

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

JUL - DEC 2020 | VOL 16





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## About the Department

### **DEPARTMENT OF COMPUTER SCIENCE**

The department balances the practical and theoretical aspects of computer science and provides the students with a background for professional employment or further study in the discipline. The department provides both comprehensive foundation and the specialized skills to seek out creative solutions in a fast-paced technological age.

#### **DEPARTMENT VISION**

To become a world class department in imparting high-quality knowledge and in providing students a unique learning and research experience in Computer Science and Engineering.

## **DEPARTMENT MISSION**

To impart knowledge in cutting edge technologies on par with industrial standards.
To collaborate with renowned academic institutions in research and development.

## **Research Highlights (Jul - Dec 2020)**



# **Message From the HoD's Desk**



#### Dear Students,

The magic in new beginnings is truly the most powerful of them all! Cheers to a New Year and another chance for us to get our lives right. On behalf of all faculties of our department, I wish you a very happy and prosperous New year 2021! I trust that everyone is taking care of yourself and your family! As you are aware, we have successfully completed our classes and examinations for the AY 20-21 (Odd semester) on time by streaming the lectures during the pandemic situation. Thanks for all your cooperation. I believe you are spending your time very well with your loving family in all dimensions. I am sure, you still have a good amount of free time to discover your interests. I would suggest everyone to do some self learning and also approach your faculties for guidance to engage yourself constructively. You can refer to resources such as Swayam (https://swayam.gov.in/AICTE) and NPTEL courses (https://nptel.ac.in/course.html). Though, I have seen a few students listed in this newsletter who have taken up such courses out of their own interest, our team will be happy to see more such involvement and self learning from all our department students. Looking forward to see you all in campus soon.

Best Wishes, Dr. S. Prasanna Devi

# **Department Highlights**

## MoU's for the AY 20-21 ODD



#### Oracle Academy ORACLE

SRMIST, Vadapalani signed for institutional membership with Oracle Academy.

#### **Benefits:**

- Provides educators access to world-class technology and software Expert curriculum, teaching and learning material and professional development.
- Provides professional certification resources, member recognition, and a wealth of classroom resources for the students.
- Free Training Programmes for Faculty and Students members, 25% discounts on Oracle Certification Exam vouchers, 50% discount on Oracle University training for educators and staff only.

## Intel Centre of Excellence (inte

SRMIST, Vadapalani signed MoU with Intel.

#### **Benefits:**

- It will support the institute with hardware and software which will support students in building applications and models.
- With the AI research center, the students and faculty will be trained on Data Analytics, Machine Learning, Deep learning, Artificial Intelligence and case studies.
- With the HPC research centre the students will be able to understand the High performance, Parallelization, interconnect concepts etc... and will be eligible for Internship and placement support.
- The students and faculty will be given Intel certificates on successful completion of the program.

## DeepSphere.Al



DeepSphere.AI is a cloud-ready, on-demand subscription platform for every enterprise to quickly adapt and advance AI through a progressive AI computing lab, advanced AI education, prebuilt industrial AI.

#### **Benefits:**

- Conducting Placement drive/ campus interviews at our institute. Opportunity of Internships to the students.
- Giving the exposure of corporate culture to the Institute students through Industrial Visits.
- Sharing of new technologies/advancements through technical talks for upgraded teaching and curriculum development.

## **Unlimited Innovations Pvt Ltd.**



The MoU was signed by Dr. K. Duraivelu, Dean (E&T), SRMIST, Vadapalani Campus and Ms. Anusha Shri, Deputy Manager, Human Resource, Unlimited Innovations (P) Ltd., Chennai.

#### **Benefits:**

- Conducting Placement drive/ campus interviews at our institute.Opportunity of Internships to the students.
- Giving the exposure of corporate culture to the Institute students through Industrial Visits.
- Sharing of new technologies/advancements through technical talks for upgraded teaching and curriculum development.

# Consultancy

### **Time Sheet Management System**



A web based application to monitor the man hours of the employees on the various projects, proposals and contract activities of KC Cottrell Engineering Services. It generates the invoice reports for billing and displays graphical analysis of data. CSE department received an amount of Rs. 50,000 through this consultancy project and cash award was given to the developers.

## **Digital Reachout**



On 19-10-2020, the CSE department team who were the Digital Reachout team of Greater Chennai Police, T.Nagar had a meeting with Mr. Hari Kiran Prasad, IPS, DCP T.Nagar in his Office. The meeting was attended by Dr. S. Prasanna Devi - HOD(CSE), Mrs. Steffina Muthukumar, AP-CSE, Mr. Ajay Kumar, AP-CSE, Mr. Jerry Joy(Passed Out-CSE), Mr. Tharun Kumar D, Ms. Subishashri and Ms. Tejammai from II year B.Tech CSBS. The meeting commenced with warm greetings and refreshments. A productive discussion on enhancing public welfare using digital media was made. Later, the DCP felicitated the team for their works in terms of digital outreach and app development as a token of appreciation. He also thanked the Dean and Management of SRMIST, Vadapalani for their support.

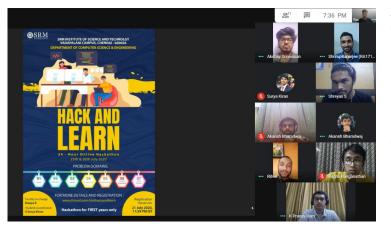
# EVENTS AY 20-21 ODD

## **Decode your Career**



The Department of Computer Science & Engineering, SRMIST Vadapalani Campus conducted a webinar on "Decode your Career" on 11-07-2020. The Speaker for the webinar, Ms. Rajalakshmi Srinivasan, Director - Site 24x7, Zoho Corporation. This webinar provided a platform for the participants to know how to decode their career in industry. Overall it gave an enriching experience for the students on how to shape themselves to be industry ready despite the covid challenges of the industry. Around 150+ participants benefited out of this interactive webinar.

