



ST. MARTIN'S ENGINEERING COLLEGE



UGC - AUTONOMOUS



EAMCET/ICET CODE: MRTN

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STATE BANKING OF INSTITUTIONS
ON INNOVATION ACHIEVEMENTS



#INCLUDE

<NEWSLETTER.IT >

VOLUME-2

VERSION-1 JUNE'2023

COVER PAGE

**DEPARTMENT
OF
INFORMATION TECHNOLOGY**








**ST. MARTIN'S
ENGINEERING COLLEGE**

JUNE 2023

www.smec.ac.in



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GROUP DIRECTOR



Dr. P. Santosh Kumar Patra

It gives me a great pleasure that the *Department of INFORMATION TECHNOLOGY* has come a long way as it was established in the year 2007 with an intake of 60, and subsequently it increased to an intake of 180 in the A.Y.2020-2021. The **#INCLUDE<NEWSLETTER.IT>** has been introduced, and I am very much looking forward to reading it. Under Dr.V K Senthil Ragavan's direction, the Department has advanced significantly. I congratulate the IT Department for achieving 100% placement and for conducting Guest Lectures, FDPs, Seminars, STTPs, Conferences, Industrial Visits, Workshops, Webinars and Student Chapter Activities in this academic year (2023-2024). This academic year (2022-23) Department of IT conducted various events like Guest Lectures, Webinars, Industrial Visits, Workshops, FDPs, Seminars, Conferences and MoUs in online and offline modes. Various Research papers were published by the faculties and students in several National and International journals which includes UGC Care, Scopus, SCI & IEEE.



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HOD - IT



Dr. V K Senthil Ragavan

Welcome to the Department of Information Technology, SMEC, Secunderabad. We, the Department of Information Technology, feel our enthusiasm to publish the third issue of our departmental newsletter, "#INCLUDE <NEWSLETTER.IT>". It is a great platform for our students and faculties to showcase their achievements and skills, where they can publish their curricular and co-curricular activities and achievements.

I, as a Head of the Department, would like to thank all the faculty members and students for their limitless support and sincere efforts for the betterment and development of the Department. On this occasion, I congratulate all the team members of the editorial board for bringing up this issue in a better shape.

BEST WISHES



Greetings

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FACULTY



Dr. N Krishnaiah
Professor

We are extremely happy to be releasing the quarterly newsletter. It is a matter of great pride and satisfaction to bring out the newsletter. This is the third edition of the newsletter that report the significant activities carried out by the students, faculty members, and alumni in the areas of teaching and learning, research and development, and industry interaction. In SMEC, excellence is embedded in everything we do right, from teaching and learning to research and development. I appreciate the efforts put in by the editorial board, faculty members, and students to bring out the newsletter.

Dear fellow alumni and department community, I'm delighted to share the exciting news that I've secured a wonderful job opportunity thanks to the invaluable support from our college Principal and the Training and Placements Office. I am immensely grateful for the knowledge and experiences gained during my time in our department, which have paved the way for this milestone. My heartfelt appreciation goes to the faculty, friends, and the entire department for their unwavering support. I look forward to upholding our department's legacy as an alumnus and contributing to its continued success.

Thank you all for being a part of my journey.

ALUMNI



KURAPATI YASHWANTH SRIVASTHAVA
58.00 LPA



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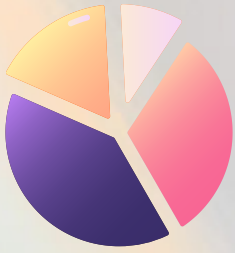
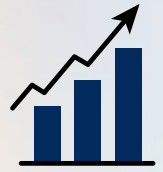


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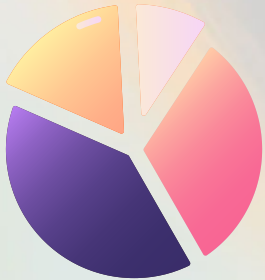


HIGHLIGHTS



**STUDENT'S PLACEMENTS**

S.NO	COMPANY NAME	PACKAGE	NO.OF STUDENTS
1	PALOALTO	58.00 LPA	1
1	AXIOM IO	6.00 LPA	2
2	VIRTUSA	5.50 LPA	8
3	AIZEN ALZO	5.00 LPA	2
4	COGNIZANT	4.00 LPA	2
5	EVOKEs	4.50 LPA	2
6	DHRUVSOFT	3.25 LPA	4
7	RINEX	4.00 LPA	6
8	BYJU'S	7.00 LPA	6
9	SAVANTIS	3.25 LPA	5
10	SKILL DUNIA	5.00 LPA	5
11	SUTHERLAND(NV)	2.50 LPA	4
12	CONNECT	2.00 LPA	4
13	MAINTTEC	3.25 LPA	3
14	QSPIDERS	4.80 LPA	2
15	SUTHERLAND	2.50 LPA	2
16	PROLIFICS	4.00 LPA	2
17	SMARTIMS	4.19 LPA	2
18	PENTAGON SPACE	3.50 LPA	2
19	INFOR	8.00 LPA	2
20	MOVATE	3.20 LPA	1
21	SPRINGLONGIX SOFTWARE PRIVATE LIMITED	3.00 LPA	1
22	GENPACT	3.00 LPA	1
23	CADMAXX	3.00 LPA	1
24	C3I SUPPORT SERVICES (OFF CAMPUS)	3.00 LPA	1



STUDENT'S PLACEMENTS

FOURTH YEAR



**KURAPATI YASHWANTH
SRIVASTHAVASA
58.00 LPA**



**ANEM DURGA PRASAD SENAPATHI
5.00 LPA**

**NAMRATHA SHIVANI NUTHI
5.00 LPA**



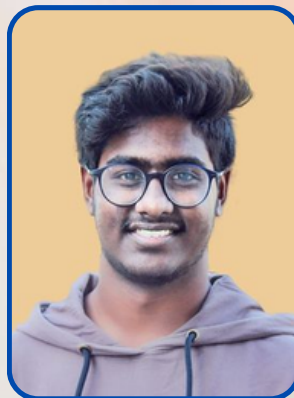
GURRAM ANUTEJA REDDY
4.50 LPA



L KIRANMAYI VARMA
4.50 LPA



YENAGANDULA HARSHITHA
3.25 LPA



TIRUNAGARI MUKESH
3.25 LPA



KOTA SNEHA
3.25 LPA



KADARI SHIVANI
4.00 LPA



SHIVANI SURKANTI
4.00 LPA



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FACULTY CORNER

FACULTY PUBLICATIONS



Dr. V K Senthil Ragavan (Professor & HoD)

JOURNAL :

- Journal of Intelligent & Fuzzy Systems, Special issue on "Digital Twin and Container Network Technology for IoT: Advancements and Applications", SCI Indexed Journal.
- Soft Computing, Special Issue on "Soft Computing for Security Optimization", SCI Indexed Journal.

PAPER TITLE:

- "Predicting Difference of Opinion among Lower Court and Supreme Court of India using Neural Choice Modelling".
- "Deep Convolutional Neural Network based Henry gas Solubility Optimization for Disease Prediction in Data from Wireless Sensor Network".

FILED PATENT :

- Price Negotiating Chatbot on E-Commerce website.
- Automated detection of cardiac arrhythmia using RNN.
- Human behaviour analysis using intelligent big data analytics Human behaviour analysis using intelligent big data analytics.
- Lightweight Secure Data Sharing Scheme for Mobile Cloud Computing.
- A K-Medoids based shape clustering method for an articulated design space.
- An Open-Ended Continual Learning for Food Recognition using Class Incremental Extreme Learning Machines.
- Extraction of Main Urban Roads from High Resolution Satellite Images by Machine Learning.
- Blockchain based method for reducing vehicle pollutant emissions.

