

# SRI VENKATESWARA COLLEGE OF ENGINEERING (SVCE)

PENNALUR, SRIPERUMBUDUR-602117



# SVCE

Sri Venkateswara  
College of  
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35 Years of Excellence

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### KNOW-I CLUB - ANNUAL REPORT (2021 – 2022)

#### ABOUT KNOW-I

Know-I research forum aims at imparting and enhancing knowledge in the field of Artificial Intelligence, Machine learning, Deep learning, and Computer vision for the students of Sri Venkateswara College of Engineering. One of the priorities is to encourage students to get involved in research-based activities. To achieve this, the forum has an exuberant team consisting of faculty and students to organize competitions, workshops, project presentations, etc. The club acts as a platform for the students, faculty, and industry experts to share their experiences and work collaboratively to provide intelligent solutions for real-world problems.

**FACULTY COORDINATORS: Ms. T. Padmavathy, AP/CS and Ms.V.Radha AP/CS**

#### Club Members

S. NO	NAME	POST	YEAR	ROLL NO
1	Shruthakeerthy S	President	IV C	180501137
2	Sai Hari Krishnan G	Vice President	IV C	180501126
3	Priya Shrinithi R	Secretary	IV B	180501113
4	Dhivya C	Treasurer	IV A	180501039
5	Arvind Nachiappan L	Research Lead	IV A	180501014
6	Bharath Vyas S	Tech Lead	IV B	180501025
7	Sruthi S	Operations Lead	IV C	180501150
8	Kavya Rajendran	Gazette Lead	IV B	180501073

### Executive Members

9	Shashwanth S	Senior Executive Member	III C	190501121
10	Rakesh E	Senior Executive Member	III B	190501095
11	Lokesh B	Senior Executive Member	III B	190501065
12	Vasanth V	Senior Executive Member	III C	190501145
13	Shivaneer Ramesh	Senior Executive Member	III C	190501123
14	Sri Sarini U	Senior Executive Member	III C	190501131
15	Jeffery Joan	Senior Executive Member	III B	190501051
16	Nihil Rengasamy T	Senior Executive Member	III C	190501078
17	Roshini A	Senior Executive Member	III B	190501101
18	Ramanaprasath G	Executive Member	AD - II A	2127200502037
19	Sibi Mughil T	Executive Member	II C	2127200501141
20	Sanjay Karthick M	Executive Member	II C	2127200501122
21	Nandhana S	Executive Member	II B	2127200501095

The list of various events that the club has organized is given in the following table:

S.No	Name of the Event	Date From	Date To
1.	Webinar on "Application of AI in the design of Self-Driving Cars"	7/10/2021	7/10/2021
2.	Guest Lecture on "How to Read Research Papers"	12/01/2022	12/01/2022
3.	Webinar on " Web Development"	06/03/2022	06/03/2022
4.	Webinar on "App Development"	06/03/2022	06/03/2022
5.	Webinar on " Cyber Security"	22/02/2022	22/02/2022
6.	Webinar on " Machine Learning"	06/03/2022	06/03/2022
7.	Online Debugging Event – "UnRavel"	27/03/2022	27/03/2022
8.	hackML'22	07/06/2022	08/06/2022



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**Report on Webinar on “Application of AI in the design of Self Driving Car” - Inauguration  
of KNOW – I Club**

Date: 07/10/2021

Time: 6.00 p.m

**OBJECTIVES:**

The Objective of the webinar is to get the student community introduced with the Self Driving Car, helping humans to reach destinations without a human operator

**EVENT REPORT:**

The inauguration of KNOW-I for the academic year 2021-2022 started with the welcome address given by Ms.T.Padmavathy, Coordinator, Assistant Professor/CSE. Ms.T.Padmavathy gave an introductory talk on the importance of Know-I-Club and a formal introduction of the guest speaker. After that the president of Know-I-Club gave an introductory talk and Professor, Head of the Department, Dr.R.Anitha addressed the gathering. With this note ,the session was taken over by Dr.K.S.Gayathri ,Assistant Professor ,Department of Information Technology ,Siva Subramaniya Nadar College Of Engineering, Chennai.

