

**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**



2022-2023 (ODD SEMESTER)

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ENGINEERING**



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With the immense gratitude and admiration for the Department of Computer Science's outstanding contributions over the past year. As a college advisor, I have had the privilege of witnessing firsthand the department's unwavering dedication to fostering academic excellence and professional growth among our students.

Throughout the year, the Department of Computer Science has organized numerous technical events, each meticulously designed to provide students with practical insights and hands-on experience in their field of study. From coding competitions to "Hackathons" and workshops, these events have not only enriched our students' academic journey but have also nurtured their passion for computer science and technology.

Moreover, I am deeply impressed by the department's relentless efforts towards placements. Through career fairs, networking events, and industry partnerships, the department has played a pivotal role in connecting students with promising career opportunities in the tech industry. Your commitment to ensuring the employability of our students is truly commendable and reflects the department's unwavering dedication to their success.

As a college advisor, I am keenly aware of the impact that the Department of Computer Science has had on our students' lives. Your dedication, passion, and tireless efforts have not gone unnoticed, and I am immensely grateful for all that you do. Your commitment to academic excellence and student success is an inspiration to us all.

In closing, I would like to extend my heartfelt appreciation to the entire Department of Computer Science for their outstanding contributions and dedication to our students' academic and professional growth. Your hard work and commitment have made a significant difference in the lives of our students, and for that, we are truly grateful.

Mr.K.Razak
Adisor



With profound appreciation and admiration for the Department of Computer Science's outstanding contributions to our academic community. As a college advisor, I have had the privilege of witnessing the department's unwavering dedication to nurturing student growth and success.

Throughout the academic year, the Department of Computer Science has orchestrated a myriad of technical events, each carefully crafted to provide students with invaluable hands-on experience and practical insights into the dynamic field of computer science. From coding competitions to "Hackathons" and workshops, these events have not only enriched our students' academic journey but have also fueled their passion for innovation and technology.

Furthermore, I am deeply impressed by the department's steadfast commitment towards placements. Through career fairs, networking events, and industry collaborations, the department has gone above and beyond to connect students with promising career opportunities in the ever-evolving tech industry. Your dedication to ensuring the employability and professional success of our students is truly commendable and serves as a beacon of inspiration for us all.

As a college advisor, I am acutely aware of the profound impact that the Department of Computer Science has on our students' lives. Your tireless efforts, unwavering dedication, and boundless enthusiasm have not only shaped the academic landscape of our institution but have also transformed the lives of countless students.

In closing, I wish to extend my heartfelt appreciation to the entire Department of Computer Science for their exemplary contributions and unwavering commitment to our students' academic and professional development. Your dedication and passion are truly unparalleled, and I am immensely grateful for the invaluable role you play in shaping the future leaders of tomorrow.

Mr.M.Vaasu
Adisor



I am delighted to take this opportunity to express my sincere appreciation to the Department of Computer Science for their outstanding contributions and tireless efforts in enriching our academic environment. As we reflect on the past academic year, it is evident that the Department of Computer Science has consistently demonstrated excellence in various facets of education, research, and professional development.

One of the highlights of the department's initiatives is the Kani Tamil Peravai, a platform that celebrates the richness of our cultural heritage while fostering linguistic proficiency among our students. The efforts put forth by the department in organizing this event have not only promoted cultural awareness but also provided a unique learning experience for our students.

Moreover, the department's dedication to enhancing the employability of our students is truly commendable. Through initiatives such as Mock Interviews and Technical Discussions, tailored specifically for our IV Year Value Added Course, students have been equipped with the necessary skills and confidence to excel in their professional endeavors. Covering a wide range of topics including C, C++, Java, Python, SQL, Data Structures, and more, these events have been instrumental in bridging the gap between academia and industry.

Additionally, the department's commitment to fostering a culture of research and innovation is evident through the Research Talks organized for our students. By providing a platform for scholarly discussions and knowledge sharing, the department has inspired our students to explore new horizons and pursue excellence in their chosen fields.

I am particularly impressed by the collaborative spirit and dedication exhibited by the faculty and staff of the Department of Computer Science. Their unwavering commitment to student success, coupled with their passion for teaching and research, has been a driving force behind the department's achievements.

