



HINDUSTAN

INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)

TEKLADO



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
&
INFORMATION TECHNOLOGY

MESSAGE FROM DEAN

DEAN
SCHOOL OF COMPUTING SCIENCES



DR R. KANTHAHEL

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



*Dr. Thangakumar J
(Associate Professor & HOD)*

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.



*Dr. V Ceronmani Sharmila
(Professor & HOD)*

DEPARTMENT ACHIEVEMENTS

ANNA UNIVERSITY MOU

iTNT Hub MoU signing ceremony photographs held on 20th April 2023 at iTNT hub, Anna university Campus.

INDUSTRIAL VISIT

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. Praisys Evangeline.

FAREWELL 2023

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.

PHOTO GALLERY



Industrial visit



Farewell '23



MOU

DEPARTMENT ACHIEVEMENTS

IBM-ICE

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

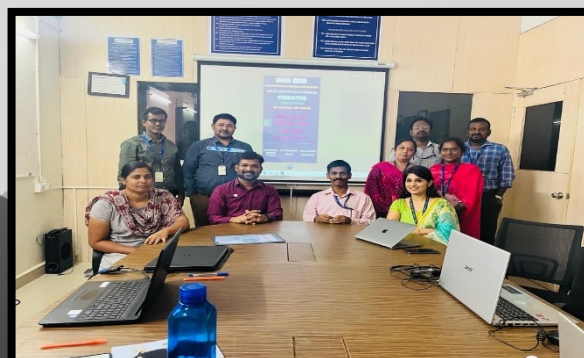
Dr. Thangakumar, HOD(CSE), Dr. Muthu Kumaran M, Associate Professor, and Dr. M. Sambath, Associate Professor presented a project proposal for a device titled "Leather Defect Detection using Image Acquisition & Machine Learning." The project was demonstrated to CLRI Scientists, with a value of Rs. 12,62,456/- 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.



