



Geethanjali College of Engineering and Technology

(UGC Autonomous Institution)

Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana - 501 301

(Approved by AICTE, Permanently Affiliated to JNTUH,

Accredited by NAAC with 'A+' Grade, Accredited by NBA, ISO 9000:2008 Certified)

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**DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING**

TECH EPISTLE

NEWSLETTER

VOLUME 11, ISSUE 1

JULY - DECEMBER 2022



Chairman: Sri G. R. Ravinder Reddy

Principal: Dr. S. Udaya Kumar

Dean, School of Computer Science and Informatics:

Dr. V. Madhusudan Rao, Professor

Head of the Department:

Dr. A. SreeLakshmi, Professor

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Mr. Bh. Bhujanga Reddy,

Assistant Professor

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Dr. G. SomaSekhar, Associate Professor

Dr. K. Kamakshaiah, Associate Professor

Dr. K. Krishna Jyothi, Associate Professor

Dr. G. Kalyani, Associate Professor

Dr. A. Hari Prasad, Associate Professor

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Vision of the Department

- ◆ To produce globally competent and socially responsible computer science engineers contributing to the advancement of engineering and technology which involves creativity and innovation by providing excellent learning environment with world class facilities.

Mission of the Department

- ◆ To be a centre of excellence in instruction, innovation in research and scholarship, and service to the stake holders, the profession, and the public.
- ◆ To prepare graduates to enter a rapidly changing field as a competent computer science engineer.
- ◆ To prepare graduate capable in all phases of software development, possess a firm understanding of hardware technologies, have the strong mathematical background necessary for scientific computing, and be sufficiently well versed in general theory to allow growth within the discipline as it advances.
- ◆ To prepare graduates to assume leadership roles by possessing good communication skills, the ability to work effectively as team members, and an appreciation for their social and ethical responsibility in a global setting.

Department News and Achievements

- ◆ The **B.Tech Under Graduate (UG) Program of Computer Science and Engineering (CSE), received accreditation from NBA under Tier -I for a period of three years**, i.e. from **2022-2023 to 2024-2025**, i.e. till June 30, 2025. The NBA visit took place during 12th -14th August, 2022.
- ◆ **Recognition to Geethanjali College of Engineering and Technology as Research Center in the Computer Science and Engineering (CSE) Department** for a period of three years (i.e. Year 2022-2025) Under JNTUH, issued on 3rd June 2022.
- ◆ **International Conference on Computational Intelligence in Machine Learning 2022 (ICCIML 2022)**, organized by **CSE Department** of Geethanjali College of Engineering & Technology, during 18th - 19th November, 2022.
- ◆ One month **skill development programme on "Computer Fundamentals and MS-OFFICE Applications"** is conducted by the Department of Computer Science and Engineering in collaboration with the NSS Unit, for support staff of GCET and unemployed residents of Cheeryal village, held from 19-Dec-2022 to 19-Jan-2023.
- ◆ The **academic and administrative audit** for the year 2021-22 was held on 17th December 2022. **Prof. K. Lal Kishore, Ex-vice chancellor of JNTUA** was the chairperson of the committee and **Dr. Aruna Varanasi**, Professor & HoD, Sreenidhi Institute of Science and Technology, was the expert member for CSE department.
- ◆ CSE Dept. has been established **MoU with ACCELQ for "Software Testing and Automation"** on 18-06-2022. A Total of 18 students completed internship and certification of "ACCELQ Automation Engineer" under the MoU during June 2022 to Aug 2022.
- ◆ A Total of **233** III Year students successfully completed the internships during June 2022 to Dec 2022.

Campus News

- ◆ **Extension of Autonomous Status to Geethanjali College of Engineering and Technology**, Cheeryal(V), Keesara(M), Medchal Dist., Telangana-501301 affiliated to JNTU Hyderabad for a period of Five years from the Academic Year 2022-2023 to 2026-2027.
- ◆ **Geethanjali College of Engineering and Technology** has been **Accredited** with a CGPA of 3.27 on a seven point scale at **A+ Grade** valid for a period of **Five Years** from 21-09-2022.
- ◆ Geethanjali College of Engineering and Technology is conferred as a **Virtusa - Java Full Stack Centre of Excellence** for the 2024 graduating batch.

Faculty Achievements

- ◆ **Dr. A. SriLakshmi**, Professor & HoD-CSE Dept., and **Dr. V. Madhusudan Rao**, Professor & Dean-CSI, acted as the “**Program Chair**” at the International Conference on Computational Intelligence in Machine Learning (ICCIML 2022), held at Geethanjali College of Engineering and Technology, Hyderabad, on 18th - 19th Nov, 2022.
- ◆ **Dr. N. Ravi Shankar**, Professor & CoE, CSE Department, has been ratified as **Professor** by JNTU Hyderabad.
- ◆ **Dr. N. Ravi Shankar**, Professor & CoE, CSE Department, was a “**Reviewer**” for the 5th International Conference on Computational Intelligence & Data Engineering (ICCIDE-2022).
- ◆ **Dr. Puja S Prasad**, Associate Professor, Department of CSE, received “**Active SPOC Certificate**” from SWAYAM NPTEL, IIT Hyderabad Zone, during the period June to Dec, 2022.
- ◆ **Dr. A. SriLakshmi**, Professor & HoD-CSE Dept., and **Dr. Puja S Prasad**, Associate Professor, Department of CSE, acted as “**Session Chair**” at the 2nd International Conference on Cognitive & Intelligent Computing (ICCIC-2022), held on 27th-28th December, 2022, held at Vasavi College of Engineering, Hyderabad, India.
- ◆ **Dr. Puja S Prasad**, Associate Professor, Department of CSE, was a “**Program Chair**” at the “International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCMLA)”, Conference #56841, technically sponsored by the **IEEE Germany** section.
- ◆ **Dr. Puja S Prasad**, Associate Professor, Department of CSE, was the “**Secretary**” at the International Conference on Computational Intelligence in Machine Learning (ICCIML- 2022), held at Geethanjali College of Engineering and Technology, Hyderabad, on 18th - 19th Nov, 2022.
- ◆ **Mr. V. Shiva Narayana Reddy**, Associate Professor, Department of CSE, awarded with **Ph.D Degree** for the Thesis Titled “Novel Approach on Bio-Medical Gene/Disease Based Key Phrase Examination Models” from **Lincoln University, Malaysia**.
- ◆ **Dr. Kamakshaiah Kolli**, Associate Professor, Department of CSE, was a **Reviewer** for 3rd International Conference on Advances in Computer Engineering and Communication Systems.
- ◆ **Dr. Puja S Prasad**, Associate Professor, Department of CSE, is the **FDP Coordinator** for the FDP Titled “**Block chain Technology**”, Organized by CSE Dept. of Geethanjali College of Engineering and Technology, held on 19-Dec-2022 to 24-Dec-2022.

Faculty Achievements

- ◆ **Mr. R. Venkata Sudhakar**, Assistant Professor, Department of CSE, Received a **Certificate of Recognition** from **EPAM Systems India Private LTD.**, for successfully completing the training and certification requirements for **“Front-End Technologies”**, as part of **EPAM Centre of Excellence (CoE)**, during the period May 2022 to August 2022.
- ◆ **Mrs. S. Radha**, Assistant Professor, Department of CSE, received the **“Best paper Award”** at the International Conference on Computational Intelligence in Machine Learning (ICCIML- 2022), held at Geethanjali College of Engineering and Technology, Hyderabad, on 18th - 19th Nov, 2022.
- ◆ A Total of four faculty members - **Mrs. S. Radha**, Assistant Professor, Department of CSE, **Mr. M. Vishwashanthi**, Assistant Professor, Department of CSE, **Mrs. B. Mamatha**, Assistant Professor, Department of CSE, **Mrs. P. Deeplaxmi**, Assistant Professor, Department of CSE, received a **“Certificate of Recognition”** from **Microsoft Cyber Shikshaa Educators Program and ICT Academy** for successfully completing the certification requirements for the Course **“Cyber Security”** as part of **Microsoft Cyber Shikshaa Educators Program**, organized by ICT Academy, held from 24-Aug-2022 to 02-Sept-2022.
- ◆ **Mr. Y.Siva, Mrs. S. Radha** have submitted the final report of **Unnat Bharat Abhiyan (UBA)** sanctioned project titled **"Rampally Dayara - Property Tax Management System (Project Number: RP-03525G)"** on 21-Dec-2022. The Project has been approved by **UBA-Others SEG** and funded by the National Coordinating Institute **UBA 2.0** under the category of **“Technology Development”**. The project was **sanctioned with Rs.53,000** by **UBA** on 31-March-2022.
- ◆ **Mr. S. Ramanjaneyulu**, Assistant Professor, CSE Department, **Mr. P. ChandraSekhar Reddy**, Assistant Professor, CSE Department and **Mr. G. Praveen Kumar**, Assistant Professor, CSE Department, participated in training program on **“AI & ML”**, conducted by **WIPRO - TalentNext Advanced Technology Program**, held from 05-Sept-2022 to 09-Sept-2022.
- ◆ **Mr. S. Ramanjaneyulu**, Assistant Professor, CSE Department, participated in training program on **“Bigdata”**, conducted by **WIPRO - TalentNext Advanced Technology Program**, held from 12-Dec-2022 to 16-Dec-2022.
- ◆ **Mr. Y. Siva**, Assistant Professor, Department of CSE, **Qualified in APRCET**, on December, 2022.

Faculty Patents Published

- ◆ **Dr. N. Lakshmipathi Anantha**, Professor, Department of CSE, has secured a **patent publication** titled **“Artificial intelligence based approach to analyze the factors that are associated with head and neck cancer”** with the application number 202241064298, in November, 2022.
- ◆ **Mrs. K. Prathima**, Assistant Professor, Department of CSE, has secured a **patent publication** titled **“A Real Time Data Base Management System Enabled with Multiple Entity Split Exchange for Cyber Security”** with the application number 202241056435, in October, 2022.

Books / Book Chapters Published by Faculty

- ◆ **Dr. Kolli Kamakshaiha**, Associate Professor, Department of CSE, Published a Book Titled “**Artificial Intelligence**”, Nitya Publications, 2022, ISBN:939369436-2.
- ◆ **Dr. G. Somasekhar**, Associate Professor, Department of CSE, Published a Book Titled “**Wireless Sensor Networks**”, RK Publishers (National), 2022, ISBN: 978-81-960402-0-8.
- ◆ **Dr. G. Somasekhar**, Associate Professor, Department of CSE, Published a Book Titled “**Basics of Object Oriented Systems**”, Alpha International Publication, Jan, 2023, ISBN:978-93-95978-83-5.
- ◆ **Mrs. P. Haritha**, Assistant Professor, Department of CSE, Published a Book Titled “**Programming With Java**”, Bluerose Publishers Pvt. Ltd., First edition, 2022, ISBN-10: 9356113769, ISBN-13: 978-9356113763.
- ◆ **Mrs. P. Haritha**, Assistant Professor, Department of CSE, Published a Book Titled “**Introduction to Operating Systems**”, Bluerose Publishers Pvt. Ltd., First edition (26 January, 2023), ISBN-10 :9357044442, ISBN-13 : 978-9357044448.

Student Paper Publications

- ◆ **V. Sai Prakash Chary (19R11A05E1)**, published a research paper titled “**Diabetes Prediction using Machine Learning**” in the journal titled “**Gradiva Review Journal**”, Volume 8, Issue 12, Page No: 692-697, ISSN: 0363-8057, DOI:10.37897.GRJ.2022.V8I12.22.50575, December, 2022.
- ◆ **V. Sai Prakash Chary (19R11A05E1), Pedduri Veena Vani (19R11A0587)**, published a research paper titled “**Secure Software Development Cycle: An Approach to Reduce the Risks of Cyber Attacks in Cyber physical systems and Digital Twins**” in the conference titled “**International Conference on Computational Intelligence in Machine Learning (ICCIML-2022)**”, held at Geethanjali College of Engineering and Technology, Hyderabad, on 18th - 19th Nov, 2022.
- ◆ **G Nandini Laxmi Priya (19R11A05L5), Myson Sunny Raj (19R11A05N4)**, published a research paper titled “**Text To Speech and Speech To Text Recognition**” in the journal titled “**Gradiva Review Journal**”, Volume 8, Issue 12, Page No: 680-685, ISSN: 0363-8057, DOI:10.37897.GRJ.2022.V8I12.22.50573, December, 2022.
- ◆ **Nandula Rohan Kausik (19R11A0581)**, published a research paper titled “**Personal Expense Tracker utilizing Amazon Web Services**” in the journal titled “**International Journal of Computer Trends and Technology**”, Volume 70, Issue 11, page no. 8-14,ISSN: 2231-2803 (UGC List), .DOI : 10.14445/22312803/IJCTT-V70I11P102, November, 2022.
- ◆ **Pakeer Shivani, (19R11A05J1), Kalavakolanu Sudarshan Sharma (19R11A05H0)**, published a research paper titled “**Secure Voting System Using IRIS Recognition**” in the journal titled “**Gradiva Review Journal**”, Volume 8, Issue 12, ISSN: 0363-8057, Page No: 653-657, DOI:10.37897.GRJ.2022.V8I12.22.50570, December, 2022.
- ◆ **Puvvada Abhinaya(19R11A05J4), G. Sanvith (19R11A05G1)**, published a research paper titled “**Number Plate Detection System**” in the journal titled “**Gradiva Review Journal**”, Volume 8, Issue 12, Page No: 647-652, ISSN: 0363-8057, DOI:10.37897.GRJ.2022.V8I12.22.50569, December, 2022.

Faculty Publications during July to December 2022

S.No.	Faculty Name	Title of the Paper	Journal Name/ Conference	Volume No., Issue No., Page No., ISSN	Month & Year of Publication
1.	Dr. K. Krishna Jyothi	Design of Multi-Objective Based Artificial Intelligence Controller For Wind/Battery-Connected Shunt Active Power	Scilit - MDPI (Scientific Literature)	Algorithms 2022, 15, 256 https://doi.org/10.3390/a15080256 (SCI)	July, 2022
2.	Dr.Rakesh Kumar Donthi, G. Santhoshi, M. V.Lavanya, M. Akhila Reddy	Hybrid Approach of Multi-Attribute Data for Sentiment Analysis in Online Social Networks	Journal Of Algebraic Statistics	ISSN NO:1309-3452, Volume 13, Issue No. 3, Page No. 876-882 (Web Of Science)	July, 2022
3.	Dr. D. Rakesh Kumar, Dr. G. Soma Sekhar	Covid 19 vaccination classification of opinion mining with semantic knowledge based decision making	International Journal of Web and Semantic Technology	Volume-13, Issue No.03, ISSN: 0975-9026, (Web Of Science)	August, 2022
4.	E. Vijaya	Estimation of Spacecraft Telemetry Faults using SVM & K-Means Machine Learning Algorithm	TELEMATIQUE	ISSN NO: 1856-4194, Volume: 21, Issue:1,2022, Pg. No:2035-2044 (Web Of Science)	August, 2022
5.	Dr. A. Hari Prasad Reddy, V. Shiva Narayana Reddy	Abnormal Driving Detection In Video Using Alternative Wide Group Residual Densely	Journal of Positive School Psychology	ISSN No: 2717-7564, Volume:06, Issue No.8, Page No:160-167 (Scopus)	August, 2022
6.	M. Shiva Rama Krishna	Power allocation model for residential homes using AI-based IoT	Measurement: Sensors	ISSN : 2665-9174 (Scopus)	Sept, 2022
7.	Dr. G. Soma Sekhar	Stock administration framework utilizing AWS	International Journal of Scientific research in Engineering and Management	ISSN NO: 2582-3930, Volume: 06, Issue No. 10, 2022 (UGC)	Oct, 2022

Faculty Publications during July to December 2022

S.No.	Faculty Name	Title of the Paper	Journal Name/ Conference	Volume No., Issue No., Page No., ISSN	Month & Year of Publication
8.	M Akhila Reddy, G.Santhoshi, Palvancha Shambhavi	A Fast and Accurate System For Missing Children Detection or identification using Deep learning	NeuroQuantology- An Interdisciplinary Journal of Neuroscience and Quantum Physics	ISSN NO: 1303-5150, Volume 20, Issue No.11, Pg.No.3433-3449 (Scopus)	Oct, 2022
9.	Puja S Prasad	Energy-efficient resource allocation with a combinatorial auction pricing mechanism	International Journal of Information Technology	ISSN NO: 2511-2112, (Scopus + UGC unpaid Journal) , DOI: 10.1007/s41870-022-01110-9	Oct, 2022
10.	Dr.N.Lakshmi-Pathi Anantha	Movie Recommendation System Using Deep Learning Techniques	Journal of Pharmaceutical Negative Results	ISSN: 2229-7723, Volume 13, Issue 4, Page No.1047-1051, https://doi.org/10.47750/pnr.2022.13.04.144 (Scopus Indexed)	Nov, 2022
11.	Dr. G. Soma Sekhar	Personal Expense Tracker utilizing Amazon Web Services	International Journal of Computer Trends and Technology	ISSN: 2231 – 2803, Volume 70, Issue 11, Page No: 8-14 (UGC) DOI : 10.14445/22312803/IJCTT-V70I11P102	Nov, 2022
12.	V. Shiva Narayana Reddy	Secure Voting System Using IRIS Recognition	GRADIVA REVIEW JOURNAL	ISSN: 0363-8057, Volume 8, Issue 12, pg no. 653-657, (Scopus)	Dec, 2022
13.	G. Santhoshi	Text to speech and speech to text recognition	GRADIVA REVIEW JOURNAL	ISSN: 0363-8057, Volume 8, Issue 12, pg. no.680-685, (Scopus)	Dec, 2022
14.	M. Vishwa shanthi, B. Mamatha	Diabetes prediction using machine learning	GRADIVA REVIEW JOURNAL	ISSN: 0363-8057, Volume 8, Issue 12, pg. no.692-697, (Scopus)	Dec, 2022

