



# DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS)

[Affiliated to University of Madras – Linguistic Minority Institution]

#833, E.V.R Periyar High Road, Arumbakkam, Chennai – 600 106.

## PG & Research Department of Master of Computer Applications

# WeBytz

Published on June 2023

Shri. ASHOK KUMAR MUNDHRA  
Secretary

Dr. S. SANTHOSH BABOO  
Principal

### FACULTY MEMBERS OF THE DEPARTMENT

Dr. T. SANTHANAM  
Associate Professor & Head

Dr. T. VELMURUGAN  
Associate Professor

Dr. S. SANTHOSH BABOO  
Principal

Dr. R. ANANDHI  
Assistant Professor

Dr. T. SRIDEVI  
Assistant Professor

Ms. A.S.THENMOZHI  
Assistant Professor

Dr. M.P. SUKASSINI  
Assistant Professor

Dr. S. DEEPALAKSHMI  
Assistant Professor

### EDITORIAL BOARD

Dr. T. VELMURUGAN  
Editor

Dr. M.P. SUKASSINI  
Associate Editor

### MESSAGE FROM THE SECRETARY'S DESK

I am gratified to know that the Department of MCA is bringing out the third issue of their Newsletter “**WeBytz**” of this academic year 2022-2023. This is productive technical material and skill-developing tools for students. I wish the department a very big success in all their efforts to uplift the students’ intellectual skills. I congratulate the editorial team, staff and students of the MCA department for releasing this newsletter.



### MESSAGE FROM THE PRINCIPAL'S DESK

Good things remain good only because they are always scarce. I am glad to know that the Department of MCA is releasing its third issue of the annual newsletter “**WeBytz**”. The efforts taken to bring about innovative content is appreciable. The release of this spectacular second edition has added value to their constant efforts. I congratulate the editorial board on its tireless efforts in bringing out this newsletter.



### MESSAGE FROM THE HOD'S DESK

Our department is one of the pioneering departments and works with the motto “**Nothing can be achieved without genuine effort**”. The core values of the department help the students to develop their overall personality and make them worthy to compete with industry requirements. Our faculty members are continuously attending various training programs, publishing research articles and books. The department also conducts various programs to enrich the technical skills of the students. I congratulate the editorial board who has taken initiative to publish this newsletter.



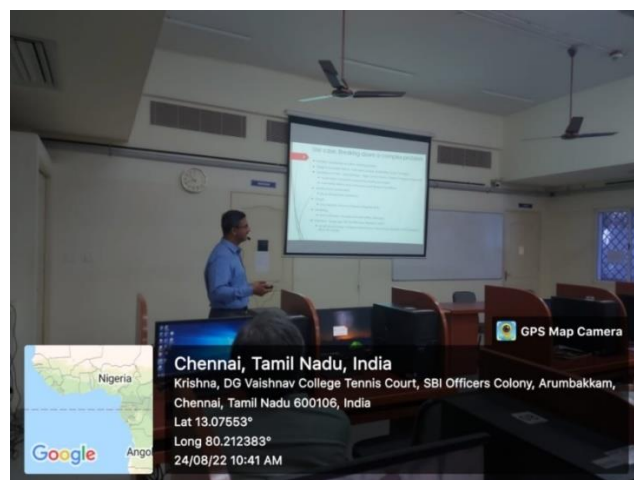
## DEPARTMENT ACTIVITIES

The department has organised the following events during the academic year 2022-2023 to enrich the technical and soft skills of the students

### *Career Guidance in IT Industry*

Mr. Venugopal Gangadharan has clearly outlined his ideas towards career guidance to shine in IT industry. Key takeaways from his talk are:

- He explains how to understand the functionalities behind the trending/new programming languages, architecture, framework, cloud, and artificial intelligence in field of computer science.
  - There are two categories in industrial domain: Product Based and Service Based that work together with full stack development, UI/UX, Data Analysis, ML , blockchain, artificial intelligence, augmented reality, virtual reality and visualization technologies.
  - The basic qualities that IT industry expects from a person to fit in any role are programming logic, data structures, comprehension, articulation & presentation and listening.
- He asked the students to enroll in certificate courses and hence got recognition, which is an important key to find the right domain to excel. He added that the certificate courses really add weightage to their resume.