## **Hack and Learn**



A 24 hour virtual hackathon "Hack and Learn", was conducted on 25-07-2020 and 26-07-2020, exclusively for the Second Years' from the CSE Department of SRMIST Vadapalani Campus. The event mainly aimed at enlightening the participants about the hackathons conducted across India and teaching them tips and tricks to win those hackathons. This event was mentored by final year students of CSE Department namely S Surya Kiran, S Akshay and Shrirup Banerjee and the faculty coordinator for this event was Mrs. Deepa R.

## **Department Orientation for Freshers**



Α virtual department orientation program was held for the freshers on 18-09-2020. The intention of the program familiarize the to upcoming was computer science engineers about their exposures, learnings and experience in the department. The department orientation was done by the HOD, Dr. S. Prasanna Devi.

### **Power Seminar on Digital Learning**



Department of Computer Science & Engineering, SRMIST Vadapalani campus in association with ICT Academy has organized a power seminar on 'Digital Learning' for the first-year students on 24-09-2020. The session was handled by Mr. Daniel Jacob, ICT Academy Power seminar speaker who is also VP-HR at EC Group International. The seminar received overwhelming support from the first year students. The session was coordinated by Ms. Indumathy and Ms. Rama of CSE Department.

## **Building Chatbot using IBM Watson Assistant**



Department of Computer Science & Engineering, SRMIST Vadapalani campus held a workshop on "Building a chatbot using IBM Watson Assistant" in online mode using Zoom Meeting tool on 30-09-2020. The technology discussed in the workshop was IBM Watson Assistant. Dr. N. Bharathi, Asso. Prof CSE Department was the resource person and the coordinator for the event.



## **Fresher's Day**

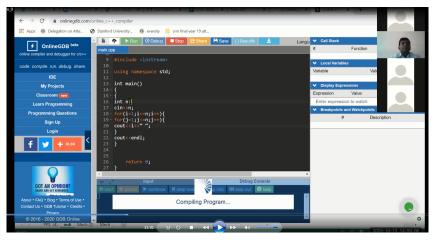
Fresher's Day was conducted on 03-10-2020 for the CSE batch of 2020-2024. The event was organized by the students from the batch of 2019-2023. The event witnessed enchanting musical performance by Sathyanarayanan (II year CSBS) and Yaswanthi (II year AIML). Juniors were entertained by a special game of Connexions, where everyone were fighting for a coveted prize. The second year students then shared their experiences with their juniors about their college life and answered questions asked by them. Tharun Kumar D - Class Representative of II-CSBS coordinated the event along with the CRs of various sections.

## **IOT Workshop**

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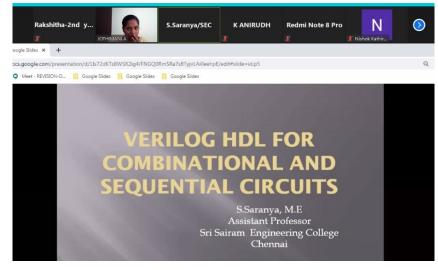
Workshop on "IOT" was conducted on a virtual platform from 06-10-2020 to 09-10-2020. The workshop was structured in such a way to help the participants have an insight on the IoT domain through demonstrations of real-time applications and hands-on practice sessions. The resource person Mr. Pandiarajan, is a technical specialist with Energy COE, Infosys, Bangalore. The workshop was coordinated by Dr. C.A.S. Deiva Preetha and Dr. N. Bharathi from CSE department.

### **Paradigm Support In Python**



The workshop titled "Paradigm Support In Python", was conducted from 10-10-2020 to 14-10-2020 by the CSE department. The resource persons were Dr. V. Rajasekar, Dr. Fathimal and Mr. N. Muthurasu of CSE Department, SRMIST Vadapalani campus. The topics covered in various days were - Introduction to Programming Paradigm and Introduction to Python Programming, Structure Oriented Programming Paradigm and Procedure Oriented Programming Paradigm, Function Oriented Programming Paradigm, Structure Oriented Programming Paradigm, Support Programming Paradigm, Sturted Programming, Symbolic Programming Paradigm and GUI Programming Paradigm. 32 turned up for workshop out of which 15 were external participants. Participants showed their positive response and wet their hands in doing programs.

#### HDL Workshop



Workshop on Hardware Description Language was conducted on 14-10-2020 for Second Year CSE students. The resource persons were Dr. Lakshmi Joshitha and Ms.S. Saranya from Sri Sairam Engineering College, Chennai. The Workshop was coordinated by Mrs.A.Jothimani, Asst.Prof - Dept. ECE who was the faculty in charge of 'Analog and Digital Electronics' and it was conducted to enrich the learning and understanding on the subject.

## **Information Security and Service Management**

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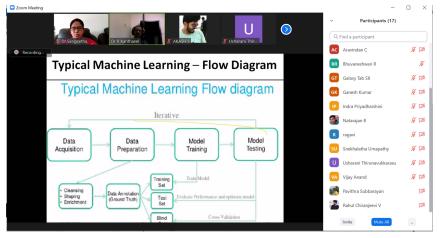
Workshop on 'Information Security and Service Management' was conducted by the Department of Computer Science & Engineering, SRMIST Vadapalani campus on 16-10-2020 and 17-10-2020. Industrial experts, Mr. Anand Meyyappan and Mrs. Sivaranjani, from Infosys Pvt Ltd, Mr. Sathish Kishore, a security researcher from Photon Infotech and Mrs. Saraladevi, from Tata Consultancy Services, from leading companies with practical experiences were invited to share their knowledge. Nearly 70+ participants attended the sessions which were coordinated by Dr. M. Durgadevi and Dr. S.K.B Sangeetha from the department of CSE.