Faculty Publications during July to December 2022

S.No.	Faculty Name	Title of the Paper	Journal Name/ Name of the Conference	Volume No., Issue No., Page No., ISSN	Month & Year of Publication
15.	S L Anusha, Dr. A. Hari Prasad Reddy	A Novel approach for Noise removal from under water Image	GRADIVA REVIEW JOURNAL	Volume 8, Issue 12, page no:1327-1338, ISSN: 0363-8057	Dec, 2022
16.	A. Abhilasha	The Model of Smart Sensing Device For Sensitive Nano clus- ters Modification in Sensing Properties	2nd International Conference on Advance Computing and Innovative Technologies in Engineering, 2022 SCOPUS (IEEE)	Accession Num- ber: 21884769, Electronic ISBN:978-1-6654 -3789-9 Print on Demand (PoD) ISBN:978- 1-6654-3790-5	July, 2022
17.	Dr. Puja S Prasad, C. Esther Varma	Face Recognition and Detection Algorithm—A Review	FTNCT Conference proceeding	ISSN: 978-981- 19-5037-7	Nov, 2022
18.	S. Radha	Secure Software Development Cycle: An Approach to Reduce the Risks of Cyber Attacks in Cyber physical sys- tems and Digital Twins	International Conference on Computational Intelligence in Machine Learning 2022	ICCIML 2022	Nov, 2022
19.	Dr. K. Krishna Jyothi, Dr. G. Kalyani	A Grey Wolf Integrated with Jaya Optimization based route selection in IoT Network	International Conference on Computational Intelligence in Machine Learning 2022	ICCIML 2022	Nov, 2022
20.	Dr. K. Krishna Jyothi, Dr. G. Kalyani	An Energy Efficient Mechanism using Block Chain Technol- ogy for Machine- Type Communication in LTE- Network	International Conference on Computational Intelligence in Machine Learning 2022	ICCIML 2022	Nov, 2022

Faculty Qualified in SWAYAM NPTEL / MOOC Courses during July - Dec 2022

S.NO.	Faculty Name	Course Name	Course Duration	Course Offered by the Institute	Certificate Type
1.	Ms. A Abhilasha, Assistant Professor	Deep Learning	12 Weeks	IIT Kharagpur	Successfully completed
2.	Mr. M. Shiva Rama Krishna, Assistant Professor	Deep Learning	12 Weeks	IIT Kharagpur	Successfully completed
3.	Mrs. S Radha, Assistant Professor	Operating System Fundamentals	8 Weeks	IIT Madras	Successfully completed
4.	Mrs. S Radha, Assistant Professor	Introduction to Operating Systems	12 Weeks	IIT Kharagpur	Successfully completed
5.	i) Mr. S. Ramanjaneyulu, Assistant Professor ii) Mr. P. Chandra Sekhar Reddy, Assistant Professor iii) Mr. G. Praveen Kumar, Assistant Professor	Artificial Intelligence and Machine Learning	1 Week, 05-09-2022 to 09-09-2022	Wipro Talent Next 2022 - Advanced Technology Program	Certificate of Participation
6.	Mr. S. Ramanjaneyulu, Assistant Professor	Training program on BigData	12-12-2022 to 16-12-2022	Wipro Talent Next 2022 - Advanced Technology Program	Certificate of Participation
7.	i) Mr P. Chandra Sekhar Reddy, Assistant Professor ii) Mr. G. Praveen Kumar, Assistant Professor	Advanced Technology Certified Faculty Training Program (Project work)	23-Nov-2022	Wipro Talent Next Advanced Technology Program	Certificate of Participation
8.	G Santhoshi, Assistant Professor	i) Introduction to Basic Game Development using Scratch ii) Getting Started with Azure DevOps Boards iii) Introduction to R Programming	21-Nov-2022	Courseera/ Udemy	Project Certificate/ Certificate of Completion
9.	P.Shambhavi, Assistant Professor	Introduction to R Programming	22-Nov-2022	Udemy	Certificate of Completion

Student Achievements

- ◆ **Mr. V. Sai Prakash Chary (19R11A05E1), Felicitated by Rachakonda CyberCrimes Head Mr. Harinath and Mr. Anil Rachamalla for taking active participation at “CyberYodha 2.0”**
- ◆ **Mr. V. Sai Prakash Chary (19R11A05E1), delivered a guest lecture on “Digital Safety for Women” at Villa Marie Degree College, Hyderabad, held on 5th November, 2022.**
- ◆ **Mr. V. Sai Prakash Chary (19R11A05E1), Ms. Pedduri Veena Vani (19R11A0587), received the “Best paper Award” at the International Conference on Computational Intelligence in Machine Learning (ICCIML-2022), held at Geethanjali College of Engineering and Technology, Hyderabad, India, on 18th - 19th Nov, 2022.**



Mr. V. Sai Prakash Chary (19R11A05E1)



GCET Students participated in “CyberYodha 2.0”

- ◆ **Ms. MAPATI BHANU SRI (19R11A0524) Qualified in IBC Tech Voyage – hack fest Quiz held on 01-Nov-2022 to 03-Nov-2022 and she is eligible to participate in industrial visit of Tech-Mahindra and T-Hub, Hyderabad.**



Mapati Bhanu Sri

Student Achievements

- ◆ **Khushi Jha** (20R11A0593), CSE Dept., **Mohammed Abid Hussain**(20R11A6730), CSE-DS Dept., **Chinthala Shivani**(20R11A6711), CSE-DS Dept., **Hema Manogna Kollipara** (20R11A6720), CSE-DS Dept., **Aryan Kodte** (20R11A6703),CSE-DS Dept., have won the **Silver Medal, Runner up in Smart India Hackathon 2022** grand finale, held at NIT Silchar, Assam, organized by AICTE – MHRD, Indian Government, held on 26th August, 2022. The students were developed a project prototype titled "**Tracking, Reducing and Reusing the Plastic Usage Application.**"



GCET - Team Anvesh - Receiving a Silver Medal at the SIH 2022, at NIT Silchar

- ◆ **Ms. Mamilla Rithika** (21R11A05D0) and **Ms. Abburi Bhavya Sri** (21R11A05A5), earned “Elite+Silver” - SWAYAM NPTEL certification for the course titled “**Descriptive Statistics With R Software**”, with the duration of 8 weeks course, conducted by IIT Kanpur, during the period July to Oct 2022.

	
Mamilla Rithika	Abburi Bhavya Sri
21R11A05D0	21R11A05A5

Student Achievements

- ◆ Mr. R.Jayanth (20R11A05A2), has won the first prize for the game “Chess” conducted by Sreenidhi Ashwatthama Sports Meet 2K22.
- ◆ Ms. K. Pravallika (21R11A0524), was selected for the JNTUH Women’s Badminton Team.



Mr. R.Jayanth



Ms. K. Pravallika

- ◆ A Total of Eight Students of CSE Department were received “Certificate of Excellence”, for Outstanding Performance and Lasting Contribution on the successful completion of UBA Project titled “Rampally Dayara Property Tax Management System” during April 2022 to Feb 2023, sponsored by “UNNAT BHARAT ABHIYAN” and in collaboration with “Indian Institute of Technology”, Delhi, organized by the National Service Scheme Unit of Geethanjali College of Engineering and Technology, Cheeryal, Medchal Dist., Telangana.

The following List of students received “Certificate of Excellence” in UBA Project:

Peddineni Jahnvi	P. Badrinath Reddy	L. Vinay Reddy	P. S.Gyaneshwar Chary
19R11A05D0	19R11A05C9	19R11A05B5	20R15A0512
N Rohan Koushik	Vanamala Nithin	K Ravi Kumar	P Haneesh Reddy
19R11A0581	20R15A0516	19R11A0520	18R11A05P8

Student Achievements

- ◆ A Total of 18 students completed **internship and certification of “ACCELQ Automation Engineer”** under the **ACCELQ - MoU** during June 2022 to Aug 2022.

S.No.	Roll Number	Student Name	Branch
1	20R11A0548	SADHULA SRIKANTH	CSE
2	20R11A0593	KHUSHI JHA	CSE
3	20R11A05F2	MARKA SAI TEJA GOUD	CSE
4	20R11A05F7	PABBA SHREYA	CSE
5	20R11A05K9	HARI SARADA	CSE
6	20R11A0504	AKKENAPALLI KRISHNA	CSE
7	20R11A0505	ANJURI KUSUMA	CSE
8	20R11A0525	KOGANTI LOHIT	CSE
9	20R11A0585	ILAPANDA RENUKA	CSE
10	20R11A05P0	SINGAM SAI KIRAN	CSE
11	20R11A0501	A LAKSHMI JAYANTH	CSE
12	20R11A0502	ABHINANDAN PAL SINGH	CSE
13	20R11A05M1	MOHAMMAD SHOAIB	CSE
14	20R11A0523	KATTAMOORI THANVI SHIVANI	CSE
15	20R11A0541	PENUMANTRA AMRUTHA SAI SRI	CSE
16	21R15A1202	MADIRA SAKETH	IT
17	20R11A1207	BALGONI SRUJAN KUMAR	IT
18	20R11A1247	PARSI HARSHITH	IT

Student Achievements

S.No.	Student Name/ Roll Number	Name of the Internship	Name of the Organization/ College/University	Date (s) of Participa- tion/ Completion	Specify Prize Won
1.	D Sree Sai Soujanya (20R11A0573)	Proternship	Internship with cantilever	20-07-2022 to 12-09-2022	Outstanding Performance
2.	Bhartipudi Saketh Ram (20R11A0569)	Proternship	Internship with cantilever	20-07-2022 to 12-09-2022	Outstanding Performance
3.	Abhiram Annadanam (20R11A0564)	Proternship	Internship with cantilever	20-07-2022 to 12-09-2022	Outstanding Performance

S.No.	Student Name/ Roll Number	Name of the Internship/ Name of the Event	Name of the Organization/ College/University	Date (s) of Participa- tion/ Completion	Specify Prize Won
4.	S. Mallesh (20R11A0551)	Proternship	Internship with cantilever	20-07-2022 to 12-09-2022	Outstanding Performance
5.	D. Manideep (20R11A0574)	Proternship	Internship with cantilever	20-07-2022 to 12-09-2022	Outstanding Performance
6.	B. Swabhan Rao (20R11A0567)	Proternship	Internship with cantilever	20-07-2022 to 12-09-2022	Outstanding Performance
7.	G. Dattha Krishna (20R11A0579)	Proternship	Internship with cantilever	20-07-2022 to 12-09-2022	Outstanding Performance
8.	S. Sree Varsha (21R15A0506)	Proternship	Internship with cantilever	20-07-2022 to 12-09-2022	Outstanding Performance
9.	G. Sri Hasini (21R11A0518)	Techinspire, Quiz	Geethanjali College of Engineering & Technology	28-10-2022	III Prize
10.	P. VeenaVani (19R11A0587)	Conference - ICCIML 2022	Geethanjali College of Engineering & Technology	19-11-2022	Appreciation
11.	R. Poojitha (20R11A05G5)	Conference - ICCIML 2022	Geethanjali College of Engineering & Technology	19-11-2022	Appreciation

Professional Societies Events during July - Dec 2022

S.NO.	Module /Event Name	Date of Event	Number of Participants
1	IEEE Faculty Advisors and Students Meeting	26-9-2022	20
2	IEEE Day Celebrations	01-10-2022	23
3	IEEE Xtreme 16.0	22-10-2022	8

“Shri Raja Reddy Memorial Scholarship”

The following is the list of B.Tech I/II/III/IV Year - CSE students eligible for “Shri Raja Reddy Memorial Scholarship” for the Academic Year 2021-2022.

2018 BATCH (IV Year I Sem & IV Year II Sem)				
I Rank	II Rank	III Rank	IV Rank	V Rank
				
Student Name: B VAGDEVI SAHASRA	Student Name: BHEMISSETTY ABHISHEK	Student Name: KANDIKONDA SHIVANI	Student Name: KODAKANDLA NAVYA	Student Name: V VAISHNAVI
Roll Number: 18R11A05K4	Roll Number: 18R11A0554	Roll Number: 18R11A05M2	Roll Number: 18R11A0573	Roll Number: 18R11A05P4
CGPA: 9.28	CGPA: 9.25	CGPA: 9.25	CGPA: 9.18	CGPA: 9.10

2019 BATCH (III Year I Sem & III Year II Sem)				
I Rank	II Rank	III Rank	IV Rank	V Rank
				
Student Name: NANDULA ROHAN KAUSIK	Student Name: MARKALA MANASWINI	Student Name: PEDDINENI JAHNAVI	Student Name: CHAMAKURA DINESH	Student Name: MYTHILI VISWANADHA- PALLI
Roll Number: 19R11A0581	Roll Number: 19R11A0575	Roll Number: 19R11A05D0	Roll Number: 19R11A0504	Roll Number: 19R11A05K1
CGPA: 9.68	CGPA: 9.13	CGPA: 9.00	CGPA: 8.93	CGPA: 8.90

“Shri Raja Reddy Memorial Scholarship”

The following is the list of B.Tech I/II/III/IV Year - CSE students eligible for “Shri Raja Reddy Memorial Scholarship” for the Academic Year 2021-2022.

2020 BATCH (II Year I Sem & II Year II Sem)				
I Rank	II Rank	III Rank	IV Rank	V Rank
				
Student Name: D SREE SAI SOUJANYA	Student Name: KOLETI PAVANI PRIYA	Student Name: GAYATRI SUSHMITHA RAMADUGU	Student Name: G PHALGUNI	Student Name: KOSGI AAKANKSHA REDDY
Roll Number: 20R11A0573	Roll Number: 20R11A0590	Roll Number: 20R11A05A4	Roll Number: 20R11A0576	Roll Number: 20R11A0592
CGPA: 9.55	CGPA: 9.55	CGPA: 9.29	CGPA: 9.16	CGPA: 9.13

2021 BATCH (I Year I Sem & I Year II Sem)				
I Rank	II Rank	III Rank	IV Rank	V Rank
				
Student Name: SANIA BEGUM	Student Name: MAMILLA RITHIKA	Student Name: GALIPALLY SANDHYA RANI	Student Name: MANDADI HARSHITHA REDDY	Student Name: RAMIDI HARINATH REDDY
Roll Number: 21R11A0548	Roll Number: 21R11A05D0	Roll Number: 21R11A0569	Roll Number: 21R11A05D2	Roll Number: 21R11A05K0
CGPA: 9.38	CGPA: 9.27	CGPA: 9.27	CGPA: 9.26	CGPA: 9.26

CSE Student Placements of 2019-2023 Batch during July - Dec 2022

S.NO.	Name of the Company	Number of CSE Students Placed	Salary Package
1	GENC NEXT	1	6.75 LPA
2	ADP	4	6.0 LPA
3	AMADEUS	3	11.77 LPA
4	BIG WORK TECHNOLOGIES	4	4.0 LPA
5	BROAD RIDGE	2	5.0 LPA
6	DBS BANK	2	9.5 LPA
7	DHRUV SOFT SOLUTIONS	3	3.25 to 4 LPA
8	ENH I SECURE	8	4.6 LPA
9	EPAM	4	6.8 LPA
10	COGNIZANT GEN C	46	4.25 LPA
11	COGNIZANT GEN C DN	2	4 LPA
12	COGNIZANT GEN C ELEVATE	4	4.25 LPA
13	COGNIZANT GEN C NEXT	1	6.75 LPA
14	COGNIZANT GEN C NXT DN	2	6.75 LPA
15	IBI	1	6 LPA
16	LTTS	14	4 LPA
17	MODAK ANALYTICS	3	6 LPA
18	MUSIGMA	12	5.5 LPA
19	NSL HUB	4	5 LPA
20	PROLIFICS	16	4 LPA
21	RYTHMOS	5	4 LPA
22	SAVANTIES	23	3.5 LPA
23	SMART IMS	7	4.6 LPA
24	SMART SOC	2	4.5 LPA
25	UPGRAD - INSOFE	1	5 LPA
26	VALUE LABS	2	9 LPA
27	VALUE MOMENTUM	9	4 LPA
28	VIRTUSA AIMS HIRING	4	5 LPA