CONFERENCE :

- A Comparative Study on Facial Expression Recognition.
- Android Based Smart College Management System.

FACULTY PUBLICATIONS

Dr. N. KRISHNIAH

Academic Coordinator 1 & IQAC Coordinator

PATENT : IoT in Artificial Intelligence Based on Detection and Prevention of Thyroid Disease on Hormone Level Using Data Mining Techniques And Machine Learning for Health Care Management.

BOOKS PUBLISHED :

- Computer Graphics
- Principles of Compiler Constructions.



Dr. R. NAGARAJU

JOURNAL :

- Attack Prevention in the IOT through a hybrid mechanism and deep learning framework.

PATENT: An Intelligent method for Defect recognition in additive manufacturing using image processing based on IOT and AI Prediction prospect of getting admission to a university using Machine Learning Co-relation Evaluation of Economic Signs and Inventory Charge Fluctuations Primarily based totally Fitness and Diet recommendation using C4.5 decision tree model.

BOOKS PUBLISHED :

- An enhanced methodology of deep learning of image identification.
- Big Data Analytics.
- Web Programming.

CONFERENCE :

- A Taxonomy towards Blockchain computing for resource security.
- A Detailed Investigation of Potential Impact of Quantum Computing on improving Artificial Intelligence.

FACULTY PUBLICATIONS



Dr. B LAXMI KANTHA Professor, Department of IT, Organizing Faculty Development Coordinator, published books "Data Communication and Network" and "An Enhanced Methodology of Deep Learning for Image Image Identification".

V.CHANDRA PRAKASH, Assistant Professor, Dept. of IT. He is a JNTUH Attendance Co-ordinator from the Dept. of IT, published a Research paper "A Taxonomy towards block chain-based Multimedia content Security".



A. BHASHA, Assistant Professor, Dept. of IT. He is an Exam Branch Coordinator for the Dept. of IT, published a Research paper "A Review of CPS Security Technologies, Application and Defense".

VEERESH KUMAR SALVADI, Assistant Professor, Dept. of IT. He is the Sports Coordinator for Dept. of IT. Published a Research paper "A review of machine learning techniques for processing".



FACULTY PUBLICATIONS

T. SURESH, Assistant Professor, Dept. of IT. He is an Exam Branch Coordinator for the Dept. of IT. Published a book "Web Programming" and a Research paper "Stock Market Price Prediction Using Deep Learning Approach".



P.ALXENDER, Assistant Professor, Dept. of IT. He is a Mento - Mentee Co-ordinator from Dept. of IT, published the book "Data Communication and Network" and a Research paper "Evaluation of E - learning using EDAS Method".

K.RADHA, Assistant Professor, Dept. of IT, published the book "Algorithm Design and Analysis" and a Research paper "An evaluation of Operating System Using Fuzzy ARAS Method".



M.HARI KUMAR, Assistant Professor, Dept. of IT, published a Research paper "Generic Algorithm Decision Making based on the COPRAS Method Approach".

FACULTY PUBLICATIONS

G.SATHISH, Assistant Professor, Dept. of IT, is the Placement Coordinator & AICTE & JNTUH Coordinator for the Dept of IT, published a patent "Providing privacy and security for netzines database using blockchain" and a Research paper "Communication and Use of Intelligent Humanoid Nurse Robots".



M.SANDHYA RANI, Assistant Professor, Dept. of IT, She is a Timetable Co-ordinator from Dept. of IT, published the books "Web Programming" and "Principles of Programming Language" and a Research paper "Analysis of Autonomous Maintenance system using WPM MCDM Method".

T.BHARGAVI, Assistant Professor, Dept. of IT, as a Department Events & Cocurricular Activities Coordinator & Library Incharge. Published book "Software Engineering" and a Research paper "A Taxonomy towards blockchain-based Multimedia content Security".



B.LAKSHMI NARAYANA, Assistant Professor, Dept. of IT, published a Research paper "VIKOR method: A case study of the Electronic Medical Records (EMRs) software".

FACULTY PUBLICATIONS

A.SRAVANI, Assistant Professor, Dept. of IT, published a Research paper "Machine Learning- Nano Composites - Optimization".



B.SAMPATH KUMAR, Assistant Professor, Dept. of IT, the published book "Power Electronics" and a Research paper "Load flow analysis of power system".

PRIYANKA DASH, Assistant Professor, Department of IT, She is a Coordinator, and Pursuing a Ph.D. in CSE at GIET University, Odisha, Published a Research paper "An Empirical research in software testing in fuzzy TOPSIS method".





FACULTY CORNER



Mrs.G.Sandhya
(Assistant Professor)
News Letter Incharge 2



Mrs.B.Ganga Bhavani
(Assistant Professor)
Event Coordinator 2



Mr.K.Yadagiri
(Assistant Professor)
Overall Lab Incharge 2



Mrs.Surya Kanthi
(Assistant Professor)
Industrial Visit Incharge 2



Mr.S.Karthikraj
(Assistant Professor)
Dept Call Register I/C



Mr.M.Ramesh
(Assistant Professor)
Floor Duty Coordinator 1



FACULTY CORNER



Mr.A.BHEEMRAJ
(Assistant Professor)
Event Coordinator 3



Mr.G.Prabakaran
(Assistant Professor)
Placement Coordinator 3



Ms.K.Neelima
(Assistant Professor)
Floor Duty Coordinator 2



Mrs.K.Venkata Tirugopala Reddy
(Assistant Professor)
Overall Lab Incharge 1



Faculty Achievements

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL
National Conference
on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)
CERTIFICATE
This is to certify that G. Prabhakaran
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Determining the
Nutritional Content of dishes in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

Dr. J. Jegan Convener ACEM
Dr. K. Sathish Babu Principal ACEM
Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL
National Conference
on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)
CERTIFICATE
This is to certify that Ganga Bhavani
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Intrusion Detection System
Ddos Attacks using Machine Learning Algorithm on cloud Computing in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

Dr. J. Jegan Convener ACEM
Dr. K. Sathish Babu Principal ACEM
Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
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National Conference
on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)
CERTIFICATE
This is to certify that M. Sandya Rani
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Business resilience system
integrated artificial intelligence system in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

Dr. J. Jegan Convener ACEM
Dr. K. Sathish Babu Principal ACEM
Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL
National Conference
on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)
CERTIFICATE
This is to certify that Rheemraj
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Business Resilience
System integrated artificial intelligence system in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

Dr. J. Jegan Convener ACEM
Dr. K. Sathish Babu Principal ACEM
Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
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National Conference
on
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(NCCISSET 2023)
CERTIFICATE
This is to certify that Veeresh kumar
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Reliability of Web
information Content by using Machine Learning in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

Dr. J. Jegan Convener ACEM
Dr. K. Sathish Babu Principal ACEM
Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL
National Conference
on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)
CERTIFICATE
This is to certify that S. Karthik Raj
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Determining the
Nutritional Content of Dishes in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

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Dr. K. Sathish Babu Principal ACEM
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Faculty Achievements

ADITYA COLLEGE OF ENGINEERING
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 RESEARCH & DEVELOPMENT CELL

National Conference
 on
 "Contemporary Issues in Science, Engineering and Technology"
 (NCCISSET 2023)

CERTIFICATE

This is to certify that B. Lakshmi Narayana
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Black chain based
Architecture and Secure Digital payments in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

