




B.S. Abdur Rahman

Crescent

Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

DEPARTMENT
OF
CSE





readme.txt

message.exe

- >initiating message.exe.....
- >displaying text

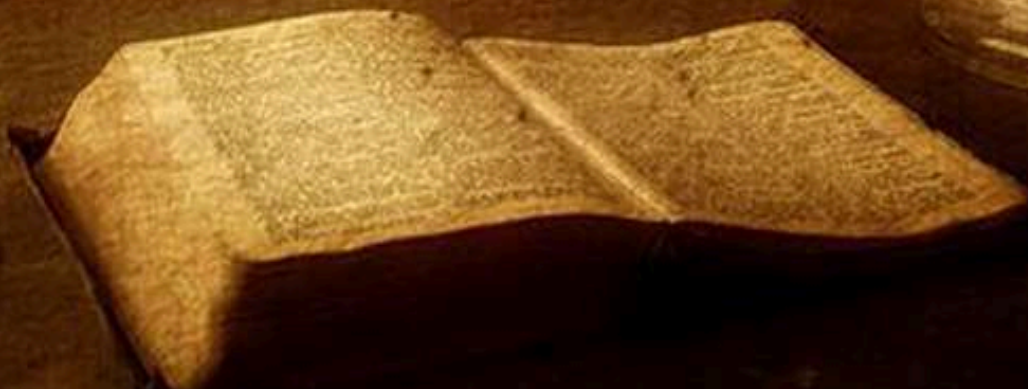
The Computer Science department of B.S.Abdur Rahman Crescent Institute of science and Technology, firmly believes in innovation and creativity moulding into fresh ideas that can make changes.

- >readme.txt is a combined effort put forth by the students and professors of the department.
- >This magazine is all-round report of the previous year and some honorable movements.

JAN-JUNE 2021

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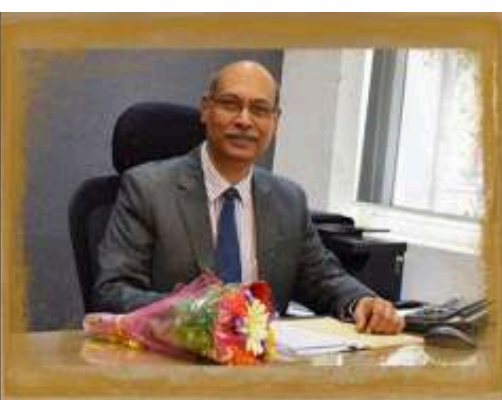


Dr A Peer Mohamed
VICE Chancellor

It is, indeed, heartwarming to note that the students and faculty members of the Department of Computer Science and Engineering are becoming increasingly successful in putting forth their efforts in publishing this magazine at frequent interval. This magazine is abound with wonderful articles that provide a wealth of knowledge to the readers.

The magazine offers the platform for the students to showcase their creativity and multifarious talent. In fact, promoting creativity is a powerful way of engaging pupils with their active and cognitive learning. It is worth mentioning the enthusiastic participation shown by our students despite this pandemic, lockdown and physical distancing.

I appreciate the excellent team work and coordination among the students and faculty members of the Department of Computer Science and Engineering department in bringing out this issue. I look forward to many such publications and events that would help in the holistic development of the students.



Dr A Azad
Registrar

This magazine will serve as a window to the significant event happenings and the noteworthy achievements of faculty members as well as students in the Computer Science and Engineering Department. It is heart wrenching to see the faculty members and the students engaging together in various activities and indeed, creating a vibrant atmosphere in the department. Remarkably, Professors are actively encouraging the students and providing better feeds to their young minds.

The best way to predict the future is to invent it. True to this saying of Alan Kay, students should turn into pioneers of tomorrow's technology. I fervently wish, with the combined efforts and involvement of all faculty members and sheer enthusiastic students in the research field of computer science and engineering, will definitely create a better tomorrow for all humankind.

With great pride, I am so glad about the current achievements of faculty members as well as students and I wish them to shine bright in various multilevel activities. I would also like to urge the faculty and student community of the Computer Science department to further excel and succeed on various dimensions and set new high standards.



Dr. Venkatesan Selvam
Dean, SCIMS

“You must be the change you wish to see in the world.” – Gandhi.

Our students have proved that by showcasing this marvellous magazine, 'Readme.txt'. The hard-work of the department has thoroughly reflected in the pages of the magazine giving amazing content. I'm greatly overwhelmed by the ideas and the remarkable talents of our students. I hope that this magazine will continue to fuel and ignite the young minds



Dr E. Syed Mohamed
HOD

The magazine being published inspite of the pandemic situation shows the elite interest of our college students. I really believe that everyone has a talent, ability, or skill that he can mine to support himself and to succeed in life. Our students have exhibited it in a unique way. It is apparently heartwarming and unleashing that our department has come up with the, 'readme.txt' upholding the honors and the glory of the alma matter.



**ABOUT THE
DEPARTMENT**

ABOUT THE DEPARTMENT

Welcome to the Computer Science and Engineering Department at the B.S.Abdur Rahman Crescent Institute of Science and Technology.

Our exciting, rich and dynamic field has been pushing the boundaries of what is possible through the discovery of new ideas and the building of innovative systems and tools that have changed our lives. Our field has been pushing the envelope of almost all other disciplines, which use computing as a fundamental means for discovery. Computer science and engineering offers exciting, intellectually challenging, and rapidly growing career opportunities. It is the heart of where the action is: whether this means intelligent game playing, mobile applications, smart robots, cloud computing, data security, social networks, or bioinformatics.

The Department of Computer Science & Engineering has been in existence since 1990 (31 Years of Excellence), Given the high demand for Computer Science professionals from the industry, the department offers four undergraduate programs namely B.Tech. Computer Science and Engineering, B.Tech. Artificial Intelligence & Data Science, B.Tech. CSE (Cyber Security), and B.Tech. CSE (Internet of Things). The department also offers post-graduate degree programmes namely M. Tech CSE, M.Tech Artificial Intelligence and Data Science, and M. Tech Data Science. The department also offers Doctoral Degree Program in the field of Computer Science and Engineering. The department has also recently introduced minor degree programs in Artificial Intelligence & Machine Learning, Augmented Reality & Virtual Reality, BlockChain, and Data Science. The undergraduate and postgraduate programs of Department of Computer Science & Engineering are approved by National Board of Accreditation, New Delhi.

The department aims to provide students with a strong foundational background in Computer Science, whilst enabling them to integrate their knowledge with other disciplines in order to make new and innovative discoveries. Most graduates of the Computer Science Program step directly into career positions in multinational companies while some choose to continue their education in masters. Our students have always been budding entrepreneurs and many have startups established while pursuing their degrees.

Vision and Mission of the Department of Computer Science and Engineering

Vision

The vision of the Department of Computer Science and engineering is to impart quality education, inculcate professionalism and enhance the problem solving skills of the students in the domain of Computer Science and Engineering with a focus to make them industry ready, involve in possible areas of research, to pursue and have continual professional growth.

Mission

To equip the students with strong fundamental concepts, analytical capability, programming and problem solving skills. To create an academic environment conducive for higher learning through faculty training, self learning, sound academic practices and research endeavors. To provide opportunities in order to promote organizational and leadership skills in students through various co-curricular and extra – curricular activities. To make the students industry ready and to enhance their employability through training and internships. To improve department industry collaboration through interaction including participation in professional society activities, guest lecturers and industrial visit.



**DEPARTMENT
MEETING**



2. Class committee meeting

Year- semester	First Class committee meeting	Second Class committee meeting
II year -4 th sem	24 th March 2021	1 st June 2021
III year -6 th sem	26 th March 2021	1 st June 2021
IV year -8 th sem	03 rd March 2021	21 st May 2021
I M. Tech -2 nd sem	27 th May 2021	8 th July 2021
II M. Tech -4 th sem	21 st May 2021	14 th July 2021

3. School level advisory committee:

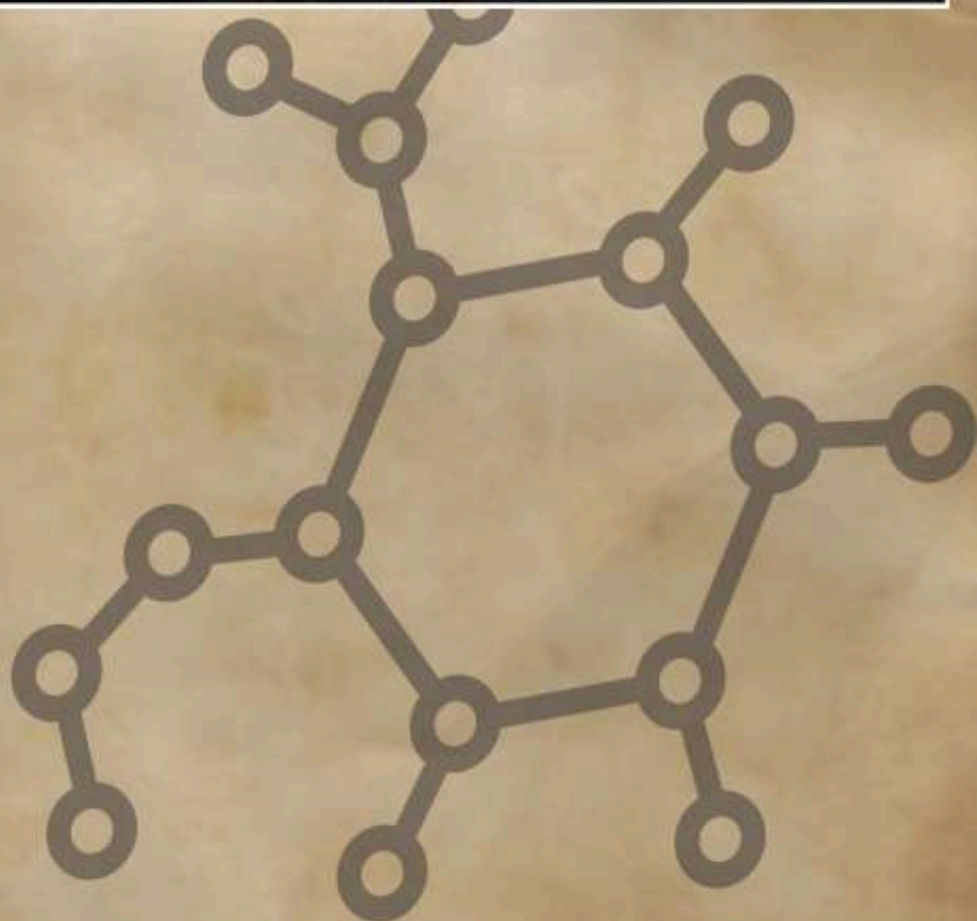
The Second School Level Advisory Committee (SLAC) meeting of the School of Computer, Information & Mathematical Sciences (SCIMS), B. S. Abdur Rahman Crescent Institute of Science & Technology was conducted on 16th June 2021 at 10 AM. Deliberation of salient features of Curriculum and Syllabi of the Programs was done by Dr. E. Syed Mohamed, Hod/CSE

