HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)

TEKLADO

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
&
INFORMATION TECHNOLOGY

ISSUE-3
First of all, I would express my happiness over releasing the new edition of this newsletter. I have been thrilled to share the accomplishments of our students and faculty of the School of Computing Sciences. The B.Tech Computer Science & Engineering & Information Technology programs bonds theory and practice, with the specializations offered, are Artificial Intelligence (AI) and Machine Learning (ML) in collaboration with IBM, Internet of Things (IoT), and Data Science, about Industry standards. Student success is our top priority and we are undertaking everything to provide our pupils to be successful in their lives and careers. Our students are doing a remarkable job in regional and national competitions, earning laurels for their hard work and dedication. The department is fortunate to have dedicated teachers, devoted students, and committed technical staff. The department has well-equipped labs, with the state of art facilities in both hardware and software. I congratulate my students and faculties for their commitment to various extra-curricular activities, research work, and competitive exams to reach the pinnacle of overall success on par with international standards.

My best wishes to all for their bright carrier and successful life.
MESSAGES FROM HODs

HEAD OF DEPARTMENT
COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science and Engineering accredited by NBA and IET from Hindustan Institute of Technology and Science have made tremendous contributions in research, teaching and practice, resulting in impacts in many sectors of society. Unquestionably, one of the domains with the highest growth rates both domestically and internationally is computer science and engineering. You can gain a strong practical and theoretical understanding of computer hardware and software by earning an engineering degree in CSE. This stream includes theoretical and practical sessions that are equally split between the design and comprehension of computational processes and programming languages. International corporations such as Eurofins, BNY Mellon, Accenture, Wipro, Cognizant, Virtuza, Capgemini, HCL, and Infosys, to mention a few, visit the campus. Our strong professional ties to these businesses ensure that our students have better employment possibilities through campus placement campaigns that offer amazing packages that help them carve out a niche in the workforce.

HEAD OF DEPARTMENT
INFORMATION TECHNOLOGY

I am pleased to announce that the Department of Information Technology has published its Newsletter for Academic Year 2023-24, which details the different activities and accomplishments of our teachers and students. The department strives to generate self-assured professionals who are well-versed in their field. The department provides an exceptional academic environment with a team of highly trained staff members and cutting-edge laboratory facilities in conjunction with reputable industries to motivate students to enhance their technical skills and instil the spirit of teamwork in them. The department also equips students with a dynamic portfolio and prepares them to tackle a changing environment.
The Department of Computer Science and Engineering organized an Industrial Visit to Cybrosys Technologies on the 17th of April 2023. A total of 41 students from the classes 6A and 6B have participated accompanied by Dr. Sathya Durga, Mr. Azmal Mohamed and Ms. Dheepthi.

The Department of Computer Science and Engineering organized an industrial Visit to Techasoft Pvt. Ltd., Bangalore on the 21st April 2023 for the students of classes 4A, 4B, 4C and 4D with a total participation of 64 accompanied by Mr. Madhu Perkin, Mr. Gowdham and Ms. Praisay Evangeline.

The farewell for engineering students is a bittersweet occasion that marked the end of their academic journey. It was a time to celebrate their accomplishments, memories, and friendships made throughout the years. The event included heartfelt speeches, nostalgic moments, and the exchange of wishes for success in their future endeavors. The department of CSE hosted the farewell for the batch of ’23 on the 12th of May and it was deemed a grand success.
The Department of Computer Science and Engineering organized an IBM-ICE TRAIN THE TRAINER PROGRAM on Predictive Analytics. The program took place from June 21 to June 26, 2023, at the department conference hall. The training was facilitated by Dr. V. Kavitha, an IBM trainer and IBM coordinator Dr. M Kathiravan.

**BLUE SCREEN PROGRAMMING CLUB**

The Department of Computer Science and Engineering organised an investiture ceremony of the Blue Screen Programming club on 12th April, 2023. The investiture ceremony was held at K.S Moorthy Hall. Dr. Thangakumar J, Head of the Department welcomed the dignitaries and students and mentioned the recent trends in the computer field. Club members, faculty members and other students from our reputed institution participated in this ceremony.