The speaker started the session with the “**Application of AI in the design of Self Driving Car**”. The Objective of Self Driving Car is to reach destinations without a human operator. The session continued by elaborating the concepts of Artificial Intelligence system in Autonomous Vehicle. The session ended with the vote of Thanks.

**Benefits:** The students were introduced with the basic mechanics behind the Self Driving cars.

*T. Padmavathy*  
07/10/21  
Event Coordinator

*[Signature]*  
13/10/21  
HoD / CSE

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## Report on Webinar on "How to read research papers"

Date: 12/01/2022

Time: 6.00 p.m.

### OBJECTIVES:

The objective of the event is to enable students to understand the right way of reading research papers.

### EVENT REPORT:

The president of the Club, Ms. Shruthakeerthy gave a crisp speech about the objectives and key takeaways of the webinar. She also presented the welcoming address and introduced the chief guest to kickstart the webinar.

Mr. Rahul Kalyan Jakka, started his presentation by giving an overview of what research papers are, the importance of reading journals & conference papers and shared the tips and tricks to read a research paper. Given below were the tips and tricks which were briefly discussed by him. Use various colors to mark the text of different levels of importance, understand the Image and relate with the topic. Image speaks more than words, Understand the Math, Correlate the Math and the Model for better understanding of the working of the model, The more you read the paper, the better you understand it, Form Reading groups with friends or other online platforms. He further shared information as to how to find relevant and fine research papers. He also gave insights into getting research internships. Finally, there was a Q&A session where the speaker engaged with the audience and clarified their doubts.

### Benefits:

45 students registered and participated in the webinar. Students were also provided with certificates of participation.

*P. Padurey*  
8/1/22

Event Coordinator

*[Signature]*  
8/1/22  
HoD / CSE



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## Report on Webinar on Web Development

Date : 06/03/2022

Time : 4.00 p.m

**OBJECTIVES:** The main objective of the event is to give the participants an idea on the web development domain since many of them might have not explored it. The event is also to help the students to gain better knowledge on developing a web and different ways of learning.

**EVENT REPORT:** In this Web development webinar, there was a Live demonstration of the usage of tags, where the following were discussed: The speaker, Mr.Elayanathan.A, Founder and CEO, EROOS Industries demonstrated by Using inspect mode that enables us to make changes easily to the web page, by just clicking on the tags we can know in which part of the website the changes made would be reflected. Then an introduction of Bootstrap framework was given stating it was a style casting tool like CSS which makes the website responsive and gives the user a better experience. The difference between Java and Javascript were shown. Demonstration of Fonts can be imported from google, Basic animations which can be used in a website was shown clearly. The purpose of triggers was explained and also the use of link tag that redirects a page was added on to the point. The speaker gave a clear idea about some of the popular hosting sites such as Godaddy, Hostinger and explained how hosting is basically done through a server. He finally spoke about the AWS services provided by amazon, which is free for students and encouraged them to try the latest services. The speaker was engaging and interacting well which made the session very useful for the students and the positive feedbacks by the students showed that the session turned out to be a very interesting one.

**Benefits:** The main benefit of this event was that the participants were able to develop a strong idea on web development though some of them were new to this and not aware about this domain. The resources which the speaker shared were very useful and informative, he also shared his own experience and his perspective of learning in an efficient way with a clear explanation on the topics.

Event Coordinator

*P. Padmay*  
8/3/22

*[Signature]*  
HoD / *[Signature]*  
1



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## Report – Know-U (App Development Webinar)

Date: 6th March 2022

Time: 1 pm IST

**OBJECTIVES:** The App Development Webinar, part of the Know-U had been conducted to enrich the students with the fundamentals of App Development and usage of Flutter, a mobile application development platform. Mr. Pratik Butani shared his immense experience on the subject and encouraged the students in profile building.

