



Courses Offered

*Integrated M.Sc. (Data Science) [5 Years]
&
Ph.D.*



DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

Vision

Academic and research excellence in Computational Science.

Mission

As a Department, We are committed to

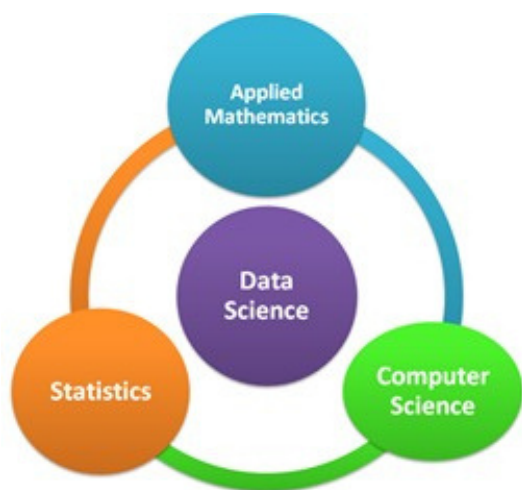
- Achieve academic excellence in Computational Science through innovative teaching and learning processes.
- Enable the students to be technically competent to solve the problems faced by the industry.
- Create a platform for pursuing inter-disciplinary research among the faculty and the students to create state of the art research facilities.
- Promote quality and professional ethics among the students.
- Help the students to learn entrepreneurial skills.

Department Overview

The Department of Applied Mathematics and Computational Science offers a 5-Year Integrated M.Sc. in Data Science, starting from 2019-2020. The program blends Applied Mathematics, Statistics, and Computer Science with foundation, core, elective, and employability-enhancing courses designed by faculty experts from IIT Madras, IMS Chennai, and IT industries. We prepare students to apply computational techniques to real-world problems. Graduates will be equipped to lead in IT, academia, and public sectors.

Department Highlights

- The department encompasses qualified faculty with industry experience, state-of-the-art facilities, and a student-centric environment for content delivery and mentoring.
- It offers TCE Online courses in cutting-edge technologies, with two completed courses and more in development, along with industry partnerships (IBM, Conversight.AI, JioVio Health care).
- Periodical faculty development activities and joint teaching initiatives with higher learning institutions enhance technical and pedagogical skills.
- The department conducts frequent webinars, guest lectures, and publishes articles on student-centric learning methods in Education Technology.



Centre of Excellence

Our collaboration with IBM establishes a state-of-the-art lab, providing students hands-on experience in data science, AI, and machine learning using IBM's advanced tools.



Programme Highlights

- Qualified faculty members with Industry experience.
- MoU with IBM, Conversight. AI and JioVio Healthcare Analytics to offer industry supported courses and internships/projects.
- Students' research internship at IISC, IIMS, IITS, CSIR, ISRO, CDAC Research Laboratory, Indian National Science Academy, New Delhi and IT industries.
- Collaborative teaching by Professors from IMS, IITS, IIITS, IIST and IIMs.
- Mentoring students for National Level Hackathons, technical contests, symposiums, ACM and IEEE conferences.
- Webinars on specialized topics in Data Science by Professors from IITs, IIMS, IITS, IIST and research labs from industries such as IBM, Microsoft, etc.,

12 Total Faculty strength

10 Faculty with Ph.D.

02 Professors

10 Assistant Professors

02 Adjunct Faculty

MOOC Courses Offered

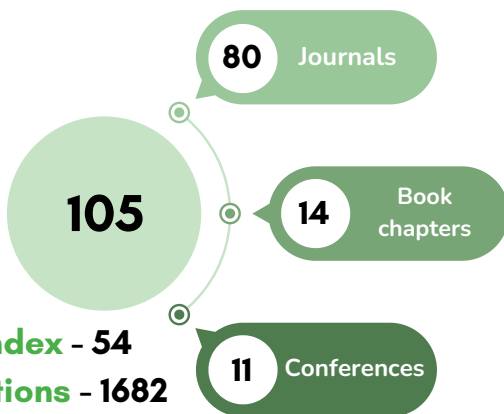
- Applied Statistics with Python
- Predictive analytics with regression: Simplified

(100 beneficiaries in 3 offerings from 2022 to 2024)

MoUs Signed



Publications



Industry Collaborations

a) Industry supported courses

i) Courses Offered:

- 21DS1A0 - Data Reporting Tools with Tiger Analytics, Bengaluru for the batch (2021-2026) in September 2023
- 21DS1B0 - Tableau in Data Visualization with Morgan Stanley, UK for the batch (2022-2027) in September 2024

ii) Upcoming courses:

- 23DS1C0 - Node.js with Chainsys, Madurai
- 23DS1D0 - Prompt Engineering with Conversight.ai, Coimbatore

b) Internship-cum-placements



Student Achievements



IUCEE-EWB TCE STUDENT CHAPTER (IETSC)

Professional Membership

The Association of Data Scientists is the leading global professional body for data science and machine learning professionals. Hence, our faculty and students find it useful to be a part of it.

ADaSci

Faculty Achievements

- Dr. D. Anitha** - Teaching Learning Leadership award, IUCEE 2024, IIEECP Certified 2016 and Ing.Paed IGIP titled (2020)
- Ms. S. Srimathi & Dr. A. Anitha** - Best paper in Conference (2024), IUCEE & Top Cited Article in 2023, Wiley
- Dr. S.T. Padmapriya** - Top Downloaded Article IJIST in 2022, Wiley
- Dr. T. Chandrakumar** - Merit Certificate for NCC, NCC Nodal Officer, & received fund for FDP (AICTE, DRDO)
- Mrs. R. Saraswathi Meena** - Topper in 3 NPTEL courses

Placements



Packages

60 LPA

Highest LPA

Lowest LPA

07 LPA

Alumni Testimonials



My transformative experience at Thiagarajar College of Engineering, including a rigorous Data Science syllabus and internship project, helped me secure a Software Engineer position at Caterpillar with a 13.79 LPA package. I'm grateful for the college's support and opportunities.

- J.B. Varsha Devi (2019-2024)



I am deeply grateful to my institution for their support, excellent training, and resources, which helped me secure an Associate Software Engineer role at Caterpillar with a 13.79 LPA package. The dedicated faculty and the placement team provided valuable opportunities that prepared me for the professional world.

- R. Aishwarya (2019-2024)



I am grateful to Thiagarajar College of Engineering for the excellent education and guest lectures that enriched my M.Sc. in Data Science. Placement training sessions were crucial in helping me secure a job at Tata Consultancy Services (TCS) with an 11.5 LPA package.

- R. Logeshwaran (2019-2024)

Department level Student Associations



Our Students' Multifaceted Activities



Anna University Zone-16
Basketball Tournament Winners
2024



NCC Activities under Swachh
Bharat



Yukti 24 at TSM - Cultural
Participation by our Students

Contact

Professor & Head
Email: hodamcs@tce.edu
Phone: 0452-2482240-625



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