**PROJECT PROPOSAL AT CLRI**

Dr. Thangakumar, HOD(CSE), Dr. Muthu Kumaran M, Associate Professor, and Dr. M. Sambath, Associate Professor presented a project proposal for a device titled "Leather Defect Detection using Image Acquisition & Machine Learning." The project was demonstrated to CLRI Scientists, with a value of Rs. 12,62,456/- and a duration of 2 years. The project aims to develop an autonomous device that accurately detects and classifies major defects in wet-blue leathers (such as cuts, stains, and wrinkles) using image acquisition processing techniques and machine learning algorithms.
The Five Days Summer Workshop on Developing Cyber Security Models using Deep Learning Techniques was organized by Dr Ceronmani Sharmilla HOD IT and Ms Remya K Assistant Professor IT and was sponsored by the Institution of Engineering and Technology (IET) and organized by the Centre for Networking and Cyber Defense (CNCD) and the Department of Information Technology, Hindustan Institute of Technology and Science (HITS), Chennai from 4th to 8th July 2023, was initiated with a grand inaugural ceremony.
STUDENTS’ TESTIMONIALS

Sam Praveen
I had the privilege of attending HITS, Chennai for my Bachelor’s degree in IT Engineering, and I can confidently say that it was one of the best decisions I’ve made in my academic career. As a lead for UiPath Student Developers Club at HITS, I networked with peers and industry professionals and developed important leadership skills. The four years I spent at this institution were truly transformative, both academically and personally. The college curriculum was comprehensive, covering all the essential aspects of IT Engineering and exposing me to cutting-edge technologies and industry practices. The hands-on approach to learning allowed me to apply the theories and concepts I learned in the classroom to real-world projects, giving me a valuable head start in my professional career. Their mentorship and guidance helped me to develop a deeper understanding of the subject matter, and their support was instrumental in my growth as an engineer.

Afra Banan
Hindustan, with no doubt, helped me pave my career. I am a person who believes in making an impact in and around me. I always try to grab opportunities and make the best of myself. Being the Google Developer Student Club lead 21-22 I was able to learn, grow and inspire many students. Leading the community with a mindset of creating a difference helped me achieve my goal of inspiring students, helping them overcome their fears, and being a part of their building journey. As the women’s secretary on the student council, I am happy that I was able to support students and empower them. At the end of the day, it all comes down to self-satisfaction and realizing your potential. My department faculties, especially the HOD, have always pushed and encouraged me.

Reya Mary
It’s been a great experience so far at the Hindustan Institute of Technology and Science. I still remember my first day of college. I was too tense but later on, I realized that all those were myths. Right from my first day, I became happy as I found the entire department to be incredibly friendly and helpful. I’m pursuing my final year of BTech Information Technology with Cyber Security. I had been part of many active clubs like Kruptos Security Club, Google Student Development Clubs, etc. Teachers are supportive on both academic as well as co-curricular sides. I had also finished my Honors degree along with my Btech. In our department, we are having design projects every semester. Thus we can enhance our skills. I improved my leadership skills, communication skills, etc as I took part in a lot of activities, organized some events, etc. Our college helps us to do many courses from platforms like Coursera and edX. Various student exchange opportunities are also available here. Proper placement training is also given to the students. My department takes the educational mission to heart, here you will find people that will support you and guide you on the path to your degree. I am sure you will grow, improve yourself and become a better you.
FAREWELL FOR THE BATCH OF 2023

The Department of Information Technology organized a farewell on June 2nd for the batch of 2023 which was organized by the pre-final years in K. S. Moorthy Hall. The college band BANDEX performed for the farewell.
CONSULTANCY PROJECT

Dr. Thangakumar J & Dr. R. Logeshwari

The Department of Computer Science, led by Dr. J. ThangaKumar, Associate Professor and Head of Department, along with Dr. R. Logeshwari, Assistant Professor (S.G), has secured a consultancy project worth 2 Lakhs in collaboration with Colonel S. Raju Sustainable World Peace Charitable Trust, Chennai. The project involves the development of a Smart Agriculture WebApp using IoT technology. The objective of the project is to leverage the power of Internet of Things (IoT) in the agricultural sector to enhance productivity, reduce resource consumption, and promote sustainable farming practices. The web application will provide farmers with real-time monitoring and control of crucial parameters such as soil moisture, temperature, humidity, and light intensity.