**EVENT REPORT:** The Know-U event being a success hosted a handful of useful webinars. App Development Webinar being one of them. The guest speaker Mr. Pratik Butani is a Team Lead at 7Span - Ahmedabad. He has a staggering amount of 55K reputation on the well-known platform Stack Overflow. The speaker motivated the students to take up various courses and dive into major fields in the industry. He gave a brief explanation of the use of major platforms. Major takeaways from the session: Flutter, a mobile application development platform was introduced to the students. This is an open source framework by Google. Dart language is used for developing all functionalities of flutter. Dart language is much similar to python and java, hence the developer experience is good and the errors are easy to diagnose. The guest speaker also made note-worthy points on the use of widgets and its types. The speaker made an effort to share the links for downloading the application and GitHub links to get the resources from. The student participation and interaction in the event was very enthusiastic. Eager students had major takeaways from the session. Around 70 students filled the participation form, 33 students were actively present throughout the webinar.

**Benefits:** This was a major eye-opening session for the students, especially those who were looking for due guidance and inspiration. As mentioned earlier, many of the participants were interactive during the Q&A session. The Know-U event on the whole touched a new hallmark this year and we are working towards a better and brighter future every day.

*P. Padavey*  
8/3/22

Event Coordinator

*[Signature]*  
8/3/22

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## Report on Webinar on “Cyber Security”

Date: 22/02/2022

Time: 5.30 p.m

### OBJECTIVES:

The main objective of the event is to help the students to gain better knowledge on Cybersecurity then the importance of being secure on internet today and different ways of learning in security.

### EVENT REPORT:

In this event the Coordinator of the Know-I club Ms.T.Padmavathy,Assistant Professor/CSE gave the introductory talk about the objectives of the webinar .She introduced the speaker Praneeth Avapatii ,Svce Alumnus, Threat Researcher, Mind Tree. With this the Speaker started the session by giving an overview of cybersecurity and explained about the importance of security and types of cyber-attacks, maps of cybersecurity domains, Red team/Offensive security, Blue team/Defensive Security, Malware Analysis and reverse Engineering then the skill building like certificates, blogs, tools, etc. The speaker also provided various resources for skill building such as Workshops, Courses, YouTube videos and Books. The participants also interacted with the Speaker to ask doubts regarding competitions on this Domain such as Bug Hunting (a process where hacking companies, or hackers, act as 'middle-men' to detect bugs in software and address cyber vulnerabilities that organizations are facing. These hackers are then duly rewarded for discovering these vulnerabilities before they become a detrimental security issue). Around 70 students filled the Participation form, nearly 43 students are actively present throughout the webinar.







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**Report on Webinar on "Machine Learning"**

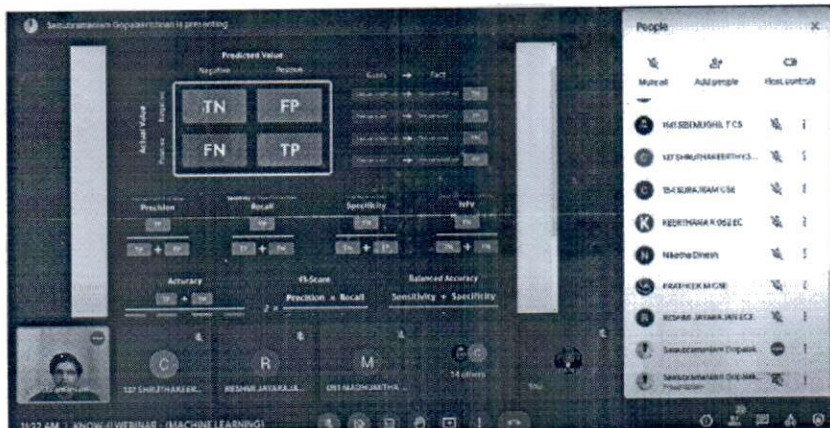
Date: 06/03/2022  
Time: 10.00 a.m.