Blue Screen Programming Club



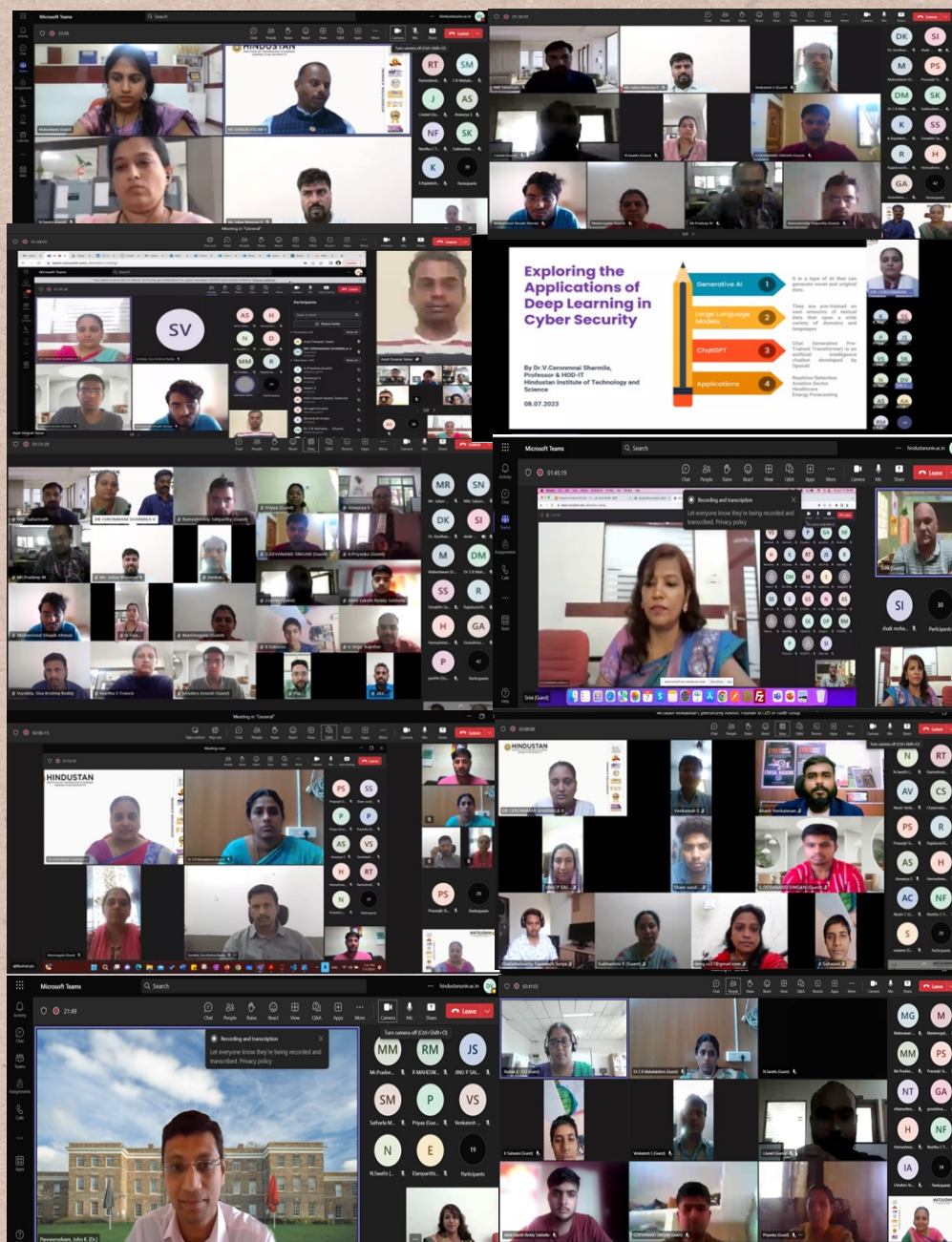
CLRI



IBM ICE

SUMMER WORKSHOP

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.

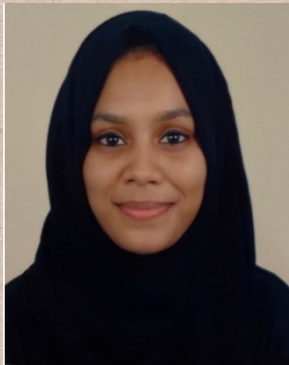


STUDENTS' TESTIMONIALS



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

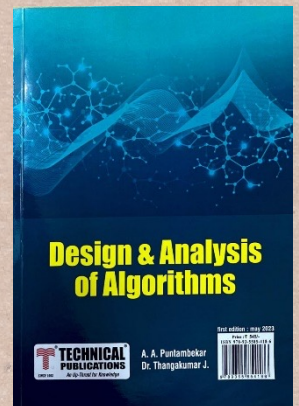


FACULTY ACHIEVEMENTS



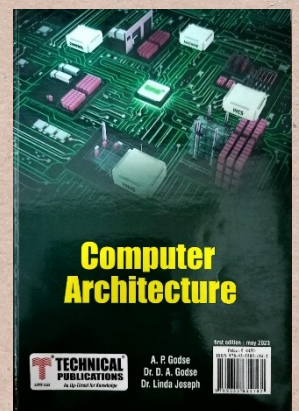
Dr. Thangakumar J.

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.



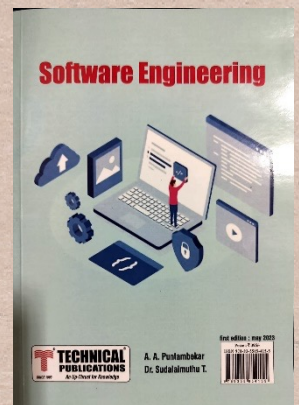
Dr. Linda Joseph

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.