The project emphasizes collaboration between academia and industry to address the challenges faced by the agricultural community and contribute to sustainable farming practices. The successful completion of this consultancy project will provide valuable insights and recommendations for the wider adoption of IoT technology in agriculture. It is expected to have a positive impact on farmers' lives by equipping them with tools to make informed decisions, optimize resource utilization, and foster environmentally friendly farming practices. The Department of Computer Science, Dr. J. ThangaKumar, Dr. R. Logeshwari, and the entire team involved in this project are committed to delivering a robust and user-friendly Smart Agriculture WebApp that aligns with the needs of farmers and contributes to the advancement of sustainable agriculture.

PHOTO GALLERY
Dr. Thangakumar J.

Design and Analysis of Algorithms - Dr. Thangakumar J (Associate Professor): Dr. Thangakumar J has authored a book on Design and Analysis of Algorithms, providing comprehensive coverage of algorithmic concepts and their analysis. The book offers a practical approach to designing efficient algorithms and understanding their theoretical foundations.

Dr. Linda Joseph

Dr. Linda Joseph, a Professor in the Department, has authored a book on Computer Architecture. The book delves into the fundamental principles of computer organization and architecture, covering topics such as instruction set architecture, memory systems, and parallel processing.

Dr. Sudalaimuthu T

Dr. Sudalaimuthu T, a respected Professor, has contributed to the field of software engineering by publishing a book on the subject. The book explores software development methodologies, software design principles, and techniques for managing the software development lifecycle.
Dr. Sathyalakshmi S

Dr. Sathyalakshmi S, a Professor in the Department, has authored a book on the Theory of Computing. The book covers fundamental concepts of automata theory, formal languages, and computational complexity, providing a solid foundation in theoretical computer science.

Dr. Sambath M

Dr. Sambath M, an Associate Professor, has contributed to the field of programming and data structures by publishing a book on the subject. The book provides a comprehensive understanding of programming concepts, data structures, and algorithmic problem-solving techniques.

Dr. Logeshwari R

Dr. Logeshwari R, an Assistant Professor, has authored a book on Compiler Design. The book explores various phases of compiler construction, including lexical analysis, syntax analysis, semantic analysis, optimization, and code generation.

Dr. MuthuKumaran M

Dr. MuthuKumaran M, an Associate Professor, has made significant contributions to the field of database management systems through the publication of a book. The book covers relational database design, query optimization, transaction management, and other essential topics related to database systems.
## FACULTY ACHIEVEMENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Paper Publications</th>
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<tbody>
<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Criminal Prevision With Weapon Identification And Forewarning Software In Military Base</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Route Updation during Construction using Yolo Framework</td>
</tr>
<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>An Efficient Deep Learning Framework using CapsNet and SOM for Multidrug-Resistant Tuberculosis Detection and Analysis in CXR Images</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Semi Automatic Cricket Video Summarization</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Sketch And Algorithm To Web Translation Using Faster RCNN and NLP</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Deep Learning For Aquatic Species Recognition: Advancing Image Classification Using DCNN Algorithm</td>
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<td>Dr. V Ceronmani Sharmila</td>
<td>Conversational Chabot Builder-Smarter Virtual Assistants With Domain Specified AI</td>
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<td>Dr. V Ceronmani Sharmila</td>
<td>Adaptive Deep knowledge and Self Supervised Framework for Classifying sleep Stage using Neural Network</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Blockchain Based Supply Chain Management System For Secure Vaccine Distribution</td>
</tr>
<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Virtual Panchayat Conclave: Bringing Communities Together Online</td>
</tr>
<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Vehicle Number Recognition By Using Existing General Surveillance Cameras</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Advanced Persistent Threat Assessment</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Advanced Cyber Security Helpdesk Using Machine Learning Techniques</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Fraud Detection and Analysis for Insurance Claim using Machine Learning</td>
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<tr>
<td>Dr. V Ceronmani Sharmila</td>
<td>Role of Artificial Intelligence based Chat Generative Pre-Trained Transformer (ChatGPT) in Cyber Security</td>
</tr>
<tr>
<td>Ms. Remya K</td>
<td>An Efficient Deep Learning Framework using CapsNet and SOM for Multidrug-Resistant Tuberculosis Detection and Analysis in CXR Images</td>
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<tr>
<td>Ms. Remya K</td>
<td>Tracking and Monitoring of Online Orders</td>
</tr>
<tr>
<td>Mr. Julian Menezes</td>
<td>Virtual Panchayat Conclave: Bringing Communities Together Online</td>
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<tr>
<td>Mr. Julian Menezes</td>
<td>Autonomous assistance for Alzheimer’s Patients</td>
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<tr>
<td>Ms. Maheswari M</td>
<td>Pathological voice recognition using GAN</td>
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Ms. Remya K Assistant professor IT completed an NPTEL Course titled “Introduction to IOT” by achieving an **ELITE** grade in the course
STUDENTS’ ACHIEVEMENTS

PAPER PUBLICATIONS

The students of CSE department have published 83 papers, 23 of which have been published in a conference, 6 under review and one under review in a journal. They have also produced 84 projects with 7 patents filed.