As we look ahead to the future, I have no doubt that the Department of Computer Science will continue to uphold its tradition of excellence and innovation. On behalf of the entire college community, I extend my heartfelt gratitude to the department for their invaluable contributions and dedication to academic excellence.

Dr.N.Balaji
Principal



As we reflect on the past year, I am filled with immense pride and gratitude for the remarkable accomplishments of the Department of Computer Science. It has been a year marked by innovation, collaboration, and unwavering dedication to excellence, and I am honored to celebrate the myriad achievements of our departmental community.

Throughout the year, the Department of Computer Science has been at the forefront of fostering academic excellence and professional growth among our students. Our commitment to providing a holistic learning experience is evident in the multitude of events and initiatives organized by the department.

One of the cornerstones of our department's initiatives is the relentless focus on industry relevance and employability. We have conducted numerous Mock Interviews and Technical Discussions tailored specifically for our IV Year students, focusing on essential topics such as SQL, Data Structures, and more. These initiatives have not only equipped our students with the practical skills and knowledge required to excel in their careers but have also provided them with invaluable insights into the industry landscape.

Furthermore, the department's dedication to fostering a culture of research and innovation has been truly inspiring. Our Research Talks have provided a platform for students to showcase their scholarly work, exchange ideas, and collaborate on cutting-edge research projects. This emphasis on research not only enriches the academic experience of our students but also contributes to the advancement of knowledge in the field of computer science.

As we look ahead to the future, I am confident that the Department of Computer Science will continue to uphold its tradition of excellence and innovation. Together, we will strive to push the boundaries of knowledge, inspire creativity, and empower our students to make a meaningful impact on society.

On behalf of the entire college community, I extend my heartfelt appreciation to the Department of Computer Science for their outstanding contributions and dedication to academic excellence. Your hard work and dedication have truly made a difference in the lives of our students, and for that, we are immensely grateful.

Dr.S.Soundararajan

Vice-Principal



To express my heartfelt appreciation to the Department of Computer Science for their outstanding contributions and unwavering dedication to our academic community. As the Head of the Department, and a proud member of this esteemed group, I am privileged to witness the remarkable efforts put forth by each member of our department.

Over the past year, our department has organized numerous technical events that have not only enriched the academic experience of our students but have also provided them with invaluable practical knowledge and skills. From coding competitions to hackathons, workshops, and seminars, these events have served as platforms for our students to explore their passions, expand their horizons, and develop essential competencies in the ever-evolving field of computer science.

In addition to these technical events, I am deeply appreciative of the department's dedication towards placements. Through career fairs, networking events, and industry collaborations, we have worked tirelessly to connect our students with promising career opportunities in the tech industry.

I am particularly proud of the recent Technical Discussions organized for our IV Year Value Added Course, covering essential subjects such as C, C++, Java, Python, SQL, Data Structures, and more. These discussions, along with insightful Research Talks, exemplify our department's commitment to providing a comprehensive and well-rounded education to our students. Your dedication to their academic and professional development is inspiring and serves as a testament to the excellence that defines our department.

In closing, I wish to extend my sincere gratitude to the entire Department of Computer Science for their outstanding contributions and commitment to excellence. Together, we will continue to strive for academic excellence, innovation, and student success.

Dr.V.P Gladis Pushparthi
HOD-CSE

INSTITUTE VISION

To be a leader in imparting quality technical education, research & enterprising skills in pursuit of professional excellence.

INSTITUTE MISSION

- **To promote quality education & technical skills to meet the industry requirements.**
- **To incorporate team work, leadership skills & lifelong learning.**
- **To facilitate career development & higher education assistance.**
- **To encourage innovative ideas for research & development and entrepreneurship for societal needs.**
- **To inculcate ethical responsibility & human values.**

VISION OF THE DEPARTMENT

To Create Successful Engineers with Technical Competency and Innovative Ideas in The Field of Computer Science and Engineering.

MISSION OF THE DEPARTMENT

To achieve academic excellence through effective teaching-learning process to meet the demands of the industry.