J. Jegan Dr. J. Jegan Convener ACEM
K. Sathish Babu Dr. K. Sathish Babu Principal ACEM
S. Ramalinga Reddy Dr. S. Ramalinga Reddy Director ACEM

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CERTIFICATE

This is to certify that P. Alexander
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Using Linear
Regression Model prediction of Rainfall in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

J. Jegan Dr. J. Jegan Convener ACEM
K. Sathish Babu Dr. K. Sathish Babu Principal ACEM
S. Ramalinga Reddy Dr. S. Ramalinga Reddy Director ACEM

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 RESEARCH & DEVELOPMENT CELL

National Conference
 on
 "Contemporary Issues in Science, Engineering and Technology"
 (NCCISSET 2023)

CERTIFICATE

This is to certify that Chandraprakash
 from St. Martin's Engineering college, Hyderabad of CSE
 Department has presented a paper entitled Decision trees: a Machine learning
methodology for Characterizing morphological patterns resulting ecological adaption in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

J. Jegan Dr. J. Jegan Convener ACEM
K. Sathish Babu Dr. K. Sathish Babu Principal ACEM
S. Ramalinga Reddy Dr. S. Ramalinga Reddy Director ACEM

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 (NCCISSET 2023)

CERTIFICATE

This is to certify that Venkat Reddy
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Intrusion detection system for DDoS
attacks using machine learning algorithm on Cloud computing services in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

J. Jegan Dr. J. Jegan Convener ACEM
K. Sathish Babu Dr. K. Sathish Babu Principal ACEM
S. Ramalinga Reddy Dr. S. Ramalinga Reddy Director ACEM

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 (NCCISSET 2023)

CERTIFICATE

This is to certify that B. Ramesh
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled pre-existing energy -
Efficient and secure Routing in a mobile Adhoc Network in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

J. Jegan Dr. J. Jegan Convener ACEM
K. Sathish Babu Dr. K. Sathish Babu Principal ACEM
S. Ramalinga Reddy Dr. S. Ramalinga Reddy Director ACEM

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CERTIFICATE

This is to certify that M. Ramesh
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Determining the
Nutritional Content of Disks in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

J. Jegan Dr. J. Jegan Convener ACEM
K. Sathish Babu Dr. K. Sathish Babu Principal ACEM
S. Ramalinga Reddy Dr. S. Ramalinga Reddy Director ACEM



Faculty Achievements

ADITYA COLLEGE OF ENGINEERING
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 RESEARCH & DEVELOPMENT CELL

National Conference
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(NCCISSET 2023)

CERTIFICATE

This is to certify that K.Neelima
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Business Resilience
System Integrated Artificial Intelligence System in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
 Dr.J.Jegan Convener ACEM Dr.K.Sathish Babu Principal ACEM Dr.S.Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
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National Conference
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(NCCISSET 2023)

CERTIFICATE

This is to certify that K.Yadagiri
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Decision trees: a Machine
Learning methodology for characterizing morphological patterns in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
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[Signature] [Signature] [Signature]
 Dr.J.Jegan Convener ACEM Dr.K.Sathish Babu Principal ACEM Dr.S.Ramalinga Reddy Director ACEM

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National Conference
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(NCCISSET 2023)

CERTIFICATE

This is to certify that Susyanthi
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Intrusion detection Systems for
Ados attacks using Machine Learning algorithms On cloud Computing in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
 Dr.J.Jegan Convener ACEM Dr.K.Sathish Babu Principal ACEM Dr.S.Ramalinga Reddy Director ACEM

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CERTIFICATE

This is to certify that B.Sampath kumar
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Reability of web
information Content by using machine learning in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
 Dr.J.Jegan Convener ACEM Dr.K.Sathish Babu Principal ACEM Dr.S.Ramalinga Reddy Director ACEM

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CERTIFICATE

This is to certify that A. Srujan
 from St. Martin's Engineering College, Hyderabad of Cse
 Department has presented a paper entitled Block chain based
Architecture and Secure digital payments in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
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[Signature] [Signature] [Signature]
 Dr.J.Jegan Convener ACEM Dr.K.Sathish Babu Principal ACEM Dr.S.Ramalinga Reddy Director ACEM

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 Valsapalle(P),Pungunur Road, Madanapalle
 RESEARCH & DEVELOPMENT CELL

National Conference
 on
 "Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)

CERTIFICATE

This is to certify that Dr.B. Laxmi Kantha
 from St. Martin's Engineering College, Hyderabad of CSE
 Department has presented a paper entitled Reability of web
information Content by using machine learning in
 the National Conference on "Contemporary Issues in Science, Engineering
 and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
 Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
 Dr.J.Jegan Convener ACEM Dr.K.Sathish Babu Principal ACEM Dr.S.Ramalinga Reddy Director ACEM



Faculty Achievements

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL

National Conference

on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)

CERTIFICATE

This is to certify that K. Radha
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Reliability of Web
Information Content by using Machine Learning in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
Dr. J. Jegan Convener ACEM Dr. K. Sathish Babu Principal ACEM Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL

National Conference

on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)

CERTIFICATE

This is to certify that T. Suresh
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Identification of Bone
Defectivity using Machine Learning in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
Dr. J. Jegan Convener ACEM Dr. K. Sathish Babu Principal ACEM Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL

National Conference

on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)

CERTIFICATE

This is to certify that T. Bhargavi
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Block chain based
Architecture and Secure digital payments in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
Dr. J. Jegan Convener ACEM Dr. K. Sathish Babu Principal ACEM Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL

National Conference

on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)

CERTIFICATE

This is to certify that M. Hari Kumar
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Using Linear Regression
Model Prediction of Rainfall in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
Dr. J. Jegan Convener ACEM Dr. K. Sathish Babu Principal ACEM Dr. S. Ramalinga Reddy Director ACEM

ADITYA COLLEGE OF ENGINEERING
RESEARCH & DEVELOPMENT CELL

National Conference

on
"Contemporary Issues in Science, Engineering and Technology"
(NCCISSET 2023)

CERTIFICATE

This is to certify that G. Sathish
from St. Martin's Engineering College, Hyderabad of CSE
Department has presented a paper entitled Identification of Bone
Defectivity using Machine Learning in
the National Conference on "Contemporary Issues in Science, Engineering
and Technology" (NCCISSET 2023) held at Aditya College of Engineering,
Madanapalle on 23rd & 24th June 2023.

[Signature] [Signature] [Signature]
Dr. J. Jegan Convener ACEM Dr. K. Sathish Babu Principal ACEM Dr. S. Ramalinga Reddy Director ACEM

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Paper ID: NCCISSET-23-144

This certificate is awarded to
Mr. Suresh Talwar
From
St. Martin's Engineering College
He/She has participated and presented paper on Review of Data Integrity in Cloud Storage in International Conference on "Recent Innovations in Computer Engineering & Information Technology" (ICRICEIT-23) on 24th & 25th Feb 2023, Organized by Department of Information Technology, St. Martin's Engineering College, Dhanpalay, Secunderabad, T.S, India.

[Signature]
Dr. R. Nagaraja Convener & HOD (IT)

[Signature]
Dr. P. Santosh Kumar Patra Patron, Program Chair & Principal



Faculty Achievements

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Certificate of Participation

This is to certify that
Dr. V K Senthil Ragavan
Professor and HoD in Dept. of IT
St. Martin's Engineering College
participated in Three Day National Level Online FDP on
"Research Pedagogy and Contemporary Research"
Organized by Research and Development Cell,
St. Martin's Engineering College,
from 21st to 23rd June 2023.