CSE Student Placements of 2019-2023 Batch during July - Dec 2022

S.NO.	Name of the Company	Number of CSE Students Placed	Salary Package
29	ZEMOSO	15	6.87 LPA
30	VALUE LABS	02	9 LPA
31	DARK HORSE	11	5.2 LPA
32	HEXAWARE	24	4 LPA
33	CODITAS	01	6 LPA
34	KEKA	02	8 LPA & 4.25 LPA
35	TECHMAHINDRA	12	3.5 LPA
36	VERZEO	11	4 LPA
37	ACUVATE SOFTWARE	01	3 LPA to 8 LPA
38	EIDIKO SYSTEMS	04	5.7 LPA
39	ELEWAYTE	07	4 LPA
40	COLLABERA	02	3 LPA
41	REAL PAGE	05	6 LPA to 10 LPA
42	INTELLIPAAT	05	9 LPA
43	TCS	07	3.36 LPA
44	WEST AGILE	02	5.5 LPA
45	SPERIDIAN	01	3.5 LPA
46	MPHASIS SOFTWARE	06	3.25 LPA
47	LOGIK WORKS	02	4 LPA
48	PIE INFOCOMM	01	4.50 LPA
49	NALSOFT	01	5 LPA to 6 LPA
50	ACADEMOR	22	3 LPA
51	UNSCHOOL	03	6.5 LPA
52	ARCADIS - IBI	01	7 LPA
53	OC TANNER	01	8.50 LPA
54	GENPACT	05	3 LPA
55	TECH MAHINDRA BPS	01	3 LPA to 4 LPA
56	RED HIBBERT GROUP	02	1.80 LPA TO 2.40 LPA

Guest Lectures/Workshops conducted for Students

- ◆ Guest Lecture on “**Computer Networks – Wireless Networks**” was conducted for III Year CSE students on 01st Dec, 2022. The resource person for the guest lecture was **Dr. Nikumani Choudhury**, Assistant Professor, BITS Pilani, Hyderabad. A Total of 118 students attended the program.
- ◆ **CYBER CONGRESS 2022:** The annual flagship event was conducted by the Cyber Security club of Geethanjali College of Engineering and Technology in association with “**END NOW Foundation**”, held on 21st October and 22nd October, 2022. A Total of 127 students participated in the cyber congress. The faculty coordinators for the cyber congress were **Mrs. B. Mamatha**, Assistant Professor, CSE Dept. and **Mrs. P. Haritha**, Assistant Professor, CSE Dept. The objective of the CYBER CONGRESS is to train, empower and equip the young generation the knowledge and skills required to protect themselves and their communities from cyber crimes. The event was successfully held comprising various guest lectures and fun activities which were both informative and encouraging for students. All the lectures were primarily based on cyber awareness and promoting students to be internet conscious.
- ◆ **The following sessions are conducted as part of Cyber Congress 2022:**

S.No.	Event Name	Resource Person
1	Key Note Session	i) Sri. S. Harinath, Asst. Commissioner of Police, (Cyber Crimes - Rachakonda Commissionerate) ii) Sri. Sai Teja Kaveti, Co-founder of End Now Foundation, (Internet Ethics and Digital Wellbeing Expert)
2	Session on “ Fake News ”	Mr. Rakesh Dubbudu, Founder of Factly, Fact Checking Expert
3	Session on “ Career in Cyber Security ”	Mr. S. Sai Krishna, Cyber Security Consultant at Cyber security Centre of Excellence, Telangana, DSCI.
4	Session on “ Empowerment via Social Media ”	Ms. Sravani Asuri, Founder DiginomaD, (Digital Marketing Expert)
5	Session on “ Internet Addiction ”	Dr. Boyanapally Philip Kumar, Care Hospital (Psychiatrist)
6	i) Session on “ Online & Offline Consent ” ii) Session on “ Social Engineering Crimes and Digital Intelligence ”	Mr. Anil Rachamalla, Founder of End Now Organization, (Internet Ethics and Digital Wellbeing Expert)

CYBER CONGRESS 2022



SOCIAL ENGINEERING CRIMES - COMMON FRAUDS

Debit / Credit Card Frauds	E Commerce Frauds	Email Frauds	Job Frauds
Social Media Frauds	Investments	Lottery Frauds	Romance Frauds
KYC Frauds		MLM Frauds	Loan Frauds
		Refund Frauds	Corp Frauds (Nidhi Razdan)

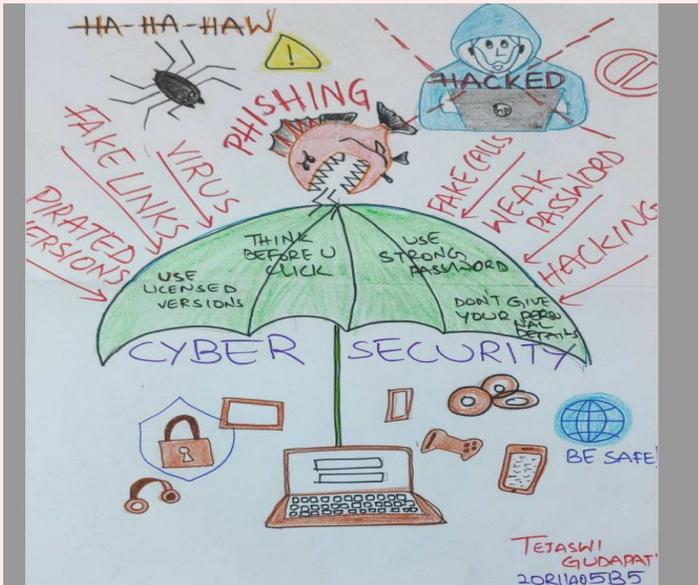




The **Cyberlympics** is a series of competitions held under Cyber Congress 2022. The competitions were thematic under various concepts of Cyber Security.

WINNERS of Cyberlympics:

S.NO.	Student Name / Roll Number	Event Name
1	Vempaty Bhanu Sri(20R11A06259) -Winner	Paper Presentation
2	S Sai Lahari (20R11A06247) - Winner Thakur Amulya (21R11A06257)- Runner up	Poster Presentation
3	Akash Reddy N (20R11A05A0) - Winner Vempaty Bhanu Sri (20R11A06259) - Runner up	Pictography

CYBER CONGRESS 2022**Thematic Painting on Cyber Security:****G. Tejaswi (20R11A05B5)****P. Shirisha Reddy (20R11A6239)****ROBOTICS CLUB ACTIVITIES**

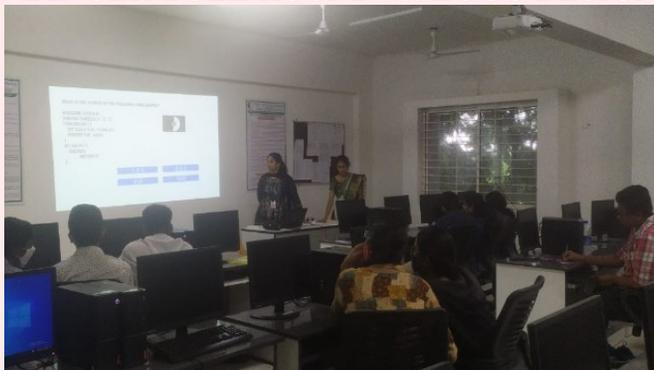
A Two Day Workshop on “**Arduino Workshop**” was conducted for B.Tech II, III, Year students, held on 3rd, 4th November, 2022 by the **Robotics Club** of Geethanjali College of Engineering & Technology. A Total of 40 students attended the workshop. The resource person for the workshop was Mr. **Ch. Sandeep**, Assistant Professor, ECE Dept., GCET. The objective of the workshop is to familiarize students with Arduino as IDE, programming application and to provide knowledge of Arduino boards and basic components and develop skills to design and implement various smart system applications.

**Arduino Workshop**

CODING CLUB ACTIVITIES

S.No.	Event Name	Date of Event	Number of Students Participated	Winners	Prize Won
1.	DINGER-BUZZ ROUND	06-08-2022	56	i) B.Vignesh (21R11A05F8) ii) Gopala Krishna (21R11A05F6)	I
				i) Simhadri Harshitha (21R11A6689) ii) Abdul Wadood (21R11A66H2) iii) Satwika Indrakanthi (21R11A66J2)	II
2.	LOGO DESIGN COMPETITION	25-08-2022	50	i) P Naga Sriya 21R11A0595 ii) Koushik Jonnada 21R11A1230	I
				i) Sathvika (21R11A66E6) ii) Devana Nune (21R11A66E6)	II

DINGER-BUZZ ROUND & LOGO DESIGN COMPETITION PHOTOS:



WHAT IS THE OUTPUT OF THE FOLLOWING CODE SNIPPET?

```
#INCLUDE <STDIO.H>
#include<STDLIB.H>
VOID SET(INT *TO) {
    TO = (INT*)MALLOC(5 * sizeof(INT));
}
VOID SOLVE() {
    INT *PTR;
    SET(PTR);
    *PTR = 10;
    PRINTF("%D", *PTR);
}
INT MAIN() {
    SOLVE();
    RETURN 0;
}
```



- ERROR
- 1
- 10
- PROGRAM CRASH

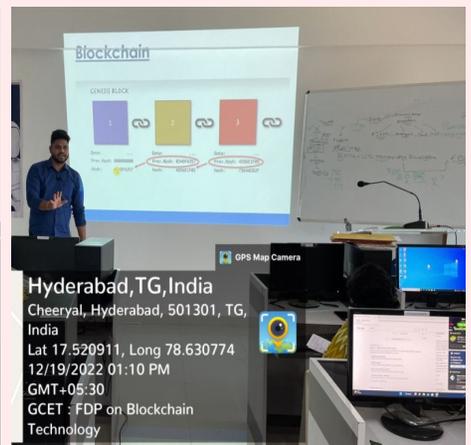
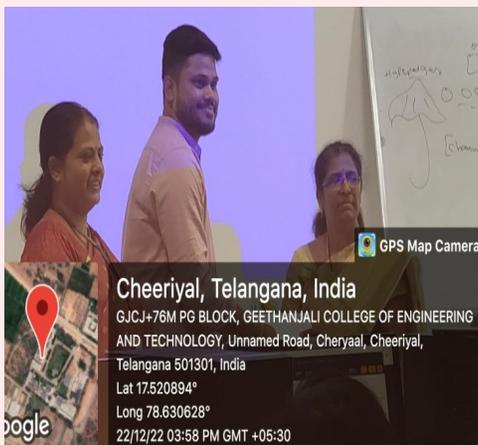


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Faculty Development Programs

- ◆ One week Faculty Development Program on “**Blockchain Technology**” conducted from 19th Dec to 24th Dec, 2022, organized by the **Department of Computer Science and Engineering** of Geethanjali College of Engineering & Technology. The resource persons for the FDP were **Dr. Kannan Srinathan**, Assistant Professor, IIIT Hyderabad, and **Mr. Prahant Sahu**, Blockchain Expert, Sr.Project Manager, TCS. A Total of 25 faculty members from GCET attended the FDP.



FDP on “Blockchain Technology”

Faculty Development Programs

- ◆ One week Faculty Development Program on “**Microsoft Power BI Data Analyst Associate**” was conducted from 12th Sept to 16th Sept, 2022, organized by the Department of Computer Science and Engineering of Geethanjali College of Engineering & Technology in association with **ICT Academy**. The resource person for the FDP was **Mr. Kambhampati Raghavendra Swamy, Senior Technical Trainer, ICT Academy**. A Total of 25 faculty members from GCET attended the FDP.



FDP on “Microsoft Power BI Data Analyst Associate”

- ◆ Two Day Workshop on “**Stepping Towards Problem and Project Based Learning**” held on 30th, 31st Dec, 2022. The Resource person for the workshop is **Dr. Vikas Vithal Shinde, Director, Centre of Excellence in PBL, Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur, Maharashtra**. A Total of 13 faculty members from CSE Dept., attended the FDP.



Workshop on “Project Based Learning”

Value Added Courses/Training Programs/Student Development Programs

- ◆ A Value Added Course on “**Python Programming**” was conducted for B.Tech. II Year I sem CSE students from 29th October, 2022 to 04th February, 2023 on every Saturday in a week. A Total of 152 CSE students attended the training program. The resource person for “Python Programming” was **Mr. M Srinivas**, Professor, CSE Department, GCET.



Fig. Value Added Course on “Python Programming”

- ◆ Training Program on “**Basic Programming Skills**” - Phase 1 was conducted for B.Tech. CSE III Year students from 17th October 2022 to 10th December, 2022 on every Monday and Tuesday in a week. The overall faculty coordinator for the training program was Mrs. **K.Gnana Mayuri**, IT Dept., GCET. A Total of 175 students attended the training program. The resource person for the training program was faculty from **Cantilever Labs**.

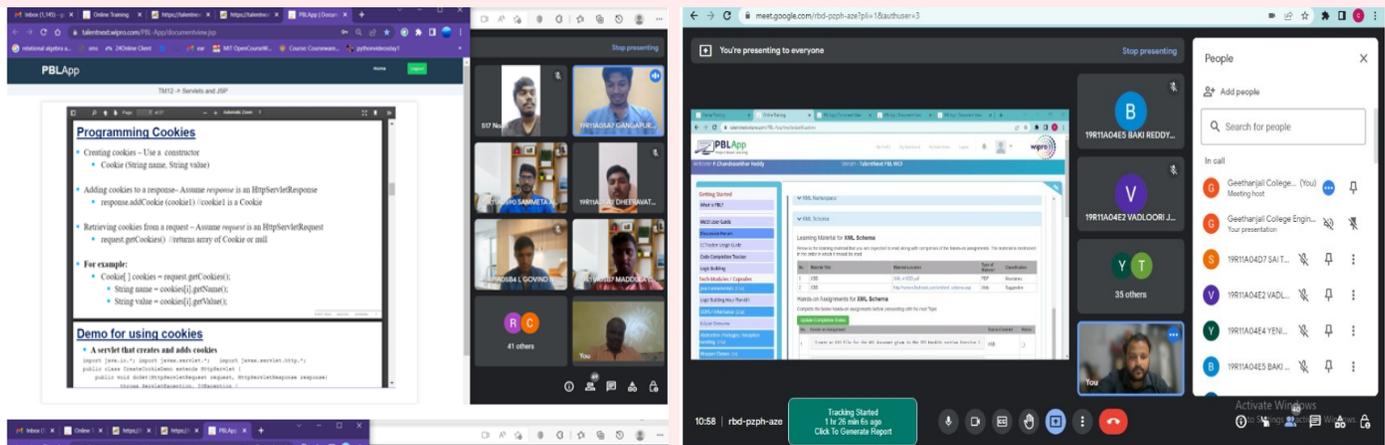


Fig. Basic Programming Skills Training

- ◆ Training Program on “**Advanced Programming Skills-Phase 1**” was conducted for B.Tech. CSE III Year students from 17th October, 2022 to 10th December, 2022. A Total of 73 students participated in the training program. The resource persons for the training program were **Mr. Amit Bansal**, Founder, Smart Interviews and **Ms. K. Anusha**, Smart Interviews, Hyderabad.

Value Added Courses/Training Programs/Student Development Programs

- ◆ **“WIPRO JAVA J2EE Training Program” - Phase 1** was conducted for B.Tech. final year CSE, IT, ECE, EEE students from 13th June, 2022 to 06th August, 2022 and **“WIPRO JAVA J2EE Training Program” - Phase 2** was conducted for B.Tech. final year CSE, IT, ECE, EEE students from 07th October to 20th October, 2022 . A Total of 154 CSE students participated in the program. The resource persons for the training program were **Mr. G. Praveen Kumar**, Assistant Professor, CSE Department, **Mr. S. Ramanjaneyulu**, Assistant Professor, CSE Department, **Mr. P. Chandra Sekhar Reddy**, Assistant Professor, CSE Department, **Mr. K. Naresh Babu**, IT Department, **Mrs. K. Padmaja**, Assistant Professor, CSE-AI&ML Department, GCET.



“WIPRO JAVA J2EE Training Program”

Industrial Visit

- ◆ Four members of IV year CSE students and two faculty members of the CSE Department have visited the **“Boiler Building Plant”** for the development of project prototype titled **“Automation of Oil Distillation Process for farmers”**, held at Siddipet, Telangana.
- ◆ **“Oil Expellers process”** visit at International Convention Centre HICC, Izzathnagar, Kothaguda, Telangana on 27-Sept-2022.



- ◆ **2nd International Conference on Computational Intelligence in Machine Learning (ICCIML 2022)** was organized by CSE Department of Geethanjali College of Engineering & Technology, Hyderabad, India and joint Collaboration with University of Science & Technology, Chittagong, Bangladesh, held on 18th to 19th November, 2022. The **Program Chair** of the conference were **Dr. V. Madhusudan Rao**, Professor & Dean-SCSI, GCET and **Dr. A. Sree Lakshmi**, Professor & HoD-CSE, GCET. The **Conference Secretary** was **Dr. Puja S Prasad**, Associate Professor, CSE Dept., GCET, and **Coordinator** for the conference was **Mrs. C. Esther Varma**, Associate Professor, CSE Dept., GCET. The **Chief Patron** of the conference was **Sri. G. R. Ravinder Reddy**, Chairman, Geethanjali Group of Institutions and **Patron** of the conference was **Dr. S. Udaya Kumar**, Principal, Geethanjali College of Engineering and Technology. The **Chief Guest** for the inaugural session of conference is **Smt. Rama Devi Lanka**, Director, Emerging Technologies and Officer on Special Duty, Telangana State. The **Chief Guest** for the valedictory session of conference was **Dr. A. Govardhan**, Professor & Rector, JNTU Hyderabad.
- ◆ Conference Website: <https://sites.google.com/view/icciml>
- ◆ The Key Note Speaker for the conference on DAY 1 was **Dr. CELESTINE IWENDI**, IEEE Brand Ambassador, visiting professor with many Universities, Fellow of the Higher Education Academy, United Kingdom.
- ◆ The Key Note Speaker for the conference on DAY 2 was **Dr. Thippa Reddy Gadekallu**, Senior Member of IEEE and Associate Professor, VIT University, Vellore.