- B.Tech. Computer Science & Engineering
- B.Tech. Artificial Intelligence & Data Science
- B.Tech. Computer Science & Engineering (IoT)
- B.Tech. Computer Science & Engineering (Cyber Security)
- M.Tech. Artificial Intelligence & Data Science
- M.Tech. Data Science

List of participants in SLAC Meeting

1. Dr. Venkatesan Selvam- Professor & Dean (SCIMS), BSACIST
2. Dr. M. Manikandan- Associate Professor, MIT, Chromepet, Chennai
3. Dr. V. Masilamani- Assistant Professor, CSE, ITTD&M, Kancheepuram, Chennai
4. Dr. E. Syed Mohamed- Professor & Head / CSE, BSACIST
5. Dr. I. Sathik Ali- Assoc. Professor & Head / IT, BSACIST
6. Dr. S. Pakkirmohideen- Assoc. Professor & Head / CA, BSACIST
7. Dr. S. Rajasekaran- Professor & Head / M & AS, BSACIST
8. Dr. Saravanan Mohan- Researcher, Sony Ericsson, Chennai
9. Mr. K. Sethu Raman- Founder & Director, PragITech Private Limited, Chennai
10. Mr. Ashiq Mohd Ilyas (2013- 15)- Research Scholar, BSACIST
11. Mr. Magdoom Mohamed (Parent)- Managing Director, WAN-IFRA Media Publishing Company, Chennai
12. Mr. N. Chandrasekaran- Office Manager, Competition Commission of India, Southern Region Office, Chennai
13. Mr. Arvind Bharani (2017-2021)
14. Mr. Abhishek Chandrasekaran, MCA (2019-2021)

4. Department faculty meeting: Date: 26 February 2021





VALUE ADDED COURSES

VALUE ADDED COURSES

IIIT BOMBAY- SPOKEN TUTORIAL COURSES CONDCUTED DURING THE EVEN SEMESTER

Course Name	Name of the faculty	No of students completed	Date	Year and sec
PHP & MySQL	Mr. Manoj Kumar D S	40	22.06.21	VI Sem B
R	Mrs. R.Akila	43	3.06.21	VI Sem A
R	Mrs. C. Vijayalakshmi	45	3.06.21	VI Sem B
R	Mrs. J. Brindha Merin	46	3.06.21	VI Sem C



List of faculty completed Coursera

Name of the faculty	Course completed
Dr. Anun Raj	Introduction Virtual Reality
Dr. Muthu Priya	Block Chain
Mrs. C. Vijayalakshmi	Python for Data Science
Mrs. R.Akila	Exploratory Data Analysis
Dr. C. Hema	AI & ML





Events

Organized



Itinerary

FIVE DAY ONLINE STTP ON
ARTIFICIAL INTELLIGENCE
AND ITS IMPACT ON
INDUSTRY 4.0"

26-30 APRIL 2021

2020-2021



B. S. ABDUR RAHMAN CRESCENT
INSTITUTE OF SCIENCE AND
TECHNOLOGY
WWW.CRESCENT.EDUCATION

MARCH

WEBINAR -
"APPLIED DATA
SCIENCE IN ACTION"

1ST MARCH 2021

WEBINAR -
"OPPORTUNITIES TO
STUDY ABROAD"

12TH MARCH 2021

WEBINAR -
BLOCKCHAIN
TECHNOLOGY

13TH MARCH 2021

APRIL

VIRTUAL POWER
SEMINAR ON "MACHINE
LEARNING AND ITS
TECHNIQUES"

9TH APRIL 2021

ONLINE QUIZ COMPETITION
"TEST YOUR KNOWLEDGE ON
INTELLECTUAL PROPERTY
RIGHT (IPR)"

26TH APRIL 2021

IBM DEVELOPER DAY
UNDER THE THEME OF
DATA SCIENCE & AI

29TH APRIL 2021

JUNE

WEBINAR ON "CURRENT
TRENDS AND FUTURE OF
DATA SCIENCE & AI IN
DECISION MAKING"

3RD JUNE 2021

FEBRUARY

GUEST LECTURE ON
"LET'S TRANSCEND TO
NEW HORIZONS"

17TH FEBRUARY 2021

GUEST LECTURE ON “LET’S TRANSCEND TO NEW HORIZONS”

Resource person:

Dr.SulthianHalifa Haroon Al Rashid, Research Fellow, MIT University, Australia and Co-Founder of BigEnPass Pvt Ltd.

SESSION PHOTO :



Report:

The Department of Computer Science and Engineering organized a guest lecture on “let’s transcend to new horizons” for the faculty members. The resource person was Dr.SulthianHalifa Haroon Al Rashid, Research Fellow, MIT University, Australia,

and Co-Founder of BigEnPass Pvt Ltd. He explained the greater potential opportunities in Cyber attacks. He also highlighted the issues like how our phone audio can be heard and data can be stolen easily. At the end, he explained about the ample job opportunities in the related areas.

Conveners:

Dr.Venkatesan Selvam, Dean, SCIMS,

Dr. E. Syed Mohamed, HOD/CSE.

Co-ordinators:

Mr.D.S.Manoj Kumar, AP/CSE,

Mr.S.Syed Abdul Syed, AP(Sr.G)/CSE,

Mrs.D. Madhina Banu, AP(Sr.G)/CSE.

The resource person Dr.SulthianHalifa Haroon Al Rashid explaining about the session to the faculty members.

WEBINAR ON “APPLIED DATA SCIENCE IN ACTION”

Resource person:

Mr. Bikramaditya Singhal

Conveners:

*Dr. Venkatesan Selvam,
Dean SCTMS,
Dr. E. Syed Mohamed
HOD/CSE.*

Co-ordinators:

*Mrs. C. Vijayalakshmi , AP
(Sr.Gr.), CSE,
Mrs. R. Akila , AP (Sr.Gr.), CSE*

SESSION PHOTO :



*The resource person
Mr. Bikramaditya Singhal,
delivering a lecture
on use cases of Data Analytics.*

Report:

It is indeed to note that the Department of Computer Science and Engineering conducted a live webinar session on “Applied Data Science in Action” for the students and faculty.

OBJECTIVES OF THE WEBINAR :

- 1. Importance of Mathematics and Coding to succeed as a Data Scientist*
- 2. Difference between Big Data & Data Science*
- 3. The two facets of the Data World – Technology and Science.*

*3. Both Business and Data Analytics work hand in hand for a booming business.
The resource person Mr. Bikramaditya Singhal delivered a lecture on “Applied Data Science in Action”. He gave a brief note on Data Science including its components, awaiting career opportunities in the world of Data Science and most importantly he gave guiding tips on how to become a successful Data Scientist.*

WEBINAR ON “OPPORTUNITIES TO STUDY ABROAD”

Resource person:

Mr. Bhaskar, Director – IBS Training and Education, Manya-The Princeton Review, Chennai.

Conveners:

*Dr. Venkatesan Selvam,
Dean SCIMS,
Dr. E. Syed Mohamed, HOD/CSE.*

Co-ordinators:

*Mrs. S.P. Valli AP-Grade (CSE)
Mrs. J. Brindha Merin – AP/CSE*

SESSION PHOTO :



The resource person Mr. Baskar explaining about the future studies to the students.

Report:

It is indeed to note that the Department of Computer Science and Engineering conducted the live webinar session on “Opportunities to study abroad” for the students and scholars on 12th March 2021. The main objective of this webinar was to highlight the opportunities in foreign countries and to eradicate various doubts regarding

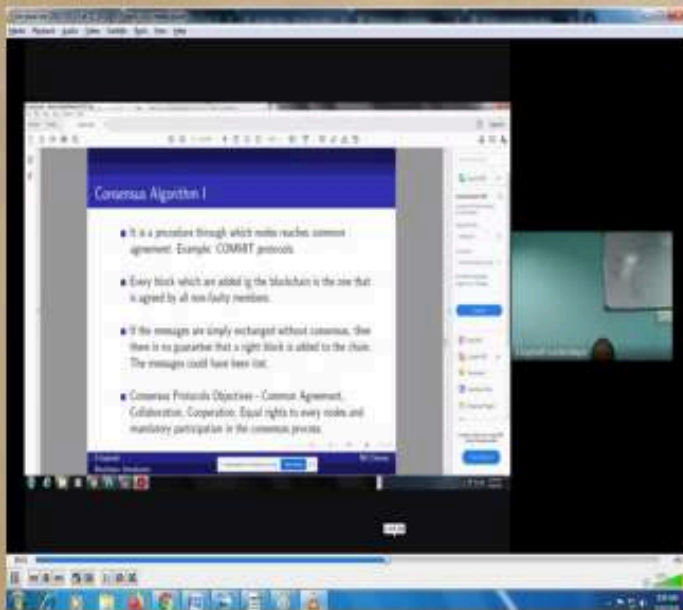
the factors involved in admission processes. The resource person Mr. Baskar, Director-IBS training and education, Manya- The Princeton Review, Chennai, delivered the lecture. Mr. Baskar illuminated his lecture clearly to all the students present in the live webinar session.

WEBINAR ON BLOCKCHAIN TECHNOLOGY

Resource person:

S.Gopinath, Sr Technical Director / Scientist F in National Informatics centre, Chennai.

