.5
45	Qspiders	30	3.5 - 9.5

PLACEMENT RECORD 2023 – 2024

S. No	Company	Count	CTC
46	Tech Mahindra	3	3.25
47	Academor	13	4
48	Zoho	1	4.5
49	SmartED	12	3
50	Qbits	1	25k / M
51	EdiGlobe	4	16k / M
52	Ascendion	2	4.5
53	Capgemini	10	4.25
54	Cognizant	5	4

SUMMER SEMESTER COURSE READY PROGRAMME

24th & 25th JUNE 2024

Department of Computer Science and Engineering has scheduled the Semester Ready Programme for each course handling faculty members to share their knowledge about the course content with their peers. In this programme, faculty members share their relevant course material, Lesson Plan, Question Paper, QP Keys, Question Banks prepared and got verified by the concerned CC. As this programme is scheduled before the commencement of the semester, the newly joined faculty members can easily understand the procedure without any inconvenience.

Vidya Rangarajan Dr. Sagunthala EKD Institute of Science and Technology
 School Of Computing
 Department of Computer Science and Engineering
 Academic Year 2024-2025
 Summer Semester Course Ready Programme - Action Plan

22-06-2024

Day	Session 1 Agenda	Session 1 Outcome	Session 2 Agenda	Session 2 Outcome
1	Academic Calendar	9 AM to 10.30 AM Submission of Course Coordinator Meeting 1 Document (Theory & Lab) 10.45 AM to 12.45 PM Submission of Lesson Plan incorporated with Content Delivery Methods and Student Centric Method (Theory/Lab/Integrated)	Unit 1 PPT and Student Study Material with Lab Task	1.45 PM to 3.30 PM All Unit PPT and Student Study Material with Lab Task 3.45 PM to 4.45 PM Case Studies Project Based Learning (Topic with plan of action)
	Course Content, Course Objectives & Course Outcomes		Unit 2 PPT and Student Study Material with Lab Task	
	Mapping of CO's and PO's		Unit 3 PPT and Student Study Material with Lab Task	
	Text Book and Reference Book		Unit 4 PPT and Student Study Material with Lab Task	
	Discussion on Previous Regulation / Semester outcomes attainment		Unit 5 PPT and Student Study Material with Lab Task	
	Improvements suggested from previous regulation / semester & Lesson Plan		Beyond the syllabus and Case Studies / Use Cases	
	Course Coordinators Meeting Minutes Discussion (Theory and Lab)		Gate Question related to Syllabus	
	Reviewing the content delivery methods for all units with ICT and ALM		Project based Learning	
2	Question paper setting & Scheme of Evaluation	9 AM to 12.45 PM Submission MCQ Assignment AND Update	Discussion of Nitroox technology K Level	1.45 PM to 3.30 PM Submission of Mid Test QP and Unit Test QP 3.45 PM to 4.45 PM Submission of End Semester Sample Model QPs for Theory and Lab
	Assignment Questions preparation with CO's & K Level mapping		Question Bank	
	Discussion on Continuous Internal Assessment (CIA)		Mid Test 1 / Unit Test 1 Question Paper	
	Preparation plan for FCAR / CCAR		Mid Test 2 / Unit Test 2 Question Paper	
	Preparation of MCQ's, Question bank		Unit Test 3, Model Lab Question Paper	
	Monitoring on Student Attendance/ Performance		End Sem Theory and Lab Question Paper Plan	



FACULTY ORIENTATION 2024

Department of HRDC is conducting the Faculty Induction Program for the newly joined faculty members every year. This year it was held between 10.06.2024 to 14.06.2024. This program helps the faculty to get the knowledge about the Academics, HR policy, Research Activities, Resources for the Research Support & International Relations and also the Placement Activities. Really this is the Brainstorming session for the newly joined faculty members. Around 70 faculties from SoC were actively participated in this orientation program.



Human Resource Development Centre (HRDC)
One Week
Faculty Induction PROGRAM
10th June, 2024 to 14th June, 2024 | Gallery Hall (Room No. 1401)

Date	Time	Subject	Responsible Officer
10.06.2024	09:00 AM to 11:30 AM	Registration	Dr. S. Srinivas / Assistant
	09:30 AM to 11:30 AM	Welcome Lecture by Administrative Officer	Dr. S. Srinivas / Assistant
	11:30 AM to 11:45 AM	Tea Break	
	11:45 AM to 12:00 PM	Welcome Reception and Refresh	Dr. S. Srinivas / Assistant
11.06.2024	09:00 AM to 09:30 AM	Lunch	
	09:30 AM to 09:45 AM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
	09:45 AM to 10:30 AM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
	10:30 AM to 11:00 AM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
12.06.2024	09:00 AM to 11:30 AM	The Best	Dr. S. Srinivas / Assistant
	11:30 AM to 11:45 AM	Tea Break	
	11:45 AM to 12:00 PM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
	12:00 PM to 12:30 PM	Lunch	
13.06.2024	09:00 AM to 10:30 AM	Administrative Agency of Environmental Law	Dr. S. Srinivas / Assistant
	10:30 AM to 11:00 AM	Tea Break	
	11:00 AM to 11:30 AM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
	11:30 AM to 12:00 PM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
14.06.2024	09:00 AM to 11:30 AM	The Best	Dr. S. Srinivas / Assistant
	11:30 AM to 11:45 AM	Tea Break	
	11:45 AM to 12:00 PM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
	12:00 PM to 12:30 PM	Lunch	
15.06.2024	09:00 AM to 10:30 AM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
	10:30 AM to 11:00 AM	Tea Break	
	11:00 AM to 11:30 AM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant
	11:30 AM to 12:00 PM	Faculty Round Discussion & Feedback	Dr. S. Srinivas / Assistant

Research Paper Publication

We are excited to share that our faculty members have recently published their research articles in prestigious journals with high impact factors. This achievement highlights our department's strong success in the field of research.

