

Message From the HOD

The Department of Computer Science and Engineering is committed to inculcating in every student love and kindness, respect and honesty and it is my pleasure to head this prestigious department. Our department offers full time UG programmes such as B.Tech CSE, B.Tech CSE with Artificial Intelligence and Machine Learning, B.Tech CSE with Big Data Analytics, B.Tech CSE with Internet of Things, B.Tech CSE with Business Systems and B.Tech CSE with Cyber Security in association with Tata Consultancy Services, part-time B.Tech CSE and part-time M.Tech (CSE). The department has a team of highly experienced and motivated faculty members who are in the process of tuning the young minds and make them globally competitive. The strength of the department is its highly talented students who understand the dynamics of the industry and upgrade their skills accordingly. The scope of computer science is endless. The students of the computer science and engineering are highly demanded by the recruiters of the top companies. Depending upon the interest of the student, he/she may choose to go for higher studies or if employed can choose to do research, development, design, production, application, testing or management in the software industry.

Today on one hand as we are moving towards rapid advancement and progress in every sphere of life, on the other hand this has also given rise to many inconsistencies affecting the lives of the people. Human education seems to be losing its charm. Value systems are on the verge of collapse and challenge becomes ever more serious for the education providers in moulding and sculpting young minds. Paradigm of education with the emergence of networking systems must not weaken the basic foundations of life. The heterogeneous mix of academically motivated students naturally enriches the learning environment, turning it into a fountainhead of vibrant ideas. The response from both academic institutes as well as industry has been very enthusiastic and encouraging. Every milestone achieved is accepted with great humility and this wouldn't have been possible without the guidance and support of our Honorable Chairman, Co-Chairman, Director, Dean(E&T) and other administrators, faculty members, students, parents, guardians and well-wishers. It is a matter of pride for all those who have contributed for the department.

VISION OF THE DEPARTMENT

- To become an world class department in imparting high quality knowledge and in providing students a unique learning and research experience in computer science and engineering

MISSION OF THE DEPARTMENT

- To impart knowledge in cutting edge technologies on part with industrial standards.
- To collaborate with renowned academic institutions in research and development.
- To instil societal and ethical responsibilities in all professional activities

COURSES OFFERED

S.No.	Program	Specialization
1	B.Tech	CSE-Computer Science and Engineering
2		AI & ML- CSE with specialization in Artificial Intelligence and Machine Learning
3		IoT - CSE with specialization in Internet of Things
4		BDA - CSE with specialization in Big Data Analytics
5		CS - CSE with specialization in Cyber Security
6		CSBS - Computer Science and Business systems
7		GT - CSE with Specialization in Gaming Technology *
8		CC - CSE with Specialization in Cloud Computing*
9	M.Tech	Part Time
10	Ph.D	Full Time / Part Time

*Subject to approval of AICTE

CSE with specialization in Artificial Intelligence and Machine Learning

Artificial intelligence is a branch of Computer Science that aims to create intelligent machines. It has become an essential part of the technology industry. Research associated with artificial intelligence is highly technical and specialized. It deals with the simulation of intelligent behavior in computers. It could be perceived as a Computer system able to perform tasks that normally require human intelligence such as visual perception, speech recognition, decision-making and translation between languages.

Becoming an Artificial Intelligence Engineer puts you on the path to an exciting, evolving career that is predicted to grow sharply into this century and beyond. The need for AI specialists exists in just about every field as companies seek to give computers the ability to think, learn and adapt.



CSE with specialization in Internet of Things

The Internet of Things or “IoT” in short, is about extending the power of the internet beyond computers and smart phones to a whole range of other things, processes and environments. Those “connected” things are used to gather information, send information back, or both. The main idea of Internet of Things is to connect all the items to the internet by means of sensor devices such as RFID (Radio Frequency Identification) for accomplishing intelligent recognition and network management. The core support technology of the internet of things is a wireless sensor network and a radio frequency identification technology

IOT aims to provide a solid grounding in the key technologies involved and how they are integrated to form complete IoT systems and also provide an understanding of how the internet of things fits within the wider context of the industry.



CSE with specialization in Big Data Analytics

Big data is a field that treats ways to analyze, extract information or deal with large data sets. Big data associates with three key components volume, variety & velocity. Data creates potential bonanza if the data complexity is handled. Big data can be analyzed for insights that lead to better decisions and strategic business moves

This program is designed to produce graduates who are fully qualified as computer software and hardware developers, while at the same time, they will be able to serve as data analyst, database administrator, data scientist, database manager and big data engineers.