- **To equip students to face the challenges in the field of Computer Science and Engineering and prepare them as responsible engineers with human values.**
- **To enrich students with required skills for employability, entrepreneurship and pursuing higher studies.**
- **To encourage the students to implement innovative ideas for research and development.**

Program Outcomes (POs)

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.**
- 2. 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.**
- 3. 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.**
- 4. 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.**
- 5. 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.**
- 6. 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. Program Outcomes (POs)**

Program Outcomes (POs)

- 7. 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.**
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.**
- 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.**
- 10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being 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.**
- 11. 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.**
- 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage independent and life-long learning in the broadest context of technological change**

PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

GRADUATES OF COMPUTER SCIENCE AND ENGINEERING PROGRAM WILL

- 1. Apply their technical competence in computer science to solve real world problems, with technical and people leadership.**
- 2. Conduct cutting edge research and develop solutions on problems of social relevance.**
- 3. Work in a business environment, exhibiting team skills, work ethics, adaptability and lifelong learning.**

PROGRAMME SPECIFIC OUTCOMES (PSO's)

GRADUATES OF BACHELOR OF COMPUTER SCIENCE AND ENGINEERING WILL HAVE THE ABILITY AND CAPABILITY TO

PSO1: Apply the acquired knowledge of Mathematics and Computer Science Engineering fundamentals to analyse, design and develop software products or projects.

PSO2: Identify and apply appropriate latest software tools to provide solutions for complex engineering problems.

EDITORIAL BOARD

News Letter	2022
Chief Editor	Gnaneswaran B (IV Year) Kamireddy Chitra (IV Year) Swarna Dharshini V (IV Year) Shaik Alfiaz (IV Year) Mahesh D (IV Year) Yashwanth V (IV Year)
Student Editorial Board	Varsha (IV Year) Rajnith (IV Year) K.Ajith Kumar (IV Year) Sai Praba J (IV Year) VR.Chidambaram (IV Year) Keerthana PV (IV Year) Monisha KS (IV Year) Archana A (IV Year)
Staff Coordinator	Mr. R.Raja Assistant Professor – CSE



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WEB DEVELOPMENT

Place : Velammal Institute of Technology

Date : 22/08/2022

DESCRIPTION :

Web development activity was conducted on 22/08/2022(Monday) during the activity hour. Students from third year CSE participated in the activity.

Introduction to web designing was given to students by Mr.Retheesh.D, AP/CSE.

Students were started designing the web page using html and css.

The session went on well and students were actively participated.



Value Added course

Place : Velammal Institute of Technology

Date : 25/08//2022

DESCRIPTION :

The five day workshop was held from 25/08/2022 to 29/08/2022. The program started at 9:00am with the welcome address given by Head of Department Professor Dr.V.P.Gladis Pusparathi. Second year students from our department were attended the workshop. The workshop focused on 'C' programming language. It covered the following concepts: -