**OBJECTIVES:**

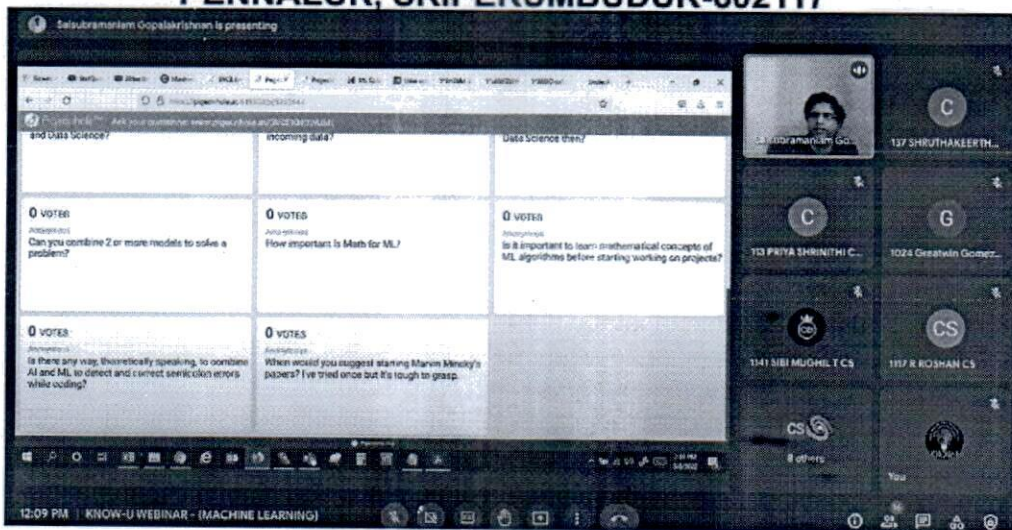
The main objective of the event is to give the participants an idea on the Machine Learning domain since many of them might have not explored it. The event is also to help the students to gain better knowledge on developing a ML Algorithms.

**EVENT REPORT:**

The president of the Club, Ms. Shruthakeerthy gave a crisp speech about the objectives and key takeaways of the webinar. She also presented the welcoming address and introduced the chief guest to kickstart the webinar. The Speaker Mr.Saisubramaniam Gopalakrishnan, Svce Alumni, Research Engineer, Institute of Infocomm Research, started his presentation by giving an overview of Machine learning. In this webinar, there was a Live demonstration of the usage of ML, where the following were discussed: He started the session from the basics of Machine Learning and how machine learning models are trained with labelled data. Then he explained about types of models. After that he started discussed about recent ML Projects by his own experience and the prototype of the ML projects are Shown. The speaker suggested some popular sites are Machine learning lectures, Video channel links, Coursera, Confusion matrix. The speaker was engaging and interacting well which made the session very useful for the students and the positive feedbacks by the students showed that the session turned out to be a very interesting one.



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**BENEFITS:**

The benefit of this event was that the participants were able to develop a strong idea on Machine Learning though some of them were new to this and not aware about this domain. The resources which the speaker shared were very useful and informative, he also shared his own experience and his perspective of learning in an efficient way with a clear explanation on the topics.

*T. Radhey*  
8/3/22  
**Event Coordinator**

*[Signature]*  
8/3/22  
**HOD/CSE**



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## Report on "UNRAVEL" (Online Code Debugging Event)

Date :27/03/2022

Time:9.30-11.30

### OBJECTIVES:

The main objective of the event is debugging functions can be used to create a basic, event-driven debugger. Event-driven means that the debugger is notified every time certain events occur in the process being debugged. Notification enables the debugger to take appropriate action in response to the events.

### EVENT REPORT:

The Know-I event being a success hosted a handful of useful webinars. The "UNRAVEL" Online debugging event being one of them. The president of the Club, gave a speech about the objectives and key points of the online debugging event. The participants can take the test anytime between that scheduled time. It was hosted in hackerrank. So, there were 4 different question groups with 2 questions each and we randomly assigned one to each student so that the student can debugged it and they should submit. The time and success rate were the metrics for deciding the winners.

### BENEFITS:

This event helps the students to have hands-on experience in solving a problem and also tests their competence against the accuracy of their solution. The students got a general idea of how to approach a problem and come up with a solution.