CSE with specialization in Cyber Security

In today’s digital era, where practices like hacking and cyber bullying are at its peak, cyber security has become a requirement rather than a choice. Cyber security protects internet-connected systems which include hardware, software and data, from cyber attacks. Security consists of logical security (also known as cyber security) and physical security which are used by enterprises to protect them against unauthorized access to data centers and other computerized systems.

This program is designed to produce graduates who are fully qualified as computer software and hardware developers. At the same time, they will be able to serve as information security officers, penetration testers and network administrators.



Computer Science and Business systems

To address the growing need of engineering talent with skills in digital technology, TCS, in partnership with leading academicians across India, has designed a curriculum for 4 years undergraduate program on Computer Science titled “Computer Science and Business Systems (CSBS) This curriculum aims to ensure that the students graduating from the program not only know the core topics of Computer Science but also develop an equal appreciation of humanities, management sciences and human values. The students are also exposed to emerging topics such as Analytics, Machine Learning, Cloud Computing, Internet of Things etc to make them industry ready at the end of four years of study.



CSE with Specialization in Gaming Technology*

A UG degree in game development is impeccable for the young budding engineers aspiring to turn their video gaming hobby into an enjoyable career. It’s a discipline that blends elements of computer science, graphic design, machine learning and virtual reality. In the statistical report of the American Gaming Association, gaming industry jobs offers

CSE with Specialization in Cloud Computing*

Cloud Computing simplifies accessibility, provides virtual storage space, and addresses backup issues. It also provides security against unauthorized access and loss of data. Cloud Computing can be considered as a significant tool of Information Technology that has made people’s lives easier and simpler. It helps businesses of all sizes and

employment to as many as 1.7 million individuals

domains meet their infrastructure, software, & h/w requirements

LAB FACILITIES

CSE Department has several well equipped laboratories catering to the needs of not only the CSE students but also students from other departments. It provides a wide approach in various programming languages and enables to apply knowledge in latest computer technologies, programming Languages, Computer Networks, Data structures, Artificial Intelligence and compiler design. The following laboratories are available with higher configuration for students, Faculty and Research Scholars

- Basic Programming Laboratory
- Analytical Laboratory
- Advanced Programming Lab
- System Programming
- Open Source Lab
- Data Structures and Algorithm Lab
- Office Suite Lab
- Micro Controller & IOT Lab



PLACEMENTS

- 1000+ Offers for Current and Previous Academic Year
- 250+ Students will get Internship offers during Final Semester
- 200+ Companies visiting CSE department every year
- 625 Students placed last year with median salary 4.4 lakhs
- 500+ Students placed so far for the current year even in the pandemic period
- 122 Students having Multiple offers (8 students – 5 Offers, 27 students – 4 Offers, 87 students – 03) in 2021 batch

Top 3 Offers So far,

39 LAKHS PER ANNUM
ADOBE SYSTEMS

35 LAKHS PER ANNUM
WORK INDIA

30 LAKHS PER ANNUM
AMAZON

Super Dream Offers (Current Academic Year)

COMPANY	OFFERS	PACKAGE(LPA)
Work India	1	35
AMAZON	1	30
PAYPAL	2	23.7
ONE DIRECT	1	20
EXOTEL	3	17
AB INBEV	1	17
ADOBE	1	12.2
HEALTH RX	1	12
OPTUM	4	11
ARUBA HPE	1	11

FRACTAL ANALYTICS	1	10.5
VERITAS	1	10.25

INTERNSHIP AND SAP

- More than 200 Students are currently doing their internships in top MNCs like Infosys, CTS, TCS, Amazon, etc.,
- An average of 40% of final year students started their Internship from the 8th semester onwards.
- 20 students have registered in SAP(Semester abroad program) in past 5 years, which gives ample opportunities to study in one or more semesters in World level universities during their UG level program.



ALUMNI INTERACTION

Alumni of our department take time to interact with their juniors often who are walking the journey they once walked. They gave them valuable insights into their career and how they should prepare to shine.

HIGHER STUDIES

Students graduated from our department were doing/completed their masters in various reputed institutions all over the world. Some of the universities are

- Harvard university
- University of Southern California
- University of Texas at Dallas
- University of Florida
- NewYork University
- University College Dublin
- University of Dayton
- University of Toronto
- Arizona State University
- NorthEastern University

ENTREPRENEURS



Mr. Ravi Ranjan

Founder, Dhobi-G Laundry Services, Noida



Mr. Pranav

Chief Marketing Officer, Dhobi-G Laundry Services, Noida

Dhobi-G Laundry Services is an online Laundry ordering service that provides door-pickup of clothes, laundry and door delivery of the same. The order can be placed through App and has grown in leaps and bounds to complete 30000+ orders as of date.



