



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



School of Computing

Department of Information Technology

Newsletter



January-June 2023 / Issue 2

☎ 1800 212 7669

🌐 www.veltech.edu.in

📍 No.42, Avadi-Vel Tech Road,
Vel Nagar, Avadi, Chennai-600 062.



VISION

To evolve as a center of academic excellence in providing globally standard education and research in the field of Information Technology and to mould young graduates into competitive, innovative, self-disciplined and visionary computer professionals while maintaining a commitment to diversity and humanity.

MISSION

- M1:** To design and update an outcome-based curriculum that equips students with modern computing knowledge to solve real-world problems.
- M2:** To strengthen conceptual understanding and analytical capability through innovative, ICT-enabled and learner-centered pedagogical practices.
- M3:** To build a vibrant research environment that enables faculty and students to advance innovation in computing.
- M4:** To nurture ethical, complete and industry ready professionals capable of pursuing diverse career paths and contributing responsibly to society.



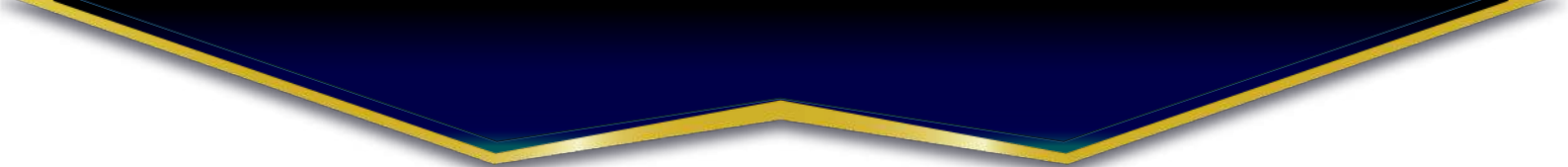
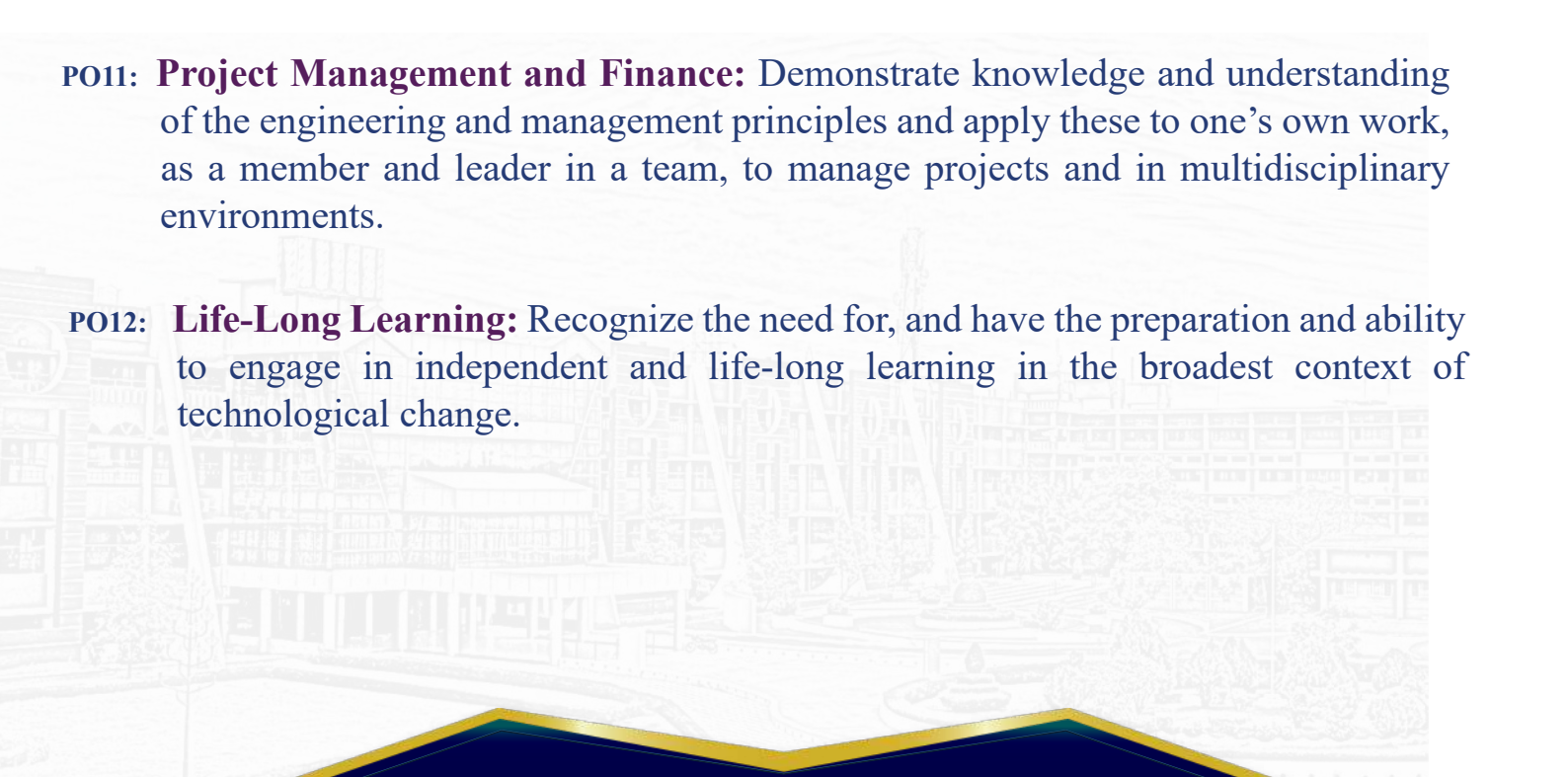
Programme Educational Objectives