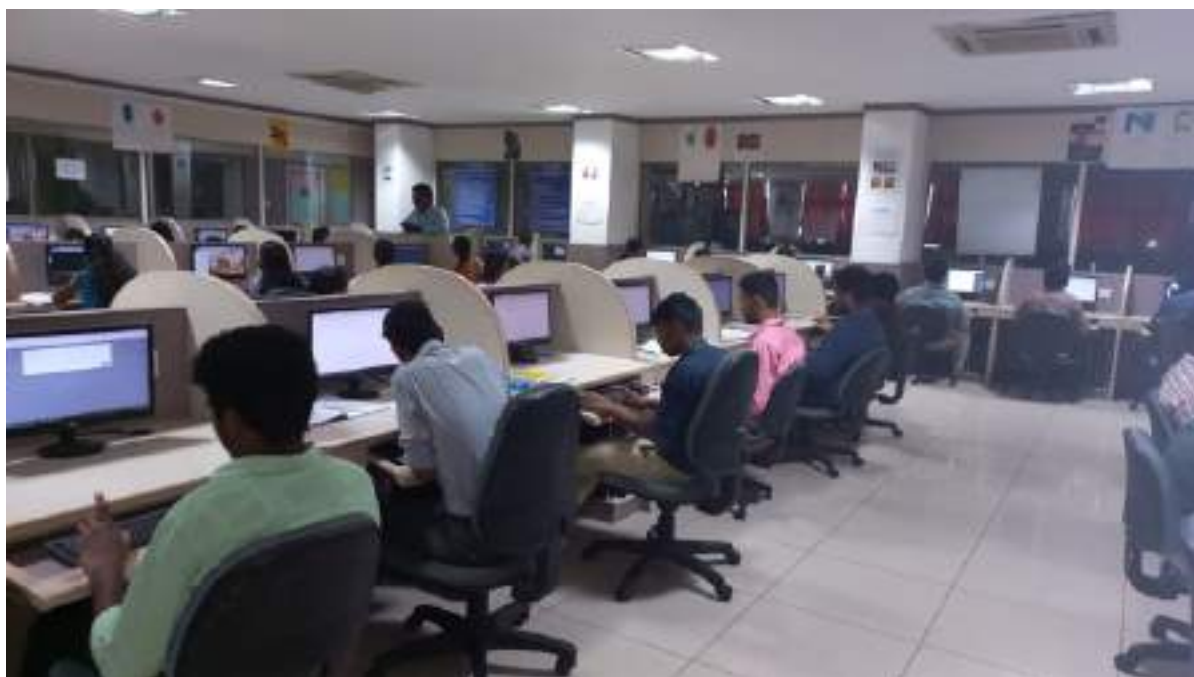
Day1: Introduction to C

Day2: Control Structures

Day3: Array & Pointers

Day4: Functions & String

Day5: File operation and Application



TECH EXPO 2022

Place : Centre for Sponsored Research and Consultancy,
Anna University, Chennai

Date : 22/08/2022

DESCRIPTION :

The TECH EXPO - 2022 was held from 11th to 13th August 2022, organized by Centre for Sponsored Research and Consultancy, Anna University, Chennai. Around 98 students from third year CSE along with four faculty members were visited the event on 12/08/2022 at 2:30 pm. The time slot was assigned by the organizing committee of the university. Students and Faculty members from Anna University showcased their designed products, hardware and software in the areas such as Agriculture, Food, Environment, Water resources, Energy, Material Science, Life Sciences, Defence, Healthcare, and Space Technologies in the exhibition. Our students were motivated towards research works and technology transfer. Students and the faculty members got many innovative projects ideas through the event. It was very interesting and informative to students and faculty members. We left from Anna University around 4.00 pm with full of satisfaction



Seminar On Cloud Computing

Place : TARCIN ROBOTICS LLP

Date : 22/08/2022

DESCRIPTION :

The Seminar was held on 22/08/2022. Resource personality Mr.Ajmeer Kaja Mohideen graced the occasion with his presence. The program started at 1.00 pm with the welcome address by Head of Department Professor V.P. Gladis Pusparathi. Interested faculties and students from other department were invited for the seminar. The seminar focused on knowledge representation in Data Science It covered the following concepts

- Future Computing,
- Cloud computing,
- Accessing Website Mode,
- Fundamentals in Computing,
- Business Analyst,
- Technical Support,
- Data Science

The program wrapped up around 3.10 pm. The vote of thanks was given by Assistant Prof. S. Rahini sudha.



Seminar on Data Science

Place : NIIT Ltd , Anna Nagar, Chennai

Date : 9/11/2022

DESCRIPTION :

The Seminar was held on 9/11/2022. Resource personality Mr. P. Saravanan was graced the occasion with his presence. The program started at 10.00 am with the welcome address given by Head of Department Professor Dr. V.P. Gladis Pusparathi. All department faculties and second year students from our department were attended for the seminar. The seminar focused on Data Science. It covered the following concepts:-

- Why we are talking about Data Science?
- What is Data Science?
- Fourth Paradigm of Science.
- Data Science and others.
- Big Data Science Tasks.