Best Paper Award at ICCIML 2022:

Mrs. S. Radha, Assistant Professor, CSE Dept., GCET, **V. Sai Prakash Chary (19R11A05E1)**, **Pedduri Veena Vani (19R11A0587)**, were received the “**Best paper Award**” for the research paper titled “**Secure Software Development Cycle: An Approach to Reduce the Risks of Cyber Attacks in Cyber physical systems and Digital Twins**”.

ICCIML 2022 Photos:



Felicitations to Esteemed Alumni of GCET - CSE Department:

◆ A Total of Five alumni of the CSE department were honoured for their contributions to the CSE department during their graduation. Felicitations to esteemed alumni of GCET - CSE department event was held on 19th November, 2022. The alumni received a gift award and a letter of appreciation. The alumni were felicitated by the **Sri. G. R. Ravinder Reddy**, Chairman, Geethanjali Group of Institutions and **Dr. S. Udaya Kumar**, Principal, Geethanjali College of Engineering and Technology and **Dr. A. Govardhan**, Professor & Rector, JNTU Hyderabad. The Faculty Alumni coordinator of CSE Dept., was **Mrs. E. Vijaya**, Assistant Professor, CSE Dept., GCET.

◆ The list of alumni honoured is given below:

1. MAMANDURU GOKUL (17R11A0575) - Batch : 2017-2021
2. GADE SAHITHYA KIRANI (17R11A05L2) - Batch : 2017-2021
3. BHEMISSETTY ABHISHEK (18R11A0554) - Batch : 2018-2022
4. ARENDRA SAI KRUPA CHARY (18R11A0550) - Batch : 2018-2022
5. T.VISHNU VARDHAN REDDY (18R11A0592) - Batch : 2018-2022

1. **MAMANDURU GOKUL** is currently working at **HealthcareNow**, as a Full-Stack Developer. His contributions to the department are:

- ◆ Developer of BHASWARA app
- ◆ Core Member of Incubation cell, GCET
- ◆ Core Member of Coding and Robotics club, GCET
- ◆ Certified Ethical Hacker
- ◆ Developer and Administrator for the Geethanjali App
- ◆ Website Developer of Manotron 2K19
- ◆ Developer for the “Nodue” APP
- ◆ Website Developer for the ICMM-2019
- ◆ Developer of webapps for the Hackathons - “agri-e-thon”
- ◆ Developer of 24 hours Hackathon website and Robotic process Automation Hackathon at GCET
- ◆ Developer for the Website “Alfematica and Mathematica” events
- ◆ Winner of the Hackathon in the CSIS 20 conducted by the IEEE Kerala.
- ◆ Achieved 5 Stars in Hacker Rank Coding contest by solving Python Programming Challenges.

2. **GADE SAHITHYA KIRANI** is currently working at **Accenture**, as a Application Development Associate. Her contributions to the department are:

- ◆ Worked as Event chair for all the Hyderabad Women in Engineering Student Congress (AHWIESC'20)
- ◆ Acted as Registration Lead for ENIGMA 2.0 (2-Day Symposium)
- ◆ Received appreciation letter for participating in IEEE Xtreme
- ◆ She organized a number of IEEE events
- ◆ She actively promoted the IEEE CS Chapter
- ◆ She has secured All India Rank 10299 in GATE Exam



MAMANDURU GOKUL



G. Sahithya Kirani

Felicitation to Esteemed Alumni of GCET - CSE Department:

3. BHEMISSETTY ABHISHEK is currently working at **Zemoso Technologies**, as a Associate Software Engineer. His contributions to the department are:

- ◆ He was Participated in VMware Tanzu Build-A-Thon and Achieved “Mentor support for Tanzu Build-A-Thon” conducted by the Smart Bridge on 12th April, 2021.
- ◆ He was Certified “Microsoft Azure Data Scientist”
- ◆ He was participated in the Google Cloud Career Readiness Program And achieved "Career Readiness Student Mentor" by the Google.
- ◆ He was organized the #WomenWhoHack Hackathon Event in association with Swecha Organization, held on March 8th, 2022.
- ◆ He was exhibited his "Medical Assistance Drone" model in the competition. The project was appreciated by the Governor of Telangana and - the MCEME Commandant.
- ◆ He was Participated in IPAS Challenge (International Planetary Aerial Systems Challenge) and Achieved 25th Position conducted by the Mars Society South Asia on 5th May, 2021.
- ◆ He was ranked fourth in the class of the 2018-2022 batch with a CGPA of 9.11
- ◆ He was part of the team that won the first prize in the JNTUH Innovation Challenge for his prototype idea titled "Surface Disinfection System“



B. Abhishek

4. ARENDRA SAI KRUPA CHARY is currently working at **TCS**, as a System Engineer.

His contributions to the department are:

- ◆ He was Participated in IPAS Challenge and Achieved 25th Position, conducted by the Mars Society South Asia on 5th May 2021
- ◆ He is an NSS Volunteer and organized various NSS activities
- ◆ Website Developer of “VAISHESHIKA 2020”
- ◆ Winner of Machine Learning Codethon



A. Sai Krupa Chary

5. T.VISHNU VARDHAN REDDY is currently working at **TCS**, as a System Engineer.

His contributions to the department are:

- ◆ He was finalist in Virtusa Neural Hack Season 5, 2021.
- ◆ He was Participated in IPAS Challenge and Achieved 25th Position, conducted by the Mars Society South Asia on 5th May 2021
- ◆ Top Performer in E- Codethon conducted by IEEE - GCET - SB
- ◆ He secured All India Rank 8077 with a score of 427 in GATE Exam.



T. Vishnu Vardhan Reddy

Project Based Learning

◆ A Total of nine projects were carried out by IV Year CSE students under Project Based Learning (PBL) in the course “**Internet of Things**” under the guidance of Mrs. K. Krishna Jyothi, Associate Professor. The students were developed the following projects:

1. Parking assistance using Ultrasonic sensor and Node MCU Firmware.
2. Traffic sign recognition and alert system using IoT
3. Emotion detection using GSR sensor
4. Smoke/Gas Detection
5. Wireless weather station
6. LED light & buzzer controller using Google assistant
7. Obstacle avoiding line follower robot using Arduino
8. Arduino based rain water harvesting system
9. Gathering temperature and humidity data on SD card using Arduino

◆ A Total of thirteen projects were carried out by II Year CSE students under Project Based Learning (PBL) in the course “**Object Oriented Programming**” under the guidance of Dr. A. Sreelakshmi, Professor & HoD, Dr. B.V. Swathi, Professor, Dr. G. Kalyani, Associate Professor, Mr. S. Ramanjaneyulu, Assistant Professor. The students were developed the following projects:

1. ROCK - PAPER - SCISSORS
2. BULL AND COW GAME
3. WORD SEARCH
4. CURRENCY CONVERTER
5. CHAT APPLICATION
6. ONLINE VOTING SYSTEM USING APPLETS
7. QUIZ APPLICATION
8. SMART MART
9. DBOH - CONVERTER (Decimal number to Binary, Octal or Hexadecimal system)
10. TIC TAC TOE GAME
11. SCIENTIFIC CALCULATOR
12. BINGO GAME
13. WOLF-A INTERPRETER LANGUAGE

Students Qualified in GRE/IELTS/DUOLINGO during July-Dec 2022

S.No.	Roll Number	Student Name	Name of the Qualified Exam
1	19R11A0503	Alimi Uday Kiran	GRE, IELTS
2	19R11A0505	D Hima samiirr	GRE, IELTS
3	19R11A0518	K Sowmya sree	GRE,IELTS
4	19R11A0519	Korapolu Sriya	GRE, IELTS
5	19R11A0522	Mamidi Likhitha	GRE, IELTS
6	19R11A0547	Paritosh Vatturi	GRE, IELTS
7	19R11A0548	V Neeraja	GRE, IELTS
8	19R11A0552	Banuri Bhavana Reddy	IELTS
9	19R11A0563	Vaishnavi Gandhi	GRE
10	19R11A0568	Surya Vardhan Reddy Katta	GRE
11	19R11A0575	Markala Manaswini	GRE
12	19R11A0576	M Akash Reddy	GRE, TOFEL
13	19R11A0579	Nagulapalli Lasya Priya	IELTS
14	19R11A0581	Rohan Kausik Nandula	GRE, IELTS
15	19R11A0589	Ritikaa Kailas	IELTS
16	19R11A0590	Sammeta Ashok Kumar	GRE
17	19R11A0593	Thalla Lokesh Reddy	GRE
18	19R11A0595	Srikruthi Varanasi	GRE
19	19R11A05B1	K Veeren Vishwanth Sai	IELTS
20	19R11A05E3	V Nikhita Reddy	IELTS
21	19R11A05H4	K Akhila	GRE
22	19R11A05J1	P Shivani	GRE
23	19R11A05J4	Puvvada Abhinaya	IELTS
24	19R11A05J5	Rachapudi Jayani	IELTS
25	19R11A05K5	Rohith Allala	GRE
26	19R11A05L4	Duggirala Rajya Lakshmi Devi	IELTS
27	19R11A05M9	Manda Karthik	GRE
28	19R11A05N4	Myson Sunny Raj	GRE, IELTS
29	19R11A05P8	Suramm Mahesh Reddy	IELTS
30	20R15A0520	Mada Sai Kiran	GRE
31	20R15A0524	V Lovekush Rao	GRE

Higher Education Details of 2018-2022 Batch as on December 2022

S.No.	Roll Number	Student Name	Qualified Exam	Name of the Course Admitted	University Name
1	18R11A0501	A SWAPNA	GRE, IELTS	MASTERS IN COMPUTERS AND INFORMATION SCIENCE	UNIVERSITY OF FLORIDA, UNITED STATES
2	18R11A0502	SHASHAANK ANDUGULA	GRE	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF MASSACHUSETTS BOSOTN, UNITED STATES
3	18R11A0506	CH SIRI SOWMYA	IELTS	MASTERS IN COMPUTER SCIENCE	ARIZONA STATE UNIVERSITY, UNITED STATES
4	18R11A0533	HARSHA VARDHAN PARUCHURI	GRE	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF DAYTON, UNITED STATES
5	18R11A0539	SIRIPURAPU GUNA SINDHUJA	IELTS	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF NORTH TEXAS, UNITED STATES
6	18R11A0547	VEMURI MADHU VENKATA SAI	GRE	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF DAYTON, UNITED STATES
7	18R11A05A5	CHARAN RAJU M	IELTS	MASTERS IN COMPUTER SCIENCE	PACE UNIVERSITY, UNITED STATES
8	18R11A05C9	PENDYALA NIKHIL RAO	IELTS	MASTERS IN COMPUTER SCIENCE	PACE UNIVERSITY, UNITED STATES
9	18R11A05F2	BOGURAM- PETA SUNIL REDDY	IELTS	MASTERS IN INFORMATION TECHNOLOGY	DEAKIN UNIVERSITY, AUSTRALIA
10	18R11A05F4	CHINTAMA- NENI MEGHANA	GRE, IELTS	MASTERS IN INFORMATION TECHNOLOGY	CENTRAL MICHIGAN UNIVERSITY, UNITED STATES
11	18R11A05G7	KOMMERA VAMSHI KRISHNA REDDY	IELTS	MASTERS IN COMPUTER SCIENCE	WRIGHT STATE UNIVERSITY, UNITED STATES

Higher Education Details of 2018-2022 Batch as on December 2022

S.No.	Roll Number	Student Name	Qualified Exam	Name of the Course Admitted	University Name
12	18R11A05G9	KORUKOP-PULA SAI KRISHNA	IELTS	MASTERS IN COMPUTER SCIENCE	WRIGHT STATE UNIVERSITY, UNITED STATES
13	18R11A05J3	SANJANA SEELAM	GRE, IELTS	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF MASSACHUSETTS LOWELL, UNITED STATES
14	18R11A05J7	TUMMALA VARSHITH	GRE, IELTS	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF SOUTH FLORIDA, UNITED STATES
15	18R11A05J9	VADDE NITHISH	IELTS	MASTERS IN COMPUTER SCIENCE	WRIGHT STATE UNIVERSITY, UNITED STATES
16	18R11A05K1	VIPRAGHNA VISHWANATH SRIKAKU- LAPU	GRE, IELTS	MASTER OF SCIENCE IN COM- PUTER SCIENCE	UNIVERSITY OF NORTH CAROLINA CHARLOTTE, U.S.
17	18R11A05L7	ANIRUDH REDDY KALLU	GRE, IELTS	MASTERS IN COMPUTER SCIENCE	PURDUE UNIVER- SITY AT PURDUE UNIVERSITY NORTHWEST, U.S.
18	18R11A05N0	PALVAI VARSHINI	GRE, IELTS	MASTERS IN COMPUTER SCIENCE	INDIANA UNIVERSITY, UNITED STATES
19	18R11A05N9	SUDAGANI SANJANA	GRE, IELTS	MASTERS IN COMPUTER SCIENCE	INDIANA UNIVERSITY, UNITED STATES
20	18R11A05P0	SUDHESHNA JINNA	GRE, IELTS	MASTERS IN COMPUTER SCIENCE	BOSTON UNIVERSITY, UNITED STATES
21	18R11A05P2	TANMAYI KASTHURI	GRE, IELTS	MASTERS IN COMPUTERS AND INFORMATION SCIENCE	GEORGE MASON UNIVERSITY, UNITED STATES
22	18R11A0510	G NAGA HARSHITA	GRE, IELTS	MASTERS IN COMPUTER SCIENCE	ARIZONA STATE UNIVERSITY, UNITED STATES

Higher Education Details of 2018-2022 Batch as on December 2022

S.No.	Roll Number	Student Name	Qualified Exam	Name of the Course Admitted	University Name
23	18R11A0512	SRI SAI PRANAVI GANTI	IELTS	MASTERS IN COMPUTER SCIENCE	GEORGE WASHINGTON UNIVERSITY
24	18R11A0521	L A PRITHVI-RAJ KUMAR	IELTS	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF MARYLAND, BALTIMORE COUNTY (UMBC), UNITED STATES
25	18R11A0561	D. SWEET-RUTHI	GRE	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF BUFFALO, UNITED STATES
26	18R11A05K7	SAGAR BHUKYA	GRE	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF BRIDGEPORT, UNITED STATES
27	18R11A05M6	KOPPOLI LILY VERONICA	IELTS	MASTERS IN DATA SCIENCE	UNIVERSITY OF PACIFIC (UOP), San Francisco
28	18R11A05H7	KRISHNA BHARADWAJ PENUMARTHI	GRE	MASTERS IN COMPUTER SCIENCE	UNIVERSITY OF DAYTON, UNITED STATES
29	18R11A05K4	B. VAGDEVI SAHASRA	GRE	MASTERS IN COMPUTER SCIENCE	GEORGETOWN UNIVERSITY, UNITED STATES

Student Participation in Co-Curricular Activities

S.NO.	Student Name / Roll Number	Name of the Workshop/ Certification Course/ Event Name	Name of the College/ Organization/ University	Date (s) of Participation/ Completion	Prize Won
1	V. Manasa (20R11A05H8)	Hackathon	Geethanjali College of Engineering and Technology	11-6-2022 to 12-6-2022	Participated
2	V. Vinay (19R11A05P9)	Hackathon	Geethanjali College of Engineering and Technology	11-6-2022 to 12-6-2022	Participated
3	Sunny Raj Myson (19R11A05N4)	Hackathon	Geethanjali College of Engineering and Technology	11-6-2022 to 12-6-2022	Participated
4	P Kaustubh (19R11A05N8)	Hackathon	Geethanjali College of Engineering and Technology	11-6-2022 to 12-6-2022	Participated
5	G Nandini Laxmi Priya (19R11A05L5)	Hackathon	Geethanjali College of Engineering and Technology	11-6-2022 to 12-6-2022	Participated
6	Chitturi Aruna (20R11A0572)	Hackathon	Geethanjali College of Engineering and Technology	11-6-2022 to 12-6-2022	Participated
7	V Durga Prasad (21R11A05A1)	Hackathon	Geethanjali College of Engineering and Technology	11-6-2022 to 12-6-2022	Participated
8	S. Venkatesh (21R11A0550)	Hackathon	Geethanjali College of Engineering and Technology	11-6-2022 to 12-6-20200	Participated
9	Gayathri Susmitha Ramadugu (20R11A05A4)	Web Designing - HTML5, CSS and Twitter Bootstrap	Easy Shiksha, Hawkode	28-7-2022	Completed
10	L. Bhanu Prasad (20R11A0594)	Command Line in Linux	Coursera	05-08-2022	Completed
11	G. Dhruvi (20R11A0582)	Command Line in Linux	Coursera	28-8-2022	Completed
12	T Kranthi Kiran (20R11A0553)	Smart India Hackathon 2022	Indian government	25-8-2022 to 26-8-2022	Participated