### *Introduction To Full Stack Development*

The seminar was held on 03.09.2022 at MCA Lab. The resource person was Mr. Jyothish, Senior Data Scientist, Astrazeneca and Co-Founder UnicornAiLabs. The motive of the seminar is employability in full stack development. The resource person guided the students on how to start from scratch and how to focus for the entry level. Also, he discussed employability opportunities on data analytics, data science, python, java and UI & UX designs. He shared his experience and how the projects will be handled in IT companies. Students interacted with resource person and few students asked about the start ups on their own. Finally he gave assurance that students will be given internships based on the test performance.

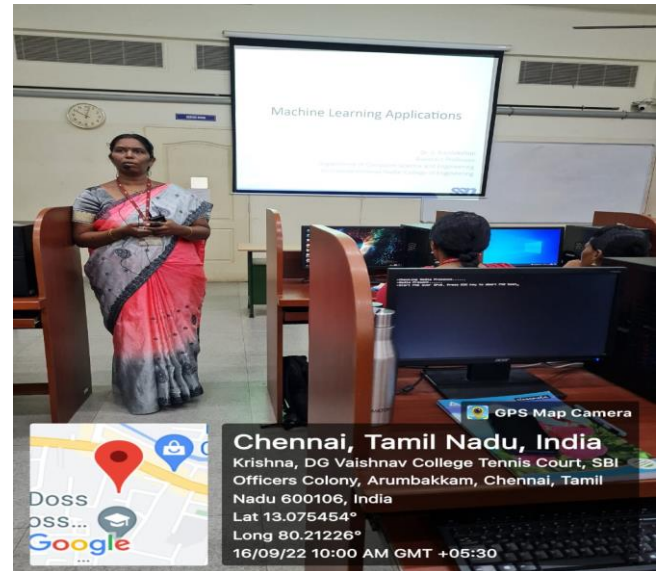
The students have gained a clear idea on how to build their career in full stack development and how to travel and develop skill in that domain for their sustainable career growth.



## MACHINE LEARNING AND ITS APPLICATIONS

Dr. S. Rajalakshmi is working as an Assistant Professor in the Department of Computer Science and Engineering in SSN College of Engineering and has a total of 19 years of experience in teaching and research.

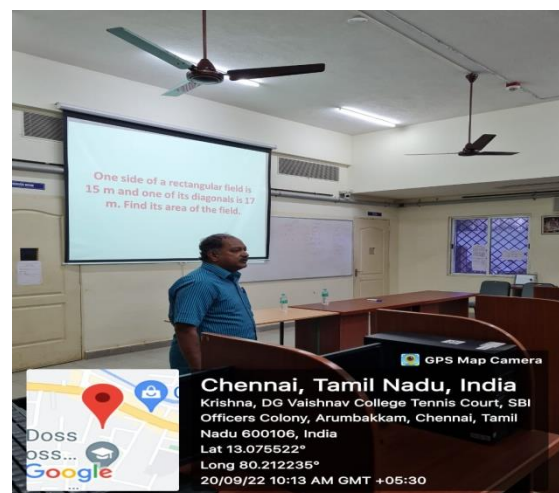
The workshop has two sessions: First session deals with the concepts of Machine Learning like what is Machine Learning, significance, working, and applications of machine learning and also discussed on pros and cons of ML and the popular algorithms etc. The second session is hands-on session on how to implement Machine learning techniques using Python programming. The resource person showed the model building using Linear regression, MLP Classifier and regression. She also explained clearly on how to process the data (data pre-processing steps) and important libraries in Python used for easy and efficient data handling.