The program wrapped up around 12:30 pm with vote of thanks was given by Assistant Prof. Ms. S. Shanthasheela



Seminar on Installing Operating System

Place : Connect Info Systems

Date : 1/11/2022

DESCRIPTION :

The Seminar was held on 1/11/2022. Resource personality Mr. Siva Kumar was graced the occasion with his presence. The program started at 10.00 am with the welcome address given by Head of Department Professor Dr.V.P. Gladis Pusparathi. All department faculties and second year students from our department were attended for the seminar. The seminar focused on knowledge representation in Installing Operating System .It covered the following concepts: -

- Windows XP Installation
- Steps in installing the OS
- Importance of OS installation

The program wrapped up around 12:30 pm with vote of thanks was given by Assistant Prof. Ms.R.M.Shiny



Seminar on Introduction about Cloud Computing

Place : TARCIN ROBOTICS LLP Madurai

Date : 10/08/2022

DESCRIPTION :

The Seminar was held on 10/08/2022. Resource personality Mr. R.Ajmer Mohideen graced the occasion with her presence. The program started at 1.30 am with the welcome address by CSE HoD, Dr.V.P GladisPushparathi. Interested faculties and students from other department were invited for the seminar. The seminar focused on Introduction About Cloud Computing. It covered the following concepts

- Intro about Cloud Computing,
- Server Connection,
- Build apps and games,
- ,
- Microsoft Certificate.

The program wrapped up around 3.00 pm. The vote of thanks was given by HoD.



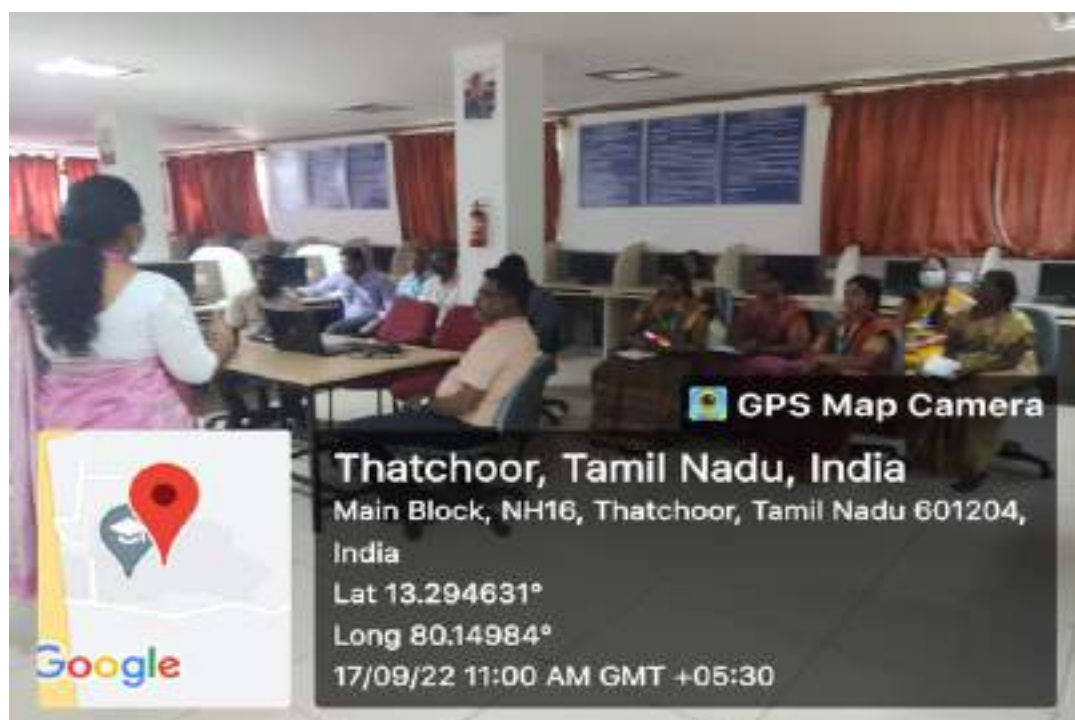
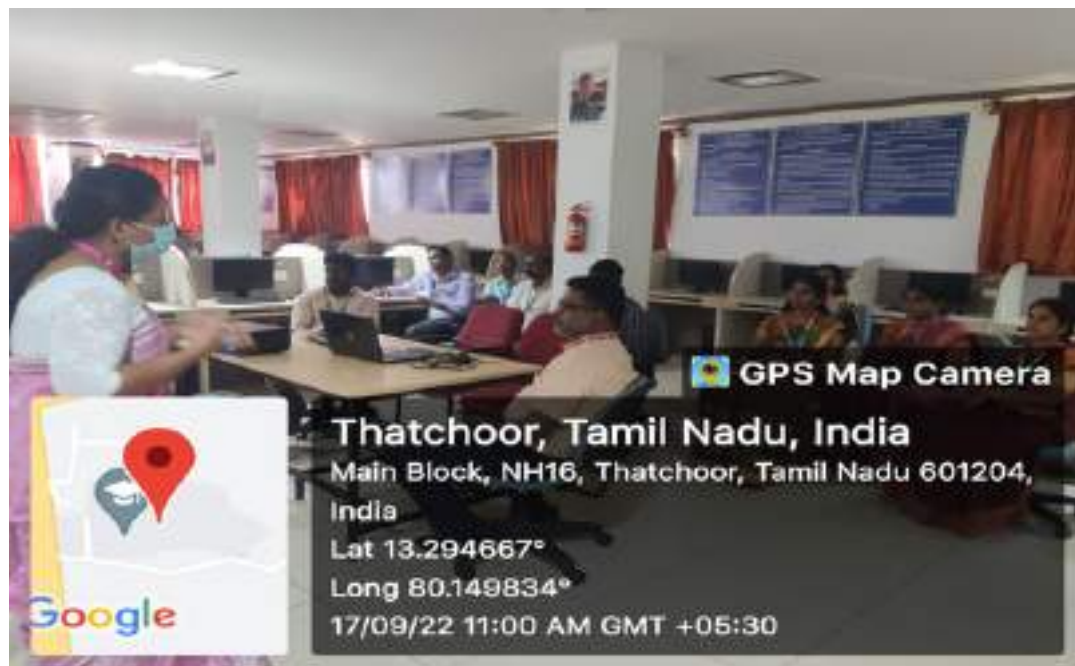
R & D