## Analytics and Data Management - Insights on Data Science



Skill building workshop on 'Analytics and Data Management-Insights on Data Science' was conducted by the CSE department on 20-10-2020 and 21-10-2020 with the objective of exposing the audience with the current trends and state of art development in the field of Data Analytics. The session was handled by Mr. T. John Pandian, Technical Analyst, Zoho Corporation, Mrs. K. Sankara Nayaki, Assistant Professor, Veltech, Rangarajan Dr.Sakunthala R&D Institute of Science and Technology, Ms. Indhu Roopini, Senior Business Analyst, Latentview Analytics Pvt Ltd and Ms. Monica Subramani, Data Science Research Scientist, Northeastern University, Boston. Dr. Ρ. Durgadevi, Assistant Professor(Sr.G), Department of CSE was the coordinator for the workshop which witnessed diverse speakers from academia as well as industry and was attended by 66 participants.

## International Seminar on State of the Art in Computational Intelligence: An Introduction to Deep Learning Developers



An International Seminar on State of the Art in Computational Intelligence: An Introduction to Deep Learning Developers was organized by the CSE department on 23-10-2020 and 24-10-2020 with the agenda to update the participants with the current practical aspects of Deep Learning. On day one, Dr. R. Kanthavel, Professor from King Khalid University and on day two, Dr. R. Dhaya, Associate professor from King Khalid University shared his knowledge on deep learning. The programme ended with a vote of thanks by the faculty coordinator - Dr. S.K.B. Sangeetha.

### Workshop on Software Testing



A workshop on Software Testing was executed for four days from 27-10-2020 to 30-10-2020 and was delivered as a virtual meeting. There were 91 participants who attended the complete program from different institutions across India. First three days were handled by Dr. C. A. S. Deiva Preetha Assistant Professor, CSE Department. The fourth day of the program was handled by Mr. Gopi Gavaskar Pandiyan, Deputy General Manager, HCL Technologies, Chennai and is currently leading the quality engineering team of semiconductor division to deliver the testing, automation and DevOps solutions. Overall, the program was well received and all participants shared positive feedback.

## Workshop on Blockchain Technology- Insights & its Applications



National Level Workshop on Blockchain Technology-Insights & its Applications was executed as a 2 day event on 30-11-2020 and 01-12-2020 by the Computer Science & Engineering department, SRMIST, Vadapalani. On day one, the forenoon session was handled by Mr. Saro Velrajan, Chief Strategy Officer, Ginkos India and the afternoon session was handled by Mr. Balakumar Mahadevan, Senior Technical Lead, HCL, Chennai. On the second day, Mr. Michael Dinesh, System Engineering Consultant, Verizon India enlightened the audience with the latest cutting-edge technologies and its applications of block chain technologies. The event which had 240 participants was coordinated by Dr. A.R. Kavitha and Dr. M. Geetha of CSE department.

## Five Days STTP on Big Data, Machine Learning and Deep Learning : The Paradigm shift



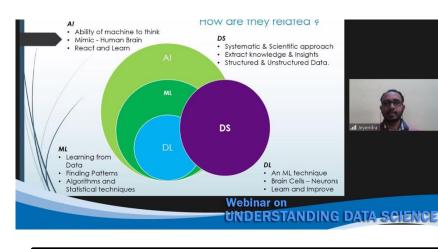
The Department of Computer Science & Engineering conducted a STTP on "Big Data, Machine Learning and Deep Learning: The Paradigm Shift" from 14-12-2020 to 18-12-2020 in online mode. The resource persons of the STTP were from industries like Walmart, Tiger Analytics and Capgemini as well as from reputed academic institutions within the country and abroad. The speakers were Dr. Kanchana - Associate Professor, SSN College of Engineering, Dr. Pooja Jain - Assistant Professor, IIIT Nagpur, Dr. Vallabha Deevi - Lead Data Scientist, Tiger Analytics, Ms. Deepali Nayak - Lecturer, Thai-Nichi Institute of Technology, Thailand, Dr. Susan Elias - Deputy Director, Research Division of Advanced Data Science, VIT, Chennai, Mr. Sasikumar Venkatesh - Senior Software Engineer, Walmart, Bengaluru, Dr. Sanjay Pawar - Principal, UMIT, Mumbai, Dr. Sapthagirivasan Manager, RnD(Medical Devices), Capgemini and Dr.Latha Parthiban - Head I/C, Pondicherry University. Dr. Meenakshi S.Arya and Dr. Golda Dilip from the department of CSE, SRMIST, Vadapalani coordinated for the STTP which was attended by

around 150 participants from India and abroad. On concluding an online test was conducted and successful participants were

given certificates.

# **Alumni Webinars**

## **Understanding Data Science**



The Department of Computer Science & Engineering, SRMIST Vadapalani Campus conducted a "Webinar on understanding Data Science" on 14-07-2020. The speaker for the webinar was Mr. S. Jeyendra, Trainee, Bank of America, Chennai. This webinar provided a platform for the school and diploma students who participated to know what is Data Science and its future. Overall it gave an enriching experience for the students on how to shape themselves in the data science industry ready. Around 20+ participants benefited out of this interactive webinar. The webinar was coordinated by Mr. Sridhar .S - AP/CSE.

## **Base of Data Mining**

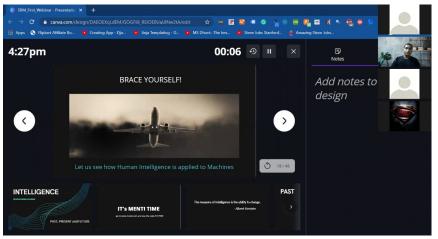
## Agenda

- Who am I
- Introduction
- Origin of data mining
- Types of data
- Implementation process
- Data Mining Techniques
- Top Algorithms
- WEKA Tool
- Top Features
- Installation
- WEKA Tool Lets get Started



Mr. Pinnamaraju Venkata Sai Aditya, an alumnus of 2014 - 2018 batch of VDP campus who completed Master of Science in Information Technology at JNTU, Hyderabad delivered a webinar on 'Base of Data Mining' on 10-10-2020. Around 25 students listened to their senior speak with a lot of enthusiasm. The event was coordinated bv Dr.V.Rajasekar, Mrs. R. Logeshwari from CSE Department, SRMIST Vadapalani campus.