Dr. P. Pavan Kumar
Coordinator, SMEC, INDIA.

Dr. Sanjay Kumar Suman
Convener, SMEC, INDIA.

Dr. P. Santosh Kumar Patra
Patron & Group Director, SMEC, INDIA.

St. MARTIN'S ENGINEERING COLLEGE
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Certificate of Participation

This is to certify that
T.Bhargavi
Assistant Professor in Dept. of IT
St. Martin's Engineering college
participated in Three Day National Level Online FDP on
"Research Pedagogy and Contemporary Research"
Organized by Research and Development Cell,
St. Martin's Engineering College,
from 21st to 23rd June 2023.

Dr. P. Pavan Kumar
Coordinator, SMEC, INDIA.

Dr. Sanjay Kumar Suman
Convener, SMEC, INDIA.

Dr. P. Santosh Kumar Patra
Patron & Group Director, SMEC, INDIA.

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Certificate of Participation

This is to certify that
GANNERAPU SANDHYA
Assistant professor in Dept. of IT
St. Martin's Engineering College
participated in Three Day National Level Online FDP on
"Research Pedagogy and Contemporary Research"
Organized by Research and Development Cell,
St. Martin's Engineering College,
from 21st to 23rd June 2023.

Dr. P. Pavan Kumar
Coordinator, SMEC, INDIA.

Dr. Sanjay Kumar Suman
Convener, SMEC, INDIA.

Dr. P. Santosh Kumar Patra
Patron & Group Director, SMEC, INDIA.

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Certificate of Participation

This is to certify that
B Ganga Bhavani
Assistant Professor in Dept. of Information Technology
St. Martin's Engineering College
participated in Three Day National Level Online FDP on
"Research Pedagogy and Contemporary Research"
Organized by Research and Development Cell,
St. Martin's Engineering College,
from 21st to 23rd June 2023.

Dr. P. Pavan Kumar
Coordinator, SMEC, INDIA.

Dr. Sanjay Kumar Suman
Convener, SMEC, INDIA.

Dr. P. Santosh Kumar Patra
Patron & Group Director, SMEC, INDIA.

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Certificate of Participation

This is to certify that
Kotoju neelima
Asst professor in Dept. of information technology
St. Martin's
participated in Three Day National Level Online FDP on
"Research Pedagogy and Contemporary Research"
Organized by Research and Development Cell,
St. Martin's Engineering College,
from 21st to 23rd June 2023.

Dr. P. Pavan Kumar
Coordinator, SMEC, INDIA.

Dr. Sanjay Kumar Suman
Convener, SMEC, INDIA.

Dr. P. Santosh Kumar Patra
Patron & Group Director, SMEC, INDIA.

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Certificate of Participation

This is to certify that
K.Suryakanthi
Asst. Professor in Dept. of IT
St. Martin's Engineering College
participated in Three Day National Level Online FDP on
"Research Pedagogy and Contemporary Research"
Organized by Research and Development Cell,
St. Martin's Engineering College,
from 21st to 23rd June 2023.

Dr. P. Pavan Kumar
Coordinator, SMEC, INDIA.

Dr. Sanjay Kumar Suman
Convener, SMEC, INDIA.

Dr. P. Santosh Kumar Patra
Patron & Group Director, SMEC, INDIA.

4th INTERNATIONAL CONFERENCE ON ENGINEERING AND ADVANCEMENT IN TECHNOLOGY - 2023

ORGANIZED BY
Malla Reddy Institute of Engineering and Technology
Plattamangudi, Gandhinagar(Village) Near Chintalapudi, Madhav, Poligudi (District), Secunderabad - 500 100, Telangana

IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN

IN ASSOCIATION WITH
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.

Certificate of Presentation

This is to certify that Mrs/Mrs/Dr. Dr. V K Senthil Ragavan from St. Martin's Engineering College, Hyderabad has presented a paper titled A Comparative Study on Facial Expression Recognition in the "4th International Conference on Engineering and Advancement in Technology" held on 16th & 17th June 2023.

Dr. Akhatar Akmal Rastamovich
Dr. Christo Ananth
Dr. Maram Ashok
Dr. B. Dhanalakshmi
Dr. P. Aravindhan
Dr. A. Krishnamoorthy

Bharath INSTITUTE OF HIGHER EDUCATION AND RESEARCH

CERTIFICATE OF PRESENTATION

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
INTERNATIONAL CONFERENCE ON
RECENT ADVANCES IN SCIENCE, ENGINEERING & TECHNOLOGY
25th & 26th MAY 2023 | BIHER, CHENNAI, TAMILNADU

This is to Certify that Dr. V. K. SENTHIL RAGAVAN of ST. MARTIN'S ENGINEERING COLLEGE Presented his/her research paper titled Android Based Smart College Management System in the "International conference on Recent Advances in Science, Engineering and Technology (ICRASET)" Organised by Bharath Institute of Higher Education and Research, Selaiyur, Tambaram, Chennai on 25th & 26th MAY 2023.

Dr. G. SUDHAGAR
Organizing Chair

Dr. H. UMMA HABIBA
HOD/ ECE

Dr. M.K.ILAMPOORNAN
DEAN /SEE



Faculty Achievements

International Award Conference on Multidisciplinary Research and Latest Innovation-2022

Certificate OF RECOGNITION 20th November 2022

We are delighted to award this certificate to our Proud Awardee:

Dr. V K Senthil Ragavan
Gurukul Academic Awards-2022
for Teaching and Research Excellence

201122354

Jointly Organised by:
J.S. University Mainpuri - Shikohabad Rd, Shikohabad
Uttar Pradesh (India) Approved by : UGC

&

Institute for Social Reforms and Higher Education Charitable Trust, Uttar Pradesh (India)
(Regd. with Govt of India NITI Aayog NGO Darpan,
Department of Income Tax under 12A & 80G
Govt. of UP, MHRD NISCAIR, ISSN Regd, ISBN Regd.)
Regd. No.: IN-UP48261914958470U

NITI Aayog

Congratulation

to appreciate and recognise your great efforts towards strengthening the Nation by promoting education and moral values among the Indian Youth & Students. We are Proud of You !!

Prof. Harimohan Sharma, Dr. Gaurav Yadav, Poojya Rajput, Dr. Abul Kumer Sharma

Dr. V K Senthil Ragavan
HEAD OF DEPARTMENT OF IT
He has received
GURUKUL ACADEMIC AWARDS-2022
For Teaching and Research Excellence



Faculty Achievements



**Mrs.B.Ganga Bhavani
(Assistant Professor)
Event Coordinator 2**





ST. MARTIN'S ENGINEERING COLLEGE

EAMCET/ICET CODE: MRTN



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STUDENT'S CORNER

STUDENT'S CORNER



BENCHES DONATION DRIVE

Event Date: 17 JUNE 2023

Street Cause SMEC organised the "STREET CAUSE BENCHES DONATION DRIVE." The cloth donation campaign was held on the 17th of JUNE, 2023 in the premises of SMEC. Street Cause SMEC had collected 40 benches by the end of the drive. The primary goal of this project was to provide basic necessities, such as clothing, to underprivileged people, with the encouragement of our respected Principal sir and the management of SMEC, the Street Cause benches donation drive has been a success.

With its sincere effort, it completed the drive successfully. The board of Street Cause SMEC has collected a few survey reports, and five locations for donating clothes have been selected. Three orphanages (Ramanjaneya Charitable Trust, Swecha Foundation, and Thara Homes), one old age home (Sri Dharma Sastha old age home), and one slum area (near Mudfort, Secunderabad) are among the five locations. This project affects approximately 400 people and has a total budget of 0 Rupees.