SESSION PHOTO :



Report:

The Department of Computer Science and Engineering conducted the live webinar session on "Blockchain Technology" for the students on 13th March 2021. The main objective of this webinar was to enlighten students with the ideas related to the concept of Blockchain Technology and

Conveners:

*Dr.Venkatesan Selvam,
Dean SCIMS,
Dr. E. Syed Mohamed, HOD/CSE.*

Co-ordinators:

*Dr.S.Revathi, Professor, CSE,
Dr.N.Sabiyath Fatima, Associate
Professor, CSE,
Dr.V.Muthu Priya, Asst. Prof
(Sl.Gr.), CSE,
Ms.A.Sonya, AP/IT*

The resource person Mr.Gopinath explaining about consensus algorithm to the students.

its application in various systems. The resource person Mr.Gopinath,Sr Technical Director / Scientist F in National Informatics Centre, Chennai, presented the keynote address on the theme "Blockchain Technology". He gave a brief explanation about all the stuffs present on the theme for the understanding of students.

VIRTUAL POWER SEMINAR ON “MACHINE LEARNING AND ITS TECHNIQUES”

Resource person:

*Mr. Joel A J – Sr. Software Engineer
of RR Donnelley Global BPO*

Conveners:

*Dr. Venkatesan Selvam, Dean,
SCIMS,
Dr. E. Syed Mohamed, HOD/CSE.*

Co-ordinators:

*Mrs. A. Radhika, AP/CSE,
Mrs. Niyati Behara, AP/CSE*

SESSION PHOTO :



*The resource person
Mr. Joel A J explain-
ing about the session
theme to the faculty
members.*

Report:

The Department of Computer Science and Engineering conducted a virtual power seminar on “Machine Learning And its Techniques” for the students on 9th April 2021. The main objective of the seminar was to provide brief information on Machine Learning concerning statistical predictions. The resource person

Mr. Joel A J- Sr. Software Engineer of RR Donnelley Global BPO, presented the seminar on the concept of Machine Learning. The seminar was truly interactive and at the same time, Mr. Joel enriched the students with a deep understanding of the concepts of Machine Learning and Techniques.

ONLINE QUIZ COMPETITION "TEST YOUR KNOWLEDGE ON INTELLECTUAL PROPERTY RIGHT (IPR)"

Conveners:

*Dr. Venkatesan Selvam, Professor & Dean (SCLMS),
Dr.E.Syed Mohamed, Professor & HOD(CSE)*

Co-ordinators:

*Mr. Manoj Kumar D S (Asst. Prof),
Dr. A. Ramachandran (Asst. Prof).*

ONLINE QUIZ :



E-CERTIFICATE COPY OF A PARTICIPANT :



Report:

It is noteworthy that the Department of Computer Science and Engineering conducted the Online Quiz Competition called "Test your knowledge on Intellectual Property Right (IPR)" on 26th April 2021. The purpose of this quiz was to focus on "Accreditation" to analyse how cognitive the faculty members respond to each questions provided. A set of 20 questions were issued in google forms through online. As soon as the participants complete the quiz, the score was intimated to them. Indeed, to cheerup the participants, they are provided with an e-certificate, which has been sent to their registered mail id. This quiz competition has emboldened the participants and made themselves updated.

IBM DEVELOPER DAY UNDER THE THEME OF DATA SCIENCE & AI

Resource person:

*Mr. Amol B Mahamuni, Program Director, Data Science and AI practice at IBM GTS Analytics Lab,
Mr. Yuktेश Chintamadaka, Developer Advocate, IBM*

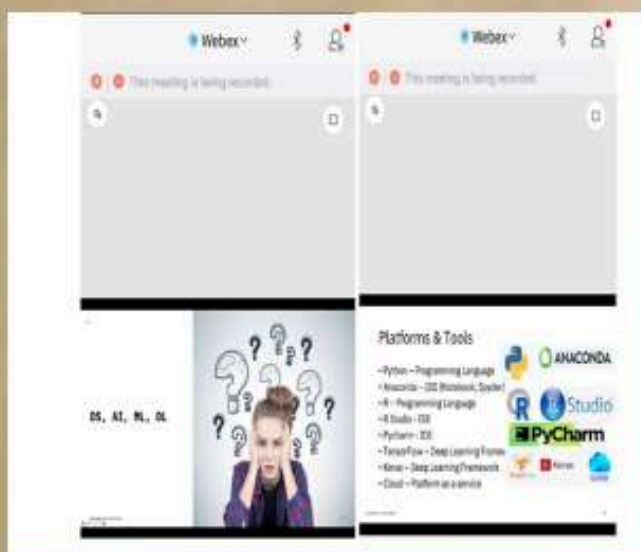
Conveners:

*Dr. Venkatesan Selvam, Dean, SCIMS,
Dr. E. Syed Mohamed, HOD/CSE.*

Co-ordinator:

*Ms. Subhashini AP/CSE & IBM CE
-CSE programme coordinator*

SESSION PHOTO :



Career Options in AI & Data Science by Mr. Yuktेश Chintamadaka

Report:

It is indeed to note that the Department of Computer Science and Engineering conducted a webinar based on "Data Science & AI" under IBM Developer Day on 29th April 2021. The resource person Mr. Amol B Mahamuni, Program Director, Data Science and AI practice at IBM, GTS Analytics lab followed by Mr. Yuktेश Chintamadaka, Developer

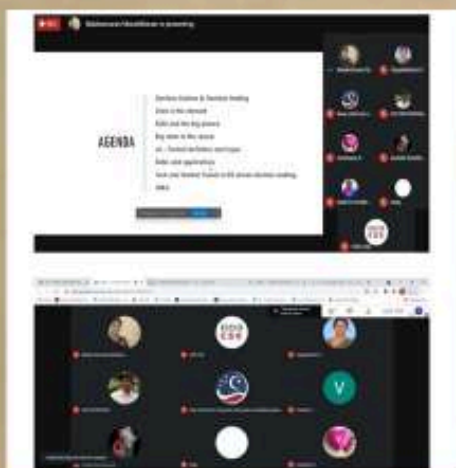
Advocate, IBM were addressed the participants and presented the keynote lecture on the concept of Data Science & AI. The main objective of the session was to enhance students with the knowledge on the theme and the availability of immense career options in Data Science & AI. At the end of the sessions, students might be able to choose their stream without any confusion.

WEBINAR ON “CURRENT TRENDS AND FUTURE OF DATA SCIENCE & AI IN DECISION MAKING”

Resource person:

*Mr. Balakumaran Muralidharan,
Architect, Wipro technologies*

SESSION PHOTO :



Conveners:

*Dr. Venkatesan Selvam, Dean, SCLMS,
Dr. E. Syed Mohamed, HOD/CSE.*

Co-ordinator:

*Ms. C Vijayalakshmi (Asst. Prof (S-G)/CSE)
Ms. S P Valli (Asst. Prof (Sl.Gr.),
CSE)
Mrs. Niyati Behera (Asst. Prof./CSE)*

Report:

The Department of Computer Science and Engineering conducted a live webinar on “Current trends and future of Data Science & AI in decision making” on 3rd June 2021. The objective of the webinar was to enhance final year students with the clear & crisp understanding on current trends and future of data

science & AI in decision making”. The resource person Mr. Balakumaran Muralidharan, Architect, Wipro technologies delivered a lecture with more visualising examples. He concluded with the abundance job opportunities in the related areas.

FIVE DAY ONLINE STTP ON ARTIFICIAL INTELLIGENCE AND ITS IMPACT ON INDUSTRY 4.0”

Resource person:

Dr. Lalith Kumar Singh, Nuclear Scientist, NPCIL (BARC), Department of Atomic Energy, Govt. of India

Dr. Mohanraj Vengadachalam, Data Scientist, Standard Chartered, Chennai

Mr. V. J. Saravanan, Digital Marketing Strategist, Founder – Managing Director, Four steps Training Solutions

Dr. M.P. Selvan, Professor NIT Trichy. The session started with the Intrusion of Communication Technology in Power Sector.

Ms. R. Ramakala, IoT Trainer, Skill Technica

Mr. Siva Prasath. CEO, Jothana Software Pvt. Ltd, Chennai

Dr.S.Sibi Chakkarwarthy, Cyber Security Consultant

Mr. Arshad Sarfarz Ariff, Senior Technology Architect, Infosys Ltd

Mr. Raj Kapoor, Founder, India Blockchain Alliance

Convener:

Dr. Venkatesan Selvam, Dean, SCLMS

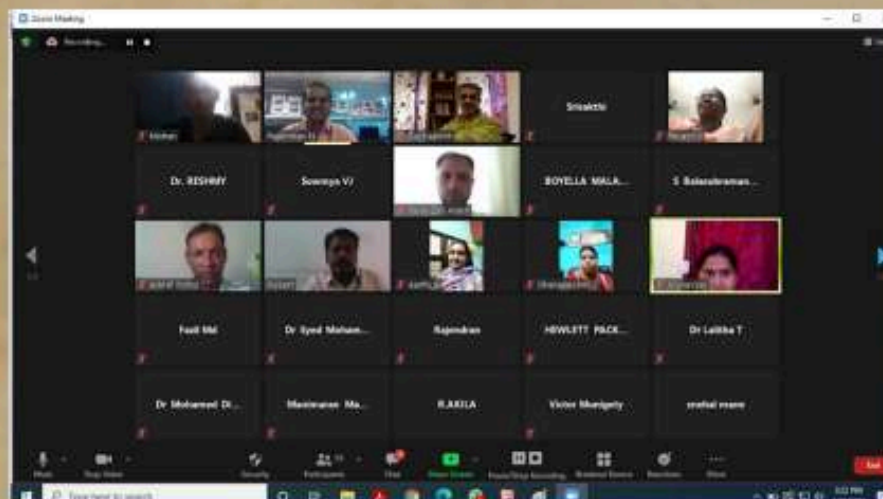
Coordinators:

Dr. Gufran Ahmad Ansari, Prof./CA & Director (CFSC),

Dr. S. Revathi, Prof./CSE,

Dr. N. Ayyanathan, Assoc. Prof/CA

SESSION PHOTO ON ZOOM MEETING :



Report:

A Five Day Online Short Term Training Programme on "Artificial Intelligence and its Impact on Industry 4.0" was organised by the Department of Computer Science and Engineering between 26.04.2021 to 30.04.2021 to enrich students with the knowledge on Technologies and Solution Methodologies for Real-world Scenarios. First day was started by the resource person, Dr. Lalith Kumar Singh, Nuclear Scientist, NPCIL (BARC), Department of Atomic Energy, Govt. of India, delivered a lecture on "Artificial Intelligence and its significance". Secondly, the resource person Dr. Mohanraj Vengadachalam, Data Scientist, Standard Chartered, Chennai, handled the second session on the topic "Introduction to Industry 4.0 & AI and Industry 4.0 Applications". Further The resource person Mr. V. J. Saravanan,

The third day of the session was handled by the resource person Mr. Siva Prasath, CEO, Jothana Software Pvt.Ltd, Chennai, delivered a lecture on "Advanced Machine Learning Techniques Data Science, Data Analytics, AI & Python Basics". He also gave a brief explanation on "Introduction to NumPy and Pandas, Predictive analysis, Linear Regression, Logistic Regression and Model Creation".