After 3-5 years from the year of graduation, our graduates will,

- PEO1: Formulate and apply mathematical, scientific, and engineering principles to solve problems in the information technology domain.
- PEO2: Leverage modern IT technologies to address societal expectations and fulfill professional responsibilities.
- PEO3: Showcase problem-solving ability along with strong communication, teamwork, leadership, and ethical values to work effectively in the Information Technology domain.
- PEO4: Pursue higher studies at reputed institutions globally, build careers in IT core companies and commit to lifelong learning.

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 The 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 Team Work:** 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.
- 
- 

Programme Specific Outcomes

- PSO1: Acquire the basic knowledge of algorithms and recent tools for developing real-time software solutions related to the IT industry.
- PSO2: Apply suitable methodologies and use innovative ideas to solve real-world complex problems in society.
- PSO3: Be a competitive employee in the industry or an IT entrepreneur to face local and global challenges.

Newsletter

The Department of Information Technology (IT), established in 1997, has evolved into a dynamic academic and research community with a student strength of 190. The Department is equipped with state-of-the-art laboratories and is supported by a highly qualified and dedicated faculty team of 15 members. Students actively participate in professional bodies such as CSI, IEEE, enhancing their technical and professional competencies. The Department regularly organizes technical events, workshops, seminars, hackathons, and coding competitions, and its students consistently demonstrate excellence through notable academic and extracurricular achievements at regional, national, and international levels. The Department maintains an outstanding placement record, with students recruited by leading multinational companies including Amazon, Cisco, Accenture, Capgemini, Virtusa, Wipro, ZOHO, KAAR Technologies, TCS, Microsoft, Infosys, Cognizant, HP, and Verizon. Faculty and students actively contribute to high-quality research publications in reputed journals and conferences, strengthening the Department's research culture. Additionally, the Department publishes two issues of its newsletter every year, showcasing technical events, student achievements, Student placement highlights, and research contributions. For further details, visit www.veltech.edu.in/it/.