## Intelligence Past, Present and Future



Alumni talk on "Intelligence Past, Present and Future" was delivered as a webinar on 23-11-2020 by Mr. Srinivas Muralidharan - an alumnus of our SRMIST, Vadapalani from the Batch 2014-2018. He is currently doing his masters in Artificial Intelligence at VRIJE University, Netherland. He is an expert in coding languages like Python, R, also in frameworks, database tools, robotic concepts and cloud systems. The objective of the program was to provide a basic foundation on the "AI Evolution". To conclude with, the advantages and disadvantages of AI was brought into light and the event was attended by 25 enthusiastic students.

# **Social Outreach Events**

## **Juvenile Designer Contest**



The Juvenile Designer contest was conducted by the Design and Innovation Club of Computer Science and Department, Engineering SRMIST Vadapalani campus exclusively for school students from 9th to 12th grade. The Contest was announced on 08-07-2020 and the results were announced on 08-08-2020 with a valedictory ceremony, attended by the participants, faculty coordinators(Mrs. Indumathy. Mrs. Deepa, Mrs. Punitha) and Student event coordinators(Nanda Kumar, Divyadarshni Suresh and Sriram).

## **Skill Building Workshop**



A 3-day "Skill building workshop" on GSuite and Java was conducted exclusively for IX to XII school students from 07-10-2020 to 09-10-2020. There were totally 50 participants from various schools: DPS Modern Indian School (Qatar), Maharishi vidya mandir (Chetpet), KRM Public School (Perambur), Velammal Vidhyashram (Surapet), Vaels International School (Injambakkam), Velammal Vidyalaya

Annexure (Ayanambakkam), Vivekananda vidyalaya (Sriperumbudur), S.S.K.V. Matriculation (Kanchipuram), Everwin Vidhyashram (Kolathur), Dr.V.G.N. Matriculation (Arakkonam), Mazharul Uloom (Ambur). The event was coordinated by Dr. P. Prabhavathy and Mrs. M. Indumathy from the Department of CSE.

# **Student Achievements**

## HackRx - 24 Hours Virtual Hackathon



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in /in/visualsbyshiva

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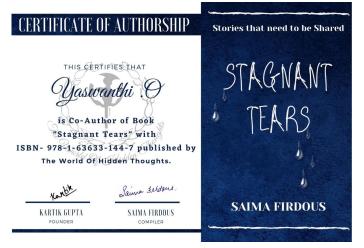
Mr. Shivaprasad P.V, Mr. Siddath Raghavan and Mr. Akshith Varma Chittiveli, Trio from third year CSE of Vadapalani campus have secured the second runner up at the HackRx - 24 Hours Virtual Hackathon organized by HealthRx on 12-06-2020 & 13-06-2020. They have won Rs.10,000 in cash prize as well as an internship at HealthRx by Bajaj Finserv. Heartiest Congratulations to the runner up team for their splendid victory.

#### HAB59-Hackathon Atmanirbhar Bharat 59



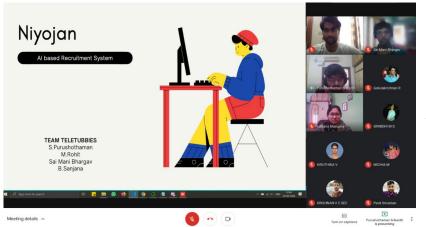
To support India's vision of Atmanirbhar Bharat, MIT ADT, Pune along with Tech organized HAB59-Hackathon Mahindra Atmanirbhar Bharat 59 on 01-08-2020. Mr. Vidhant Matta Btech-2020 passout and Mr. Shahil Islam of IV CSE B won the first prize in the category 'Health' with solution to combat Covid-19 pandemic. They built a smart contactless doctor consultation and monitoring platform where all the vital parameters like Heart Rate, Respiratory Rate, Oxygen saturation levels can be calculated without any physical contact and hardware. Both won a prize of Rs. 1 Lakh and their idea will be incubated by Tech Mahindra-Makers Lab. Mr. G. Viswanathan, Chancellor, VIT congratulated the winning team.

## Stagnant Tears - An Anthology



Ms. Yaswanthi. O is a second year student of CSE - AI ML. She has successfully become the co-author of a published book of poems - an anthology - "Stagnant Tears" on 22-09-2020. She is also awaiting the publishing of two more anthologies for which again, she is a coauthor. She writes poems that convey a deep message and that communicate to each and every reader. Most of her poems are based on emotion, real life

events and are aimed at achieving a social cause. She believes that each of her words can make a difference and can help her achieve that utopian world that she and many others dream of.



## **ARIMA - 24 Hours Virtual Hackathon**

Team Teletubbies comprising of Mr. Purushothaman, Mr. Rohit M. Mr. Sai Mani Bhargav and Ms. Sanjana B from IV CSE A section bagged the second prize in ARIMA, Hours 24 Virtual Hackathon conducted as a part of Xtrofest 2.0, National Level Tech Fest at Sri Sairam Engineering College, Tambaram, Chennai on 28-09-2020 & 29-09-2020. Their

solution Niyojan - An AI based Recruitment Engine could be used in recruiting employees. The AI engine would categorise resumes and rank them accordingly so that the recruiter can easily pick the right candidate from a lot of resumes. A website (portal) was built for this using ReactJS, NLP and ML was used to build the engine. CSE department of SRMIST VDP campus congratulates the team for their enthusiasm, creativity and efforts & making the department proud.

## The Best Girls Team, HACKSRM 3.0



Ms. Yaswanthi .O and Ms. Anju Vilashni. N, students of second year, CSE AI & ML have made it into the top 10 teams in the 48 hour virtual hackathon - HACKSRM 3.0 out of nearly 200 teams and have secured the category award of "The Best Girls Team" conducted by SRM Amaravathi from 20-11-2020 to 22-11-2020.

## BSc in Programming and Data Science, IIT Madras



Mr. Tharun Kumar D and Mr. Akash V from second year, got selected for admission into the very first batch of IIT Madras B.Sc in Programming Science and Data course slated to begin from January 2021. Congratulations for successfully clearing the rigorous qualifier process and the qualifier exam conducted on 22-11-2020.