The fourth day of the session was started by the resource person Dr.S.SibiChakkaravarthy, Cyber Security Consultant, on the topic "Cyber Security Attacks Detection and Mitigation".

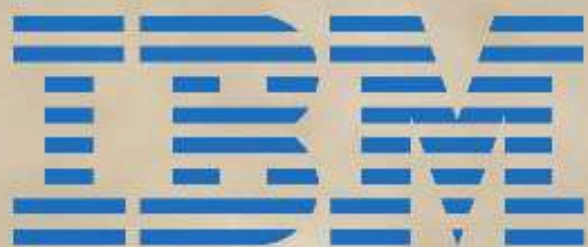
Digital Marketing Strategist, Founder - Managing Director, Four steps Training Solutions gave a talk on "Role of Industry 4.0 in Digital Marketing".

The second day of the session was started by the resource person Dr. M.P. Selvan, Professor NIT Trichy where he gave a clear lecture on "The Intrusion of Communication Technology in Power Sector". Further, the resource person Ms.R.Ramakala, IoT Trainer, Skill Technica handled the second session, on the topic "IoT for computational Intelligence". She gave various examples on Artificial Intelligence and Machine Learning for the understanding of students.

He concluded his lecture by a brief explanation on "AI Powered Malware Analysis".

The last session, Day 5 was started by the resource person Mr. Arshad Sarfarz Ariff, Senior Technology Architect, Infosys Ltd., on the topic "Introduction to Blockchain Technology".

The five day online STTP session on "Artificial Intelligence and its Impact on Industry 4.0" was concluded by the Chief Guest for the Valedictory function Mr. Raj Kapoor, Founder, India Blockchain Alliance and he delivered Keynote address on "Blockchain Technology in Industry 4.0".



ACTIVITIES

IBM industry session- IOT:

The Department of Computer Science and Engineering with IBM Career Education collaboration to offer industry designed courses for B.Tech Computer Science and Engineering students as a specialization in AI & IOT. Till third semester, basic programming concepts is designed by IBM and handled by the IBM trainer in the institution campus. Industry session will be handled by the IBM Experts to give knowledge on industry requirements and to discuss industry case studies.

IBM Industry session was scheduled on 3rd, 5th, 10th & 12th February 2021

Resource Person: Mr. Rakesh Sharma M N, Senior Consultant IOT Analytics, Mr. Kalyan C Nookala, Senior Solution Architect, IBM CE - CSE Joint program coordinator : Ms. Subhashini, Assistant Professor/CSE Students Batch : 2019 - 2023

Semester: 03

Class: B.Tech CSE 'A'

Topic: Internet of Things

No. of Students: 59

Duration: 4 days - 12 hours (3 hours per day)

Photos:

IoT Industry Session - Crescent University

Logesh Viswanth
to the following

Main Screen

Drawings from IBM I

Terms and Privacy session will be conducted by Mr.Rakesh, IBM CMC. Enclosed is his profile and video link for the session tomorrow

Meeting URL:
<https://zoom.us/j/9277861704840>

Session Settings
Feb 10th - 10:00 AM - 1:00 PM
Feb 12th - 2:00 PM - 5:00 PM

Kalyanra could be reached at 8730009492 for discussion

Agenda

Logesh Viswanth
Delivery Manager, South & West
IBM Career Education
Narasimharajpet, Bengaluru - 560028

What is IoT

- The Internet of Things refers to the growing range of connected devices that send data across the Internet
- IOT is an extension of the internet into the Physical World - Into THINGS
- A "thing" is any object with embedded electronics that can transfer data over a network - without any human interaction.
- Examples are wearable devices, environmental sensors, machinery in factories, devices in homes and buildings, or components in a vehicle.

Agenda

- Recap
- Feedback/Request from previous Session
- IoT Reference Architecture
- More about Sensors & Protocols
- Successful IoT Implementations
- IoT in Défense
- Some more use cases
- Detailed walkthrough of an implementation
- A walk through of allied areas of technology

IBM Watson IoT

Watson IoT Platform

IBM mentor session:

The Department of Computer Science and Engineering with IBM Career Education collaboration to offer industry designed courses for B.Tech Computer Science and Engineering students as a specialization in Big data analytics AI & IOT.

IBM Mentor session was scheduled on 19th March 2021

IBM CE - CSE Joint program coordinator: Ms.Subhashini, Assistant Professor/CSE Class Advisor : Mrs.A.Radhika, Assistant Professor/CSE Students Batch : 2017 - 2021

Semester: 08

Class: B.Tech CSE 'A'

Topic: Internet of Things

No. of Students attended: 46

Duration: 4hours (9am to 1 pm)

Photo:

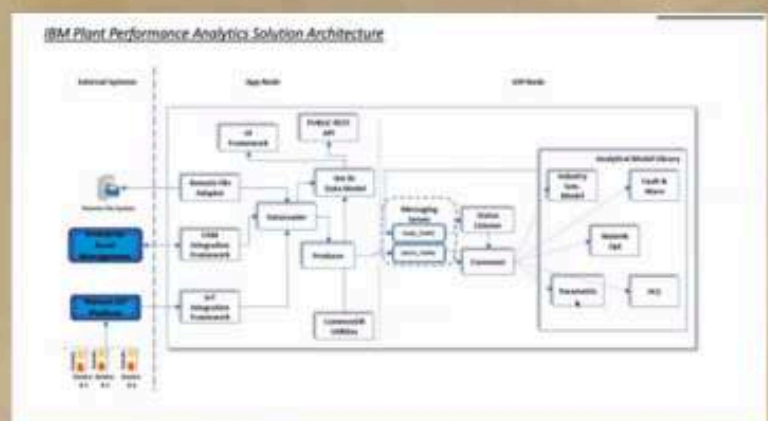
Graduate to Professional: Industry Readiness

Professional Development program for University students:

1. Personality Focus: Self Intro, 3 topics, Dress code, Body Language
2. Profile prep: Template to prepare, profile of candidate
3. How to prepare for Job in Industry?
 - What to prepare for Job role
 - Review Industry & job roles available (scope)
 - Review your skill set & identify the gap
 - Topics of your choice - 3 to 5
4. How to apply for Job
 - Create a Network of Friends, Sr's, near & dear (in Industry)
 - Connect with all, every 15 days via mail / updated profile
 - Meet 8-10 people / companies every 30 days
 - Review Gaps, if any & fix them
5. How to face Interview?
 - What to carry while going for discussion
 - Point #1, Intro, Dress Code, Body Language
 - Initiation & ricking of discussion
 - Document the discussion
6. Emerging technologies
 - Concepts & need of Cloud, Cognitive / AI
 - Concepts of Domains: Banking, Insurance, Telecom, Retail, Public
7. Work on three to four work items (at One end-to-end work i.e. Mini project)
8. Career Education course & certification program, if required - (Optional)
9. Misc activities - e-mail writing, call phone usage & Summarization



- Academia prepares graduates absorbed by industry.
- Academia can be an excellent source of new ideas & I
- Industry collaboration with academia through:
 - Train the Trainer (Faculty) programmes,
 - Course curriculum review
 - Internship for students
 - Support in establishing O&S and research projects.



Summary:

IBM Mentor session in virtual mode for the final year students of B.Tech. Computer Science & Engineering, pursuing IBM Career Education Programme, through the Cisco WebEx platform. There were five speakers - Mr. Jeffrey, Mr. Amit, Mr. Siddique, Mr. Mekala Reddy, and Mrs. Latha, who are experts in diverse fields at IBM. The overall objective of the session was to quickly recap what the students had learned during the IBM IoT course in their seventh semester and also to provide them some career-based professional tips and insights.

The session began around 9 a.m., with Mr. Jeffrey giving a quick overview of IoT, its driving factors, and the current industry trends towards IoT. This session was the basic foundation which the students can later capitalize and build applications and learn more on the IoT front. Following that, Mr. Amit revised the topics that he had taught and tasks that he had given previously about Node-RED and its practical applications. This particular session was beneficial and valuable for the fact that it gave a good understanding of the sequential flow in a basic IoT application along with possibilities of some interesting tweaks.

After Mr. Amit's insightful recap concerning IoT and Node-RED, Mr. Siddique spoke in length about the various fields that are related to IoT which are Big Data and AI. He gave some interesting examples that helped us understand how those fields were interlinked and how they would affect each other. He further spoke about different types of data like Structured, Semi-Structured, Quasi-Structured, and Unstructured and the various types of analytics that we can perform on the data like Descriptive analytics, Diagnostic analytics, Predictive

Analytics, and Prescriptive analytics. Finally, Mr. Mekala Reddy and Mrs. Latha gave us valuable tips and career choices and answered a few questions.

The session concluded with a technical discussion on a real estate use case and wherein the speakers spoke about how IBM TRIRIGA Building Insights was accelerating digital transformation. IBM TRIRIGA is a Cloud-based technology infused with AI and enabled with IoT sensors that help manage risks, costs, and returns with confidence. The speakers conveyed their viewpoint on the use case and explained the utility of such technologies during the current covid-19 scenario. The speakers also talked about the IBM Plant Performance Analytics Solution and its architecture at length. The session ended with a short Q & A section during which the students asked a few questions and also gave their feedback on the session.

