



Courses Offered
B.Tech. & Ph.D.
**Computer Science and
Business Systems**

COMPUTER SCIENCE AND BUSINESS SYSTEMS

Vision

Academic and research excellence in computer science fostering responsible global business leaders.

Mission

- To attain academic excellence in computer science and business systems through a creative teaching learning process and industry driven skill development
- To drive innovation and tackle global challenges through rigorous research and development, towards societal advancements.
- To transform the students into technically competent engineers with strong ethical values.
- To engage in talent nurturing programs by integrating frontier technology with business competence and be a catalyst for development.

Department Overview

B.Tech in Computer Science and Business Systems (CSBS) is an industry-integrated program offered in collaboration with Tata Consultancy Services (TCS). The curriculum is designed in accordance with the National Education Policy (NEP). The program equips students with strong technical expertise in computer science along with a solid understanding of business principles. It addresses the evolving needs of the IT and business sectors by integrating core computer science concepts with business intelligence. The faculty members handling the courses are trained by Tata Consultancy Services (TCS) to ensure effective delivery of the industry-aligned curriculum.

Department Highlights

- Curriculum designed in collaboration with TCS.
- Blend of Courses from Computer Science, Finance and Management.
- Joint Teaching with Professors from IISc, BIM, IMSc, The Wharton School, Florida, USA.
- Adjunct Faculty from IISC, Georgia USA.
- Industry support course with TCS, ZOHO, ThoughtWorks, InfySec.
- NEO Lab facilitates programming practice and assessment for developing students' coding and problem-solving skills
- Promoting Entrepreneurship skills – Our students hold 5 Pre- Incubating projects at TCE-TBI.

12 Total Faculty strength

01 Professor

01 Associate Professor

10 Assistant Professors

03 Technical Staff

01 Supporting Staff

10 Ph.D. Scholars

Programme Highlights

The salient features of the CSBS programme are as follows:

- CDIO-based curriculum (Conceive-Design-Implement-Operate) promoting experiential learning.
- Strong foundation in Computer Science integrated with Business Systems and Data Analytics.
- Focus on innovation, design thinking and problem-solving skills.
- Development of Professional Ethics, Leadership qualities and Business decision-making skills
- Honours Degrees are offered in Digitalization, Cloud and Storage Technologies, Cyber-Physical Systems, Management and Decision Sciences, while a Minor Degree is offered in Business Data Analytics.

Patents - 06

Citations - 1551

Grants - 04

- ₹90 LAKH grant - AICTE IDEA Lab Funding
- ₹1.3 LAKH grant - Naan Mudhalvan Scheme
- ₹11 LAKH grant - OutReach Programme AICTE
- 10 Scholars Graduated & 10 Currently Registered Scholars

59
Conferences

24
Book
Chapters

Total Publications
824

50
Journals

Industry & Academic Partnership



Faculty Achievements

- Dr. M.K. Kavitha Devi received Best Computer Science Faculty Award, Association of Scientists, Developers and Faculties (ASDF).
- Dr. S. Karthiga received Young Achiever Award at Institute of Researchers and completed the Faculty-Industry Internship at Atindriya Systems, Bangalore.
- Dr. P. Suganthi received an Appreciation Prize of ₹25,000 as a mentor in the GST Analytics Hackathon 2025.
- Dr. J. Felicia Lilian, Dr. S. Karthiga and Mrs. R. Subhashni received TCE Seed Money.
- Mrs. R. Subhashni secured a Second Prize of ₹50,000 as a mentor in the Honeywell Hackathon 2025 and completed the Summer Faculty Research Fellowship at IIT Delhi in 2024.
- Mr. V. Janakiraman secured 3rd prize as mentor in National Technology day Hackathon, 2025.
- Mr. M. Gowtham Sethupathi received the NPTEL Discipline Star Award, 2025
- Mrs. Priya Thiagarajan and Mrs. S. Sugantha received Gold Badge in NPTEL Course, 2025
- Mr. M. Venkatesh and Mrs. D. Yuvasini received Silver Badge in NPTEL Course, 2025

Technical expertise of students

Indian Institute of Science(IISc), Bangalore 2025, Second Prize(Cash Award of ₹30,000)



Balsu's Business Quiz 2025, First Prize



IdeaHarvest 2024, Second Prize



Innowah Hackathon, IITM PALS 2024
First Prize (Cash Award of ₹15,000)



BIACONF 2022 Datathon at IIM Bangalore, First Prize (Cash Award of ₹25,000)



Smart India Hackathon 2022, First Prize (Cash Award of 1 Lakh)

Pre- Incubators at TCE-TBI



Vivid

Vivid is a startup dedicated to helping other startups grow, whether you're just starting or facing growth challenges. We offer services from brand design to strategies that ensure your startup reaches and impresses stakeholders, driving success.



Solvify

Solvify, founded by five students from the Computer Science & Business Systems Department, is a startup focused on tackling societal challenges with innovative, market-driven solutions. Pre-incubated at Thiagarajar College of Engineering, Madurai. We aim to create impactful changes.



Kyouti.Co & Energize

Kyouti Co is an AI-powered platform transforming personalized gifting through handcrafted crochet items, empowering women artisans with tools and community support.

Energize aims to make India's residential sector 100% renewable by enabling cost-effective solar energy solutions for self-sufficiency.



Circlo

Circlo tackles inefficient waste disposal with a smart, reward-based recycling system. Using the Circlo app, users can track their impact as CircloBins automatically sort waste for recycling. They earn EcoBucks, redeemable for discounts, eco-friendly products, and donations. They can share their contributions within the app, encouraging more responsible recycling.

Laboratories Infrastructure



Block Chain Lab



Agile Lab



Smart and Secure Environment Lab



Integrated Business Application Lab

MOOC Courses Offered

- Fundamentals of Business Intelligence & Analytics
- Tools for Data Analytics
- Marketing and Social Media Web Analytics

Placements



Highest Package
13 LPA



Average Package
9 LPA



Lowest Package
3.75 LPA

Alumni Testimonials



RAMYAVARSHINI P
2020 – 2024

At Thiagarajar College of Engineering, I developed academically and professionally, serving as the General Treasurer of CSBS Association and participating in hackathons. This experience, along with placement coaching, led to securing a 12 LPA position at Caterpillar Inc., Chennai.

While studying at Thiagarajar College of Engineering, I honed my technical and problem-solving skills through hackathons and social initiatives with NSS. The college's placement training helped me secure a 13.3 LPA position at Athenahealth, Bangalore.

SUDHARSAN R
2020 – 2024



MAHALAKSHMI M
2021 - 2025

During my time at TCE, I actively engaged in research activities including international publications and patents, and participated in conferences, hackathons, and entrepreneurship initiatives such as Kyouti Co. I also contributed to departmental events and initiatives like the Women Empowerment Cell, which helped me develop leadership, collaboration, and problem-solving skills. With the continuous support of faculty and strong placement training, I secured placement at Educational Initiatives, Bengaluru, with a package of 10 LPA

Contact

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