INSTITUTION LEADERSHIPS



Col. Prof. Vel. Dr. R. Rangarajan B.E.
(Elec), B.E. (Mech), M.S. (Auto), D.Sc.,
Founder President & Chancellor

Dr. Sagunthala Rangarajan
MBBS
Foundress President



Mrs. Rangarajan Mahalakshmi Kishore
B.Tech, M.Tech, MBA(UK),
Chairperson & Managing Trustee

Prof. S. Salivahanan
Vice Chancellor



Department Leaderships



Dr. V Srinivasa Rao
Dean - School of Computing



Dr. Visumathi J
HoD - Information Technology

Semester Overview

The Winter Semester of the Academic Year 2022-2023 reflected the Department of Information Technology's continued focus on student innovation, competitive coding, project development, industry-oriented learning, faculty development and academic outreach. Students earned recognition in hackathons and project competitions, while the department conducted technical workshops and development programmes in User Experience Design, Industrial Internet of Things, Big Data Analytics and Data Science.

Lavaza 2K23 - HackIT: Student Prize Winners

09-11 February 2023

Students of the Department of Information Technology demonstrated their problem-solving and technical skills at HackIT, conducted as part of Lavaza 2K23 at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology. Mr. Prashant Kumar Singh secured First Prize, while Mr. Punith E secured Second Prize. The achievement reflected the students' enthusiasm for coding, innovation and competitive technical challenges.



TECHgium - 6th Edition: Industry Innovation Recognition

12 February 2023

Mr. Punith E and Mr. M. Mohammed Muzameel Hussain received Certificates of Recognition in TECHgium - 6th Edition, an industry innovation initiative of L&T Technology Services. Their concept, “Speech Recognition Solution by Forecasting Hidden Unit of BERT by Constraint Module,” showcased their interest in Artificial Intelligence and speech-processing applications and provided valuable exposure to industry-driven innovation.



IFERP Project Competition 2023 - Student Project Presentation

12 February 2023

Students Mohamed Fazil A, Tajunissa K and Muhammed Ajnas D. P. presented the project titled “Monitoring System for Increasing Crop Yield Production” in the idea phase of the IFERP Project Competition 2023 held at SRM Institute of Science and Technology. The participation encouraged students to transform technical ideas into practical solutions addressing real-world agricultural needs..



Social Outreach - Blood Donation Awareness

01 March 2023



Mr. Sala Mohan Sai Vikas received appreciation for creating awareness and mobilising voluntary blood donors. The recognition highlighted the importance of social responsibility and student participation in community-oriented initiatives beyond academics.

Hackerz'23 - Technical Participation

17 March 2023

Ms. Varshini Priya P. J. participated in “Duo Developers” at Hackerz'23, organized by Chennai Institute of Technology. The technical event provided an opportunity to test programming and problem-solving abilities in a competitive environment and encouraged.



Resource Person - From Data to Decisions: Statistical Approaches to Data Analysis

21 March 2023

Dr. M. Dhilsath Fathima delivered a resource-person session titled “From Data to Decisions: Statistical Approaches to Data Analysis” at Park College of Engineering and Technology, Coimbatore. The session focused on the role of statistical methods in interpreting data and supporting informed decision-making. Students to engage with peer learners from other institutions.

One Day Workshop on User Experience (UX) Design

31 March 2023

The Department of Information Technology organized a One Day Workshop on “User Experience (UX) Design” on 31 March 2023. The session was handled by Mrs. Abisha N., Senior User Experience Designer, Cognizant Technology Solutions, Chennai. A total of 54 students participated in the workshop. The programme introduced Design Psychology, Research Methods, Information Architecture, Wireframing, Prototyping, Interaction Design, Inclusive Design and basic UI development. Through activity-based learning, students gained an understanding of how user needs are translated into effective interfaces and meaningful digital experiences.