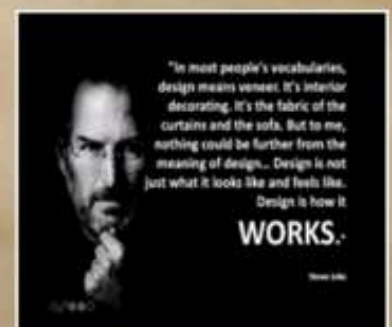
IBM project training report:

Members attended:

1. Mr.Nagendra Nyamgondalu: IBM Project mentor, Advanced Certified ScrumMaster® (A-CSM®), IBM Certified Enterprise Design Thinking, Instructor Co-Founder & Principal Advisor www.skillvelocity.in
2. Ms. Subhashini: IBM – Crescent CSE joint program coordinator, Assistant Professor/CSE, Project Committee member
3. Mrs. A. Radhika: Assistant Professor/ CSE, Class Advisor- IV year B.Tech CSE A
4. Final year B.Tech CSE A students (Enclosed separately) – IBM Specialization program in AI, IoT & Big data analytics

Photos:

Day 1:



Day 2:

Asking the Right Questions
Finding the Right Problems to Solve

History of Design Thinking

Design Thinking emerged from an exploration of theory and practice, in a range of disciplines and sciences, as a means of addressing the human, the technological and strategic innovation needs of our time.

1938: FROM PRODUCT DESIGN TO DESIGN THINKING AT GENERAL ELECTRIC

2015

In the 1930's, Prof. John D. Arnold laid the roots of Design thinking at General Electric.

"Because designing a BETTER WAY to boil water is different from designing a better kettle"

Richard S. Tedlow
Director of the House of Innovation at the University of Cape Town

Summary:

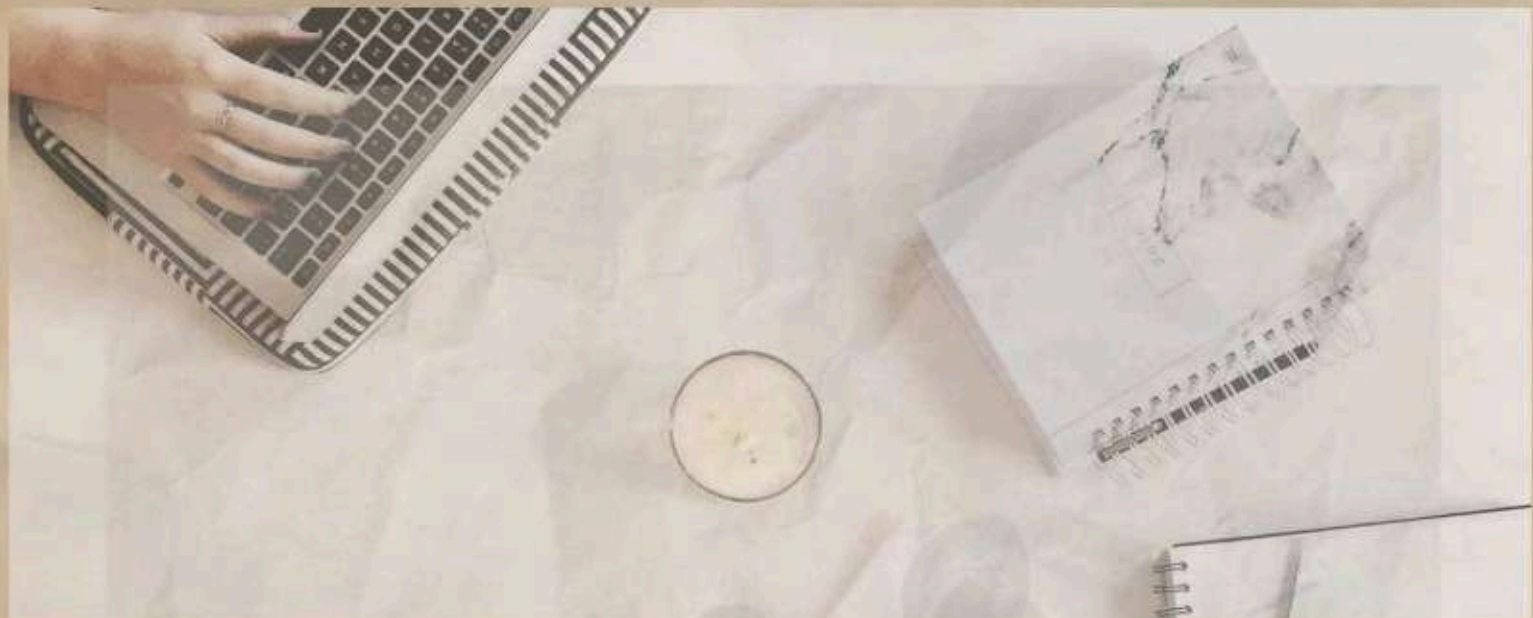
The first day's session began with a small and interesting task in which the instructor asked students to describe 'Design' in their own ways. Then the students were given a brief conceptual introduction about 'Design Thinking' followed by an elaboration about the pressing needs of Design Thinking in today's dynamic world. This was effectively conveyed with the help of past real-world case studies where organizations have failed. Then, concepts like VUCA and Disruptive Innovation were presented. With few short video bytes in between, the day's session ended with a quick peek into the stages of Design Thinking.

To kick off the second day with the required continuity, the students were taken through a brief and quick recap of the previous day's session. Following this, the first stage of Design Thinking - Empathize - was brought into main focus. Meaningful insights were given on the tools such as Personas, Empathy maps and Journey maps. The students were also divided into breakout rooms in the meeting and were presented with a common case study with 4 stakeholders involved in a business. This was done in order to 'empathize' with the given scenario. Each team came up with a variety of questions for the given stakeholders and also for an additional one, in order to unearth their actual pain-points.

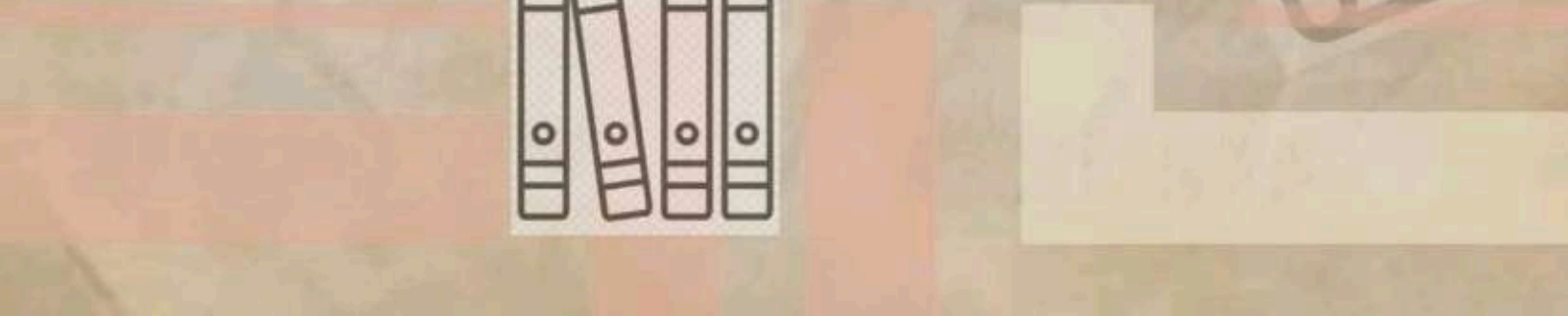
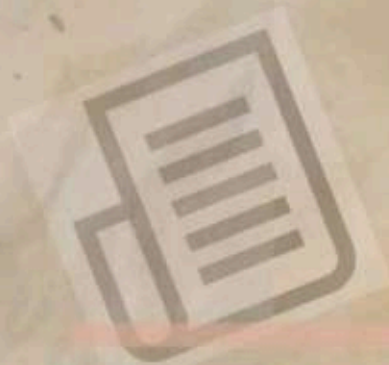
The third day started off with highlighting the importance of the next stage - Defining the problem statement. So once again, team-wise discussion happened and each team came up with one/two most important problem statements in the form of SMART questions and presented them. Moving on to the next stage - Ideate - the teams were given an individual virtual board where they could come up with small ideas as solutions to their identified problems. The top ideas in terms of votes were later discussed and presented in turn. The next stage is 'Prototyping', which requires a software modelling approach - like Waterfall, V, Agile, etc.

Being the most widely used, Agile was thrown light upon and its various methodologies were given a brief, with 'Scrum' being the standout.

Then the students were introduced to JIRA - online project management tool, where they can collaborate and work upon the scenario. The concept of drafting 'Epics' was taught and each team was asked to come up with ten Epics in JIRA. After this the next steps were briefed and thus the day's session came to an end.



PUBLICATIONS



Research Publications Jan-June 2021

Overview:

Publications	Specifications	Total
Journals	Scopus	6
Conferences	International	7

Journals:

S.No	Year	Authors	Title of the Paper	Journal Details	Impact Factor / SJR / SNIP
1	2021	E.Syed Mohamed & K. Vijayalakshmi	XSS Extenuator framework for exterminating Cross Site Scripting attack to ensure secure web access.	Solid State Technology; Volume 64, No. 2, pp. 2027-2040	0.1
2	2021	A. Radhika, M. Syed Masood	Effective dimensionality reduction by using soft computing method in data mining techniques	Soft Computing ; https://link.springer.com/article/10.1007%2Fs00500-02	0.71

				0-05474-7	
3.	2021	Narayani Raman, Aisha Banu Wahab, Sutherson Chandrasekaran	Computation of workflow Scheduling using Backpropagation Neural Network in Cloud Computing- a Virtual Machine Placement Approach	The Journal of Supercomputing; https://link.springer.com/article/10.1007/s11227-021-03648-0	0.45
4.	2021	R.Mythily, Aisha Banu W.,Dinesh Mavaluru	An Efficient Feature Selection Algorithm for Healthcare Data Analysis	Bulletin of Electrical Engineering and Informatics; Vol.9,No.3, pp.877-885	0,25
5.	2021	M. Senthilraja, Arun Raj Lakshminarayanan	Detection of Malicious Profiles and Protecting Users in Online Social Networks	Wireless Personal Communications; https://link.springer.com/article/10.1007/s11277-021-08095-x	0.3