Dr. P. Santosh Kumar Patra sir, Principal of St. Martin's Engineering College, was thanked by the Street Cause SMEC board for providing a bus for cloth donation. They hope to receive similar encouragement and support for Street Cause SMEC's future prospects. "A LIFE WITHOUT STREET CAUSE" has successfully defined its quote.



ADULT DIAPER DONATION

Event Date: 29 APRIL 2023

"STREET CAUSE ADULT DIAPER DONATION DRIVE" was organized by Street Cause - SMEC which was found in the year 2017. It was an inception of Board members of STREET CAUSE, St. MARTIN'S ENGINEERING COLLEGE. This project was only possible due to the constant support of our respected Principal Dr.P.Santosh Kumar Patra Sir. His inspiring and encouraging words have always been a motivation for us to work with a greater determination.

Glimpses of the Event:

"STREET CAUSE ADULT DIAPER DONATION DRIVE", the moto of this project is to provide to the people who are under privileged and bedridden with adult diapers. With the encouragement of our respected Principal Sir and the Management of our college, the STREET CAUSE was able to organize diaper donation.

The board had collected benefactions from members of street cause. By the end of the drive the team has donated a total of 11 boxes of diapers each box contains 120 pieces of large size. The Street Cause - SMEC team have collected few survey reports and three old age homes were finalized to donate the diapers. Those old age homes are Sri matha old age home (New bowenpally), Sai Baba old age home (Sikh village) and Happy old age home (Bowenpally). The number of people impacted are around 120+.

The board of Street Cause SMEC would like to thank Dr. P. Santosh Kumar Patra Sir, Principal of St. Martin's Engineering College and the Management of SMEC for providing bus facility for the project execution. We hope to receive similar kind of encouragement and support towards the future prospects of Street Cause SMEC, because "A LIFE WITHOUT A CAUSE IS A LIFE WITHOUT AN EFFECT".





ST. MARTIN'S ENGINEERING COLLEGE

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EVENTS



FRESHER'S DAY

St. Martin's Engineering College

Event Date : 21-02-2023

Freshers' Day at St. Martin's Engineering College was an event filled with energy, excitement, and various engaging activities. It served as a warm welcome to the new batch of students and provided a platform for them to interact with their seniors and fellow freshers. The departments organized a range of fun activities and performances to create an enjoyable and memorable experience for everyone. Alongside these activities, dances played a significant role in adding vibrancy and entertainment to the event.

The college's dance enthusiasts, including both seniors and juniors, showcased their talent and passion on the Freshers' Day stage. They choreographed and performed captivating dance routines, encompassing various styles such as hip-hop, contemporary, folk, and fusion. These dance performances were met with enthusiastic applause and cheers from the audience, creating an atmosphere of celebration and joy. The vibrant and synchronized movements on stage not only entertained the freshers but also inspired them to explore their own talents and interests.

In addition to the dance performances, several fun activities were organized to engage the freshers and encourage their participation. These activities aimed to break the ice, promote interaction, and foster a sense of camaraderie among the students. Some of the popular fun activities included talent shows, where freshers could showcase their unique abilities, whether it be singing, playing a musical instrument, stand-up comedy, or any other talent they possessed. The audience enthusiastically cheered and supported their fellow freshers, creating an encouraging and inclusive environment.





Other engaging activities were organized to promote teamwork and collaboration. These activities not only allowed the freshers to get to know each other but also gave them an opportunity to bond with their seniors, creating a friendly and supportive atmosphere.

Freshers' Day served as an important milestone in the college journey for the new students, providing them with a positive and memorable introduction to college life. Through the dynamic dance performances and engaging activities, the event successfully created an environment where the freshers felt welcomed, encouraged, and eager to embrace the opportunities ahead.

Overall, Freshers' Day at St. Martin's Engineering College was a vibrant and enjoyable event. The combination of lively dance performances and exciting activities helped foster a sense of belonging and unity among the students, setting the stage for a fulfilling and memorable college experience for the freshers.

Chairman: Sri M. Laxman Reddy Garu.

Executive Director: Sri G. Chandrasekhar Yadav Garu.

Principal : Dr. P. Santosh Kumar Patra Garu and Faculties have participated in the event. Our esteemed Principal, Dr. P. Santosh Kumar Patra, also gave us an insightful address.

TRADITIONAL DAY

The Traditional Day event at St. Martin's Engineering College was a vibrant and culturally rich celebration of India's diverse heritage. Students and faculty members from various departments enthusiastically participated, showcasing the traditional attire, customs, and flavors of different states.

The event began with an opening ceremony, where we welcomed everyone and highlighted the importance of preserving and promoting the country's cultural diversity. The participants were encouraged to embrace and learn from the traditions of the state they were representing.

As part of the IT department, which had Nagaland as its assigned theme, your team put in great effort to bring the essence of Nagaland's culture to life. The department's designated area was beautifully decorated with Naga motifs and traditional elements, creating an immersive ambiance.

The students dressed in traditional Nagaland attire, such as the colorful mekhela and mokokchung, and showcased various aspects of Nagaland's cultural heritage. They organized a display of Naga handicrafts, including intricately designed hand-woven shawls, bamboo artifacts, and traditional Naga jewelry.





To engage the audience further, the IT department organized several activities and performances. They presented a captivating dance performance featuring traditional Naga folk dances, displaying the grace and rhythmic movements unique to the state's culture. Additionally, the team organized a mini-exhibition on Nagaland's indigenous music and showcased the traditional instruments used in Naga music. Food stalls were also set up to offer the visitors a taste of Nagaland's cuisine. Authentic Naga delicacies dishes were prepared and served, allowing everyone to experience the flavors of the state.

The event received an overwhelming response from the college community, with students, faculty, and guests appreciating the efforts put forth by the IT department to represent Nagaland's culture. It provided a platform for everyone to learn about Nagaland's traditions and fostered a sense of unity among the diverse student body. Overall, the Traditional Day event at St. Martin's Engineering College was a resounding success, promoting cultural awareness and encouraging students to embrace and celebrate the rich heritage of different states. The IT department's portrayal of Nagaland added vibrancy and diversity to the event, leaving a lasting impression on all those who attended.





TECHNOVATION

Technovation, organized by the Mechanical Department, was a highly anticipated event at St. Martin's Engineering College. It served as a platform for students from different departments to exhibit their innovative projects, which were the culmination of their hard work, talent, and technical expertise. A total of eight groups from IT Dept. participated in the event, each presenting their projects to a panel of judges and fellow students. The projects spanned a wide range of disciplines, showcasing the diversity of talent and knowledge across the college. The success of the IT department in winning the first prize highlighted the significance of interdisciplinary collaboration. It emphasized the value of combining technical skills with domain-specific knowledge to create innovative and impactful projects.

The Technovation event concluded with an awards ceremony, where the winners were felicitated and applauded for their exceptional projects. The event served as a source of motivation for all participants, encouraging them to continue their pursuit of excellence and innovation.

Overall, the Technovation event organized by the Mechanical Department at St. Martin's Engineering College was a resounding success. It provided a platform for students to showcase their talent, fostered interdisciplinary collaboration, and celebrated the innovative spirit of the college. The IT department's victory with their project on Insurance Management System exemplified the dedication, creativity, and technical prowess of the students.

WINNERS : Dinesh and Team

- Dinesh
- Rajesh
- Siva krishna

PROJECT NAME : Insurance Management System.