## APTITUDE TRAINING WORKSHOP

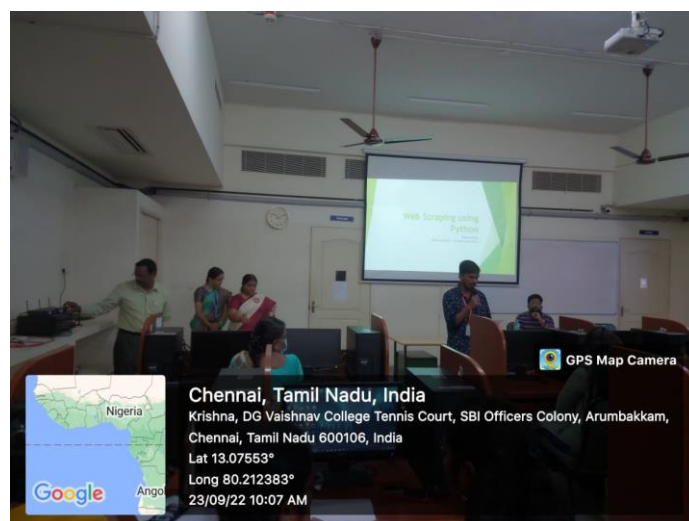
The Department of Computer Applications (MCA) organized a two day workshop on “APTITUDE TRAINING” for the II year MCA students on 17th and 20th September 2022, invited speaker Dr. N. Santhana Krishnan, Assistant Programmer, PG & Research Dept. of Computer Science, Dr. Ambedkar Government Arts College, Vyasarpadi, Chennai. Students were trained on aptitude topics Series – AP,GP & HP, Conditional Probability, Areas and Volumes, Geometry, Trigonometry, Data Interpretation – Data Tables, Pie charts, Bar charts, line graphs and mixed diagrams as part of the placement and Industry preparedness programme. The students were benefited by the approach and shortcuts used by the speaker to solve a problem and also got

their doubts cleared regarding a particular topic. The workshop received an overall positive response from the attendees



## Web Scraping using Python

The webinar was held on 23.09.2022 at MCA Lab. The resource person was Mr. B. Srinivasan, Senior Tech Lead, HCL, Chennai. The motive of the webinar is how to scrap the data from free public web page. The resource person guided the students on how to find the public web page and the importance of identifying the post or pre rendering page. Also he gave hands-on session to students and they executed those computer code in python. He shared his experience and how the projects will be handled in IT companies. Students interacted with resource person and students raised queries.



## PARENT-TEACHER MEETING

The department has organized a Parent-Teacher meet on 19.09.2022 II MCA students. Parents of 55 students have attended the meeting. The Head of the Department, Dr. T. Santhanam welcomed the gathering and introduced the faculty members of the department to the audience. He has detailed about the salient features of the MCA curriculum and insisted the parents to keep track of discipline, dress code and attendance of the students. He highlighted about the importance of developing communication skills, life skills and technical skills that will make the students to be a good citizen of our country. Further, he requested the parents to have a smooth interface with faculty members of the department to know about their ward's progress.. A Couple of parents spoke in the

meeting and appreciated the efforts taken by the department. Feedbacks from the parents were collected.



## STUDENTS INDUCTION PROGRAMME 2022

Students-Induction Programme (SIP 2022) is conducted by PG and Research department of Computer Applications (MCA) from 28.09.22 to 30.09.22 for the benefit of I MCA students of

2022-2024 batch. The first day programme is organized as three sessions.

Day 1-Session 1:

All the I year students along with their parents are welcomed by the department and the identity

cards are given to the students. Parents' meeting is scheduled during this session. The head of the department has delivered the welcome address and clearly explained the rules of the department, the do's and don'ts and the design of 4 semester MCA curriculum through Powerpoint presentation. The parents expressed their happiness in understanding the environment of MCA department and they give positive feedback about the session.

Day 1-Session 2:

Mr. Mathivannan Elangovan, Founder and CEO of Mebot Robotics Pvt. Ltd., a channel partner of Department of MCA acted as the Resource Person of the second session. He delivered his ideas on the topic "Be Industry ready while being in Academia" and interacts with students nicely. He told that this is the very important phase of their life as it is going to decide their career. He advised them to improve their skill set relevant to the current industry needs.