## **UI Design Challenge Competition, AKCSSC**



Mr. Shivaprasad of CSE-B final year has made the department proud by winning the first prize in the UI Design Challenge Competition conducted as part of All Kerala Computer Society Student Convention 2020 (AKCSSC) which was organized by IEEE Computer Society Kerala Chapter. The competition took place from 22-11-2020 to 25-11-2020.

## Best All Girls Team, HACK WIE



Ms. Yaswanthi .O, Ms. Anju Vilashni .N and Ms. Sai Shreya Kumar, students of second year, CSE AI & ML made it into the top 10 teams and have achieved "The Best All Girls team" category award at the 48 hours virtual hackathon – HACKWIE conducted by "IEEE Women in Engineering (WIE)", MSIT, New Delhi on 28-11-2020 and 29-11-2020. Placement Statistics

## Batch[2017-21] As On 31/12/2020

Amidst the pandemic, placement continues in full glory.....



Number of students registered: 126

Number of students placed : 83

## SRMIST - VDP Campus, DCSE, JULY - DEC 2020, DEPT NEWSLETTER - VOLUME 16 Academic Excellence

Semester	Class & Section	Register Number	Name	SGPA	Rank
2	I CSE A	RA1911003040020 RA1911003040056	Sharan Varghese S. Nithyaari	10	1
2	I CSE A	RA1911003040033 RA1911003040046 RA1911003040050 RA1911003040067 RA1911003040118	Vishal Bhashyaam Srimathi S R. Pooja Aviral Patel Ravichandran Apoorva	9.95	2
2	I CSE B	RA1911003040007 RA1911003040131	Achyut M S Swetha P	10	1
2	I CSE B	R.A1911003040010 R.A1911003040031 R.A1911003040073 R.A1911003040090 R.A1911003040133 R.A1911003040153 R.A1911003040163	Sruthi Sreekumar Pritam Das Chetana A Chandavarkar Ravi Taja Kolachina Arasha Durgi A Arivunidhi Jyotsna Bharti	9.95	2
2	1 CSE C	RA1911003040081 RA1911003040095 RA1911003040097	Cheedella Hamsini R. Lohetha Vishal Kumar Jain	10	1
2	I CSE C	RA1911003040008 RA1911003040062 RA1911003040069	Shree Rakshitha .S Yash Rai S. Mathurabargavee	9.95	2

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Semester	Class & Section	Register Number	Name	SGPA	Rank
2	I AI & ML	E.A.1911026040006 E.A.1911026040019 E.A.1911026040021 E.A.1911026040035 E.A.1911026040035	Vivek Nichani Anoh Jacob Biju Ritvik Sharma Aadhithva S Otra Yaswanthi	10	1
2	I AI & ML	R.A1911026040004 R.A1911026040007 R.A1911026040053 R.A1911026040054 R.A1911026040057	Harih Ambauta Akul Jain H Dharihini Varsha Giridharan Akash V	9.95	2
2	ICSBS	RA1911042040009 RA1911042040016 RA1911042040024 RA1911042040025 RA1911042040034 RA1911042040034	Sreenivasan R R Akankisha Mishra Tharun Kumar D Sathyanarayanan R Karthik Samasthi R	10	1
2	I CSBS	RA1911042040005 RA1911042040036 RA1911042040031 RA1911042040051 RA1911042040051 RA1911042040052 RA1911042040053	Akubay Jayakumar Dharahini K Tuhina Shaw Adil Siddiquee Krithick Pooja Giri V Karan S	9.9	2

Semester	Class & Section	Register Number	Name	SGPA	Rani
4	II CSE A	RA1\$11003040019 RA1\$1100304002\$ RA1\$1100304005\$	8 Sanjay Kumar Srinjay Venkatesan Himanshu Kumar Maurya	10	1
4	II CSE A	RA1\$11003040060 RA1\$11003040066 RA1\$11003040094 RA1\$11003040146 RA1\$11003040148	Athul V Srinidhi S Santpur Nitish Unmesh Jairam S J A Bala Yogeah Ram P	9.96	2
4	II CSE B	RA1811003040021 RA1811003040061 RA1811003040077 RA1811003040052	Ayushi Sharma Amruthaa V Megha Sinha Nikita Das	10	1
4	II CSE B	RA1811003040024 RA1811003040042	Sarthak Sangra Rajneesh Yadav	9.96	2
4	II CSE C	RA1811003040216	Divyadarshini S	10	1
4	II CSE C	RA1811003040227	Harsh Singh	9.962	2
4	II CSE D	R.A1\$11003040062 R.A1\$11003040098 R.A1\$11003040122 R.A1\$11003040122	G Balaji Vishnu Raj J M Nitharshni R Harsita Pranay Agarwal	10	1
4	II CSE D	RA1811003040039 RA1811003040097 RA1811003040177	Saraf Sakshi Dilip S Srinivasa Ramanujan V V Deepak Kumar	9.962	2
4	II CSE E	R.A1811003040003 R.A1811003040032 R.A1811003040086 R.A1811003040184	Sakshi Dubey Karthik Prakash Garimella Mohan Rao Nandila Bhattacharjee	10	1
4	II CSE E	RA1811003040022 RA1811003040087	Shriya Siddhartha Arya Prem Pandey	9.96	2

## **II-YEAR**

**IV-YEAR** 

Semester	Class & Section	Register Number	Name	SGPA	Rank
6	III CSE A	RA1711003040059	Amrutha K	9.958	1
6	III CSE A	RA1711003040018	Arundhati Raj	9.917	2
6	III CSE B	RA1711003040094	C Abhishek	9.958	1
6	III CSE B	RA1711003040014 RA1711003040035	S Surya Kiran Shrirup Banerjee	9.875	2
6	III CSE C	RA1711003040001 RA1711003040061 RA1711003040080	Ramya Ramakrishnan Shashidhar Ganesh G Akshay .S	9.8	1
6	III CSE C	RA1711003040038 RA1711003040153	Manikantan Arcot Swetha .A	9.79	2