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SPORTS SECTION



STUDENTS SPORTS

FOOTBALL

Players Names

- Saurabh - Captain
- Kashyap - Vice Captain
- Chodhary
- Bhavneet
- Ali
- Rameshwar
- Harsh
- Sarvesh
- Sujith
- Mahi Teja
- Md. Ibraheem



- It was for the first time that the football team for IT was formed, lead by Saurabh of IT-2A who plays for the college team along with the team's vice captain Kashyap.
- The team gave a good fight against the defending champions CSE and didn't let them score and match went to penalty shootout where we lost 5-4 to CSE.

STUDENTS SPORTS

FOOTBALL



- Congratulations to Saurabh of IT-2A who apart from St. Martin's Football Team plays for local club PsyDuck 11 FC who won gold Medal in Football Open Tournament in Fortress Arena held on 9 March 2023.
- Here are some football players from IT department who represents our College team St. Martin's Engineering college.
 - Saurabh IT-2A
 - Kashyap IT-3B
 - Sarvesh IT-2B
 - Choudhary IT-1C
 - Bhavneet IT-1B

STUDENTS SPORTS

CHESS



- Congratulations to Varsha of IT-2B for winning chess at Interdepartment chess tournament beating all the participants from other branches.
- Congratulations to J.Upendar for finishing 2nd in chess at Interdepartment chess tournament beating all the participants from other branches.

STUDENTS SPORTS

CRICKET



It's a significant accomplishment and a testament to the hardwork and talent of the players of our IT department. This team exhibited exceptional performance led by Captain Tarun throughout the tournament to emerge as the champions of our Interdepartment tournament held on 23rd of April 2023.



STUDENTS SPORTS

CRICKET

Players Names

- G Bala Tarun Reddy (Captain)
- K Mahi Teja
- J Upendar
- P Vamshi Krishna
- M Tirumal Reddy
- Vishnu Vardan
- A Vishwanath
- V Nitin
- Y Yuganand Sree
- Rohan
- R Navaneeth
- Rusthum
- Pradeep
- Charan Paul
- Harsha Nayak
- Sai Siddharth



Yuganand Sree of IT-2A a remarkable cricketer of our department who also features in our College Cricket team, recently emerged victorious in the FCCT (Federation of Cricket Clubs Tournament) on 24 Jan 2023.

STUDENTS SPORTS

VOLLEYBALL

Players Names

- V. Sandeep
- L.Sravan kumar
- M.Pandit Rathod
- D.Akansh
- V.Rakesh
- E.Venu
- M.Omkar
- R.Mahesh
- K.Vinay Kumar
- M.Bhanu Chander
- B.Sai Teja



Congratulations to R. Mahesh of IT-2A who features in our St. Martin's Volleyball team and won Gold Medal in CBIT Tournament held on 22-23 Feb of 2023.

STUDENTS SPORTS

ATHLETICS



- Congratulations to Rusthum of IT-2B for winning the gold medal in long jump event in interdepartment Athletics.
- Congratulations to J.Suhas Reddy of IT for winning the gold medal in Bronze event in interdepartment Athletics.

TABLE TENNIS



- Congratulations to A.Madhulika of IT for winning Table Tennis at Interdepartment Table-Tennis tournament beating all the participants from other branches.



STUDENTS SPORTS

CRICKET



"Life is game, play it, enjoy it and win it".

Great Support from the management has pushed me to do all the things for the sports and I'll promise to do much more things which makes our department proud.

Regards

IT Sports Co-Ordinator

G BALA TARUN REDDY

FACULTY SPORTS

VOLLEY BALL

Congratulations to our Faculty Volleyball team of IT department for winning the Interdepartmental Volleyball tournament held on 19th April 2023. Their teamwork, perseverance & sportsmanship have truly paid off as they go on to beat all the teams from other branches.

Team List

- M Hari Kumar (Captain)
- S Veeresh Kumar
- B Sampath Kumar
- V Chandra prakash
- Ramesh
- T Suresh
- A Bhasha
- R Naga Raju



TUG OF WAR

Congratulations to our IT department's Faculty for a fantastic performance in the tug of war competition, finishing 2nd in the interdepartment tournament held on 27th April 2023.

Team List

- S Veeresh Kumar
- B Sampath Kumar
- Natarajan
- A Bhasha
- G Sathish
- V Chandra prakash
- Bheem Raj
- Karthikeya



FACULTY SPORTS

ATHLETICS

- Congratulations to Karthikraj of IT for winning the Gold Medals both in 100 metre & 200 metre event in interdepartment Athletics competition held on 27th April 2023.
- Sending round of applause to S Veeresh Kumar of IT for winning Gold Medal in Discuss Throw, Silver Medal in 200 metre & Bronze Medal in 100 metre event in interdepartment Athletics competition held on 27th April 2023.
- Kudos to M Hari Kumar of IT for bagging Gold medals both in Long Jump & Shortput event in interdepartment Athletics competition held on 27th April 2023.

FACULTY WOMEN INDOOR

- Heartiest congratulations to Dr. B Laxmi Kantha of IT on winning the Silver Medal in both faculty (women) Chess & Carrom interdepartment tournament held on 19th April 2023.
- Warmest congratulations to T Bhargavi of IT on winning the Silver Medal in faculty (women) Carrom's interdepartment tournament held on 19th April 2023.



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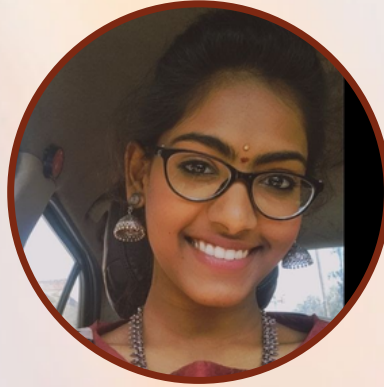
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GALLERY



ART SECTION



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ART SECTION



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(Assistant Professor)

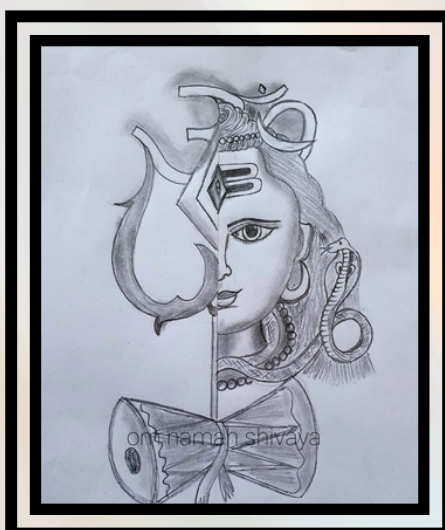
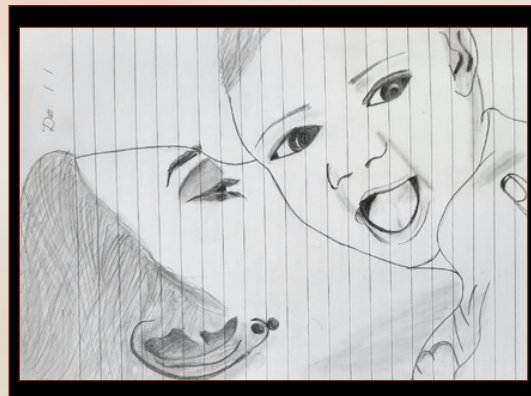