6.	2021	Azka Wani, Revathi S, Rubeena Khaliq	SDN-based intrusion detection system for IoT using deep learning classifier (IDSIoT-SDL)	CAAI Transactions on Intelligence Technology; https://ietresearch.onlinelibrary.wiley.com/doi/10.1049/cit2.12003	0.35
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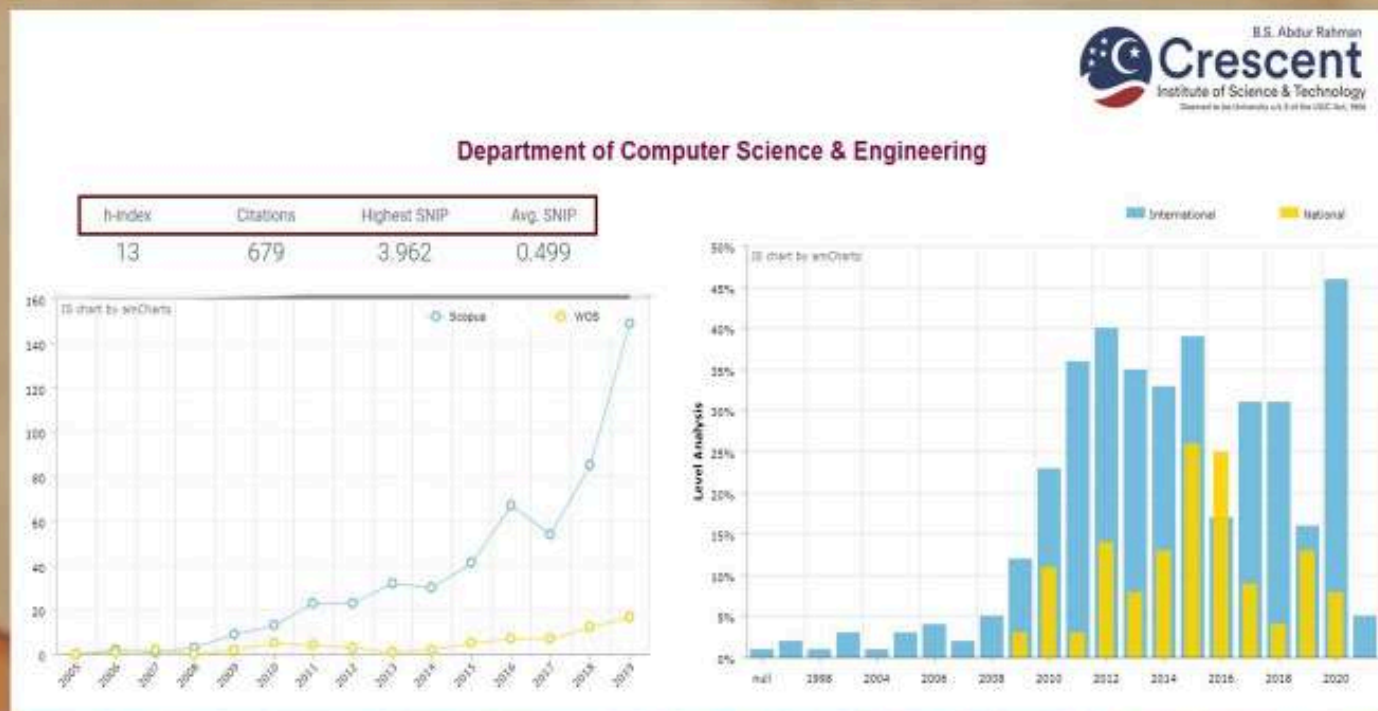
International Conferences:

S.No	Year	Authors	Title of the Paper	Conference Name
1	2021	U.Geetha, Sharmila Sankar, M.Sandhya	Optimized Multi-Walk Algorithm for Test Case Reduction	Intelligent Computing and Applications, Springer, Book Series.
2	2021	Deepak Shankar, N. Aaftab Rehman, Sharmila Sankar, Aisha Banu, M.Sandhya	Chennai Water Crisis – Data Analysis	Intelligent Computing and Applications, Springer, Book Series.

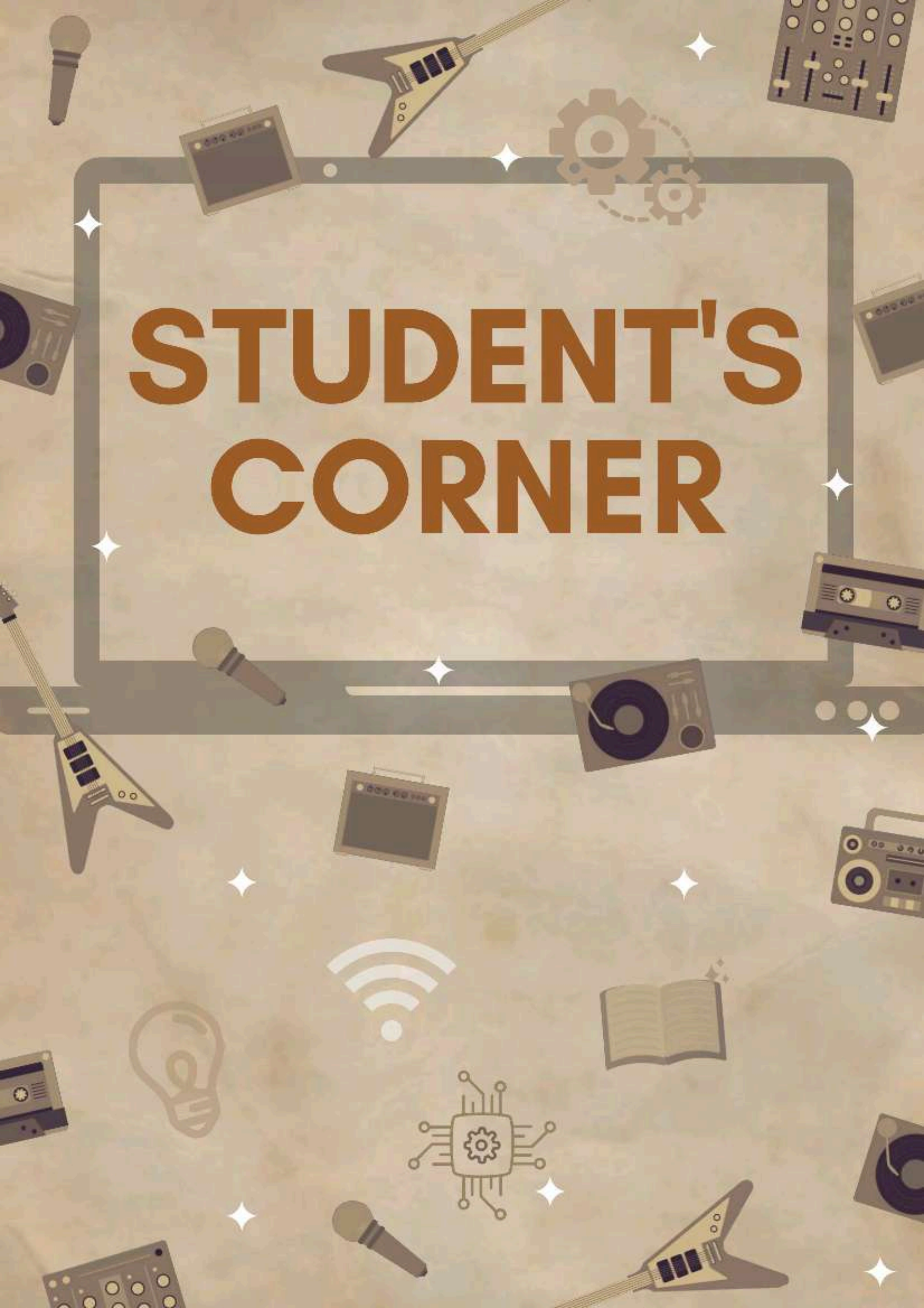
3	2021	Faaez Razeen, Sharmila Sankar, W.Aisha Banu, Sandhya Mahesh	Predicting Movie Success Using Regression Techniques	Intelligent Computing and Applications, Springer, Book Series.
4	25-27 March 2021	ArunRaj Lakshminarayanan;Pav ani B;Rajeswari V;Saravanan Parthasarathy;A. Abdul Azeez Khan;K. Javubar Sathick	Malnutrition Detection using Convolutional Neural Network	Seventh International conference on Bio Signals, Images, and Instrumentatio n (ICBSII), IEEE Explore, DOI:10.1109/IC BSII51839.2021 .9445188
5	18 – 20 March 2021	Arun Raj L.	Crop Recommendatio n by Analysing the Soil Nutrients using Machine Learning Techniques: A Study	4th International Conference On Computational Intelligence In Data Science, Springer IFIP AICT
6	5-7 March 2021	Selvaprabu Jeganathan;Saravanan Parthasarathy;Arun Raj Lakshminarayanan;P. M. Ashok Kumar;Md. Khurshid Alam Khan	Predicting the Post Graduate Admissions using Classification Techniques	International Conference on Emerging Smart Computing and Informatics (ESCI), IEEE

				Xplore.
7	6-7 April 2021	Abdul Waheed Shaikh, Revathi S, Mohammed Abdul Matheen, Amairullah Khan Lodhi, Mohammed Ashrafuddin and Maboobatcha G.S	Processing of Human emotions using cost effective EEG Sensor and Machine Learning	1 st International Conference on Artificial Intelligence and Data Analytics (CAIDA)- 2021, IEEE Xplore

RESEARCH GRAPH



STUDENT'S CORNER



STUDENTS ACTIVITIES (JAN-JUNE 20-21)

1. Madhumitha A, B. Tech 2nd yr A, won 2nd place in Coding Club contest #1 on "Arrays, strings, stacks, queues, and lists" was conducted on 17 April 2021 between 10.30 am to 12.30 pm.

2. M.Rohith and R. Sainivedhana 3rd yr A sec, has presented a paper titled "IoT Enabled Smart Farming and Irrigation System" in the International Conference on Intelligent Computing and Control System held at Madurai, India organized by Vaigai college of Engineering, during 6-8, May 2021.

3. Mohammed Raeesul Irfan, 3rd yr B, won 1st place, The Industry Institute Partnership Cell & Crescent Coding Club conducted the Coding contest #2 on "Problems using hash tables and sets" on 29 May 2021 between 10:30am to 12:30pm.