Semester	Class & Section	Register Number	Name
8	IV CSE A	RA1611003040133	Kavya M Adiga
\$	IV CSE A	RA1611003040034 RA1611003040015	N Sukavanan Tanay Agarwal
S	IV CSE B	RA1611003040014	K.U. Vijay
8	IV CSE B	RA1611003040293	Mihir Kandhelwal

RA1611003040130

RA1611003040213

RA1611003040167

RA1611003040129

RA1611003040212

RA1611003040119

**III-YEAR** 

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Hari R

Apama Kannan

S. Sainath

V.V. Nithyashri

Sushma Sharma

Vidhi Agarwal

Rank

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1

2

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2

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1

Name	Year	Section	Title of the certificate course	Offered by
Varun V	II	C	Python Bootcamp	AICL
Sumit Kulhari	II	C	Let's Upgrade Cyber security Essentials	Let's Upgrade
Lakshmi Ashrita Akella	II	CSBS	Digital marketing	Internshala
K.Anirudh	П	AI & ML	Introduction to Cybersecurity	Cisco Netacademy
Akash V	Ш	AI & ML	Introduction to Android graphics	Coursera
Akash V	П	AI & ML	Agile Analytics	Coursera
Akash V	Ш	AI & ML	Agile Meets Design Thinking	Coursera
Akash V	II	AI & ML	Hypothesis-Driven Development	Coursera
Akash V	П	AI & ML	Managing an Agile Team	Coursera
Akash V	II	AI & ML	Fundamentals of Network Communication	Coursera
Akash V	п	AI & ML	Packet Switching Networks and Algorithms	Coursera
Akash V	п	AI & ML	Peer-to-Peer Protocols and Local Area Networks	Coursera
Akash V	II	AI & ML	TCP/IP and Advanced Topics	Coursera
Akash V	П	AI & ML	Exploratory Data Analysis	Coursera
Akash V	Ш	AI & ML	Developing Data Products	Coursera
Akash V	11	AI & ML	Getting and Cleaning Data	Coursera
Akash V	п	AI & ML	Practical Machine Learning	Coursera
Akash V	Ш	AI & ML	Regression Models	Coursera
Akash V	Ш	AI & ML	Reproducible Research	Coursera
Akash V	п	AI & ML	Statistical Inference	Coursera
Akash V	11	AI & ML	The Data Scientist's Toolbox	Coursera
Akash V	ш	AI & ML	Introduction to G Suite	Coursera
Akash V	11	AI & ML	G Suite Mail Management	Coursera
Akash V	11	AI & ML	G Suite Security	Coursera
Akash V	11	AI & ML	Managing G Suite	Coursera
Akash V	п	AI & ML	Planning for your G Suite Deployment	Coursera
Akash V	П	AI & ML	Textual Elements of Design: Fonts, Typography, and Spacing	Coursera
Akash V	п	AI & ML	Print and Digital Elements of Design: Branding and User Experience	Coursera
Akash V	п	AI & ML	Graphic Elements of Design: Color Theory and Image Formats	Coursera
Akash V	п	AI & ML	Basic Elements of Design: Design Principles and Software Overview	Coursera
Akash V	п	AI & ML	Java Programming: Solving Problems with Software	Coursera
Akash V	Ш	AI & ML	Java Programming: Arrays, List	Coursera

## **Online Course Completion-Students**

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Name	Year	Section	Title of the certificate course	Offered by
Akash V	п	AI & ML	Java Programming: Principles of Software Design	Coursera
Akash V	п	AI & ML	Programming Foundations with JavaScript, HTML and CSS	Coursera
Akash V	п	AI & ML	Data Wrangling, Analysis and AB Testing with SQL	Coursera
Akash V	П	AI & ML	SQL for Data Science Capstone Project	Coursera
Akash V	II	AI & ML	How Google does Machine Learning	Coursera
Akash V	П	AI & ML	Launching into Machine Learning	Coursera
Akash V	II	AI & ML	Introduction to TensorFlow	Coursera
Akash V	П	AI & ML	Feature Engineering	Coursera
Akash V	II	AI & ML	Art and Science of Machine Learning	Coursera
Akash V	п	AI & ML	Mathematics for Machine Learning: Linear Algebra	Coursera
Akash V	Ш	AI & ML	Mathematics for Machine Learning: Multivariate Calculus	Coursera
Akash V	II	AI & ML	Mathematics for Machine Learning: PCA	Coursera
Akash V	11	AI & ML	Python Data Representations	Coursera
Akash V	11	AI & ML	Python Programming Essentials	Coursera
Akash V	п	AI & ML	Programming for Everybody (Getting Started with Python)	Coursera
Akash V	II	AI & ML	Python Data Structures	Coursera
Akash V	II	AI & ML	Using Python to Access Web Data	Coursera
Akash V	II	AI & ML	Using Databases with Python	Coursera
Akash V	II	AI & ML	exploratory Data Analysis	Coursera
Akash V	II	AI & ML	Introduction to Search Engine Optimization	Coursera
Akash V	II	AI & ML	Search Engine Optimization Fundamentals	Coursera
Akash V	II	AI & ML	Optimizing a Website for Search	Coursera
AkashV	п	AI & ML	Advanced Content and Social Tactics to Optimize SEO	Coursera
Akash V	II	AI & ML	Website Optimization Client Report Project	Coursera
Akash V	II	AI & ML	Visual Perception for Self-Driving Cars	Coursera
Akash V	II	AI & ML	Motion Planning for Self-Driving Cars	Coursera
Akash V	п	AI & ML	State Estimation and Localization for Self- Driving Cars	Coursera
Akash V	Ш	AI & ML	Visual Elements of User Interface Design	Coursera
Akash V	п	AI & ML	Web Design: Strategy and Information Architecture	Coursera