Day 1-Session 3:

Mr. Prashanth Parekh, Chief Architect-2, CTS, alumni and active Board of Studies Member of MCA Department has been the Resource Person of the third session. His topic of the session is "Careers in IT". He asked the students to hitch their wagon to star and search jobs in reputed industries and to develop their talents at par with the IT requirements.

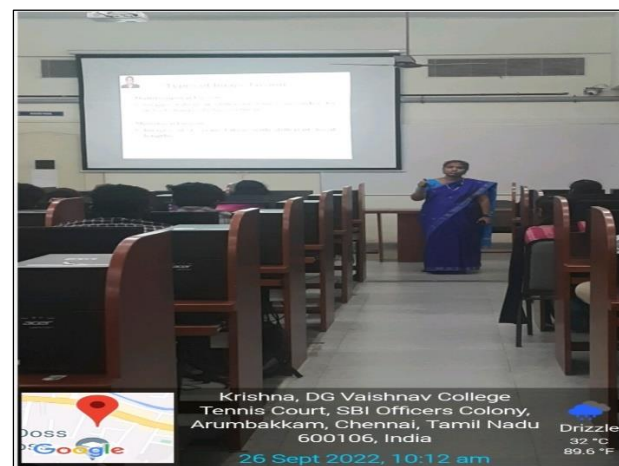


## *Image Processing & its Applications*

The webinar on "Image Processing & its Applications" was held on 26.09.2022 at MCA Lab. The resource person, Dr.G.Malathi is the Professor & Head, MTech Computer Science and Engineering & MTech CSE with Specialization in Big Data Analytics, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai campus. The aim of the webinar is to enlighten the students on the concepts of Image Processing and its applications in various domains. The resource person also highlighted some of the projects done by the students which were an eye-opener for students who are to pursue their project work in the next semester.

The students have gained knowledge of Image Processing and its applications in various

domains. They also have an idea of how projects can be done using image processing.



## *Soft Skills Training Workshop*

Mrs. Jayashree Venkatesan, Manager-Support Services, Ascentya Research and Development Solutions, Chennai has acted as Resource person

for HR workshop on 14<sup>th</sup> and 15<sup>th</sup> October 2022 for I MCA and II MCA students. Ascentya is one of the channel partners of Department of MCA.

First session of training covered understand General Expectations from Corporate standpoint , Corporate attire , Introduction during the interview process, An overview to communication in the interview process, Communicate effectively with recruiters

In the second session training program, the students were taught about some good etiquette to be followed while attending interviews. Tips and guidelines for attending HR interview were also dealt in detail. Few frequently asked questions and the effective answers for those questions were discussed.

On day two, she has handled two sessions in second day as Art of facing interviews and Group Discussions and Mock sessions with Evaluation. She has given tips for the students how to face interviews with self-confidence, the language to be used, the body posters, how to convince the interviewer, and conducted activities to illustrate

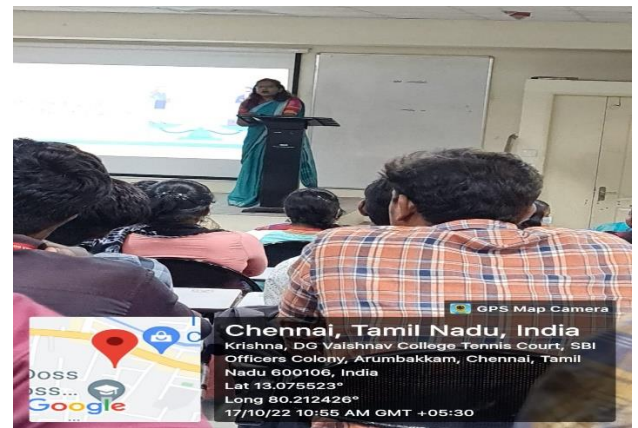
communication gaps. She has grouped students and conducted mock interviews and group discussions.