2024

April - June

SCI : 20

 **Clarivate**
Web of Science™

Scopus: 25

Scopus®

International Conference : 50



Research Paper Publication



A Deep Auto-Optimized Collaborative Learning (DACL) model for disease prognosis using AI-IoMT systems

May 2024
Scientific Reports – Q2



Dr. N. Malarvizhi

Professor

Department of Computer Science



MLBFN Optimized with Archimedes Optimization Algorithm for SRCE

June 2024
Expert System with Applications – Q1



Dr. S. Sridevi

Professor

Department of Computer Science



Unified Framework for Neurological Disease Detection and Gait Classification Using Deep Graph Learning

May 2024
International Journal of Intelligent Engineering and Systems – Q2



Mr. M. Thiyagarajan

Assistant Professor

Department of Computer Science

Research Paper Publication



Dr. R. Srinivasan

Professor

Department of Computer Science

Developing a novel energy efficient routing protocol in WSN using adaptive remora optimization algorithm

June 2024

Expert System with Applications – Q1



Dr. S. Saranraj

Assistant Professor - (SG)

Department of Computer Science

Designing a deep hybridized residual and SE model for MRI image-based brain tumor prediction

April 2024

Journal of Clinical Ultrasound – SCI

Improved Brain Tumor Segmentation Using UNet-LSTM Architecture

June 2024

SN Computer Science – Q2



Dr. M. Guru Vimal Kumar

Assistant Professor

Department of Computer Science

Future-Proofing Entertainment: Navigating Market Changes in Television and Internet video Services through Predictive Modeling

April 2024

Entertainment Computing – Q2



Research Paper Publication



Dr. L. Sharmila
Professor

Department of Computer Science

Authentication Based Remote System for the Interaction of Reservation Scheme of Cloud with IoT Networks

April 2024

Wireless Personal Communications – Q2

Computer Modelling Using Visualization of Measuring Method

April 2024

Wireless Personal Communications – Q2



Dr. C. Kotteeswaran
Associate Professor

Department of Computer Science

Diagnostic analysis on different carcinoma

April 2024

Optical and Quantum Electronics – Q2



Dr. P. S. Ramesh
Associate Professor

Department of Computer Science

Using social networking evidence to examine the impact of environmental factors on social Followings: An innovative Machine learning method

April 2024

Entertainment Computing – Q2



Research Paper Publication

Effective IoT Based Analysis of
Photoplethysmography Waveforms
for Investigating Arterial Stiffness
and Pulse Rate Variability

June 2024

SN Computer Science – Q2



Dr. N. Gomathi

Professor

Department of Computer Science

Unveiling the Energy-Based
Validation and Verification (EVV)
Method for Perceiving and Averting
Rank Inconsistency Attacks (RIA) for
Guarding IoT Routing

June 2024

SN Computer Science – Q2



AquaNet: A Quality Monitoring
System for Rural Potable Water
Distribution Scheme Using Smart
Things

April 2024

Springer Proceedings in Earth and
Environmental Sciences – Q2

Swarm Intelligence with a Chaotic
Leader and a Salp algorithm: HDFS
optimization for reduced latency
and enhanced availability

April 2024

Concurrency and Computation: Practice and
Experience – Q2



Dr. D. Dhinakaran

Assistant Professor - (SG)
Department of Computer
Science

Brain Tumor Detection for Efficient
Adaptation and Superior Diagnostic
Precision by Utilizing MBConv-
Finetuned-B0 and Advanced Deep
Learning

April 2024

The International Journal of Intelligent
Engineering and Systems – Q2



PROGRAM OUTCOMES

- PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2 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.
- PO3 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.
- PO4 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.
- PO5 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.
- PO6 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
- PO7 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.
- PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 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.
- PO11 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.
- PO12 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.

PROGRAM SPECIFIC OUTCOMES

On successful completion of the program, the graduates will be able to,

PSO 1: Mathematical Concepts: Equipped with the knowledge to infer the mathematical models for problem solving using data structures, design and analysis of algorithms.

PSO2: Software Development: Exhibit proficiency to analyze, design and develop applications in various domains to provide solutions using innovative ideas.

PSO3: Transferring Skills: Demonstrate the ability to provide solutions for real world problems through acquaintance and hands-on training

Editor in Chief

Prof. Dr. S. P. Chokkalingam
Dean, SoC

Editors

Mr. D. Manivannan
Assistant Professor, CSE
Mr. N. Siva Rama Lingam
Assistant Professor, CSE
Mrs. Vijayalakshmi V
Assistant Professor, CSE

Managing Editors

Dr. N. Malarvizhi
Professor, CSE
Dr. S. Alex David
Professor, CSE

Published By,

Department of Computer Science and Engineering
School of Computing