Mahadev K

Ecstasy Creatives (2020) is a Freelancers based- Development and Marketing agency with 500+ specialized services, Website and Software, Writing, Designing, Marketing & Promotions and Media Production branched out to various sub-categories.



Mohammed Ibrahim

Ibrahim Enterprises is a Tech Startup led by a vision to Transform lives . Company aims at Building and Investing Scalable Businesses and Softwares. Company provides Business Consulting, Venture capitalist, Outsourcing, Artificial Intelligence , Software Development Services.

MoU SIGNING

Signed MoU with these companies to provide Internship, Certification Courses, Placement Activities and Faculty industry relationship



Compunet Connections, Chennai



Bavista Software India Pvt. Ltd, Chennai



MIT – Square, London



Consortium for Technical Education. Chennai

STUDENT ACHIEVEMENTS

- Ms. Adira Nair of II-CSE bagged the Prime Minister Trophy Scholarship presented by Bhilai Steel Plant for meritorious students.
- Mr. Jaspreet Kaur of II-CSE has successfully completed 30-Days Google Cloud Workshop.
- Mr. Moun Kumar G of II-CSE has successfully completed Master Class of Google Colab Machine Learning App offered by Perfect Plan-B Pvt. Ltd.
- Ms. Manogna of II-CSE aced the 8-weeks course on Data Structures and Algorithms offered by Internshala.
- Mr. Hari Ganesh of II-CSE completed 12-week course on Programming in Java offered by NPTEL with ELITE+GOLD
- Ms. Aishwarya Shonik of II-CSE completed 8-week course on Programming, Data Structures and Algorithms using Python offered by NPTEL with ELITE.
- Ms. Aabhas Agarwal of II-CSE participated in Google Hash Code-2021 an International Coding Competition
- JOEAL CHRISH (II-CSE), The Department congratulates Mr. Joedal Chrish of II year CSE department and his team for bagging the First Prize in the Volleyball Championship conducted by the Tiruppur City Police in the "Police and Public Sports Meet-2021" on 08-Jan-2021
- SHANTANU CHURAMANI (II-CSE), The Department takes immense pleasure in lauding Mr. Shantanu Churamani for winning the Individual Gold Medal and the Young Rider of the Year Championship Trophy in the "National Endurance Championship 2021-2022" conducted by the Equestrian Federation Academy, Jaipur on 27-Jan-2021. His team went on to win the Silver Medal in the Championship.



STUDENTS CLUB

The Department creates a forum that brings out enthusiastic and energetic students towards their passions in all aspects. Students and staff were members of many professional societies like CSI, IEEE, IAENG, etc. and department wise clubs are also there where students will conduct technical events to share their knowledge and come up with good ideas.

- JOURNAL CLUB
- SKETCH
- TECHWIZ
- ANDROPEDIA
- CODECHEF
- CHIPSET
- LOGIC PLAY
- INTELLECTS
- SYNERGIES
- TECHPRO
- GAMCOM
- CYBORG
- TECHVAYUNA
- CODEZILLA
- SLUG & PLUG

RESEARCH ACTIVITIES (Current year)

PAPER PUBLICATIONS	: 56 papers published (15 wos , 41 Scopus)
INTERNATIONAL CONFERENCES	: 20 international conferences attended
RESEARCH PROPOSALS	: 20 Research proposals submitted
BOOK CHAPTERS	: 13 Book Chapters were published
PATENT	: 08 patents were published
No. OF RESEARCH SUPERVISORS	: 08 Faculties
PHD PURSUING	: 50 Faculties

STRENGTH OF THE DEPARTMENT

- Good Teaching Learning process
- Question paper quality is assessed by Question Paper Evaluation team
- Faculty Special Interest Group is formed to assess the quality of student projects and to guide them.
- Industry Internships are provided to the students
- Good Enrollment ratio and success rate.
- Students are involved in various club activities to enhance the technical skills
- Faculty Performance Appraisal and Development system is good.
- Faculties are more involved in attending FDP and STTP
- More quality students are admitted through counseling.
- Innovative pedagogies were adopted in Teaching and Learning process by the faculty members.
- 23- Alumni Talks, 14-Guest Lectures, 25-Club activities, 8-Webinars, 5- MHRD related activities were conducted for students in Academic Year 2020-21.