4. P.Mohamed Irfan and K.Fahima Sanobar Shalin, 3rd yr B sec, has been awarded best paper award for his/her paper titled "Algorithm For Prediction of Direct Current Charging for Electric Vechicles using Direct Current from Solar Panels" in the international conference on recent advances in computer science 21 was held on 18 th June 2021 organized by dept CSE, Saveetha Engineering college.

5. M.Rohith, 3rd yr A sec, presented a paper titled "Analytics and Forecasting on Chennai Reservoirs Rainfall" in the international conference on recent advances in computer science 21 was held on 18th June 2021 organized by dept CSE, Saveetha Engineering college.

ARTICLES AND POEMS:

1. Jabeer J- 2nd year CSE A [POEM]

A music band which is banned

*Once in our college fest we played a music
With a good topic, but we were panic*

*The drummer was epic and piano was magic,
but we still panic in front of the huge public*

*I was a bit poetic
Which was romantic as like titanic.*

*Audience where alcoholic and I felt allergic
I fall down which was dramatic*

*I was realistic,
But it looked idiotic*

*it was very simplistic
This way we ended the music*

2. Rizwanaa M. A- 3rd year C [BOOK REVIEW]

Review of Jeff Keller "Attitude is Everything"

The author imbibes 3 powerful steps to work on with, that will transform you as a person with positive attitude. This book contains 3 sections with 12 lessons briefing on the 3 mantras "Think", "Speak" and "Act".

Part 1: Think- Success begins in the mind.

Let's say you and your co-worker enters a coffee shop. Each of you ordered the same meal, waited the same time to take the order, to receive the meal and to deliver the check. You entered the coffee shop with a smile, optimistic body language and with a positive outlook on the world, had delightful lunch and pleasant conversation with the waiter. Your co-worker enters with a scowl on his face, pessimistic body language, annoyed the waiter, complained about the food. Each of them was treated the same. You see the world with a positive attitude whereas your co-worker sees the world with a negative attitude.

Turn your problems into opportunities. When you face a problem most you complain and dwell on the negative rather, look for solution, find a lesson, without a problem you might never know to take a positive action.

Part 2: Speak- Watch your words.

Keller tells thoughts leads to words, words lead to beliefs, beliefs lead to actions, actions lead to results. Everything you will achieve in your life flows from your beliefs. So, use positive self-talk as often as possible and discuss your goals only with supportive people.

Thoughts > Words > Beliefs > Actions > Results.

Keller defines attitude as a mental filter through which you experience the world. If your attitude window is clean and optimistic the world you see is positive. Instead of looking at problems look for solutions, change things into affirmative. "We become what we think about". If you exercise for 5mins once a week you can't become physically fit, the same if you think positively once a while you cannot become positive person, do until it becomes a habit. Repetition is the key.

How are you? Seems like a small question, but we answer this question so often that is not a small thing at all. Keller puts the answer for the question in 3 categories. Negative, Mediocre and Positive. Negative answers are lousy, tired, terrible etc. Mediocre answers are I'm okay, not too bad, could be worse etc. Positive answers are Terrific, Fantastic, great etc. How we feel is often a subjective matter. If we say we feel tired, we feel tired. How often you complain? It is perfectly okay to discuss your problem in an attempt to find a solution. No one wants to hear

Complaining accomplishes nothing but distracts you from the action that you could take to improve the situation. Next time when you feel like complaining take a piece of pen and paper and list out the things, you're grateful for.

Part 3: Act- *Heaven helps those who act.*

Tell me who you hang out with, I'll tell you who you are. There are two kinds of people toxic people and nourishing people. Toxic people dwell on the negative, they drag you down, they suck all the positive energy out of you, whereas nourishing people are positive and supportive and they make you feel better. Stop spending time with toxic people and surround yourself with nourishing people. We become what we surround ourselves with.

Remember when you're kid and learned to ride a bicycle? You failed many times but never gave up because of that you can ride a bike. Successful people have learned to fail their way to success, it is a necessary part of the road to victory. Remember that there is no such thing as failure until you completely give up. The more you build network and relationships, the greater opportunities for success you have. To build your network you should have a positive attitude and participate actively in groups. Serve other in your network, when you give, you will receive.

Confront your fears and grow If you want to be successful, you must be willing to be uncomfortable. To achieve your goals, step out from your comfort zone. If you know something is necessary to get what you want in life, you have to face your fears. There is a high cost coming from backing away from your fears. It lowers your self-esteem; makes you feel frustrated and you will never be highly successful. One thing that is common with all these self-development books is that they recommend you to fail. If you avoid failing you can't learn new skills.

Be a good listener, treat everyone as important, meet different people and willing to go out of your comfort zone. Thank and congratulate people who are part of your network.

"Act as if it were impossible to fail"

-Dorothea Brande.

Final thoughts, play on one string you have- "Your attitude". Believe in yourself. Have the courage and persistence to follow your dreams. And above all, never forget that "ATTITUDE IS EVERYTHING".

WOMEN EMPOWERMENT

India, is known as a great country of many cultures, traditions, religions and is a developing country. With a total population of 136.6 crores, and the total literacy rate being 64.8%, out of which the male literacy rate is 75.3% and the female is 53.7%. Showing a gap of 21.6 % between the sexes at the national level. Wondering where am I getting at? Well, with 48% of the whole Indian population being women and using sobriquet, "Bharat matha" to personify our country, are women just given the glorification for namesake and nothing else?

Though access to education has increased in India, and there is definitive progress to overall increase in literacy, we can't deny the fact that gender discrimination still persists in India. Our whole country, jobs, societies and radicals will gain from the execution of programmes and policies that embrace concept of educating women to empower them. It is important that every parent, educators, neighbours, and every individual understand these concepts and moves towards it and not away.

Not just for the personal growth for women, empowering women and educating them will overall increase the growth of the country. Keeping that in mind, "beti bachao, beti padhao" shouldn't be just a statement to get by, but be implemented in

Pandit Jawaharlal Nehru once said: "If you educate a man, you educate an individual, however, if you educate a woman, you educate a whole family. Women empowered means mother India empowered". He strongly believed that to strengthen the national economy, women who contribute almost half of the Indian population should be empowered and Education is considered as an important milestone for empowering women, as it enables them to acknowledge the challenges thrown at them, and improve their lifestyle.

It is important for to understand Education for women is necessary for the very development of a society, since it enhances both the quality and the quantity of human resources and lifestyle. Understanding it is the first and easy step which will help us reach all the other steps. Empowerment is one of the main procedural concerns when addressing human rights and development.

4. Rohith Mahadevan- 4th year A section ARTICLE

Businesses and data driven decisions

Data Science has become a fantasizing term in the present technological world. It paves a way to take smart solutions for existing problems by optimizing the use of resources. We are using Data Science unknowingly in our day-to-day life. For instance, before we buy a product we check for its recommendation, comments and sometimes we directly ask our known circle about the product. Considering all the factors we might or might not buy the product. Now, you can ask me 'WHERE IS DATA SCIENCE IN THIS?' The answer is simple, what we just did is known as exploration. We checked the data (comments), asked for user feedback (talks with peers) and checked the internet about the product description. This may sound simple, but those data collectively contributed towards making a decision of whether to buy the product or not. Businesses use this methodology; considering many factors they use data science to make data-driven decisions. Data Science is not only making decisions based on past data. It is all about how well the decision supports the claim. There are some cases where the decision could go wrong. That's why it is vital for the team to carefully analyze the factors before making decisions that drive the company.

Data-driven decisions are always huge and we don't rely on one factor. Pattern recognition plays an essential role in making businesses thrive towards success. Imagine, a company producing Ice creams. If we plot the sales and profit of the product, we can experience high sales and profit during the summer season and less in the winter season. It is evident that people prefer the item more in summer than in winter. But can we conclude this by taking only one year of data? A good data science team should analyze and test the pattern for the previous years too. If the pattern continues, we can say that the company can invest a lot of amounts during summer and less during winter.

Pattern recognition and analytics find their root in mathematics, the backbone of Data Science. The data decisions are made by critical thinking and refactoring the existing systems. In the marathon of taking decisions, modern companies use three different core capabilities: Data Proficiency, Analytics Agility, and Community. Transforming the raw data into something that makes sense is the underlying motto of every problem. This dedicated transformation in developing and refining the existing problems contribute towards revenue in business. Government policies and ideas to support data-driven decisions have extended far. Risk factor analysis and fraud detection in cyber lines help the government to take precautionary actions against terrorism and threats. Data Science with its core agility has extended its arms to almost every field. It does not restrict only to simply programming and computer science but it is beyond our imagination.

I would compare Data Science with space exploration. What we know is only a handful and there is a universe to explore. Data science is suitable for anyone who has an analytical mind, critical thinking, wide spectrum of knowledge in their respective domain (Domain experts), excellent communication skills with the ideology of presenting the problems to stakeholders and convincing them. Hence, to sustain in this modern world of data, we have to know a bit of Data Science. Though we don't work in that domain, understanding Data Science will help us to make smart decisions irrespective of the domain. It has become a custom for companies to adopt thriving technologies. Thus, in order to not get outdated, we have to make sure that we stay updated.

CLUBS



CSE Clubs- coordinator:
Ms. S. P. Valli,
Assistant Professor (Sel. Gr.)



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Ms. C. Vijayalakshmi,
Assistant Professor (Sr. Gr.)



Multimedia & IOT club:
Ms. R. Akila,
Assistant Professor (Sr. Gr.)



Code club:
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Ms. Madhina Banu,
Assistant Professor



Social Awareness Club:
Ms. S. Subhashini,
Assistant Professor



Open-source club:
Mr. Manoj Kumar D. S.,
Assistant Professor



ACM chapter in-charge:
Mr. V. Balaji,
Assistant Professor

Faculty Achievements and Awards

Dr. E. Syed Mohamed

Best Paper Award in the IEEE Sponsored International Conference on Emerging Trends in Industry 4.0 (2021 ETI 4.0) organized by the OP Jindal University (OPJU), Raigarh, India during 19 – 21, May 2021

Received National level Award “Best Teaching Faculty-2020” by Dr. Kalam Educational Trust, Chennai, March 2021.