KAVACH

On April 5, 2023, the Department of Computer Science and Engineering at Hindustan Institute of Technology and Science (U-0454), Chennai, India hosted an internal hackathon for KAVACH 2023 national level hackathon. 15 teams participated in the cyber security-based event. The jury members who evaluated the teams were:1. Dr. R Kanthavel, Dean of the CS, HITS.2. Dr. J Thangakumar, Associate Professor & HoD, Department of CSE, HITS.3. Dr. G Muthukumaran, Professor, Department of ECE, HITS.4. Dr. S Sathya Lakshmi, Professor, Department of CSE, HITS.

INTERNSHIP

The following B.Tech CSE students have been selected for an internship with BOEING, which includes a stipend of 30K per month. The internship will be for a period of 2.5 months, starting from July 3, 2023, and ending on September 18, 2023. The students selected are:1. Amitasha Anand (7A)2. Vadrevu Vinay Kumar (7B)3. Rochan A (7D)This internship will be followed by their placement at BOEING.

CCNA

40 students successfully completed the CCNA course certified by CISCO. Trainers: Dr. M. Sambath, Associate Professor, CSE Dr. D. S. John Deva Prasanna, Associate Professor, CSE

PHOTO GALLERY
Auroshaa A, Bala Suriya, Meshach George Matthew, Surendar V, Jeyavasan, Muthumanikavel V and Sanjai Das from IT Cyber Security completed an NPTEL Course titled Introduction to Internet of Things.

Gyan Disha 2023

Sam Praveen from the batch of 2023 IT had been awarded the first prize at the project expo "Gyan Disha" held at HITS, Chennai. It is truly a remarkable moment for me. My project focused on the diagnosis of tuberculosis, a pressing global health issue.

Rohan B received appreciation for participating and securing First Prize in Gyan Disha 2023 - Project Expo held at Hindustan Institute of Technology & Science, Chennai, on 15th May 2023.

AFRA BANAN received appreciation for participating and securing First Prize in Gyan Disha 2023 - Project Expo held at Hindustan Institute of Technology & Science, Chennai, on 15th May 2023.

75 Students from the batch of 2023 published their papers in reputed journals and conferences. THIS WAS A 100% PUBLISH RATE FOR THE BATCH OF 2023
<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Academic Activity</th>
<th>B.TECH, PG</th>
<th>UG/PG</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>III, IV, V Year</td>
<td>II year</td>
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<tr>
<td>1</td>
<td>Internship</td>
<td>12.06.23 to 10.07.23</td>
<td>11.07.23 to 31.07.23</td>
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<tr>
<td>2</td>
<td>Commencement of Induction Programme for First Semester</td>
<td>NA</td>
<td>B.Tech - 19.07.23 PG – 21.08.23</td>
</tr>
<tr>
<td>3</td>
<td>Registration and Commencement of Regular Classes</td>
<td>12.07.23</td>
<td>01.08.23</td>
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<td>4</td>
<td>Continuous Assessment</td>
<td>I Periodical Assessment</td>
<td>17.08.23</td>
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<td>Parents Interaction Day</td>
<td>02.09.23</td>
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<td>II Periodical Assessment</td>
<td>04.10.23</td>
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<td>Practical Exams</td>
<td>10.11.23</td>
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<td>Last Academic Working Day</td>
<td>21.11.23</td>
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<td>“RA” and “Detention List” Announcement</td>
<td>18.11.23</td>
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<td>5</td>
<td>End Semester Regular and Supplementary Exam &amp; Results</td>
<td>Commencement of End Semester Regular/Supplementary Theory Exam</td>
<td>22.11.23</td>
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<td>Completion of End Semester Exams</td>
<td>14.12.23</td>
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<td>Announcement of results of Regular/Supplementary Theory Exams</td>
<td>29.12.23</td>
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<td>Registration for Revaluation</td>
<td>03.01.24</td>
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<td>Revaluation Results</td>
<td>07.02.24</td>
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<td>Registration for Repeat exams for Regular Courses</td>
<td>17.02.24</td>
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<td>Commencement of Repeat Exams for Regular Theory Courses</td>
<td>22.02.24</td>
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<tr>
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<td>Announcement of Repeat Exam Results</td>
<td>27.03.24</td>
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<td>6</td>
<td>Last date for registration of courses for even semester</td>
<td>15.12.23</td>
<td>20.12.23</td>
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<td>7</td>
<td>Reopening for the next semester for all programmes</td>
<td>03.01.24</td>
<td>22.01.24</td>
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<tr>
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<td>No of Working Days</td>
<td>90 Days</td>
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DEPARTMENT OF INFORMATION TECHNOLOGY