ART SECTION



Mrs. B. Ganga Bhavani
(Assistant Professor)
Event Coordinator 2

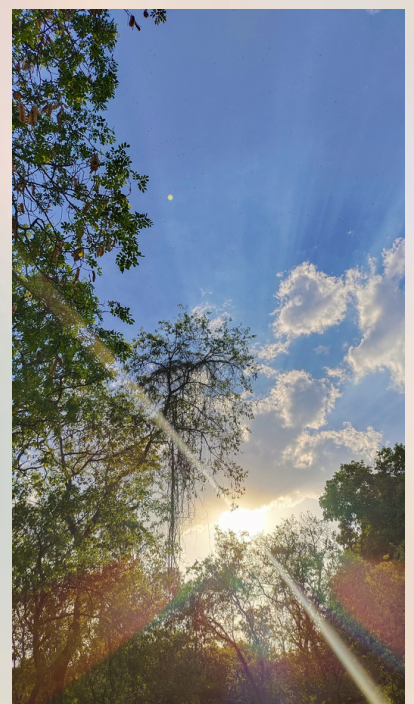
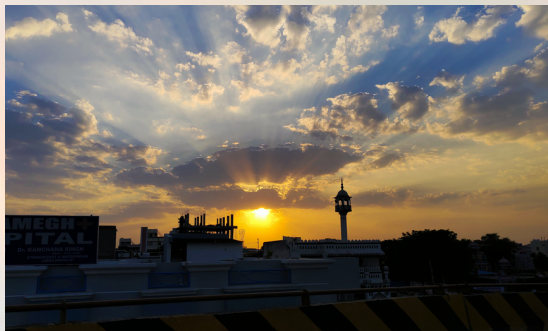
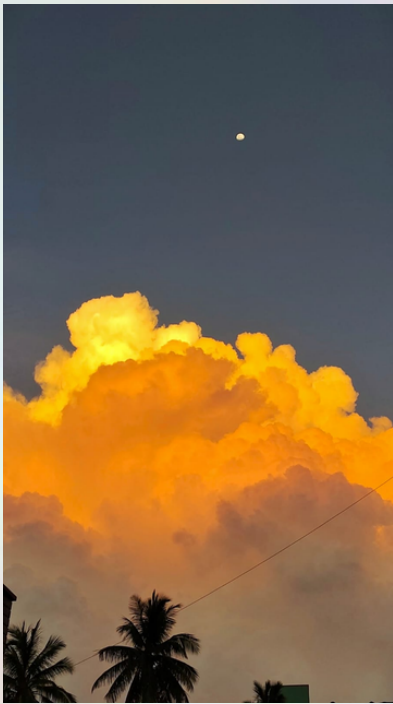




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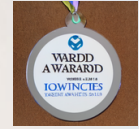


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ARTICLES

THE WEB WON'T SURVIVE AI

Article by Dr. V K Senthil Ragavan, Professor and Head / IT

The internet is always changing. Before Google, there was Ask Jeeves, and before Facebook, there was AOL. Most denizens of the web still remember a time before the Login with Facebook infestation. And it was only a couple of years ago when those omnipotent 'fact-checking' interstitials and 'dis-info' warnings fastened themselves to every post and piece of media in unrestrained hysteria. The internet is different. It's distinctly more corporatized now than ever before, with more ads, more cookies, more algorithms and more culture war soapboxing. The internet's survived a lot.

But it might not survive AI.

In recent news, large language models, or LLMs, such as those found in ChatGPT or Bing's new chat module, have passed the elusive Turing test. LLMs can invent opinions or experiences that sound as real as anything any of us could write – down to the spelling mistakes and slang. Is that a bad thing? Well, if we're trying to ask Alexa to play Story of a Girl by Nine Days then, no, this is quite a useful thing. But if we want an internet made by humans, for humans, and populated with humans, then it might be a problem.

I. **'Dead internet theory'** has been around for perhaps a decade or more now. The central thesis of the dead internet conspiracy theory, is that 'large proportions of the supposedly human-produced content' on the web is actually artificially generated. Or, to put it more simply, the internet is The Matrix.

II. **Mandatory digital identity** verification is, essentially, the death of anonymity. It's sometimes labelled as a conspiracy theory, which is strange, because most conspiracy theories don't have a United Nations official website. In the last two years, we watched the idea of a 'vaccine passport' pass from ridiculed absurdity and into law in a matter of months, all the while our contact tracing data got put up for auction. Australia even put forward a proposal to require photo identity verification for social media, supposedly, to combat cyberbullying.



It barely needs to be said, but this is the infrastructure necessary for a social credit system. When every action is tracked against a singular digital identity, our problematic opinions can incur any real-world consequence decreed by the political aristocracy. We'll be unpersoned and repersoned at will. Not just the death of anonymity, this is the death of political dissent. This is the end of whistleblowing and conscientious objection.

III. As it happens, some high-profile companies are already thinking about this. Twitter, under the new leadership of Elon Musk, has pitched their revamped Twitter Blue subscription as a way to, in part, combat bots and spammers long-term. We shall think of Musk what we will and speculate about his true motives as we please, but the thrust of his position is accurate. Adding a cost of entry to account creation will hamper the ability of any non-human network attempting to influence online conversation. In the despotic technocratic nightmare described, Twitter would indeed reign as one of the more useful platforms, due to there being at least some sort of threshold for validity. While the rest of the internet will feel like a neglected online video game, ruined by hackers and cheaters, Twitter might at least still mostly resemble its former self.

Paid subscriptions only solve half the problem and create their own to boot. Yes, Twitter will have a much higher proportion of genuine users, but, at least currently, we have to pay for that subscription with a bank card, which may as well be its own form of digital identity. Because, frankly, someone has to.

Generative AI, in all its forms, is not going away. We stand to wander an internet engulfed in nonsense produced at a logarithmic scale essentially unfathomable today. We might begin to reject the internet entirely, no longer finding it useful, much in the same way that Gen Z rejects Facebook. Without a way to maintain our signal-to-noise ratio, we'll retreat into smaller and smaller bubbles, by invite-only, where humans vouch for humans. The rest of the web outside these little online bomb shelters will chatter on with itself, no longer needing sentient input to subsist, like one giant Junk folder full of a trillion emails nattering at each other. And that's the better outcome of the two.

Courtesy - This article is made ready from the contents of IEEE and IEI Newsletters.

TITAN: THE DEEP-SEA EXPLORER THAT NEVER RETURNED

The Titan was a submersible designed and built by OceanGate Expeditions. It was a small, crewed submersible capable of diving to depths of up to 4,000 meters (13,123 feet). The Titan was made of a lightweight composite material that made it strong and durable, yet also relatively easy to transport.

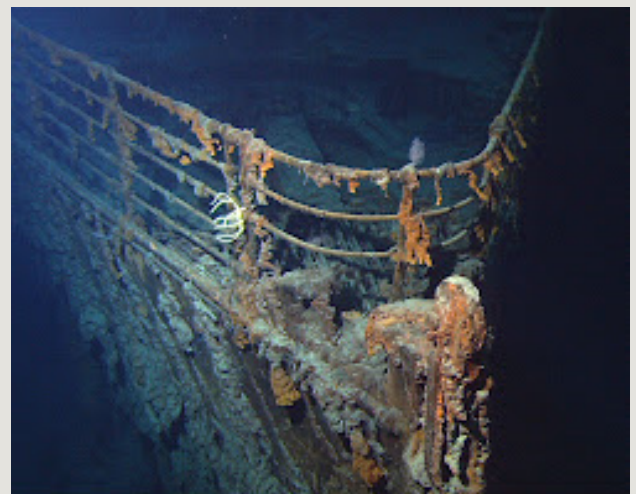


The Titan was used for a variety of underwater exploration missions, including shipwreck dives, scientific research, and tourist trips. In June 2023, the Titan was on a tourist trip to the wreck of the Titanic when it suffered a catastrophic implosion, killing all five people on board.