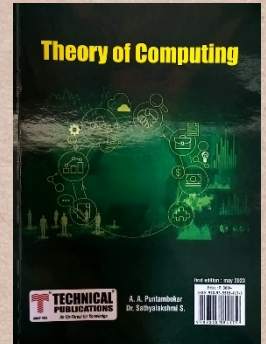


FACULTY ACHIEVEMENTS



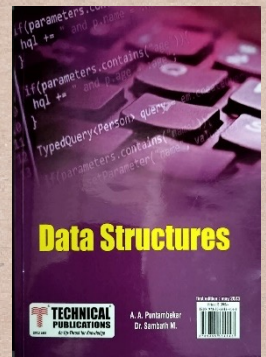
Dr. Sathyalakshmi S

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.



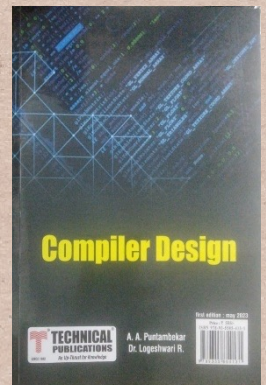
Dr. Sambath M

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.



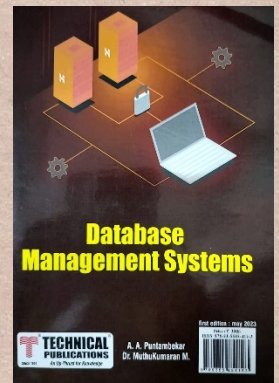
Dr. Logeshwari R

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

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



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



Kavach



Amitasha Anand



Vadrevu Vinay Kumar



Rochan A

Internship

STUDENTS' ACHIEVEMENTS

COMPLETION OF NPTEL COURSE



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**

ACADEMIC SCHEDULE-ODD SEMESTER

Sl. No	Academic Activity		B.TECH, PG		UG/PG
			III, IV, V Year	II year	I Year
1	Internship		12.06.23 to 10.07.23	11.07.23 to 31.07.23	NA
2	Commencement of Induction Programme for First Semester		NA		B.Tech - 19.07.23 PG – 21.08.23
3	Registration and Commencement of Regular Classes		12.07.23	01.08.23	B.Tech - 09.08.23 PG – 23.08.23
4	Continuous Assessment	I Periodical Assessment	17.08.23	24.08.23	18.09.23
		Parents Interaction Day	02.09.23		30.09.23
		II Periodical Assessment	04.10.23	11.10.23	06.11.23
		Practical Exams	10.11.23		11.12.23
		Last Academic Working Day	21.11.23		21.12.23
		“RA” and “Detention List” Announcement	18.11.23		15.12.23
5	End Semester Regular and Supplementary Exam & Results	Commencement of End Semester Regular/ Supplementary Theory Exam	22.11.23		03.01.24
		Completion of End Semester Exams	14.12.23		13.01.24
		Announcement of results of Regular/Supplementary Theory Exams	29.12.23		05.02.24
		Registration for Revaluation	03.01.24		09.02.24
		Revaluation Results	07.02.24		28.02.24
		Registration for Repeat exams for Regular Courses	17.02.24		05.03.24
		Commencement of Repeat Exams for Regular Theory Courses	22.02.24		11.03.24
		Announcement of Repeat Exam Results	27.03.24		03.04.24
6	Last date for registration of courses for even semester		15.12.23		20.12.23
No of Working Days			90 Days		
7	Reopening for the next semester for all programmes		03.01.24		22.01.24

For Admissions: <https://apply.hindustanuniv.ac.in/>

STUDENTS MASTERS' ADMISSION



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DEPARTMENT OF INFORMATION TECHNOLOGY

Congratulations



Mr Ajay pavan,
MS in Computer Science,
Concordia University



Mr Rohit Jagadeesan,
MSc Cyber Security,
Manchester Metropolitan
University



Mr Jeevan kumar podapati,
MS in Information Systems,
University of Memphis (UofM)



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



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



Mr Vigneshkumar Ballampalli,
MSc Cyber Security,
Manchester Metropolitan
University



Ms Lakchudha Prabath kumar,
MSc in Cyber Security,
University of Warwick

FOR SECURING ADMISSIONS IN TOP UNIVERSITIES

Academic year 2023-24

STUDENTS MASTERS' ADMISSION



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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