Place : Velammal Institute of Technology

Date : 17/9/2022

DESCRIPTION :

The R & D seminar was held on 17/9/2022. The program started at 3.30 pm with the Presence of Head of Department Professor Dr.V.P. Gladis Pusparathi and faculties in the Computer Lab. The Head of Department Professor Dr.V.P.Gladis Pusparathi gave seminar on Journal Publication and Patent. The seminar ended with the query session. The entire Faculty eagerly participated and raises the questions



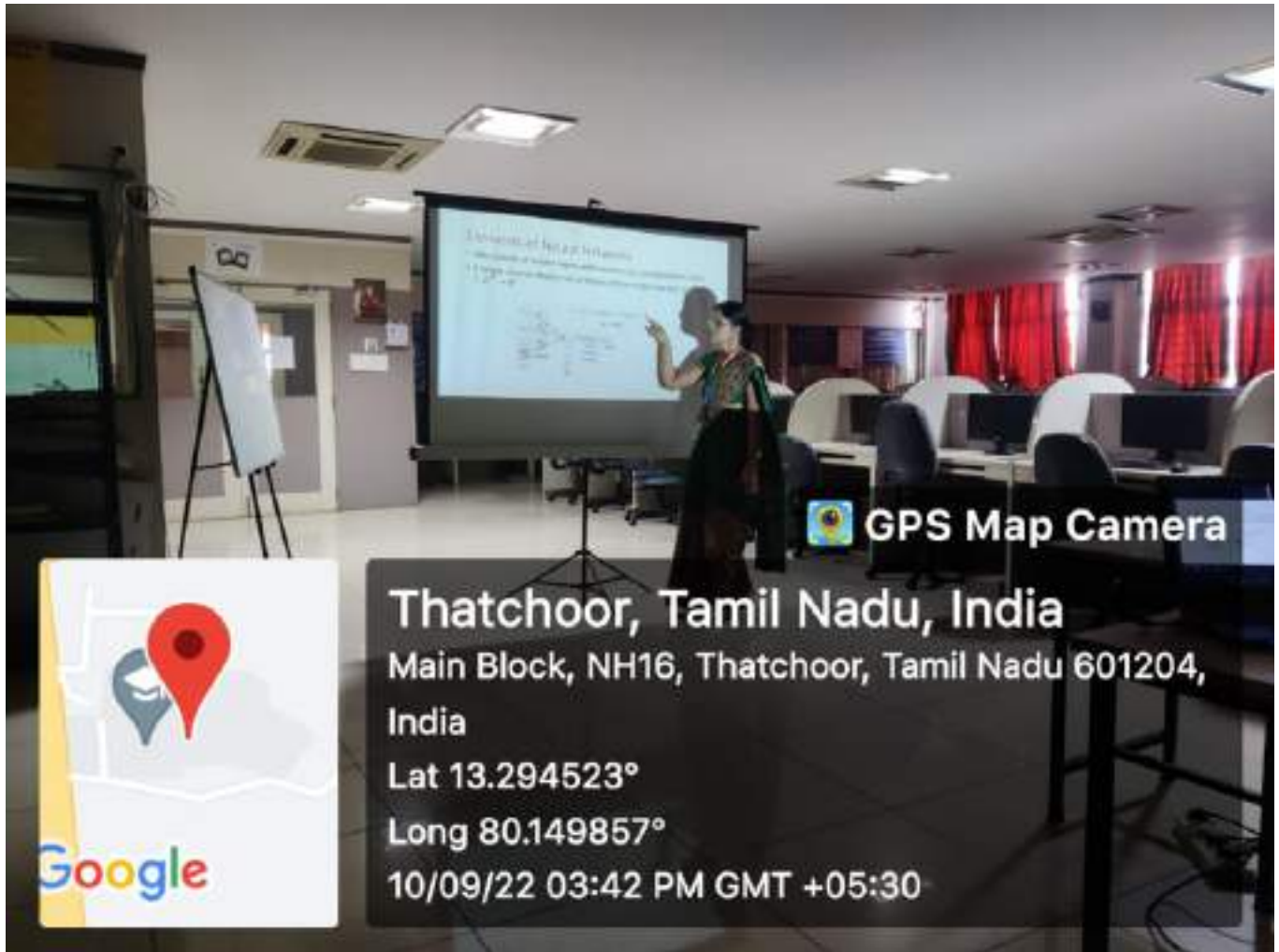
R & D

Place : Velammal Institute of Technology

Date : 10/9/2022

DESCRIPTION :

The R & D seminar was held on 10/9/2022. The program started at 3.30pm with the Presence of Head of Department Professor Dr.V.P. Gladis Pusparathi and faculties in the Computer Lab .The seminar focused on PhD Preparation .Ms.Pranamita nanda Assistant Professor gave the seminar on Deep learning and Machine learning. Then Head of Department Professor Dr.V.P.Gladis Pusparathi gave tips for the Journal Publication, Patent, Scopus, and SCI etc. The seminar ended with the query session. The entire Faculty eagerly participated and raises the questions.



GPS Map Camera

Thatchoor, Tamil Nadu, India