Registration Form:
One Day Workshop
"User Experience (UX) Design"

Name: _____
Designation: _____
Organization: _____
Address: _____
Phone: _____
Email: _____

SIGNATURE

Workshop Registration Link
Registration for the Workshop Programme shall be done through online with the following registration link:
<https://forms.gle/c4rQZVnTYvB1j7>

Important Dates
Last Date of Registration : 29.03.2023
Confirmation Date : 30.03.2023

CHIEF PATRONS
Col. Prof. Dr. Vel. R. Rangarajan
Chancellor & Founder President
Dr. Sagunthala Rangarajan
Foundress President

PATRONS
Prof. Dr. S. Salivahanan
Vice Chancellor

CONVENOR
Dr. V. Srinivasa Rao
Dean - School of Computing

COORDINATOR
Dr. J. Visumathi
Professor & Head
Dept. of Information Technology

Resource Person
Mrs. Abisha N
Senior User Experience Designer
Cognizant Technology Solutions

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

One Day Workshop
on
USER EXPERIENCE (UX) DESIGN
31st March, 2023

IEEE **Convenor** **IET**
Dr. V. Srinivasa Rao
Dean - School of Computing

Organized by
Department of Information Technology
School of Computing
Vel Tech Rangarajan Dr. Sagunthala R&D
Institute of Science and Technology
Aradi, Chennai - 600 962.
Website: www.veltech.edu.in Toll Free : 1800 2127 669

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

School of Computing
Department of Information Technology

Cordially invites you for
One Day Workshop
On
USER EXPERIENCE (UX) DESIGN
31st March, 2023
10.00 am to 04.00 pm
Block 4, Dr.A.P.J. Abdul Kalam Hall | 4103

RESOURCE PERSON
Mrs. Abisha N
Senior User Experience Designer
Cognizant Technology Solutions

In the presence of
Col. Prof. Vel. Dr. R. Rangarajan
Chancellor & Founder President - Vel Tech
Dr. Sagunthala Rangarajan
Foundress President - Vel Tech
Prof. S. Salivahanan
Vice Chancellor - Vel Tech

Event Coordinator
Dr. J. Visumathi
Professor & Head
Information Technology
Vel Tech

Convenor
Dr. V. Srinivasa Rao
Dean - School of Computing
Vel Tech

IEEE **Convenor** **IET**
Dr. V. Srinivasa Rao
Dean - School of Computing

Organized by **School of Computing**
Department of Information Technology

Website: www.veltech.edu.in
Toll Free : 1800 2127 669



One Day Workshop on Industrial Internet of Things with Real-Time Application Using IoT Cloud

13 April 2023

The Department of Information Technology organized a One Day Workshop on “Industrial Internet of Things with Real-Time Application Using IoT Cloud” on 13 April 2023. The session was delivered by Mr. Donald Jose Patris, Digital Solution Architect, NTT DATA, Chennai. Students were introduced to IoT fundamentals, communication protocols, design and development approaches, cloud support services and real-time Industrial IoT applications. Practical examples helped participants understand the connection between IoT devices, cloud platforms and industry use cases. The session also provided guidance on career opportunities in IoT and Cloud technologies.



25

Vel Tech



Vel Tech

Rangarajan Dr. Sagunthala

Dr. D. Institute of Science and Technology

(Approved by the University Grants Commission, New Delhi, India)



AACSB

ACCREDITED

School of Computing

Department of Information Technology

Cordially invites you for

One Day Workshop

on

INDUSTRIAL INTERNET OF THINGS WITH

REALTIME APPLICATION USING IOT CLOUD



40

 13th April, 2023

 09.45 am to 12.45 pm

 Block 4,
Dr.A.P.J. Abdul Kalam Hall | 4103

RESOURCE PERSON

Mr. Donald Jose Patris
Digital Solution Architect
NTT DATA



Event Coordinators
Dr. N. Noor Aleema
Associate Professor / IT
Dr. S. Jagadeesh
Associate Professor / IT
Vel Tech

Head of the Department
Dr. J. Vinumathi
Professor & Head / IT
Vel Tech

In the presence of
Col. Prof. Vel. Dr. R. Rangarajan
Chancellor & Founder-President - Vel Tech
Dr. Sagunthala Rangarajan
Foundress-President - Vel Tech
Prof. S. Salivahanan
Vice Chancellor - Vel Tech



Convenor
Dr. V. Srinivasa Rao
Dean - School of Computing
Vel Tech

Organized by
School of Computing
Department of Information Technology

Website: www.veltech.edu.in

Toll Free : 1800 2127 669

12

IEEE International Conference - Faculty Academic Engagement

19-21 April 2023

Dr. J. Visumathi contributed to the IEEE International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems, held at Bangalore Institute of Technology in association with the IEEE Bangalore Section, from 19 to 21 April 2023. The engagement strengthened academic networking and knowledge exchange in emerging areas of computing and intelligent information systems.