Student Participation in Co-Curricular Activities

S.NO.	Student Name / Roll Number	Name of the Workshop/ Certification Course/ Event Name	Name of the College/ Organization/ University	Date (s) of Participation/ Completion	Prize Won
13	Aniketh Kamlekar (20R11A05C6)	Data Visualization: Empowering Business	Forage, Coursera	23-8-2022	Completed
14	B. Saketh Ram (20R11A0569)	Paper Presentation	CRC	1-7-2022 to 7-8-2022	Participated
15	B. Swabhan Rao (20R11A0567)	Machine Learning Specialization	Stanford university	16-07-2022 to 14-8-2022	Completed
16	T. Yakshitha (20R11A0556)	Smart India hackathon 2022	Indian government	24-8-2022 to 26-8-2022	Participated
17	Shrikeraa Beraar (20R11A0552)	Smart India hackathon 2022	Indian government	25-8-2022 to 26-8-2022	Participated
18	Surya Vinay (20R11A0507)	Smart India hackathon 2022	Indian government	25-8-2022 to 26-8-2022	Participated
19	Khushi Jha (20R11A0593)	Smart India hackathon 2022	Indian government	25-8-2022 to 26-8-2022	RunnerUp
20	Ramadugu Gayathri Susmitha (20R11A05A4)	Introduction to Artificial Intelligence	Skill UP, SimpliLearn	28-8-2022	Participated
21	V. Laxmana Vyaas (20R11A05B6)	SMARTINIS-2	Geethanjali College of Engineering and Technology	3-9-2022	Participated
22	Abhiram Annadanam 20R11A0564	Machine Learning	Stanford University (coursera)	10-9-2022	Completed
23	Bari Sharath Kumar (20R11A0568)	Supervised Machine Learning: Regression & Classification	Stanford University (coursera)	20-9-2022	Completed
24	Bhartipudi Saketh Ram (20R11A0569)	Machine Learning	Stanford University (coursera)	10-9-2022	Completed
25	B. Karthik (21R15A0507)	Build Your Own Website	Nextwave	9-9-2022	Participated

Student Participation in Co-Curricular Activities

S.NO.	Student Name / Roll Number	Name of the Workshop/ Certification Course/ Event Name	Name of the College/ Organization/ University	Date (s) of Participation/ Completion	Prize Won
26	K Rohitha (20R11A0588)	Cyber Congress Event 2022	Geethanjali College of Engineering and Technology	21-10-2022	Volunteer
27	K Greeshma (20R11A0587)	Megathon	IITH	22-10-2022	Participated
28	Vudhanthi Neeraja (19R11A0548)	4-Week Cyber-security – Defensive Hacking Virtual Internship	Illinois Institute Of Technology, Global-shala	1-10-2022	Completed
29	A. Vasanth Kumar (21R11A0502)	Techinspire , Quiz	Geethanjali College of Engineering and Technology	28-10-2022	Participated
30	N.Sai Naga Bhargavi (21R15A0510)	Sadhana Orphanage Visit	Geethanjali College of Engineering and Technology	21-10-2022	Participated
31	Vudhanthi Venkata Sesha Sai Eshwar (20R11A05H9)	4-Week Cyber-security Defensive Hacking Virtual Internship	Illinois Institute Of Technology, Global-shala	1-10-2022	Completed
32	A Naga Harshini (20R11A0563)	Cyber Congress	Geethanjali College of Engineering and Technology	21-10-2022	Participated
33	B. Karthik (21R15A0507)	Virtual Reality mini project	NxtWave Ccbp4.O	31-10-2022	Completed
34	Sindhu Varala (20R11A0559)	Industrial visit and leader ship talks in ABB Ltd.	Lila poonawala foundation	15-9-2022	Participated
35	Y.Nithin Aditya (20R11A05C0)	Cyber Congress	Geethanjali College of Engineering and	21-10-2022	Participated
36	B. Tejasri (21R11A0508)	Techinspire	Geethanjali College of Engineering and	28-10-2022	Participated

Student Participation in Co-Curricular Activities

S.NO.	Student Name / Roll Number	Name of the Workshop/ Certification Course/ Event Name	Name of the College/ Organization/ University	Date (s) of Participation/ Completion	Prize Won
37	Gudipelly Mudith Reddy (20R11A05E0)	IBM Data Science	Coursera	30-10-2022	Completed
38	Madiraju Sriram (20R11A0597)	AI (Internship)	1STOP	12-10-2022	Completed
39	Sankula Sreeya (20R11A05B0)	Cyber Congress	GCET	21-10-2022	Participated
40	G Eeshwar (19R11A0509)	PHP course for beginners	Udemy	30-10-2022	Completed
41	Renesh Krishna (20R11A0543)	Cyber Congress	GCET	21-10-2022	Participated
42	Enugula Poojitha (20R11A0575)	Megathon	IIITH	22-10-2022	Participated
43	Oruganti Rajini (21R15A0509)	Cyber Congress	GCET	21-10-2022	Participated
44	N.Akash Reddy (20R11A05A0)	Pictography (Cyber Congress)	GCET	21-10-2022	Participated
45	Jayanthi Harshitha (20R11A0583)	Megathon	IIITH	22-10-2022	Participated
46	Chitturi Aruna (20R11A0572)	Megathon	IIITH	22-10-2022	Participated

Graduation Day:

The Fourteenth Graduation Day of the college was organized on 23rd July, 2022, 11AM at Geethanjali College Auditorium (CSE Seminar Hall-Block 1). Graduation ceremony was conducted for the student batch 2018-2022. Batch Toppers were honored with Medals and certificates on this occasion.

**Bathukamma Festival:**

Bathukamma festival was celebrated in the college under the Fine Arts & Cultural Club of the college on 1st October, 2022.



Alumni Meet 2022

- ♦ The **10th Alumni Meet** was organized in the college premises on 25th December, 2022. A Total of 100 alumni of various batches attended the alumni meet event. Many of the alumni expressed their willingness to support Geethanjali College in training, placement, development of modern laboratories, and delivery of expert lectures in emerging areas of technology. Alumni feedback was also collected from alumni regarding the organizational aspects of the alumni meet and their suggestions for improvement in professional training at Geethanjali College of Engineering and Technology. The Faculty Alumni coordinator of CSE Dept., was **Mrs. E. Vijaya**, Assistant Professor, GCET.



Alumni Meet 2022

Orientation Day:

Orientation Day for the newly admitted I Year B. Tech. students of the Academic Year 2022-23 was organized on October 31, 2022. The Chief Guest for the Orientation Day was **Sri. Chandrasekhar Sarma Garimella**, Director-Quality at CtrlS & Cloud4C, Hyderabad.



Orientation Day

Events Organized at Institution Level
NSS Events during July 2022 to Dec 2022

S.No	Date of Activity	Name of the Activity	Organized by/ Collaborating Agency	Number of Students Participated	Number of Faculty Participated
1	01-Aug-2022	Submission of Mid-term progress report of UBA Sanctioned Project Titled "Rampally Dayara Property Tax Management System"	Geethanjali College of Engineering and Technology and UBA	12	03
2	03-Aug-2022	Dental Camp in association with Navya Dental Super Speciality Hospital, Nagaram, Hyderabad.	GCET in association with Navya Dental Super Speciality Hospital.	242	40
3	29-Aug-2022	Distribution of Stationery to Government Primary School at Thimmaipalli Village	Geethanjali College of Engineering and Technology	25	08
4	07-Sept-2022	Distribution of Stationery to Government Primary School at Cheeryal Village	Geethanjali College of Engineering and Technology	25	08
5	24-Sept-2022, 26-Sept-2022	Inter and Intra College Elocution with poster presentation competition on the topic "KILL CANCER"	ISKCON, Kukatpally and Geethanjali College of Engineering and Technology	25	05
6	20-Oct-2022	UBA Project Report Submission	GCET and UBA	08	03
7	02-Nov-2022	Session on "Career Guidance" to Saidhamam School Students, Ramalingampally(V).	Geethanjali College of Engineering and Technology	25	04
8	24-Nov-2022	"Blood Donation Camp" in association with Thalassemia Sickle Cell Society, Vuppala Venkaiah Memorial Blood Bank, Rajendra Nagar, R.R District.	Geethanjali College of Engineering and Technology in association with Thalassemia Sickle Cell Society (TSCS).	180	12

Events Organized at Institution Level
NSS Events during July 2022 to Dec 2022

S.No	Date of Activity	Name of the Activity	Organized by/ Collaborating Agency	Number of Students Participated	Number of Faculty Participated
9	17-Dec-2022	Pulsar NS125 Two Wheeler Road Safety awareness campaign at GCET	Geethanjali College of Engineering and Technology	25	04
10	19-Dec-2022 to 19-Jan-2023	One month Skill Development Program on "Computer Fundamentals and MS-OFFICE Applications" for Support Staff of GCET & unemployed people of Cheeryal village	Geethanjali College of Engineering and Technology	44 Participants from Cheeryal village, Students-05	05

Blood Donation Camp:



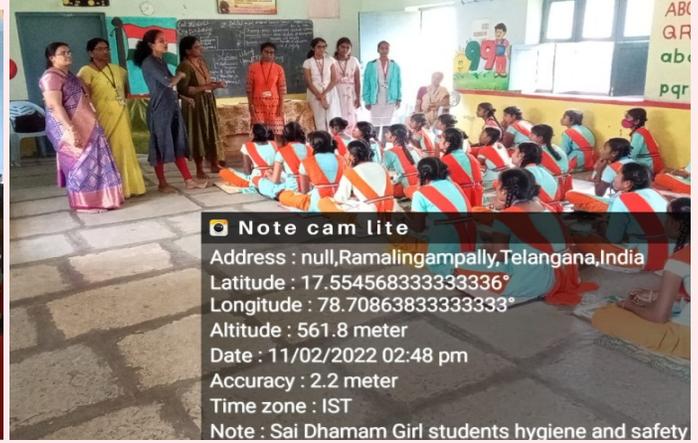
Dental Camp

NSS Events during July 2022 to Dec 2022



Note cam lite

Latitude : 17.554503333333333°
 Longitude : 78.70882°
 Altitude : 561.1 meter
 Date : 11/02/2022 01:36 pm
 Accuracy : 2.1 meter
 Time zone : IST
 Note : Sai Dhamam



Note cam lite

Address : null,Ramalingampally,Telangana,India
 Latitude : 17.554568333333336°
 Longitude : 78.70863833333333°
 Altitude : 561.8 meter
 Date : 11/02/2022 02:48 pm
 Accuracy : 2.2 meter
 Time zone : IST
 Note : Sai Dhamam Girl students hygiene and safety

Session on "Career Guidance" to Sai Dhamam School Students, Ramalingampally Village



Distribution of Stationery to Government Primary School at Thimmaipalli and Cheeryl Village



Note cam lite

Address : Chiryala Village,Cheeriyal,Telangana,India
 Latitude : 17.5213074°
 Longitude : 78.6306788°
 Altitude : 453.5 meter
 Date : 09/24/2022 02:28 pm
 Accuracy : 71.182 meter
 Time zone : IST
 Note : kill cancer Program

K. Aryan (21R11A6703), CSE-DS Dept., Winner of Inter and Intra College Elocution with poster presentation competition on the topic "KILL CANCER"

Skill Development Program

- ◆ One month skill development programme held on "**Computer Fundamentals and MS-OFFICE Applications**", is conducted by the Department of **Computer Science and Engineering** in collaboration with the **NSS Unit**, for support staff of GCET and unemployed residents of Cheeryal village from **19th Dec 2022 to 19th Jan 2023**. The timings of the training program is 9:30am to 12:30 pm. A Total of **44 participants** attended the training program. The Trainers for the one month skill development programme on "**Computer Fundamentals and MS-OFFICE Applications**" were **Mrs. T. Neelima**, Assistant Professor, CSE Department, **Ms. J. Meena Sravanthi**, Assistant Professor, CSE Department. The **Coordinators** for the SDP were **Mrs. S.Radha**, Assistant Professor, CSE Dept., **Mr. Y. Siva**, Assistant Professor, CSE Dept.
- ◆ We have donated working old computers to the **TOP FIVE** participants, who performed exceptionally well in the skill development program, so that they can extend their computer knowledge in various other application areas and gain employment as a result of this support. At the end of the training program, **Excellence certificates** and **participation certificates** are distributed to the participants.



Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Held at Institute/ Organization	Date(s) Held
1.	K. Prathima	FDP	Ethical Hacking	VNRVJIET, Hyderabad	08-08-2022 to 13-08-2022
2.	K. Prathima	FDP	Amazon Web Services	GITAM University, BRAINOVISION	22-08-2022 to 27-08-2022
3.	G. Udayasri	FDP	Research Trends and Technologies in industry 4.0	KSR & KKR Institute of Technology and Sciences	26-08-2022 to 30-08-2022
4.	P. Lalitha	FDP	Microsoft Power BI Data Analyst Associate	ICT Academy	12-09-2022 to 16-09-2022
5.	G. Uma Devi	FDP	Microsoft Power BI Data Analyst Associate	ICT Academy	12-09-2022 to 16-09-2022
6.	A. Abhilasha	FDP	Amazon Web Services (AWS)	GITAM University, BRAINOVISION	22-08-2022 to 27-08-2022
7.	A. Abhilasha	FDP	Microsoft Power BI Data Analyst Associate	ICT Academy	12-09-2022 to 16-09-2022
8.	S. Gopi Naik	FDP	Microsoft Power BI Data Analyst Associate	ICT Academy	12-09-2022 to 16-09-2022
9.	E. Vijaya	FDP	Recent Trends in IoT	Mahatma Gandhi Institute of Technology, Hyderabad	6-06-2022 to 10-06-2022
10.	E. Vijaya	FDP	Microsoft Power BI Data Analyst Associate	ICT Academy	12-09-2022 to 16-09-2022
11.	P. Krishna Rao	5 Days International Workshop	Multidisciplinary Applications of Artificial Intelligence for Innovation and	Adamas University	10-10-2022 to 14-10-2022
12.	A. Chandrakala	workshop	Designing and Modeling of IOT, AI&ML systems	ATAL academy	01-08-2022 to 05-08-2022

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Held at Institute/ Organization	Date(s) Held
13.	Dr. K. Krishna Jyothi, Dr. G. Kalyani	FDP	Latest Trends in AI, ML and IoT	MVSR Engineering College, Association with Applyvolts	22-08-2022 to 27-08-2022
14.	K. Vaghdevi, BH. Bhujanga Reddy, Dr. N. Lakshmi-pathi Anantha, J. Sudhakar	FDP	Microsoft Power BI Data Analyst Associate	ICT Academy	12-9-2022 to 16-9-2022
15.	A. Chandrakala	FDP	Recent Trends in IoT	MGIT, Hyderabad	06-06-2022 to 10-06-2022
16.	S. Ramanjaneyulu P. Chandrasekhar Reddy, G.Praveen Kumar	Training Program	Java Full Stack	WIPRO TalentNext	13-06-2022 to 24-06-2022
17.	S. Ramanjaneyulu P. Chandrasekhar Reddy, G.Praveen Kumar	Training Program	AI & ML	WIPRO TalentNext	05-09-2022 to 09-09-2022
18.	Dr. N. Lakshmi-pathi Anantha	FDP	Research Trends and Technologies in Industry 4.0	KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES, Guntur, A.P	26-09-2022 to 30-09-2022
19.	Dr. N. Lakshmi-pathi Anantha	FDP	Recent Tools & Technologies for Data Science and Artificial Intelligence	MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE	19-09-2022 to 26-09-2022
20.	G. Santhoshi	Online Course	Introduction to Basic Game Development using Scratch	Courseera	21-11-2022
21.	G. Santhoshi	Online Course	Getting Started with Azure DevOps Boards	Courseera	21-11-2022
22.	G. Santhoshi, P. Shambhavi	Online Course	Introduction to R Programming	Udemy	22-11-2022

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Held at Institute/ Organization	Date(s) Held
23.	R.V. Sudhakar	Training program	Front End Technology	EPAM Systems India Private LTD.	May 2022 to Aug 2022
24.	Dr. G. Soma Sekhar	FDP	Research Methodology for All Disciplines	Research India Foundation	15-10-2022 to 29-10-2022
25.	E. Mahender	Workshop	International Conference on Big Data Analytics	IIT-Hyderabad	19-12-2022 to 22-12-2022
26.	Dr. N Lakshmi-pathi Anantha	Workshop	International Conference on Big Data Analytics	IIT-Hyderabad	19-12-2022 to 22-12-2022
27.	R.V. Sudhakar	Workshop	International Conference on Big Data Analytics	IIT-Hyderabad	19-12-2022 to 22-12-2022

Student Articles**Be a G.O.A.T (Greatest Of All Time) at Film Making:**

I wonder why a stereotypical belief is always made on filmmakers. I rather believe that the most creative thing a man can perpetuate is 'FILM'. To be a filmmaker, you have to lead. You have to be psychotic in your desire to do something. People always like the easy route. You have to push very hard to get something unusual and out of the box. A basic trait of a filmmaker is never take a bad idea and never cast out a good idea. An idea is something that makes the film concrete. Creativity and hard work blended together is what we now call a movie. One can choose infinite number of paths to put his idea into the viewers head but the best way wins. David Lynch, one of the greatest filmmakers compared this statement with fishing; the deeper you go with your bait, the bigger your idea will be." Push the limits of every actor until you match the imagination of your idea. Make it worth everyone's time and energy. Enjoy your journey throughout and work like there's no tomorrow. Always keep your hopes high like your ideas. Celebrate and share your success and blame yourself for a failure. Now lift up your pen, start sketching your future and be the G.O.A.T (Greatest Of All Time).