Main Block, NH16, Thatchoor, Tamil Nadu 601204,
India

Lat 13.294523°

Long 80.149857°

10/09/22 03:42 PM GMT +05:30

Placement Preparation **Meeting**

Place : Velammal Institute of Technology

Date : 10/9/2022

DESCRIPTION :

The Seminar was held on 10/9/2022. The students from final year Mr.S.Sanjay, Sify and Mr.Sathish Kumar Zoho gave the seminar. The program started at 10.00 am with the welcome address given by Head of Department Professor Dr.V.P. Gladis Pusparathi. All department faculties and Third year students from our department were attended for the seminar. The seminar focused on Placement Preparation. It covered the following concepts: -

- Solve Random Aptitude.
- Gather previous aptitude test.
- Programming Language: C, JAVA, and PYTHON.
- Subjects Basic: Data structure, Algorithms.
- Other Important CS Subjects: DBMS, OS, Computer Networks.
- Tracking your Progress.
- Resume Building.



MoU

Place : TARCIN ROBOTICS LLP

Date : 22/08/2022

DESCRIPTION :

In the presence of Principal Dr.N.Balaji, HoD Dr.V.P.GladisPushparathi and CSE Faculty members, the MoU was signed on 22/08/2022 at Velammal Institute of Technology, with the Resource personality Mr.Ajmeer Kaja Mohideen TARCIN ROBOTICS LLP.