*T. Radaraj*  
3/4/22  
Event Coordinator

*M. S. P.*  
3/4/22  
HoD / CSE

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**Report – Know-I (hackML'22)**

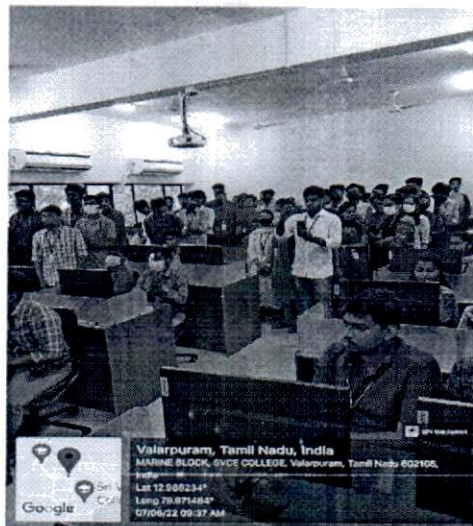
**Date: 7 & 8<sup>th</sup> June 2022**

**OBJECTIVES:**

The Objective of this event aims to test the competence of the students in Machine learning and their ability solve a problem through the ML algorithms and methodologies.

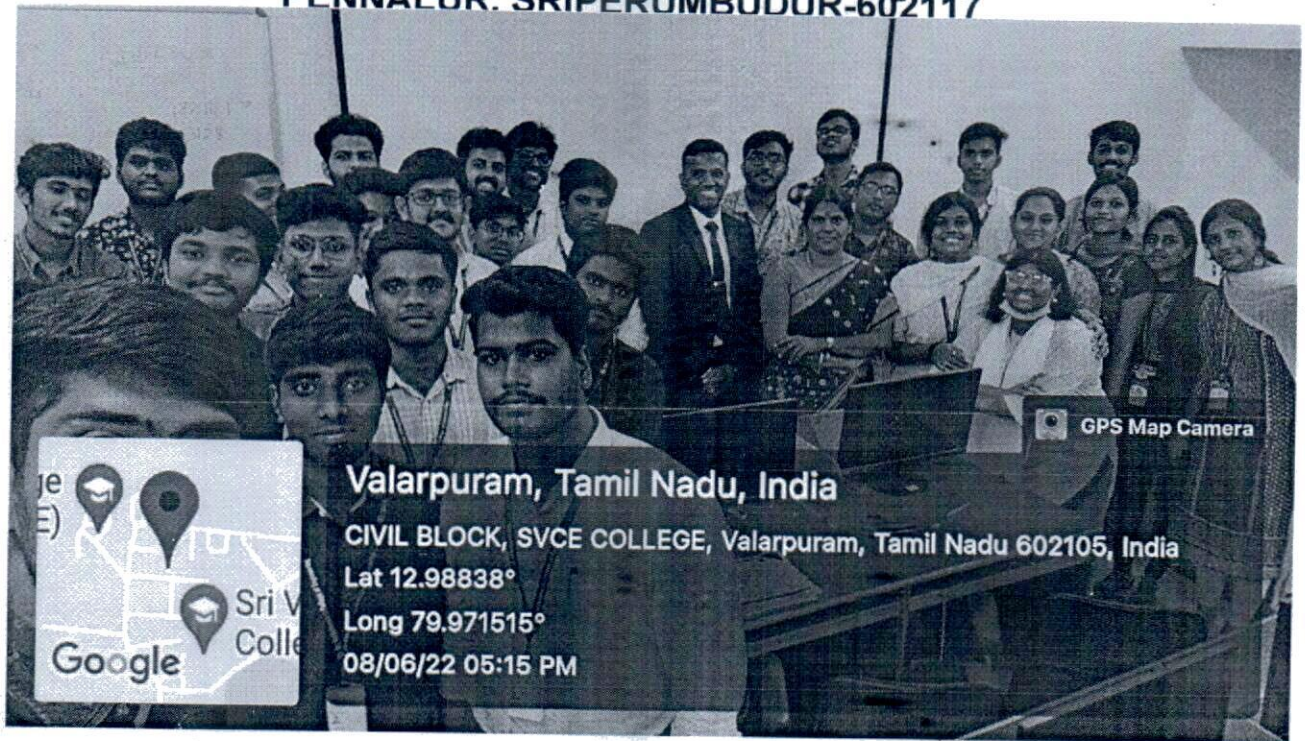
**EVENT REPORT:**

The Coordinator of the Club Ms.T.Padmavathy ,Assistant Professor/CSE gave an introductory talk about the event and professor, Head of the Department, Dr.R.Anitha addressed the gathering. With this note the session was taken over by president and members of the Know-I-Club.HackML'22 is a hybrid model of ML competition cum hackathon spanning over 2 days. The event was split into 2 rounds. The first round consisted of building a binary classification ML model for a dataset common to all teams. There were 30 teams participating in round one and 10 teams were shortlisted based on accuracy. The second round consisted of providing ML based solutions for a given problem statement. The participants prepared a PowerPoint presentation and implemented the solution which was reviewed and judged by the TicVic CEO and Technical Head.