CODEATHON - April 2023: First Prize

April 2023

Mr. Prashant Kumar Singh secured First Place in the April 2023 edition of Vel Tech CODEATHON, organized by the Office of Campus to Corporate, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology. He received a cash prize of Rs. 5,000 in recognition of his performance in the coding competition. The achievement marked another notable success in the department's competitive programming activities.



Faculty Development Programme on Big Data Analytics

10-14 May 2023

A Faculty Development Programme on “Big Data Analytics” was conducted from 10 to 14 May 2023 with Mr. M. Sathis of Netwrap Software Solution, Chennai, as the resource person. The programme focused on contemporary concepts and practices in Big Data Analytics and provided participants with exposure to data-driven technologies and their applications. The programme recorded 20 participants.

Faculty Development Programme on Data Science

15-26 May 2023

A Faculty Development Programme on “Data Science” was conducted from 15 to 26 May 2023. Mr. K. Balachandar, Technical Architect, Incedo Technical Solution, Chennai, engaged the participants with current concepts, tools and practices in Data Science. The programme supported continuous faculty development and recorded 42 participants.

Student Skill Development - Machine Learning Training

May 2023

Students strengthened their industry-relevant skills through certified online training pro-programmes. Mr. Punith E successfully completed a six-week Machine Learning training pro-programme with a score of 85%, while Mr. M. Mohammed Muzameel Hussain also completed a six-week Machine Learning training programme. These certifications complemented classroom learning with structured hands-on exposure to Machine Learning concepts.



Student Career Preparation - Internship & Job Preparation Training

27 May 2023

Mr. Punith E successfully completed a four-week Internship & Job Preparation training pro-gramme and achieved a score of 100%. He was also recognised as a top performer. The pro-gramme strengthened essential career-readiness skills and supported the student's preparation for internship and employment opportunities.

ATOS Robust Integrated Skill Enhancement (ARISE) - Faculty Development

29 May-05 June 2023

Faculty members of the Department of Information Technology participated in the ATOS Robust Integrated Skill Enhancement (ARISE) programme across specialised technology domains. The areas included Web and Mobile Application Development, Middleware, Networking and Wireless Communications, Unix Operating Systems, Cloud Computing and Application Modernization Services. The industry exposure supported faculty members in strengthening practical knowledge and applying contemporary industry practices while mentoring students for major and minor projects, technical skill development and placement preparation.



Faculty Innovation - Prototype Development

Academic Year 2022-2023

Faculty members contributed to innovation and prototype development in areas relevant to Information Technology and smart applications. The prototypes included an Automatic Authentic News Feed System, an IoT-based Automated Climate Control System for Precision Agriculture, a Blockchain-based IoT-enhanced Waste Collection Tracking System and an IoT-based Soil Moisture Detection System. These developments demonstrated the department's focus on translating technical knowledge into practical solutions.

Winter Semester Closing Note

The Winter Semester of 2022-2023 was marked by strong student participation in hackathons, project competitions, coding events and certified skill-development programmes. Department-organized workshops in UX Design and Industrial IoT, along with FDPs in Big Data Analytics and Data Science, provided valuable exposure to current technologies. Faculty members further strengthened academic and industry engagement through conferences, professional development and the ARISE skill-enhancement programme. Collectively, these activities reinforced the department's commitment to innovation, employability, continuous learning and industry readiness.



School of Computing

**Department of
Information Technology**