### *Guest lecture on Gender Equality and POSH*

Ms. Bavithra Shanmugam, People Services Expert, Equitin Systems has acted as the resource person for the guest lecture on “Gender Equality and POSH” held on 17<sup>th</sup> October 2022. She explained clearly about what is gender equality and gender equity, explained POSH act, listed what are the categories of sexual harassments and how to elevate the complaints to POSH cell. She told that POSH is for all the employees of the organization irrespective of the gender and told many real time examples she handled so far. She asked all the participants to be aware of their words and actions and think twice before they act. She advised all should be courage enough to raise

the issue to the respective authorities for justice so that it will not occur to others in future.

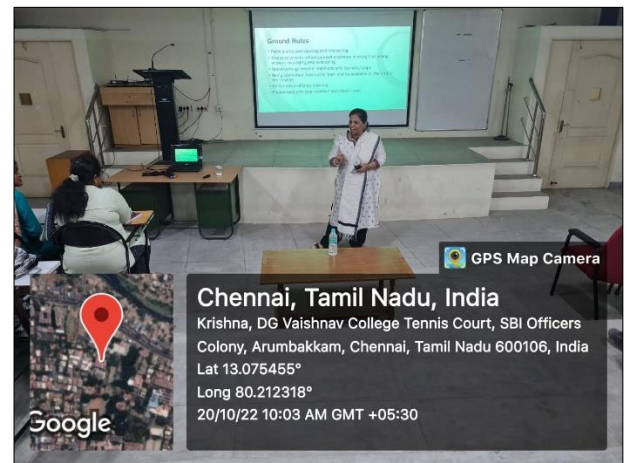


### *GIT Version Control*

The workshop on “GIT Version Control” was held on 18/10/2022 at MCA lab. The resource person was Mr.Sakthivel Kannan, Co-Founder & CEO, MANTT Chennai. The workshop was aimed at providing a hands on experience for the students on GIT commands and on tracking different versions of the code and to collaborate with other developers. The students had an overview of the concepts in GIT, created account in Github and learned to clone repository, push and pull from a repository.

## *Get Ready for Corporate*

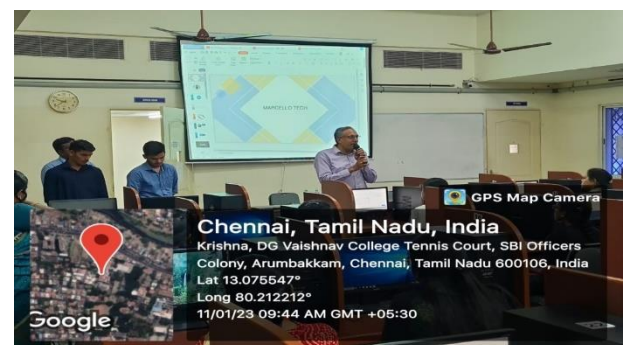
The workshop on ‘Get Ready for Corporate’ was held on 20/10/2022. The resource person was Ms.S.Vijayalakshmi, Founder of MBold Services, Senior Vice President, BD & O, SS Group of Companies. The workshop was aimed at providing hands on experience for the students on the expectations on the Corporate and the expectations of Corporate on the employees. It was an eye-opener for the students as it enabled them to prepare themselves in setting goal and striving towards achieving it. Ms.Vijayalakshmi also enlightened on resume preparation and interview preparation.



## *Workshop on Internet of Things using node MCU & THING Speak*

The department has organized workshop on 11<sup>th</sup> January 2023, invited speakers Mr. K.NANTHA KUMAR & Mr.A.ABDUL FAZIL, Project Engineers, Marcello Tech, Trichy. In this workshop, student gained valuable hands-on experience. Introduction To Iot , Iot Architecture Node-Mcu. Students gained knowledge on Current scenario/job opportunities of embedded industries., Understanding the skill set required in a new employee in embedded industry, understanding the robotics future and scope, understanding the different microcontroller available in the industry & their use.

In this Workshop, how machine to machine connectivity is rapidly growing everywhere was discussed. Also the business benefits for connected devices and assets for remote location connectivity are instantly cleared.