Mr. B. Kushal Sai
(Roll No.: 19R11A0521)

AR Holograms: The future of 3D Visualization:

Watching movies and playing video games in the third dimension seems like a space-age entertainment, but this technology is way older than we can imagine. Stereoscopic photography, technically is the process of creating a “third dimension”, which was first invented in 1838. In this Stereoscopic photography a motion picture camera system records images from two different perspectives and an eyewear is then used to combine the perspectives and create the illusion of depth. Later the revolution was made in 3D technology with the invention of the IMAX 3D format, which was first seen at the 1986 World’s Fair in Vancouver, Canada. Further, the enhancement of 3D technology took place when IMAX with Laser 4K was introduced in 2015, which features a laser projection system. As 3D technology advanced over the years, it not only made its way through the entertainment industry but also became a prominent part in inspection and quality control, reverse engineering, rapid prototyping and 3D printing, Computational Fluid Dynamics (CFS), and Finite Element Analysis (FES).



Fig. a. 3D Visualization

The Augmented Reality, commonly known as AR, is an extension of 3D, that enables interactive experience of the “real-world environment” by combining a view of the real world with computer-generated elements. Augmented Reality incorporates three basic features: accurate 3D registration of virtual and real objects, a combination of real and virtual worlds and real-time interaction. These features help in projecting the 3D computer generated elements and help consumers engage and interact in the real world by altering their ongoing perception of their environment. As Augmented Reality is becoming widely understood and since it helps dodge the flaws of 3D visualization such as: Distortion of information and wrong interpretation and The improbability of interaction with the elements in a real-time environment.

consumers and experts are beginning to accept and work with AR in areas such as medical imaging, public safety etc., where an advanced 3D visualization is critical. Though Augmented Reality solves the problems related to distortion and interaction, it still doesn’t solve the major problem of occlusion. Occlusion happens when one object in a 3D space is blocking another object from view. This is considered to be a challenge in positional tracking. Adding to this, it is a well-known fact that viewing the 3D visualizations and experiencing Augmented Reality is only possible with the help of specially designed eye wear such as Active 3D shutter glasses and AR headsets respectively.



Fig. b. Holograms used in 3D visualization



Vudhanthi Neeraja
(Roll No:19R11A0548)

Quantum Computers:

Computers have had a profound impact on our lives and the way the world works. We can't imagine the world without computers. We've seen a wide variety of computer types and configurations. How they have evolved over time Since the dawn of time, there have been vacuum tube computers used. Later, transistors were used, followed by the modern computers we use today. Today's functions are diverse. Basic computers were used in the beginning, only a few digital calculations are performed after that we started reading and writing data. Later we have supercomputers that are used for a variety of purposes. They can perform high-level tasks because they can perform calculations at a much higher level faster than standard computers. Quantum computers are a new technology. Finally, a new generation of computers is available. Quantum Computers are extremely complex machines. In terms of high-level mathematical calculations, quantum computing is a very promising technology. Quantum computers can solve problems that would take days or months to complete in a matter of minutes or seconds.

Quantum Computing:

Quantum computing is based on Quantum Mechanics phenomena such as superposition and entanglement, in which it is possible to be in several states at the same time. Quantum Bits, or "qubits," are used to store and manipulate data. They are based on the spin of an electron or the polarization of a single photon. Quantum physics, often known as quantum mechanics, governs the circuit behaviour. Qubits, i.e. 0, 1, and superposition states of both 0 and 1, are used to represent information in quantum computing. The SQUID (Superconducting Quantum Interference Device) or Quantum Transistors are the fundamental components of quantum computers. The data processing in quantum computers is done in the Quantum Processing Unit, or QPU, which is made up of a number of linked qubits.



Fig. a. Quantum computing

Quantum computing uses the collective qualities of quantum states including superposition, interference, and entanglement to conduct computations. Quantum computers are data storage and processing machines that make advantage of quantum physics features. This can be tremendously beneficial for some jobs where they can considerably outperform even our most powerful supercomputers. Quantum computers have a variety of real-world applications such as Machine Learning & Artificial Intelligence, Cryptography & Cyber security.

Guthikonda Dhruti
(Roll No: 20R11A0582)



Exploring the World of Geospatial Data Visualization with Data Science:

Geospatial data visualization is a branch of data science that deals with the representation of geographical data on a map. The process of visualizing geospatial data involves using various tools and techniques to transform data into meaningful and insightful representations that can be easily understood by a wide audience. With the advent of modern data science tools and technologies, the process of geospatial data visualization has become more intuitive and interactive. This article will explore the world of geospatial data visualization and discuss various methods and tools that data scientists can use to create powerful visualizations.

Data Collection and Preparation:

The first step in the process of geospatial data visualization is to collect and prepare the data. This involves sourcing data from various sources such as government agencies, private organizations, or online databases. The data must then be cleaned, processed, and transformed into a format that can be used for visualization. One common format for geospatial data is the shapefile, which is a widely used format for storing geospatial data. Shapefiles contain information such as the location, shape, and attributes of geographical features such as points, lines, and polygon. Another common format is the GeoJSON format, which is a widely used format for storing geospatial data in JSON format. Once the data is collected and prepared, it can be loaded into a geospatial visualization tool such as QGIS or ArcGIS for further processing and visualization.

Visualizing Geospatial Data:

There are many ways to visualize geospatial data, and the choice of method depends on the type of data being visualized and the intended audience. Some common methods of visualizing geospatial data include choropleth maps, dot density maps, heat maps, and 3D visualizations.

Choropleth Maps:

Choropleth maps are used to visualize the distribution of a variable across a geographical area. The variable is usually represented by color, with different colors representing different levels of the variable. Choropleth maps are often used to visualize data such as population density, economic indicators, or environmental variables.

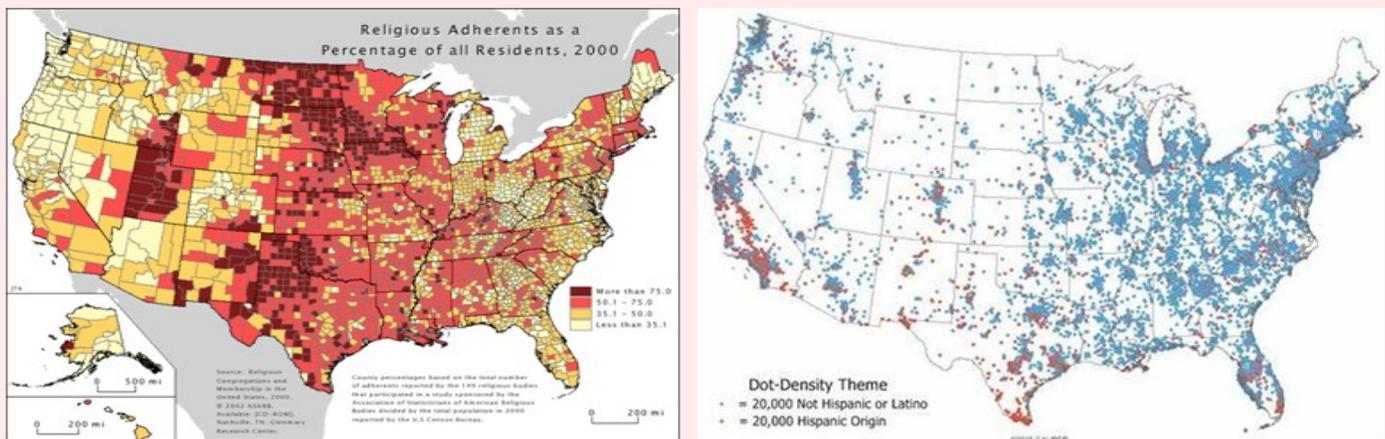


Fig. a. Choropleth Maps

Student Articles

Dot Density Maps:

Dot density maps are used to visualize the distribution of a variable across a geographical area by plotting a series of dots that represent the data points. The density of the dots is proportional to the value of the variable being visualized. Dot density maps are often used to visualize data such as population density, economic indicators, or environmental variables.

Heat Maps:

Heat maps are used to visualize the intensity of a variable across a geographical area. The intensity is represented by color, with different colors representing different levels of intensity. Heat maps are often used to visualize data such as population density, economic indicators, or environmental variables.

3D Visualizations:

3D visualizations are used to visualize geospatial data in three dimensions. 3D visualizations can be created using software such as ArcGIS or QGIS, and can be used to visualize data such as population density, economic indicators, or environmental variables. 3D visualizations can also be used to create animations that show the changes in a variable over time.

Tools for Geospatial Data Visualization:

There are a number of tools available for geospatial visualization, ranging from simple to complex, that can help to provide insights into the relationships and patterns of data in a spatial context. Some of the most commonly used tools include:

QGIS: A free, open-source and cross-platform desktop geographic information system that provides data visualization, analysis, and management capabilities.

ArcGIS: A commercial GIS software that offers advanced spatial analysis, data visualization, and mapping tools.

Google Earth: A virtual globe and mapping tool that allows users to explore satellite imagery, 3D terrain, and street-level data.

Tableau: A data visualization and business intelligence software that provides interactive maps and geospatial analytics capabilities.

D3.js: D3.js is a JavaScript library for creating dynamic and interactive data visualizations in web browsers. It can be used to create maps and other geospatial visualizations, and supports a wide range of data formats.

Leaflet: Leaflet is an open-source JavaScript library for creating interactive maps. It supports a variety of mapping services, including OpenStreetMap and Mapbox, and can be easily integrated into web applications.

Carto: Carto is a cloud-based platform that provides tools for creating and sharing maps, geospatial data, and interactive visualizations.

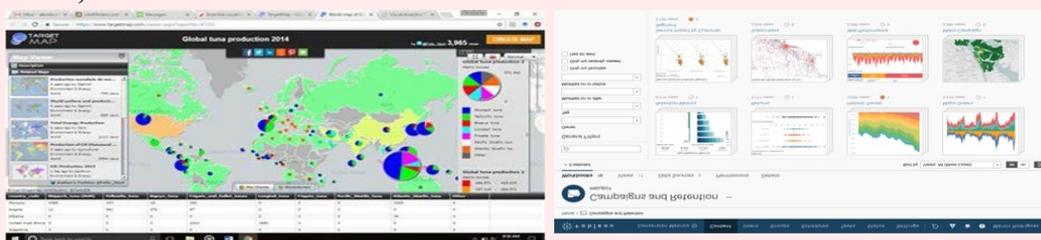


Fig. b. Geospatial Data Visualization



G. Mudith Reddy
(20R11A05E0)

METaverse:

Metaverse, is an emerging technology in today's world. Metaverse focuses on increasing social networking and the transfer of real-life emotions. Crypto currencies act as a link between the metaverse and the actual world. There have been several improvements recently, and many organizations are focused and investing in the advancement of this technology. Infrastructure aspects (e.g., large bandwidth network connection, fault management, and security) are also required for Metaverse implementations in order for many individuals to dwell in the same area. Many gaming and social media businesses, including as Meta, Roblox, Unity, Microsoft, and others, are creating the necessary gear and software for the establishment of Virtual Reality based Metaverse.

Impact on World:

The Metaverse has exploded as a result of Facebook's decision to rename as Meta. Of course, Facebook, the social media network, will continue to function normally. However, the corporation behind it is no longer known as Facebook, and is instead evolving into something larger, since it feels the metaverse is the next big thing, and it aspires to be the industry leader in bringing it to life and altering the world. It will make games more realistic and engaging, as well as allowing users to try things in a virtual environment before purchasing them. It will let you to go around the globe without ever leaving your room, similar to what you can do now with Google Maps and Street View, but picture it being more immersive and alive, and populated with other people who are also experiencing the world.

The Key Metaverse Specifications:**Virtual Reality:**

Customers can access the metaverse through virtual reality, closing the apparent divide between digital and physical realities. We will be able to discover new locations and make reports more accessible to everyone by using virtual variants of people, things, and landscapes.

Augmented Reality:

Sight, sound, touch, and motion are all sensory markers that feed a single conceptual picture of the arena in your brain. With augmented reality, this may be done with very little visual constancy, as long as virtual components are powerfully recognized geographically and temporally in your surroundings. The term metaverse means "beyond the cosmos," and it has several definitions to summarize, it is a three-dimensional network that combines current web 3.0, BlockChain technology, Virtual Reality (VR), and Augmented Reality (AR).

Web 3.0 in Metaverse:

Web 3.0 in the metaverse: As we've seen in recent years, these digital businesses are often poor custodians of consumer interests and data. As many new entrants to the metaverse market sketch out their future visions, it's critical that decentralization and user ownership are prioritized, which may be accomplished using the set of rules and standards provided by Web 3.0.

**Fig.a. Virtual Reality****Fig.b. 3D Virtual World****Lanka Bhanu Prasad**
(Roll No: 20R11A0594)

ChatGPT:

ChatGPT is a natural language processing tool driven by AI technology that allows you to have human-like conversations and much more with the chatbot. The language model can answer questions and assist you with tasks, such as composing emails, essays, and code. It's currently open to use to the public for free because ChatGPT is in its research and feedback-collection phase.

ChatGPT was created by OpenAI, an AI and research company. The company launched ChatGPT on November 30, 2022. OpenAI is also responsible for creating DALL-E 2, a popular AI art generator, and Whisper, an automatic speech recognition system. You can access ChatGPT simply by visiting chat.openai.com and creating an OpenAI account.

ChatGPT runs on a language model architecture created by OpenAI called the **Generative Pre-trained Transformer (GPT)**. The specific GPT used by ChatGPT is fine-tuned from a model in the **GPT-3.5** series, according to OpenAI. However, with a subscription to ChatGPT Plus, you can access ChatGPT with **GPT-4**, Open AI's most advanced model.

Generative AI models of this type are trained on vast amounts of information from the internet, including websites, books, news articles, and more. The language model was fine-tuned using supervised learning as well as reinforcement learning. The use of Reinforcement Learning from Human Feedback (RLHF) is what makes ChatGPT especially unique. Through RLHF, human AI trainers provided the model with conversations in which they played both parts, the user and AI assistants, according to OpenAI.

Difference between ChatGPT and a search engine:

ChatGPT is a language model created to hold a conversation with the end user. A search engine indexes web pages on the internet to help the user find the information they asked for. The free version of ChatGPT does not have the ability to search the internet for information. It uses the information it learned from training data to generate a response, which leaves room for error.

Another major difference is that ChatGPT only has access to information up to 2021, whereas a regular search engine like Google has access to the latest information. So if you ask the free version of ChatGPT who won the World Cup in 2022, it wouldn't be able to give you a response, but Google would. If you are a ChatGPT Plus subscriber, you have access to Bing's integration into ChatGPT, which gives the chatbot access to the internet. Since it has the ability to index the web, the major difference between ChatGPT Plus and a search engine is the chatbot's ability to understand natural language prompts and provide conversational answers.

ChatGPT limitations:

One of the main challenges with natural language processing is the issue of bias. Because the model is trained on a massive dataset of text, it can inadvertently learn and reproduce biases that exist in the data. This is a concern, as these biases can perpetuate harmful stereotypes and lead to discrimination.

Another concern is the potential for ChatGPT to be used for malicious purposes. For example, it could be used to generate fake news or manipulate public opinion. It's essential to consider the ethical implications of using a tool like ChatGPT and to ensure that it is used responsibly.

Maramamula Sai Sri Vishnu

(Roll No: 20R11A0598)



Let your thoughts do the work: Brain - Computer Interface (BCI):

How good would it be if one could control their environment simply with their thoughts? Perhaps, you could finish your assignment without any physical effort. Maybe, you could edit a video, control a PowerPoint presentation, or log in to your account by simply thinking of your password. These fictional-sounding scenarios might become a reality soon with the help of an increasingly-popular computer-based technology called Brain-Computer Interface.

Introduction:

Signals from the brain, carrying an intent of an individual, travel from peripheral nerves and muscles to other parts and activate them. That is how a person responds to a stimulus. Peripheral nerves are a network of motor and sensory nerves that connect the brain and spinal cord with the entire body. These nerves are the means of communication between the brain, spine, and different parts of the body. Any damage to the nerve cells of the brain and spine can cause a loss of muscle control that disables the physical activities of a person.

Many technologies acquire brain signals from these peripheral pathways and communicate to external devices like robotic arms to perform actions. But, such technologies cannot help disabled individuals. On the other hand, BCI(Brain-Computer Interface) provides a new pathway for the signals. It uses electrodes to detect and acquire brain signals from the scalp.

Brain-Computer Interface (BCI):

BCI acts as an interface between the brain and external devices. It facilitates communication between the human brain and external devices via signals. In simple terms, the signals from the brain can be acquired via BCI and fed to a system that analyzes the encoded signals and translates them into commands. These commands are dispatched to output devices like robotic arms for carrying out the desired action. BCI systems consist of an embedded system that incorporates signal acquiring devices and a microprocessor. It is responsible for the transmission of measured signals. The signals obtained can be amplified and digitized.