FANSHAW COLLEGE,
ONTARIO



JANAPALA SUNIL
REDDY

UNIVERSITY OF
MISSOURI



PRAVEEN S
SUNDARUM

UNIVERSITY COLLEGE
CORK



M THARUN

FLORIDA INSTITUTE OF
TECHNOLOGY

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**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
KRISHNANJI REDDY**

STEVENS INSTITUTE OF
TECHNOLOGY



**SYAM
CHANDRASEKHARAN**

UNIVERSITY OF
LIMERICK



**MOTHKURI
AKSHITH GOUD**

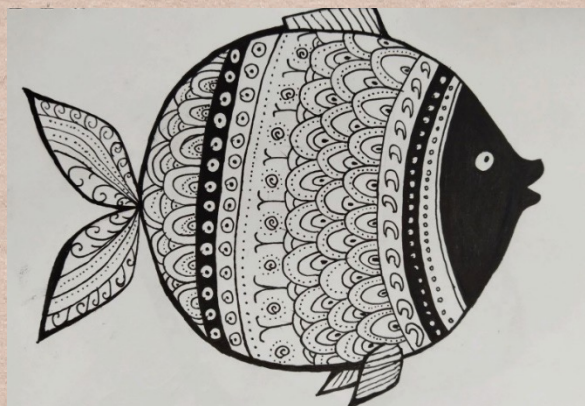
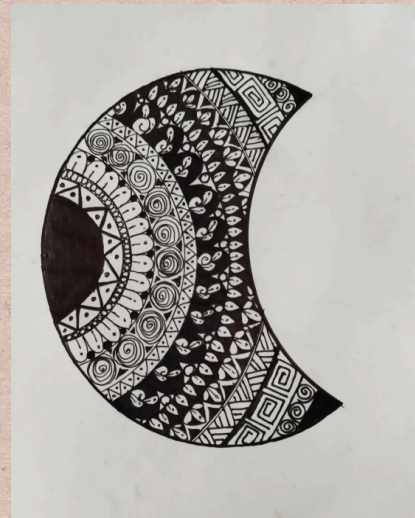
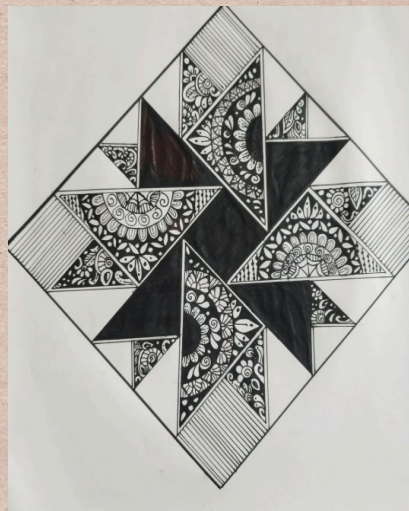
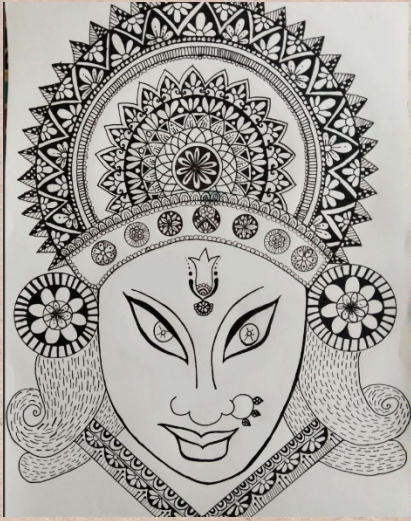
UNIVERSITY OF
WISCONSIN



**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

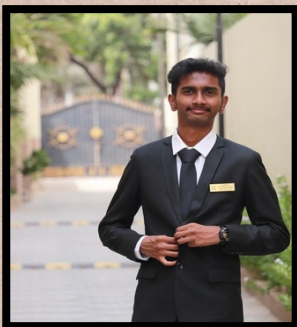


Mrs. Remya K
Assistant Professor II
IT



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

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