## *SKILL Development Workshop*

The resource person Mrs. Sundari Subramanian is a Chief Business officer of Mebot, our MoU partner, has elevated the importance of team work in a corporate. Initially she started the session with corporate etiquettes. In the second session she divided the

students into groups and involved them in activities. Students are provided with properties and as a team they should draw a theme in the chart and present it. All team show casted their team coordination and

presented their team work. The resource person was impressed by the performance of the teams.



## *Workshop On Open Source Software*

The department has organized a workshop on “OPEN SOURCE SOFTWARE” for I year MCA students on 31th January 2023, and invited speaker Mr. P.RAMAN, Chief Office Superintendent, Railway Hospital, Perambur, Chennai. Students gained valuable hands-on experience in this workshop. Students had an insight into Foss and its advantages. The students gained knowledge about GIT and how GIT is designed to handle large projects with speed and efficiency.



## *Artificial Intelligence Using Python*

The resource person Mrs. Saraswathi, Project Engineer, Marcello Tech, Trichirapalli has started the session with introduction on Artificial Intelligence. She has elaborated the AI with real time examples. Then she has elucidated the various python libraries and its purpose in computer vision. She also

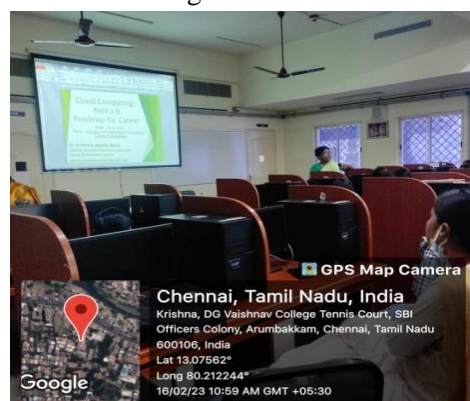
demonstrated a mini project in face recognition using python.

**Outcome of the event:** The session was very useful to the students and also she motivated students to do simple projects using python.

## *Cloud Computing Basics and Roadmap for career*

The resource person Dr. B. Monica Jenefer, Head, Department of CSE, Meenakshi Sundarajan Engineering College has started the session with introduction on Cloud Computing, drawbacks of the traditional methods and how it was overcome by cloud computing. She has elaborated the architecture, services, and deployment models of cloud with real time examples. Then she has elucidated the various Cloud Computing certificate courses. The session was very useful to the students and also she motivated students to join certificate course if they are choosing

cloud engineer as their career



## *Workshop on Aptitude Training*

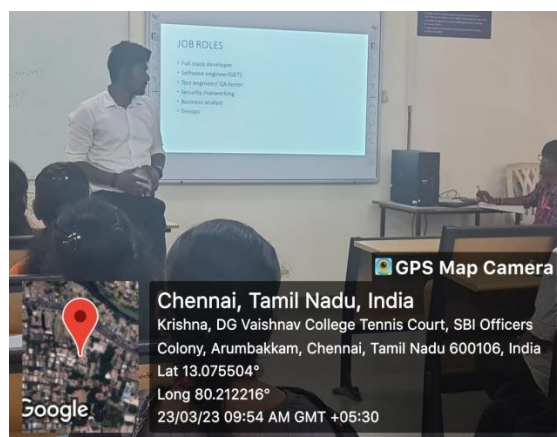
The department has organized a workshop on “APTITUDE TRAINING” on 9<sup>th</sup> and 14<sup>th</sup> February 2023, invited speakers from VEEBROS GLOBAL PUBLICATION PVT, Chennai. In this workshop, student gained valuable hands-on experience. The objective of this workshop was to prepare students for upcoming placements on Quantitative Aptitude & Reasoning.

The speakers, started the lecture by explaining the reasons why a company asks for an aptitude test.

The speaker threw light on important topics of quantitative aptitude. They taught concepts like Percentages, Speed, Time and Distance, Profit and Loss, Averages, Permutations and Combinations, Simple equations, Ratio, Proportion, Variation. Outcomes: To getting placed in various Companies. , To interact with IT professional. ,To view their idea in different ways ,To crack aptitude examinations in professional ways.