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**BENEFITS:**

This event helps the students to have hands-on experience in solving a ML problem and also tests their competence against the accuracy of their solution. The students got a general idea of how to approach a problem and come up with a feasible solution. The best team will be offered an internship opportunity at Ticvic. And the top three teams will be awarded cash prizes.

*P. Padurey*  
14/6/22

**Event Coordinator**

*[Signature]*  
14/6/22

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**Report on Valedictory-Masters and Beyond**

Date:04/09/2022

Time:5.30-7p.m

**OBJECTIVES:**

The main objective of the event is to give the participants an idea on the Masters and Beyond. Since many of them might have not explored it. The event is also to help the students to gain better knowledge on higher Studies.

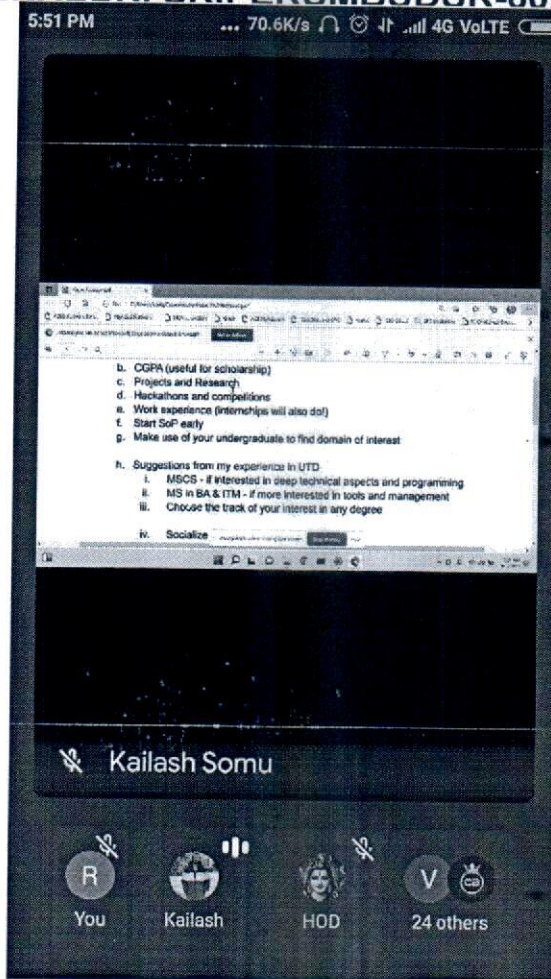
**EVENT REPORT:**

The valedictory of the KNOW-I club event was hosted on 4th September, 2022 via Google meet. The member of the Know –I club has started the Session. The Coordinator of the Club Ms.T.Padmavathy ,Assistant Professor/CSE gave an introductory talk about the event. It was attended by the HOD of the CSE Department, Dr. R. Anitha who encouraged the Club members with her motivating words. With this note the session was handover to **Mr.Kailash.S (CSE Alumnus - 2020 Batch Pursuing M.S - University of Texas at Dallas)**, has given his consent to be the Chief Guest for the event, and will deliver a lecture on "Masters and Beyond". which was extremely informative and useful to the students. Then the Annual Know-I Club reports was read by the Senior Executive Member. Finally the vote of thanks was given by the Co-Coordinator Ms.V.Radha,Assistant Professor/CSE.





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**BENEFITS:**

The benefit of this event was answered almost all questions that a student would concur on studying masters and beyond.

*T. Padheeey*  
*8/9/22*

EventCoordinator

*[Signature]*  
*8/9/22*

HoD/CSE