## Online Course Completion-Students



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Name	Year	Section	Title of the certificate course	Offered by
Akash V	П	AI & ML	UX Design Fundamentals	Coursera
Akash V	II	AI & ML	Programming in R	NIIT
Akash V	П	AI & ML	Blockchain Platforms	Coursera
Akash V	П	AI & ML	Machine Learning: Classification	Coursera
Akash V	П	AI & ML	Machine Learning: Clustering & Retrieval	Coursera
Akash V	п	AI & ML	Machine Learning Foundations: A Case Study Approach	Coursera
Akash V	II	AI & ML	Machine Learning: Regression	Coursera
Akash V	II	AI & ML	Data Analysis and Visulization and Power BI	NIIT
Siddabathuni Guna Sekhar	ш	А	Python For machinelearning	Great Learning Academy
S Shruthi	ш	Α	Programming for everybody (getting started with python)	Coursera
Akanksha Chakraborty	ш	А	Programming for Everybody(Getting started with Python)	Coursera
Divya B	III	A	Finance for Non Finance Professionals	Coursera
Binoy John	III	В	The Data Scientist's Toolbox	Coursera
Arjun T	III	В	The bits and bytes of computer networking	Coursera - Google
Arjun T	ш	В	AWS cloud practitioner essentials	AWS training and certification
Arjun T	ш	В	Software Engineering Virtual Experience	JP Morgan Chase & Co Forage
Arjun T	III	В	AWS Fundamentals: Going Cloud-Native	Coursera - AWS
Arjun T	ш	В	Introduction to Cloud	Cognitive class - IBM Developer Skills Network
M.Sujithra	III	C	Python 101 for Data science	IBM
Jaffer Ali S	Ш	D	Master HTML:5 from very beginner to Pro	Udemy
Jaffer Ali S	ш	D	Complete SQL Bootcamp with MySQL, PHP & Python	Udemy
Shoaib Akthar	IV	Α	Google Cloud Platform Fundamentals Core Certificate	Coursera
Shoaib Akthar	IV	A	Networking in Google Cloud Defining and Implementing Networks	Coursera
Shoaib Akthar	IV	A	HTML, CSS and JAVASCRIPT	Coursera
Shoaib Akthar	IV	Α	HTML 5	Coursera
A.Rupasree	IV	В	Introduction to Data Science Specialization	Coursera
Amirdhavarshini, N	IV	В	TCS iON	TCS
Sivarathri Susrutha	IV	В	HTML, CSS, and JavaScript for Web Developers	Coursera
Kevin D	IV	C	AWS Fundamentals: Going Cloud-Native	Coursera
S.Harinandene	IV	с	Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization	Coursera
S.Harinandene	IV	С	Fundamentals of Graphic Design	Coursera

#### Online Course Completion-Students

#### SPECIAL MENTION

CSE Department proudly acknowledges that Mr. Akash V of II - AI&ML has successfully completed 65 online courses from Coursera and NIIT during this pandemic period.

## **Online Course Completion-Faculty**

SRMIST - VDP Campus, DCSE, JULY - DEC 2020, DEPT

NEWSLETTER

VOLUME 16

Faculty ID	Name	Title of the certificate course	Offered by
900333	Dr. S. Prasanna Devi	Digital Teaching Techniques	ICT Academy
900349	Dr. Meenakshi S Arya	Fundamentals of Deep Learning for Computer Vision	NVIDIA
900352	Dr. Bharathi N	CB0106EN: AI Applications with Watson	edX
900352	Dr. Bharathi N	Introduction to Cybersecurity Tools & Cyber Attacks	Coursera
900352	Dr. Bharathi N	Cybersecurity Roles, Processes & Operating System Security	Coursera
900352	Dr. Bharathi N	Digital Teaching Techniques	ICT Academy
900353	Dr. Golda Dilip	Digital Teaching Techniques	ICT Academy
900353	Dr. Golda Dilip	What is "the mind" and what is artificial intelligence ?	Coursera
900304	Dr. P. Mohamed Fathimal	Convolutional Neural Networks in TensorFlow	Coursera
900304	Dr. P. Mohamed Fathimal	Al for Medical Prognosis	Coursera
900304	Dr. P. Mohamed Fathimal	Deep Learning in computer Vision	Coursera
800002	Mr. S. Sridhar	Introduction to Big Dat	Coursera
900251	Mrs. Karthikayani .K	Machine Learning handson python and R in data science	Udemy
900365	Dr. S.K.B. Sangeetha	Digital Teaching Techniques	ICT Academy
900271	Mrs. R. Logeshwari	Mathematics for Machine Learning - Multivariate Calculus	Coursera
900271	Mrs. R. Logeshwari	Mathematics for Machine Learning - Linear Algebra	Coursera
900271	Mrs. R. Logeshwari	Power BI for Data Science	Udemy
900314	Mr. B.S. Vidhyasagar	Build a Full Website using WordPress	Coursera
900334	Mr. H. Anwar Basha	Introduction to Cloud Computing	Coursera
900334	Mr. H. Anwar Basha	Introduction to Cyber Attacks	Coursera
900334	Mr. H. Anwar Basha	Cyber Security in Manufacturing	Coursera
900334	Mr. H. Anwar Basha	Getting Started with Azure	Coursera
900210	Mr. Rajavel M	Software Testing	NPTEL



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## Articles - First Year Students

#### TECHNOLOGY IS EVOLVING FASTER THAN EVER.... "Technology is not an event, it's just part of the everyday learning!"

Today, many of our inventions are focused on creating faster ways of communication with each other, and in the process, we are creating more data than humans can comprehend. Now a new tool Artificial Intelligence (AI) is emerging at the nexus of all this. The technology evolves so fast, the pace of technological progress especially Information Technology (IT) speeds up exponentially over time because there is a common force driving it forward. Being exponential, as it turns out is all about evolution.

The positive effects of Technology on classrooms and students are:

- 1. Change in Student and Teacher roles.
- 2. Increased motivation and self-esteem.
- 3. Technical Skills.
- More collaboration with peers.
- 5. Increased use of outside resources.