The cause of the implosion is still unknown, but it is believed to have been caused by a combination of factors, including a failure of the submersible's pressure hull and a rapid influx of water. The incident has raised questions about the safety of crewed submersibles and the risks of deep-sea exploration.

KEY FEATURES OF THE TITAN SUBMARINE:

- Made of a lightweight composite material that made it strong and durable. Capable of diving to depths of up to 4,000 meters (13,123 feet).
- The Titan was the first crewed submersible to be certified to dive to depths of up to 4,000 meters. This made it possible to explore previously inaccessible parts of the ocean, such as the Mariana Trench
- The loss of the Titan is a reminder of the dangers of deep-sea exploration, but it also highlights the potential of this type of activity to advance our understanding of the ocean. As we continue to explore the depths of the ocean, we must take steps to mitigate the risks and ensure the safety of those involved.



—Muli Deydeepya

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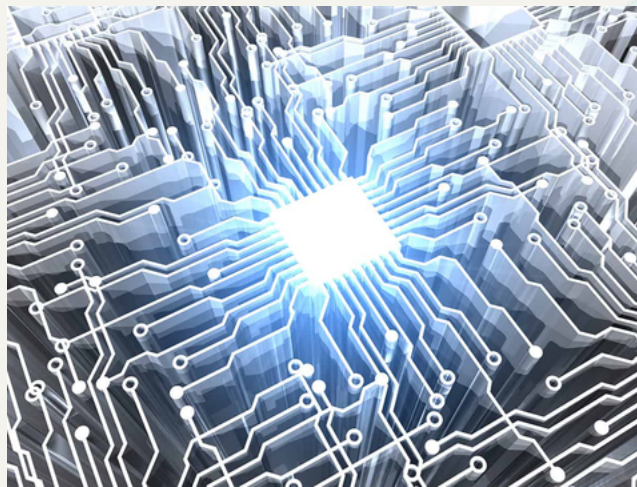
QUANTUM COMPUTING : AN APPLIED APPROACH

What is Quantum Computing?

Quantum computing is a new field of computing that uses the principles of quantum mechanics to solve problems that are intractable on classical computers. Quantum computers are able to perform calculations that are exponentially faster than classical computers, which could have a transformative impact on a wide range of industries.

One of the most promising applications of quantum computing is in the field of cryptography. Quantum computers could be used to break current encryption methods, which could have a significant impact on national security and the financial industry.

Quantum computers could be used to simulate the behavior of molecules, which could help to accelerate the development of new drugs. This could have a significant impact on the healthcare industry, as it could help to develop new treatments for diseases that are currently untreatable.



Quantum computing is still in its early stages of development, but it has the potential to revolutionize many industries. As quantum computers become more powerful, we can expect to see even more innovative applications for this technology.

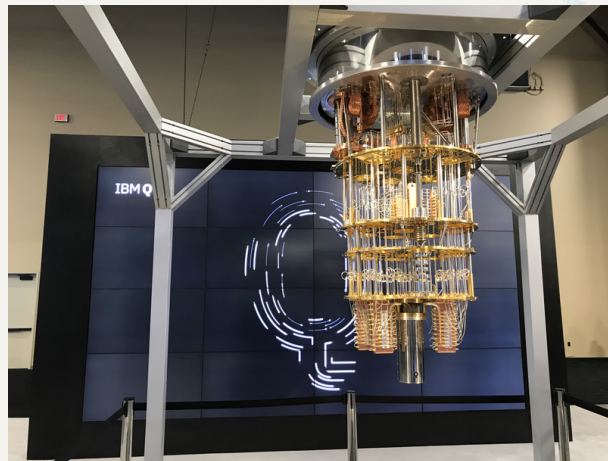
Recent Studies in Quantum Computing

There have been many recent studies in the field of quantum computing, and the field is rapidly evolving. Here are a few of the most interesting recent studies:

In 2022, researchers at Google AI announced that they had achieved "quantum supremacy" with their Sycamore quantum computer. This means that the Sycamore computer was able to solve a problem that would be intractable on a classical computer.

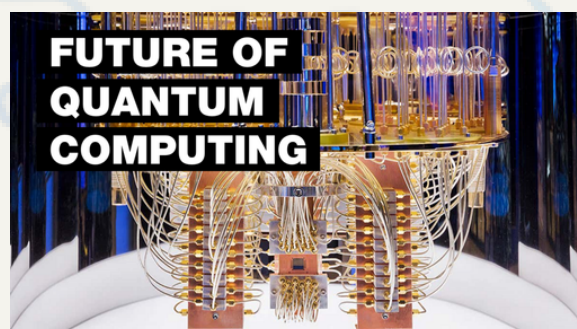
In 2023, researchers at IBM announced that they had developed a new type of quantum computer that is based on superconducting circuits. This new type of quantum computer is more stable and easier to control than previous types of quantum computers.

In 2024, researchers at the University of Maryland announced that they had developed a new type of quantum error correction code. This new code could help to make quantum computers more reliable and could pave the way for the development of practical quantum computers.



The Future of Quantum Computing

As quantum computers become more powerful and reliable, we can expect to see them used to solve a wide range of problems that are currently intractable on classical computers. Quantum computing has the potential to revolutionize many industries, including cryptography, drug discovery, and materials science.





MOON MANIFEST: ASTROBOTIC'S PEREGRINE MISSION ONE

Astrobotic Technology is an American private company that is developing space robotics technology for lunar and planetary missions. It was founded in 2007 by Carnegie Mellon professor Red Whittaker and his associates with the goal of winning the Google Lunar X Prize. The company is based in Pittsburgh, Pennsylvania. The first launch of one of its spacecraft, the Peregrine lunar lander, is expected to take place in the summer of 2023.

MISSION 1 | PEREGRINE

GRUITHUISEN DOMES 2023

Astrobotic's Peregrine Mission One (PM1) is poised to be the first commercial mission to land on another planetary body. With this flight, Astrobotic is opening the door to the next phase of space science, exploration, and commerce on the Moon and beyond. Peregrine will carry a diverse suite of scientific instruments, technologies, mementos, and other payloads from six different countries, dozens of science teams, and hundreds of individuals.



MISSION 2 | GRIFFIN

LUNAR SOUTH POLE 2024

Astrobotic's Griffin Mission One (GM1) is a dedicated mission that will deliver NASA's Volatiles Investigating Polar Exploration Rover (VIPER) to the Moon in 2024. Griffin will land at the South Pole and deploy VIPER to conduct the first widespread ground truth measurements of lunar water ice. Such ice may one day be used for life support and propellant that could assist future deep space explorers. Some of the instruments on PM1 will be operated as a dress rehearsal for their use on VIPER. This GM1 contract was awarded under the NASA CLPS program.



—Varsha
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SPECIAL MESSAGE TO OUR READERS

Dear Readers,

The official newsletter of the SMEC IT Department **#INCLUDE<NEWSLETTER.IT>** which documents the Department's journey's pivotal events, is in your hands. We made every effort to ensure that our Departmental memoir would assist you in relieving your eventful time experienced at the Department. **#INCLUDE** is a culmination of the invincible team's tremendous effort and an example of their inventiveness. It aims to unite every component of our very own "IT family." This issue might be termed as a reflection of our IT glory. Isn't it true that "A flower makes no garland?" This newsletter results from an enormous work put forth by our Board members first and foremost, followed by the HOD, all instructors, and lovely students. Thank you, readers.

Sincerely,

IT Department

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