A Special Lecture on “Research Software Tool-Honest Publication” on 3rd April 2021 (Online mode) Organized by conducted by the Center for Energy, Sponsored Projects, Integrated Research and Consultancy, B.S.A. Crescent Institute of Science & Technology, Chennai.

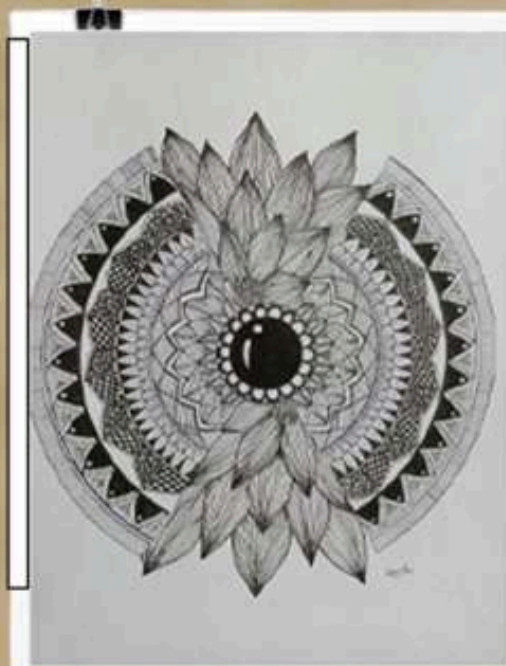
Mrs. Subhashini.S

Received “Bharathi Kanda Puthumai Pen Award for social service” from Volunteers for Humanity (V4H), 6 March 2021.

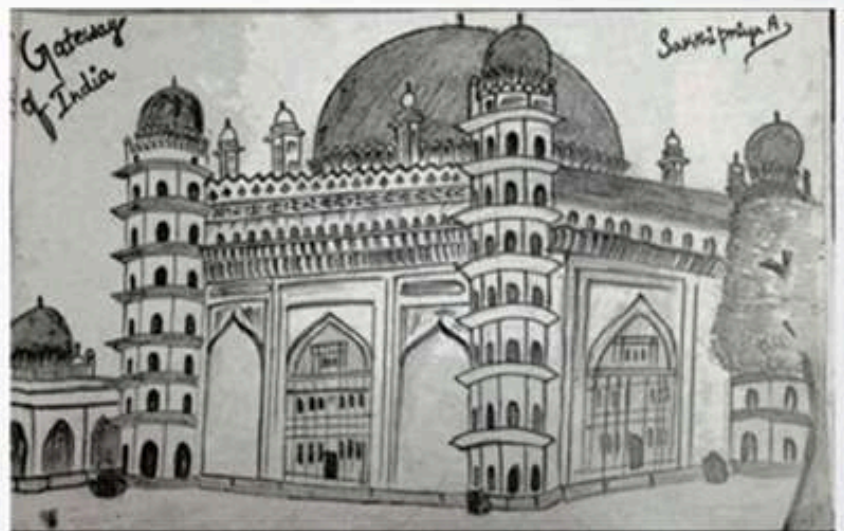
PHOTO GALLERY



ART WORKS:



Vaddi Harshita
CSE C 3rd Year



Sakthi priya
CSE C



*Rohith Mahadevan
CSE A 4th Year*

*Rehna Haseena TJ
CSE C 3rd Year*

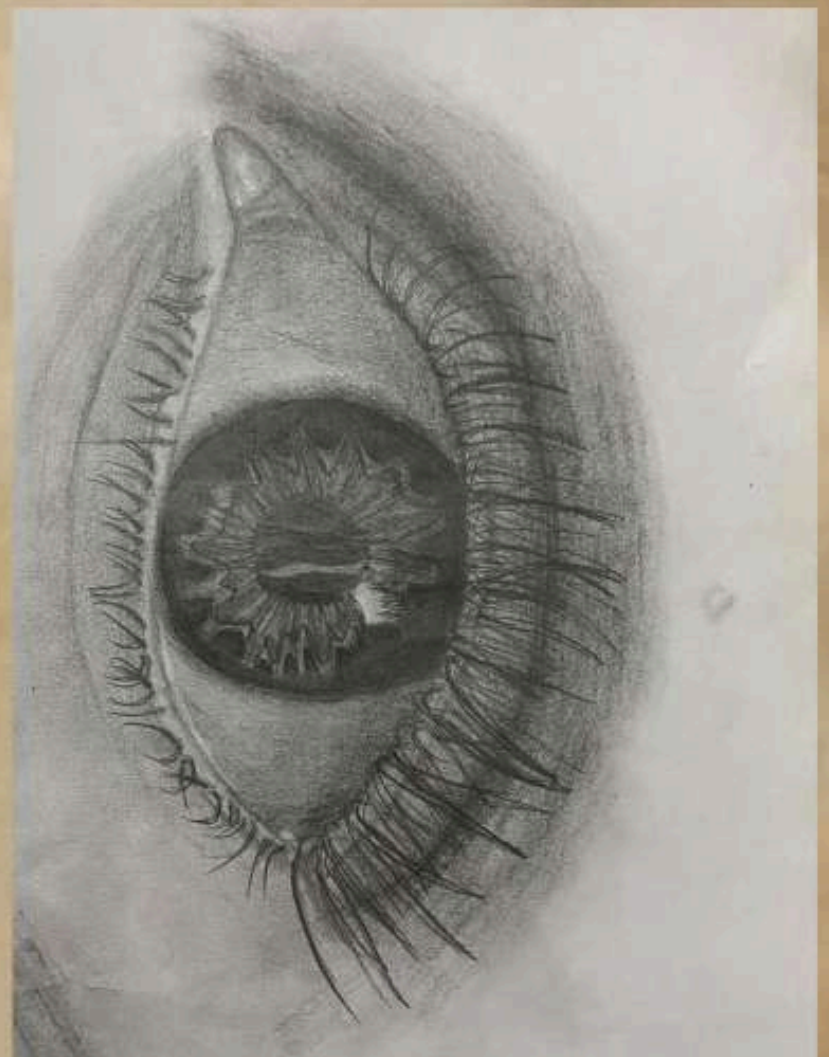


PHOTO WORK:



PORTRAIT SHOT BY:

Seyed Sadak Fahim s.h

CSE A 3rd year

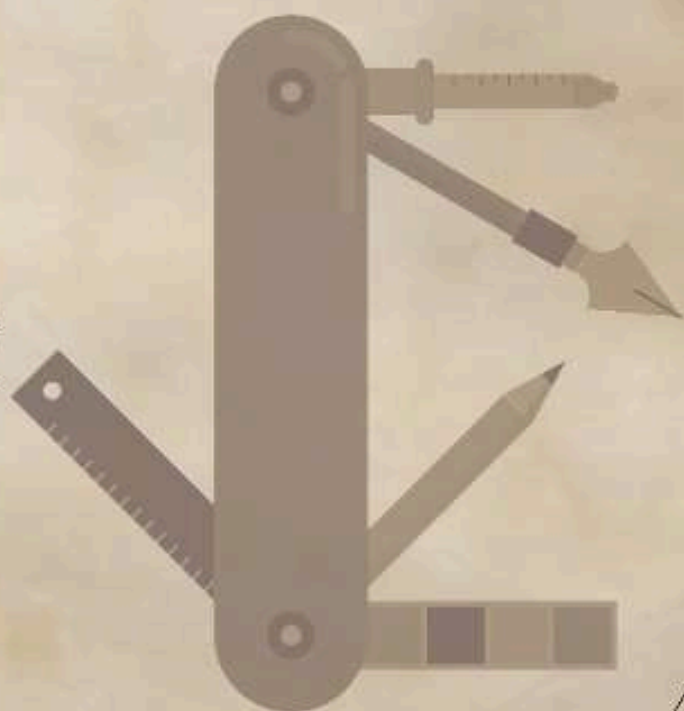
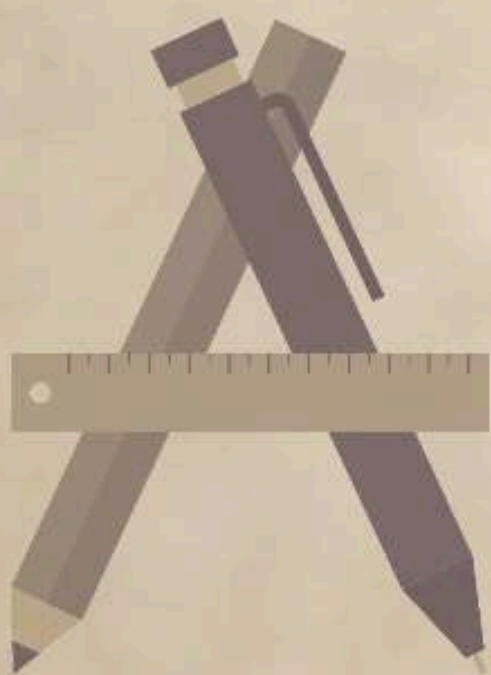
LANDSCAPE SHOT BY:

Muhammad Arshad

CSE C 3rd year



EDITOR'S NOTE



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STAFF CO-ORDINATORS



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Assistant Professor

STAFF CO-ORDINATORS



Dr. B. Dhanalakshmi
Assistant Professor

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dream on
little dreamer

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4. Yashini V.S- CSE C 2nd year



Editorial writer

5. Namrata- CSE A 2nd year



Editorial writer

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S. SHARUKH KHAN - 3rd year CSE C
AZIZ HIRANI - 2nd year CSE

Editor's note:

The third edition of 'Readme.txt' has been a wonderful experience to put together. The magazine celebrates our achievements and is an initiative to showcase the students and faculty members of the CSE department and their diverse and extraordinary talents.

Working as the editor-in-chief for the third edition of the department magazine has been an honor and unique experience. During these tumultuous times, publishing this issue would not have been possible without the hard work of the students and staff members who have helped put this magazine together.

I take this opportunity to extend my heartfelt gratitude to Radhika ma'am and Dhanalakshmi ma'am who has always been a pillar of support and guidance. We hope to bring better editions of the magazine in the future that fully explore our multifaceted department. After months of brainstorming, compiling, and editing, my team and I present to you version three of readme.txt.