Congratulations

Mr Ajay Pavan,
MS in Computer Science,
Concordia University

Mr Jeevan Kumar Podapati,
MS in Information Systems,
University of Memphis (UoFM)

Mr Vishnu Dev Ammupilly,
MSc in Network Security,
Heriot-Watt University

Ms Lakshudha Prabath Kumar,
MSc in Cyber Security,
University of Warwick

Mr Rohit Jagadeesan,
MSc Cyber Security,
Manchester Metropolitan University

Mr Vishnu Vardhan Reddy,
MSc Cyber Security,
Manchester Metropolitan University

Mr Vigneshkumar Ballampalli,
MSc Cyber Security,
Manchester Metropolitan University

FOR SECURING ADMISSIONS IN TOP UNIVERSITIES

Academic year 2023-24
THINK CREATIVE, THINK BIG

DEPARTMENT OF CSE

STUDENTS MASTERS’ ADMISSION

HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
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Congratulations

AMAN SAMI
THE UNIVERSITY OF ADELAIDE

P V SAI GOUTHAM ADITYA
UNIVERSITY OF NORTH CAROLINA

BHAVITH CHOWDARY GONUGUNTLA
THE UNIVERSITY OF MELBOURNE

NELLURI PAVAN VENKAT
UNIVERSITY OF NORTH TEXAS

KEVIN ISSAC ROBINSON
UNIVERSITY OF WESTERN ONTARIO

RAAVI SOWMYA
TEXAS TECH UNIVERSITY

ASHWIN R
FANSHAWE COLLEGE, ONTARIO

JANAPALA SUNIL REDDY
UNIVERSITY OF MISSOURI

PRAVEEN S SUNDARUM
UNIVERSITY COLLEGE CORK

M THARUN
FLORIDA INSTITUTE OF TECHNOLOGY
STUDENTS MASTERS’ ADMISSION

HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)

THINK CREATIVE, THINK BIG

Congratulations to the following students admitted to various universities abroad:

SANAMPUDI JAYANTH VENKATA SAI
SACRED HEART UNIVERSITY

KOTHAGUNDLA LAKSHMI NARASIMHA RAO
GEORGIA STATE UNIVERSITY

BOLLINA SAI MANI DURGA GOWTHAM
UNIVERSITY OF BRIDGEPORT

BOLAGANI VENU
THE UNIVERSITY OF SOUTHERN MISSISSIPPI

KONAKANCHI THIRUPATHI RAO
UNIVERSITY OF SOUTH ALABAMA

G V DEEPAK REDDY
NORTHWEST MISSOURI STATE UNIVERSITY

GUDURU KRISHNANJJI REDDY
STEVENS INSTITUTE OF TECHNOLOGY

SYAM CHANDRASEKHARAN
UNIVERSITY OF LIMERICK

MOTHKURI AKSHITH GOUD
UNIVERSITY OF WISCONSIN

BATTULA NIRATHI REDDY
UNIVERSITY OF WESTERN ONTARIO
STUDENTS CORNER

DONE BY: KOWSHIKA S
IT GENERAL
3r YEAR
EDITORIAL TEAM

FACULTY EDITORS

Mrs. Brindasri
Assistant Professor
CSE

Mrs. Remya K
Assistant Professor II
IT

Dr. Prem Shankar Pandey
AP (SG) & Technical Editor
Department of Languages

STUDENT EDITORS

David Joelsingh
IT 4th Year

Ashish Murikan
Cse 3rd Year

Prathik Matthai
IT 4th Year

G. Madhulika Reddy
CSE 3rd Year