Modern Technology has paved the way for multi-functional devices like Smartphones, and Smartwatches. Computers are increasingly faster, more portable, and higher powered than ever before. With all of these revolutions Technology has also made our life easier, faster, better, and more fun.

The positive impact of Technology and the advancement of Communication within our society has improved because of the advancement of Technology. We depend on Technology in our daily life and our need and demand for technology is always rising. We humans use Technology to travel, communicate, learn, to do business, and to live our everyday life. The impact on our society that has allowed us to do things that has changed the world for the better. Almost everyone today has a phone (OR) a computer and they use both to communicate with families, friends, and even businesses. One example of the positive that Technology brings to people's lives is that soldiers can speak to their family using Skype while they are deployed (Skype is a video chat option that is one of the newer Technology in communication. It can also be used for business-related things like conference calls and has multiple users, no matter where they are located.).

Advanced Technology has affected us humans in ways that we don't even acknowledge. Our basic humanity revolves around Technology and its advancement over time. The resulting problem of information overload does negatively impact contemporary society to some extent. The rise of social media is now very easy and practically seamless for anyone to spread, lies, falsified information, and rumours. There is no denying that these advancements in technologies have led to a constant never-ending over supply of information within a limited time. Information inevitably diminishes as we become overwhelmed with all the data that is available to us, quite literally in the palm of our hands. As a whole, Information Technology and its use and misuse is a major reason why Information overload has become a critical issue.

Technology also helps and affects the younger generation. It easily accesses information to inform and educate themselves, maintain supportive relationships from their identities through self-expression, learning, and talking, whereas the technology has been linked to increased stress and depression in younger generations. Children are not receiving the love and affection that they need to feel from their parents.

Technology is evolving faster than ever, but the fact is, it is important for adolescence to learn and understand and learn technology. It has become a part of our daily life for all people to use electronic devices. It is necessary in most situations, especially when they are older, however the use of Technology must not be in excess. It causes all sorts of problems socially and physically. It is an amazing thing, but at the same time, it should not be used all the time.

"Technology has helped the world get connected, it has made people disconnected."



-Akhil Sadasivam I CSE-B

## TECHNOLOGY IS EVOLVING FASTER THAN EVER ....

One of the most vivid memories of my childhood is of my dad explaining to the 9 year old me, what the meaning of a floppy disk is. In simple words, it is like an ancient USB (Universal Serial Bus) with a staggering 1.44MB storage as its standard value and 2.8MB as its maximum storage capacity. These devices were usually rectangular and about the size of a palm costing anywhere from Rs1500 to Rs 3000.

It's strange to think that a decade ago smart phones didn't even exist and computers were an item of luxury. But today all these are rather necessities. According to Ray Kurzweil- the genius American inventor who is responsible for optical character recognition, text-to-speech synthesis, speech recognition technology, and electronic keyboard instruments and much more, the huge increase in availability is due to Moore's Law as written in his book "Singularity is near". Moore's Law states that the number of transistors in a microchip essentially doubles over every two years and thus dividing the price by half. These advancements in technology have enabled its accessibility to a much larger audience. Never in the history of mankind have so many inventions and advancements emerged to make a resounding impact.

So technological evolution is akin to human biological evolution except that it is infinitesimally faster. An example is when in 1998, a computer IBM's Deep Blue won all the games against Garry Kespavo, a pro-chess world champion. This was achieved by the system learning all the possible moves and manoeuvers by watching more than a 1000 games of chess and then by combining more than 2 million moves per second coupled with the trial and error, it could predict the fate of the whole game just by the movement of the first piece.

The one necessity to thrive in such a new world as the one we are creating right now is simply, speed. The need for new inventions is to make it better- more efficient than its post humorous colleague. It took awhile for technology to catch up to us; with what we wanted it to do. We essentially tweaked it with our necessities and luxuries. We trained it to do the impossible. Right now we are facing the opposite problem. The incredible power of technology and its evolution seems to have jumped overnight. Even the most basic of the smartphones today have a much higher processing power than the past "supercomputers". We have unlimited storage due to the concept of cloud processing. This has the additional benefit of never losing any of our data due to the damage of the physical piece of technology.

A step towards singularity came with the invention of machine learning. Usually computers react to the code being given to them and function accordingly. But after machine learning the computer learns by itself and atomatically improves itself through experience.

A very instinctive feature in humans is the ability to survive. We want to remain in control. We want to do more with the resources available to us but the difference here is that our knowledge of these machines are still negligible. I would go even as far as to say that we have not utilised the technology we invented 5-6 years ago to its greatest extent. We get bored of the existing technology and move on to the next best thing without optimising the past technology. Humans are always credited for doing the "impossible" and thus that it becomes the Golden Fleece for everyone. So I would say that the missing step is not the lack of any "advanced" technology but rather the overlooked attempt at trying to accommodate and utilise the existing technology to its maximum degree.

We are just 20 years into a brand new century and these years by themselves contributed more to humans and thus to technological evolution than ever before in our history. It is indeed exciting and intimidating to see the future we will leave for our future generations.



## New Faculty(AY 20-21 ODD)



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Dr. A. R. Kavitha B.E., M.E., Ph.D Associate Professor



Dr. P. Prabhavathy B.E., M.E., Ph.D Assistant Professor (Sl.G)



Dr. P. Durgadevi B.Tech., M.E., Ph.D Assistant Professor (Sr.G)



Dr. S. K. B. Sangeetha B.E., M.E., Ph.D

Assistant Professor (Sr.G)



Dr. M. Durgadevi B.Tech., M.Tech., Ph.D

Assistant Professor (Sr.G)



Dr.C.A.S.Deiva Preetha B.E.,M.S.,Ph.D Assistant Professor (Sr.G)



Mrs.G. Merlin Linda B.E., M.E., (Ph.D)

Assistant Professor (O.G)

# Faculty onboard at DCSE as on January 2021





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