MoU

Place : Connect Infosystems

Date : 14/12/2022

DESCRIPTION :

In the presence of Principal Dr.N.Balaji, HoD Dr.V.P.GladisPushparathi and CSE Faculty members, the MoU was signed on 14/12/2022 at Velammal Institute of Technology, with the Resource personality Mr.Selva Kumar, Connect Infosystems .



INTRA DEPARTMENT **PROJECT EXPO'22**

Place : Velammal Institute of Technology

Date : 23/10/2022

DESCRIPTION :

An Intra Department Project Expo was organized by Department of Computer Science and Engineering and Department of Artificial Intelligence & Data Science of Velammal Institute of Technology on 13/10/2022 at third floor seminar hall. Dr. T. M. Inbamalar, Professor, Department of Electronics and Communication Engineering, R. M. K College of Engineering and Technology was the chief guest of the day. Around 443 students participated and presented their projects. The coordinators of the Project Expo are Mr. K. Balachander, Associate Professor/CSE and Mr. R. Raja, Assistant Professor/CSE.

Department of Computer Science and Engineering
&
Department of Artificial Intelligence and Data Science



ORGANIZES



INTRA DEPARTMENT PROJECT EXPO

For Second, Third and Final Year Students of CSE and AI & DS



Chief Guest
Dr.T.M.Inbamalar,
Professor,
Electronics and Communication Engineering,
R.M.K College of Engineering and Technology,
R.S.M Nagar, Kavaraipettai - 601 206,
Tiruvallur District.

Venue
Third Floor Seminar Hall

Date
13/10/2022

Co-Ordinators
Mr.K.Balachander & Mr.R.Raja

HoD (CSE)
Dr.V.P.Gladis Pushparathi

HoD (AI&DS)
Ms.R.M.Shiny

Vice Principal
Dr.S.Soundararajan

Principal
Dr.N.Balaji

VELAMMAL
INSTITUTE OF TECHNOLOGY 37 NAAC

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DEPARTMENT OF CSE & DEPARTMENT OF AI & DS
Intra Department Tech Expo 22

AGENDA

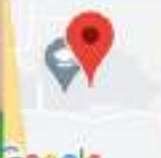
09:30 A.M	Prayer Song	
09:35 A.M	Lighting of Kuthuvilaku	
09:40 A.M	Welcome Address	Dr.V.P.Gladis Pushparathi, HOD/CSE
09:50 A.M	Presidential Address	Dr. N. Balaji, Principal
09:55 A.M	Felicitation Address	Dr.S. Soundararajan, Vice Principal
10:00 A.M	Chief Guest Address	Dr.Inbamalar, Prof, RMKCET
10:15 A.M	Tea Break	
10:30 A.M	Project Expo Starts	
12:45 P.M	Lunch Break	
02:30 P.M	Project Expo End	
02:35 P.M	Prize Announcement & Distribution	
02:45 P.M	Special Address – Chief Guest	
03:00 P.M	Feedback From Students & Jury Members	
03:10 P.M	Vote Of Thanks	Ms. R. M. Shiny, HOD/AI&DS
03:15 P.M	National Anthem	

VELAMMAL
INSTITUTE OF TECHNOLOGY 37 NAAC

Department of Computer Science and Engineering & Department of Artificial Intelligence and Data Science

Intra Department Project Expo '22

Date: 13-10-2022 & Venue: Third Floor Seminar Hall



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GPS Map Camera

Industrial Visit

Place : SATISH DHAWAN SPACE CENTRE (SDSC)
or SRIHARI KOTA HIGH ALTITUDE RANGE (SHAR)

Date : 20.09.2022

DESCRIPTION :

An industrial visit to SDSC-SHAR (ISRO), Sriharikota has been organized by Department of Computer Science and Engineering of Velammal Institute of Technology, for 102 students of B.E III year on 20.9.22, who were accompanied by four faculty members, Mr.Nithin Kumar, Asst. Prof., Mr.Yuvaraj, Asst.Prof Mrs. P.Chitra, Asst. Prof., and Mrs.S.Shantha Sheela, Asst. Prof.



Student Corner