There are 3 kinds of BCIs: Invasive, partially invasive and Non-invasive

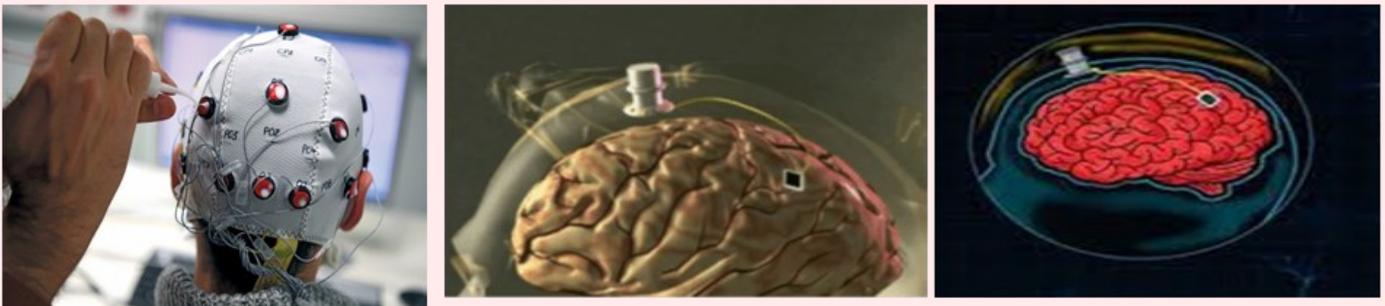


Fig. a. Three kinds of BCIs: Invasive, partially invasive and Non-invasive

Non-invasive BCI: BCIs can fetch the signals without surgically invading the brain. Most of the BCIs are not invasive. Examples: Headbands and ear buds. Sensors are applied on or near the scalp, to record the brain signals.

Invasive BCIs require surgeries. Electronic devices are implanted near the targeted neurons under the skull. Signals generated through invasive BCIs are more accurate.

Partially invasive BCIs are surgically implanted in the skull but outside the grey matter. Signals generated by partially-invasive BCIs are weaker.

BCI uses a technology called, Electro EncephaloGraphy(EEG), which is responsible for acquiring signals from the brain.

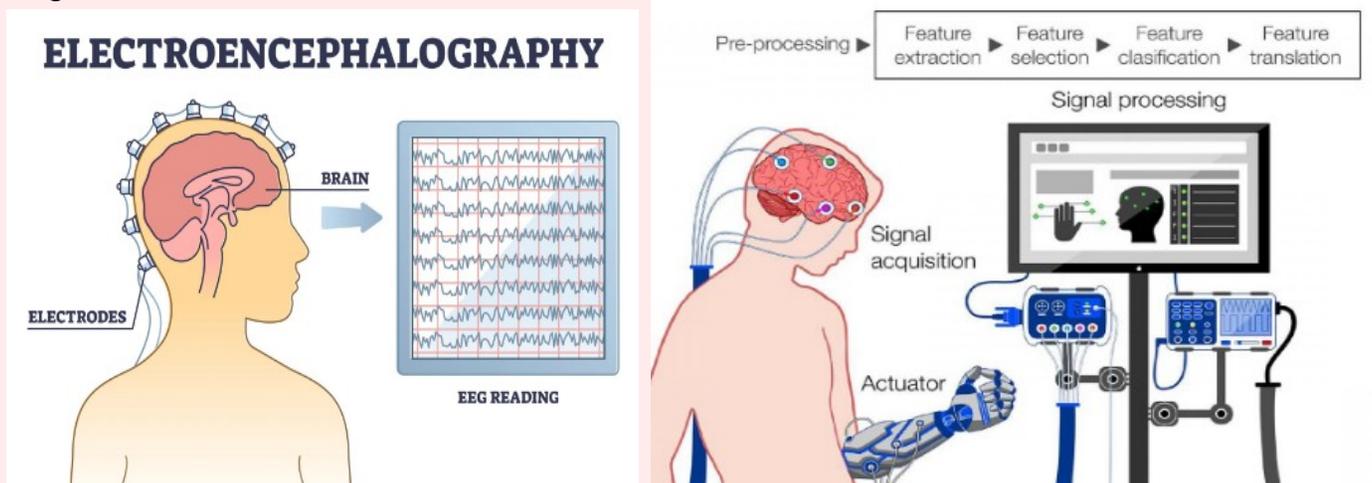


Fig. b. Brain Computer Interface

EEG(Electro EncephaloGraphy):

EEG is a technique that uses electrodes for measuring brain activity by acquiring and decoding signals from the brain. So far, it is the most extensive recording technique.

The signals obtained through EEG are weak because the brain signals cross the scalp, skull, and many other layers. The signal recording mechanism is sensitive as it is easily disturbed by surrounding noises generated either inside the brain or externally over the scalp. Despite these drawbacks, EEG has always been a chosen concept for establishing BCI as it is easy to use, portable, and cost-friendly.

BCI is still under development and research. The entire research and development process of BCIs is practical. Achieving high-speed communication, reliability, safety, and accuracy is significant. The intent behind the development of BCI was to aid disabled individuals. Hindered abilities of physically disabled individuals can be synthetically enabled using BCIs. There are umpteen other use cases where BCIs are employed. Examples: Neuro feedback training tools, video games, and attention level analyzers.

The day when one can finish their assignments by simply thinking about doing them is probably not very far.



D. Sree Sai Soujanya

(Roll No: 20R11A0573)

Automation in Business:

Automation has become an increasingly popular tool for businesses of all sizes to improve efficiency and productivity. Automation is the process of using machines, computers, or other automated systems to perform tasks that would otherwise be completed by humans. Automation can help businesses reduce labour costs, increase accuracy and reliability, speed up processes, and improve customer service. The most obvious advantage of automation is the reduction in labour costs.

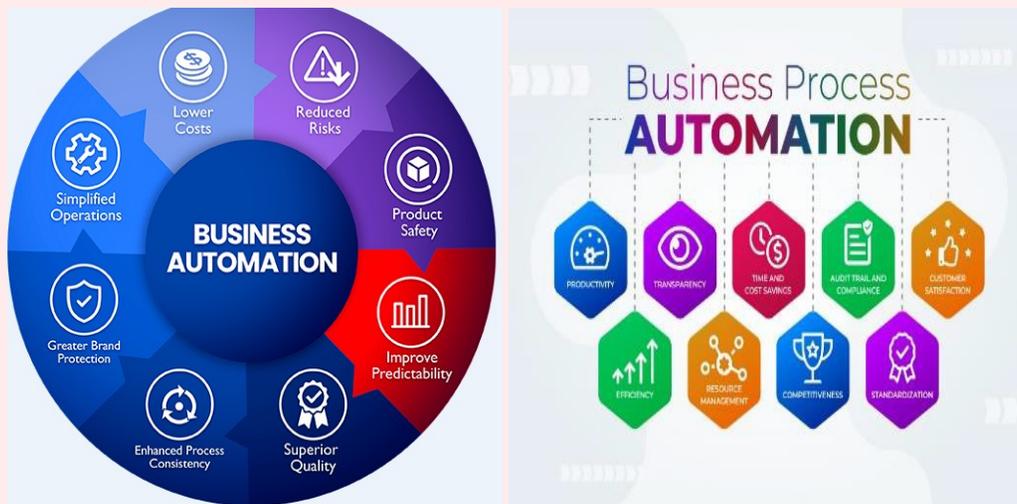
Automation can take the place of manual labour, allowing businesses to save money on wages and benefits. Automation can also help businesses to reduce overhead costs and increase output. By automating certain tasks, businesses can increase efficiency and productivity, allowing them to produce more goods or services without having to hire additional employees. This can result in increased profits and a greater competitive edge.

Automation can also help improve accuracy and reliability. Automated systems can be programmed to carry out tasks with accuracy and consistency, reducing the potential for human error. This can help businesses to reduce the risk of errors, leading to fewer mistakes and higher customer satisfaction. Automated systems can also be programmed to run at a higher speed, enabling businesses to process more orders or perform more tasks in a shorter amount of time.

In addition to reducing labour costs and improving accuracy and reliability, automation can also help businesses to improve customer service. Automation can help businesses to streamline customer service processes, allowing them to respond to customer inquiries more quickly and accurately. Automation can also be used to track customer orders, providing businesses with real-time data on customer satisfaction and customer preferences. Automation can also help businesses to remain competitive in the marketplace. Automated systems can be used to identify customer trends and preferences, allowing businesses to tailor their services and products to better meet customer needs.

Automation has revolutionized the way businesses operate and has had a major impact on the success of many companies. Automation has allowed businesses to streamline processes, reduce costs, increase efficiency, and improve customer service. Automation also helps businesses reduce errors, improve accuracy, and save time. The advantages of automation in business are:

1. Cost Savings
2. Increased Efficiency
3. Improved Accuracy
4. Improved Customer Service



G Vijay Kumar
(20R11A05E2)

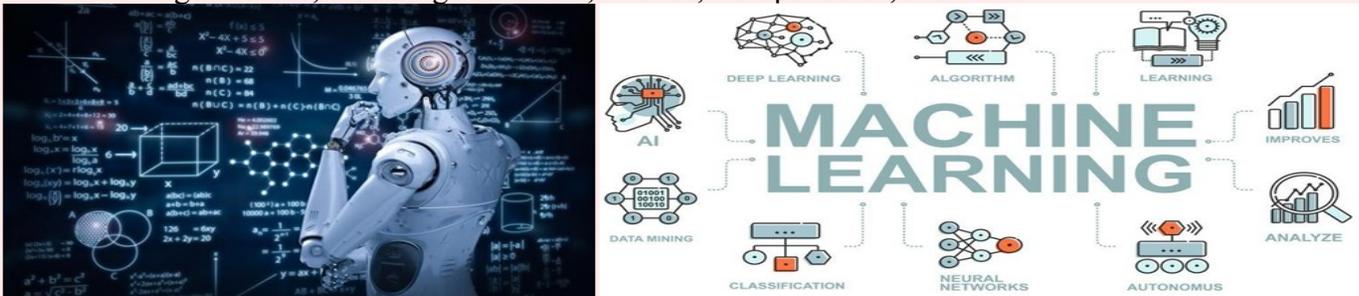
Fig. Business Process Automation

The Future of Machine Learning:

What if all the machines quickly complete our work without any human skills involved?? What if everything in this world becomes automated and life goes smoothly?? It seems like a wonder but all of this can be done by machine learning.

What is Machine learning?

Machine learning is a branch of artificial intelligence (AI) and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy. Machine learning is a rapidly evolving technology that is changing the way we interact with computers. The ability of machines to learn and make decisions without human intervention is already transforming the way businesses operate and how we live our lives. The potential of machine learning is virtually unlimited. Machine learning algorithms are able to learn from data and make decisions, allowing them to solve complex problems that would be difficult or impossible for humans to solve. This means that machine learning can be used to identify patterns, find insights, and make predictions in a wide range of areas, including healthcare, finance, transportation, and more.



The future of machine learning is incredibly exciting. As the technology advances, it will become increasingly capable of tackling more complex tasks. This could lead to the development of autonomous vehicles, intelligent personal assistants, and even robots that can learn and interact with humans. Machine learning is also likely to become more accessible. Tools and platforms such as Google's TensorFlow and Amazon's Machine Learning Platform are already making it easier for developers to create and deploy machine learning models. This trend is likely to continue, making it possible for anyone to access and use machine learning for their own projects.

With advancements in artificial intelligence, deep learning, and natural language processing (NLP), machine learning is becoming increasingly capable of automating complex tasks and making decisions based on data. Machines are now able to learn from their own experience, allowing them to become better at their tasks over time. The future of machine learning will see machines performing more complex tasks and decision making. Machines will become increasingly intelligent, with the ability to think and reason on their own. This will open up new possibilities for businesses, allowing them to develop more advanced products and services. As machine learning continues to evolve, there will be increasing opportunities for businesses to leverage its potential. Companies will be able to develop smarter products, automate mundane tasks, and discover powerful insights from their data.



Arkatala Keerthana
(Roll No: 20R11A05C7)

Holotable - The Future of HoloVision:

Holotable is a piece of furniture that projected holograms above its surface. The military used them for battle analysis, and civilians could use them to establish communication with other beings, or watch sporting events. The creation of hologram dates back to 1948 where a Hungarian-born scientist, Dennis Gabor invented holography, which is a technique that enables a wavefront to be recorded and later re-constructed. Holography is best known as a method of generating real three-dimensional images, but it also has a wide range of other applications. In principle, it is possible to make a hologram for any type of wave.

A hologram is made by superimposing a second wavefront (normally called the reference beam) on the wavefront of interest, thereby generating an interference pattern which is recorded on a physical medium. When only the second wavefront illuminates the interference pattern, it is diffracted to recreate the original wavefront. Holograms can also be computer-generated by modelling the two wavefronts and adding them together digitally. The resulting digital image is then printed onto a suitable mask or film and illuminated by a suitable source to reconstruct the wavefront of interest.

Holograms can be used in various fields may it be engines designing, may it be a major heart surgery. Every thing will be simple and easily visible on the Holotable, and the required task can be done with ease. The technology is improving day by day with contributions of various organizations like, Holotronica, Voxon Photonics, CY Vision, MDH Hologram Ltd etc.



Fig. a. planning an attack on Holotable



Fig.b. CR 90 - Corellian corvette Holotable

These holo graphies make humans achieve many more things, this will become the launch pad for advanced MetaVerse building. Where we can access the entire city map on a single click, and view the routes and real time traffic on Holotable. This holotable consists of two screens one touch screen interacting display and other for depth, the internal CPUs, GPUs, image projectors, liquid coolants, lights and an ergonomic table structure to hold the components and give it a shape to disguise it as a table. There are already few companies like HoloTable, Tekle Holographics which started manufacturing holotables, but to reach a wide range of population brands need to pave the way to make them more usable and affordable. The holographic technology made to design plans of city planning, building construction where the BIM of the particular building is run through various 3D rendering software's and those software's will create the holographic or required 3D map of the construction, and make the render a hologram. Using these holographic BIMs an engineer can easily demonstrate the construction site to the clients, or even enlarge it to analyze the loop holes to rectify them.

Building Information Modelling (BIM) is an indispensable tool for the construction and installation industry. Our Bridging Reality application takes information from BIM systems and displays it in an immersive 3D hologram. The key to this is the way we are able to process data in real-time. BIM models require an enormous amount of data. Co-ordinates for 3D, data for different layers such as electrical installations, water pipes and sanitation, building materials etc. all amount to a lot of information to process. BIM models can be directly imported in Bridging Reality from applications like Autodesk BIM 360, Autodesk Revit, Autodesk Navisworks, Rhino and SketchUp. The holographic image can be viewed, rotated, and scaled in real-time. Multiple users can watch the display without the need for VR glasses, which would take away the real world and the other spectators. BridgingReality BIM gives construction companies, architects and any other party involved in the building process endless possibilities and versatility. It will minimize mistakes in the planning and modeling stage, which will save time, money and wasted materials during the actual building stage. Our solution greatly contributes to sustainability and Eco-friendly designs.

The RealityBridge BIM of Tekle Holographics will help in simulating the holographs of a construction site in various maps like brick work, air conditioning vents, electric wiring, water plumbing, and sewers of the building and give a nice holographic projection, this was developed with the partnership of Vink Bouw a construction company.



Fig. Tekle Holographics Holo-Table

The Holo-Table is a 2x2m device that provides a bird's eye view of realistic 3D data. The Holo-Table consists of a large, flat surface with an embedded projection system. Objects are projected inside and can rise out of the surface up to a height of roughly 1 meter. Because of its form and size, the Holo-Table is best suited for solutions that require a flat surface that can be viewed from all sides. Think of holographic images of building projects, cityscapes, and landscapes. The holographic image can be used by two users at the same time, or by two couples, consisting of a main user and up to 3 secondary users. The latter need to be on the same side as the main user. The Holo-Table can be connected to an external projector or monitor, allowing other participants to see the image in 2D. Alternatively, users can have a floating holographic camera which can be moved around and shows any part of the holographic image on the external screen in 2D.

R. Madhava Sai

(Roll No: 19R11A0533)



RANSOMWARE ATTACK:**What is a Ransomware Attack?**

Ransomware attacks are a type of malware used by cybercriminals to encrypt a device's data, making it inaccessible to the user. The attackers demand a large ransom payment in exchange for the decryption key or unlocking the device. Some ransomware software can also search for sensitive information and send it back to the hackers, who may threaten to publish it online if the ransom is not paid. It is crucial to take preventative measures to avoid falling victim to these attacks rather than paying the ransom.

Who are the Targets?

While anyone can be targeted by ransomware attacks, recent data breaches in 2022 indicate that cybercriminals often target organizations that handle large amounts of personal and sensitive data, as well as those with big user groups and smaller IT teams, such as in healthcare and education.

Types of Ransomware Attacks:

Ransomware attacks have become increasingly sophisticated over the years, with cybercriminals using various tactics to infiltrate and compromise systems. One of the most common types of ransomware is crypto-ransomware, which encrypts files and demands a ransom payment in exchange for the decryption key. Some notable examples of crypto ransomware include CryptoLocker, GoldenEye, and WannaCry. Locker ransomware is another type of ransomware that blocks access to basic computer functions, displaying a lock screen or popup with a message demanding a ransom payment before access is restored.

Scareware is a type of ransomware that is designed to scare or manipulate users into visiting specific websites or downloading malicious software. This is often done using social engineering tactics and popup ads, with the goal of convincing users to purchase or download software that is malicious.