## *Guest Lecture On Employability Skills Through Social Media*

Department of Computer Applications (MCA) organized a guest lecture on “Employability Skills” on 23rd March 2023, and invited speaker Mr. Shaik Mohammed, Test Engineer, CAMS, Chennai. He elaborated how to use the social media in a productive way to grab IT jobs and upgrade the skills set of the students. It was an interactive session and the students gained knowledge about the challenges prevailing in a working environment and how to upgrade themselves to acquire a job.



## *Guest Lecture On React & React Native*

Department of Computer Applications (MCA) organized a guest lecture on “REACT AND REACT NATIVE” on 9<sup>th</sup> March 2023, and invited speaker Mrs. Srinidhi Vivek, Software Developer, Clayfin Technologies, Chennai. She is an alumna of the department. Students had an

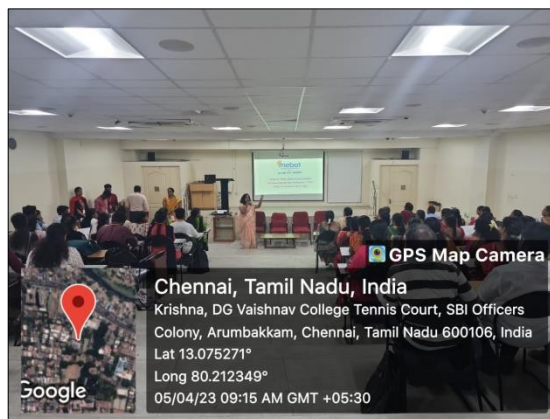
insight into React and React Native and its advantages. It was an interactive session and the students gained knowledge about the challenges prevailing in a working environment and how to upgrade themselves to acquire a job.

## *PTA meeting*

The PTA meet was held on 05.04.2023 . The parents were briefed about the performance of the

students based on their CIA marks and class performance. Parents also interacted with the

mentor of their wards to be aware of their behavior in class. The students had successfully completed Certificate course on Full Stack Front End Web development. Certificates were issued to all the students and proficiency prizes were given to selected students by Mebot Robotics and IT. The students presented their projects and the parents were excited to see their wards exceptional performance.



### *Memorandum of Understanding*

The department has signed MoU with the Marcello Tech, an IT Company to train students on trending technologies

### **BOOK PUBLICATION**

To share the knowledge, the department staff has authored books for the education society. The details of the books are listed below:

<i>S.No</i>	<i>AUTHOR</i>	<i>TITLE</i>	<i>PUBLISHER</i>	<i>ISBN</i>
1.	Dr. R. Anandhi	Web Technology-Theory and Practicals	VRI Publisher, Chennai	978-93-91332-44-0
2.	Dr. R. Anandhi	Web Design and Development	VRI Publisher, Chennai	978-93-91332-47-1

### **RESEARCH ACTIVITIES**

The department's contribution towards research was elevated to the next heights. Our staffs publish their research articles in reputed journals as a part of research contribution and to enrich their knowledge they also participate in FDP, workshops and webinars. The details are delineated below:

<i>S.NO</i>	<i>PUBLICATIONS</i>	<i>FDP</i>	<i>WORKSHOP</i>	<i>SEMINARS/ WEBINARS</i>
1	8	5	5	7



### *Our Prestigious Ph.D. Scholars*

The research scholars those who are awarded Ph.D. degree from MCA department by the University of Madras from 2022 -2023 are listed below:

<i>S.NO</i>	<i>RESEARCH SUPERVISOR</i>	<i>RESEARCH SCHOLAR</i>	<i>TITLE</i>
1.	Dr. T. Velmurugan	J Dhinakaran	A Hybrid Model For Parkinson Disease Prediction And Classification Uisng Ensemble Stacking Learning Algorithm
		R Arun Kumar	A Novel Method For The Analysis Of Ground Water Data Using Association Rule Mining Algorithms.
		K Radhakrishnan	Prediction Based Analysis Of House Sales Prices Using Machine And Deep Learning Techniques

At present, the department has 7 research scholars pursuing their research.



The department is proud about the placement of our students in various reputed companies