Doxware is a specific type of ransomware that is used to obtain personal data. Attackers compromise the privacy of individuals by gaining access to sensitive files and photos, which they then threaten to release if a ransom is not paid. This type of attack is often targeted at specific victims. Finally, ransomware as a service (RaaS) is a business model that has gained popularity among cybercriminals. With RaaS, anyone can purchase ransomware tools on the black market and carry out attacks without any coding knowledge.

How do ransomware attacks happen?

Ransomware attacks can happen through various means, but one of the most common ways is through phishing emails. In a typical scenario, a victim receives an email that appears legitimate, often containing a malicious attachment or a link to a fake website that tricks the user into downloading malware onto their device. Once the malware is installed, it can spread rapidly throughout the network, encrypting files and locking users out of their systems.

Another way ransomware attacks can happen is through exploiting vulnerabilities in software or hardware systems. Cybercriminals can exploit security loopholes in outdated software or weak passwords to gain access to a system and then install ransomware. Additionally, some ransomware attacks may occur through drive-by downloads, where malware is downloaded onto a device when a user visits a compromised website. Regardless of the method, ransomware attacks can have devastating consequences, so it is crucial to take proactive measures to prevent them.

Best Practices to Prevent Ransomware Attacks:

Ransomware attacks have become increasingly common, especially with the shift to remote and hybrid working models. To prevent such attacks and protect against them, organizations need to implement best practices for ransomware protection.

The first step is to educate employees about the risks of cyberattacks and teach them to follow cyber security hygiene practices such as using strong passwords and not clicking on suspicious links or opening unknown attachments. Phishing emails and social engineering attacks are common techniques used by cybercriminals to target individuals and gain access to computer systems, so it's important to train employees to recognize and counter these attempts. Backing up files and applications regularly is another essential practice to prevent data loss in case of an attack. Offline data backups should also be secured and not permanently connected to the networks they are backing up.

Network segmentation can help prevent the spread of malware from an infected system to other computer systems. Production and general-purpose networks should be segmented so that if an infected computer infects one of the smaller networks, the ransomware can be isolated before it spreads throughout the entire organization.

Reviewing port settings is also crucial to prevent ransomware attacks, as open RDP ports and Server Message Blocked port 445 are often targeted. Limiting user access privileges and defining user permissions thoroughly can also help prevent ransomware attacks by restricting access to applications, desktops, and files. Adding security layers in line with the Zero Trust model is recommended to ensure control over user access and actions, as even authorized employees cannot always be trusted.

What to do if you are a victim of a ransomware attack?

What can you do if you are the victim of a ransomware attack? Let's check out the most common ways to recover from a ransomware infection.

Isolate the infected device: Disconnect the infected device from the network to prevent the malware from spreading to other devices.

Determine the type of ransomware: Identify the type of ransomware that has infected your device, as this can help determine if there is a known decryption tool available.

Contact law enforcement: Report the attack to law enforcement, as this can aid in investigations and potentially lead to the apprehension of the attackers.

Do not pay the ransom: It is not recommended to pay the ransom, as there is no guarantee that the attackers will decrypt your data. Paying the ransom also encourages the attackers to continue their criminal activities.

Restore data from backups: If you have backups of your data, restore the files from the backup. It's essential to make sure the backups are not also infected with the ransomware before restoring the data.

Consider professional help: In some cases, it may be necessary to seek professional help from a cyber security firm to decrypt the data or assist in the recovery process.

Improve security: After the attack, it is important to review your security measures to prevent future attacks. Ensure that your software and operating systems are up-to-date and that your employees are trained in cyber security best practices.

Sai Prakash Chary Vadla
(Roll No: 19R11A05E1)



The Power of Yoga and Meditation:

Yoga is a holistic and mindful practice that includes physical movements (asana), breathing (pranayama), meditation (dhyana), and relaxation (savasana). The practice cultivates mind-body awareness, promotes physical movement, and creates intimacy with one's internal landscape (e.g., emotions, thoughts, physical sensations). Yoga can also be self-soothing, affecting the stress response system by quieting down the nervous system. Through its impact on the stress response system, yoga can help to decrease physiological arousal, for example lowering blood pressure and heart rate, a benefit for those who tend to feel wound up, on edge, and restless.

What is Meditation?

Meditation, like yoga, has become extremely popular in recent years. But it is much more than prayer, or a moment alone with your thoughts. It is a form of training that many accept as a way of life, that frees us from worries and discomfort, helping us to achieve a level of happiness and contentment.

“Meditation is a practice that has several benefits for your body, mind, emotions, and spirituality. For your body, it releases stress, calms down the nerves, and thus prevents many different types of illnesses—as stress is said to be responsible for up to 80% of the visits to the doctor. For your mind, it increases your power of attention, self-awareness, memory and resilience—making you better at learning and decision-making. For your emotional life, meditation helps you manage anxiety, depression, fear and other mood disorders; it also increases emotional intelligence and positive moods”.

Importance of Meditation and Yoga in Students Life:

Teenage is the part of life when there are a lot of things going in the life like college, assignments, exams, sports, project work, internship, etc. leading to a lot of stress, as a result, mental health disorders commonly develop in the teenage years, yoga may serve a preventive role in adolescent mental health. Adolescence is an important time for the development of mental health, including healthy coping responses to stress. It has been suggested that practicing yoga sessions two or three times per week for at least 20 minutes per session can lead to some considerable positive effects. Meditation and yoga can contribute directly to improved mental focus and concentration among students.

Meditation technique for students:

- 1) **Take a seat:** Find place to sit that feels calm and quiet to you.
- 2) **Set a time limit:** If you're just beginning, it can help to choose a short time, 5 or 10 minutes.
- 3) **Notice your body:** You can sit in a chair with your feet on the floor, you can sit loosely cross-legged, you can kneel—all are fine. Just make sure you are stable and in a position you can stay in for a while.
- 4) **Feel your breath:** Follow the sensation of your breath as it goes in and as it goes out.
- 5) **Notice when your mind has wandered:** Inevitably, your attention will leave the breath and wander to other places. When you get around to noticing that your mind has wandered—in a few seconds, a minute, five minutes—simply return your attention to the breath.
- 6) **Be kind to your wandering mind:** Don't judge yourself or obsess over the content of the thoughts you find yourself lost in. Just come back.
- 7) **Close with kindness:** When you're ready, gently lift your gaze (if your eyes are closed, open them). Take a moment and notice any sounds in the environment. Notice how your body feels right now. Notice your thoughts and emotions.

That's it! That's the practice. You focus your attention, your mind wanders, you bring it back, and you try to do it as kindly as possible (as many times as you need to).

Benefits of Yoga and Meditation:

If practiced regularly, yoga and meditation can yield some progressive results that can be quite beneficial for the students as well as for other people in general. Some proven studies have revealed that yoga and meditation essentially have a biochemical effect on the human body that resembles the benefits of antidepressant and anti-anxiety medications and thus can help a lot to relieve mental tension as well as stress. Studies also reveal that in addition to reduced adrenaline production, yoga and meditation result in decreased production of the neurotransmitter dopamine (lower dopamine levels produce an overall feeling of calm), along with an increase in the hormone oxytocin, the bonding hormone resulting in an overall feeling of well-being and trust in others.

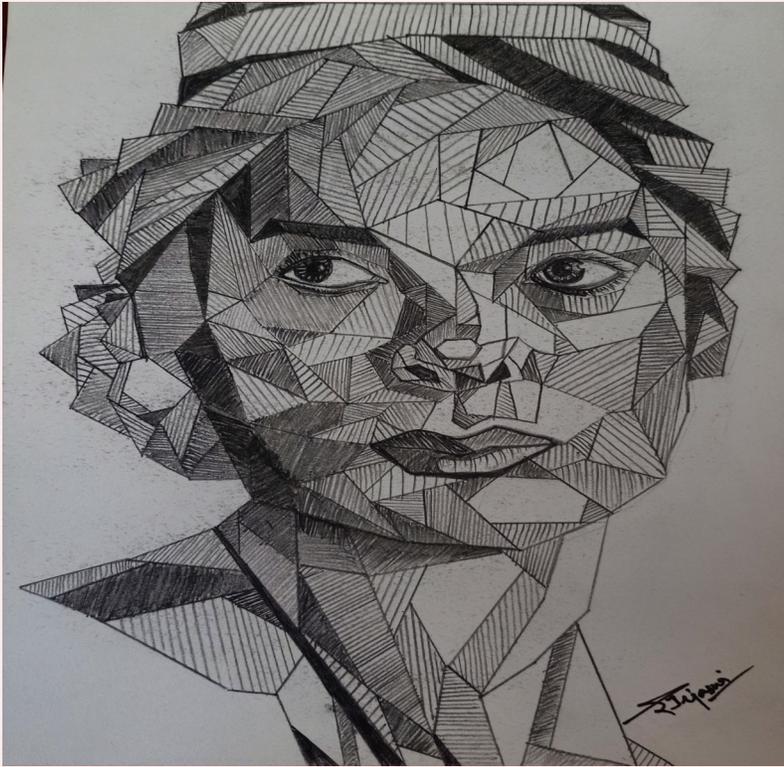
Few benefits of yoga for students include:

- ◆ Improved concentration leading to better grades
- ◆ Balanced Blood Pressure
- ◆ Decreased Absenteeism & Tardiness
- ◆ Improved Interpersonal Relationships
- ◆ Enhanced Confidence Level
- ◆ Help student abstain from unhealthy or dangerous habits such as addiction to drugs, smoking, and alcohol.
- ◆ Sound Sleep, Relief from Headache and other Miscellaneous Problems
- ◆ Improved Calmness, Sharper Brain



Fig. SURYA NAMASKAR POSES

Mr. Y.Siva
Assistant Professor,
CSE Dept.



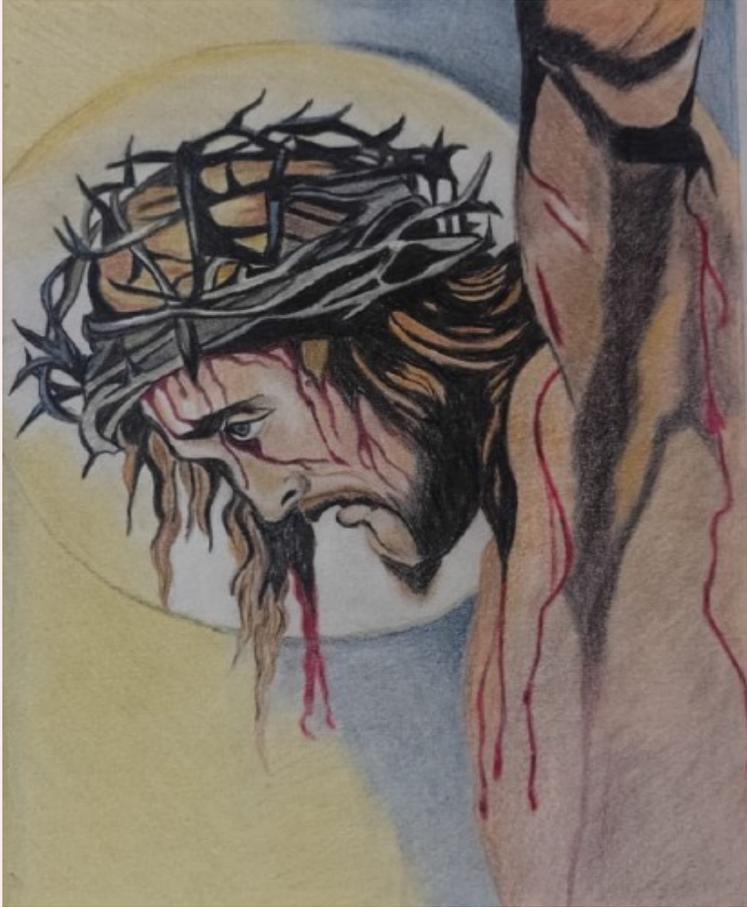
Art by **Tejaswi Gudapati** (Roll Number: 20R11A05B5)



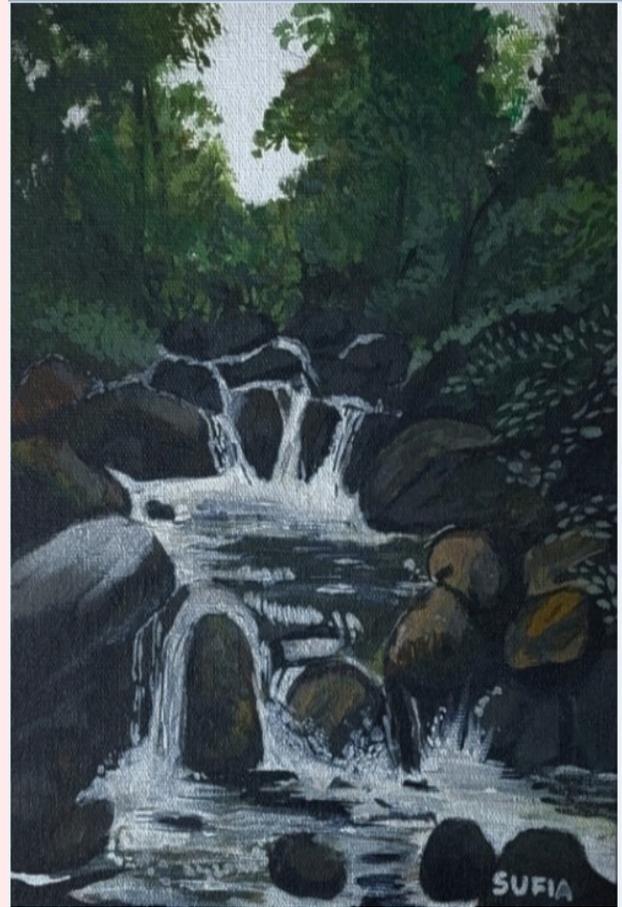
Kerala mural painting by
Avvuru guru Jayanth
(Roll Number: 21R11A0559)



Art by
Battu Shradha Priya
(Roll Number: 19R11A05K7)



Art by **Gudikati Ashok**
(Roll Number: 22R15A0508)



Art by **SUFIA**
(Roll Number: 20R11A05H0)



Photo Click by **Palle Anuroop Reddy** (Roll No.: 21R11A05J7)



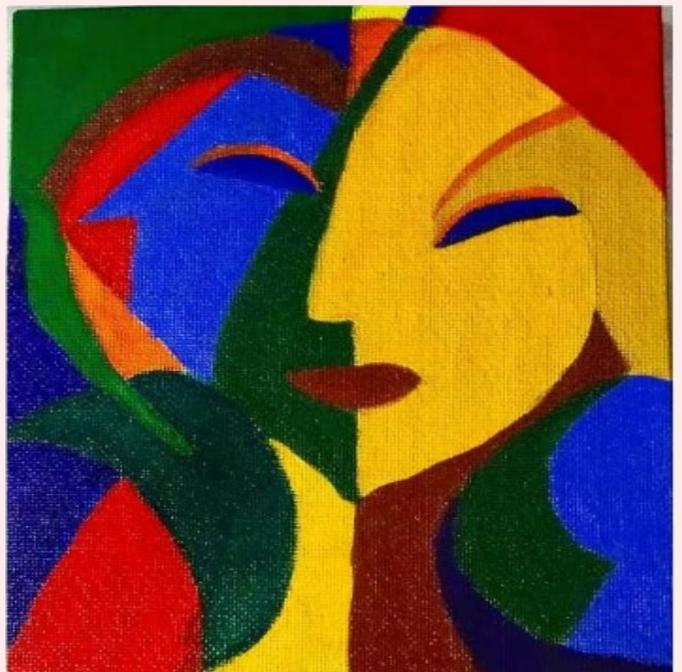
Art by **S. Prajna**
(Roll Number: 19R11A05D2)



Art by **Pranathi Priya**
(Roll Number: 19R11A05M3)



Fluid Art



Art by
Pabba Shreya
(Roll Number: 20R11A05F7)

Student Committee for Newsletter "TechEpistle"

S.No.	Roll Number	Student Name	Year
1	19R11A05E1	Mr. V SAI PRAKASH CHARY	IV Year
2	19R11A05D0	Ms. PEDDINENI JAHNAVI	IV Year
3	19R11A05C9	Mr. PANYAM BADRINATH REDDY	IV Year
4	19R11A05F5	Mr. DATLA SRIHARSHITH SAI VARMA	IV Year
5	19R11A0548	Ms. VUDHANTHI NEERAJA	IV Year
6	19R11A05K7	Ms. B. S SHRADDHA PRIYA	IV Year
7	20R11A05K2	Mr. DHARAVATH ROUNITH	III Year
8	20R11A0539	Ms. MUSAPETA DEEPIKA	III Year
9	20R11A0582	Ms. GUTHIKONDA DHRUTI	III Year
10	20R11A0593	Ms. KHUSHI JHA	III Year
11	20R11A05B6	Mr. V LAXMANA VYAAS	III Year
12	20R11A05F7	Ms. PABBA SHREYA	III Year
13	21R11A0597	Mr. SHIVANOOR VIGNESH	II Year
14	22R15A0508	Mr. GUDIKATI ASHOK	II Year
15	21R11A0559	Mr. AVVARU GURU JAYANTH	II Year
16	21R11A05J7	Mr. PALLE ANUROOP REDDY	II Year
17	21R11A05D2	Ms. MANDADI HARSHITHA REDDY	II Year
18	21R11A05K0	Mr. RAMIDI HARINATH REDDY	II Year

