DAYANANDA SAGAR UNIVERSITY

DECADES LEGACY
IN EDUCATION & HEALTHCARE

A+ GRADE ACCREDITED BY NAAC

AI-Driven Campus for Intelligent Innovation

B.Tech

CSE (ARTIFICIAL INTELLIGENCE)

Index

A Place to Grow, Excel, Invent & Innovate!

About DSU

Dayananda Sagar Institutions founded in the 60's by a visionary, Late Sri. R. Dayananda Sagar (Barrister-at-Law) committed to take knowledge to the people, transforms today's students into responsible citizens and professional leaders of tomorrow. Dayananda Sagar University created by an Act of the Karnataka State in 2014, built on this adorable legacy and inspired by its own milestones, meeting the needs of quality higher education in this part of the world.

This main campus is thoughtfully planned on 130 acres, with a picturesque site and a blossoming green environment, making it free from city crowds and pollution. Being a completely self-contained campus adjacent to Harohalli Kanakapura Road, Bengaluru South District., it is equipped with all the modern state-of-the-art infrastructure, creating a conducive environment for progressive experiential learning and transforming you into next-generation innovators, explorers, leaders, and researchers.

University Accreditation and Rankings

Times Engineering — Times All India Engineering Institutes Ranking Survey 2023 — Number One — Top Emerging Engineering Institutes; Emerging Engineering Institutes - Placement; Emerging Engineering Institutes - Research Capability

IIRF -2025 — Education Impact Award — Promising Private University for Academic Excellence & Learning

ICARE Ratings KSURF — Teaching Excellence ★★★★★ Research Excellence ★★★★★

Emerging engineering institute; Emerging engineering Institute Placement 2022; Emerging Engineering Institute Research Capabilities — DSU has Rank No. 1 By Times of India 2022

ET The Economic Times 2023 — Excellence in Academic Facilities & Learning Resources

IIRF -2024 — National Rank – 9 — Top Private Universities in India (Overall) — State Rank 3 — South Zone Rank 3

IIRF -2026 — Education Impact Award — Excellence in Employability & Placement Performance

Times Business Awards — Best Emerging University 2021

34th ELETS World Education Summit 2025 Chennai — Outstanding University with Best Placements

About School of Engineering (SoE)

Welcome to the cutting-edge realm of engineering excellence at the School of Engineering (SoE), Dayananda Sagar University (DSU). The School of Engineering (SoE) at Dayananda Sagar University (DSU) provides world-class education and experiential training in engineering, with a strong focus on innovation across various disciplines such as Computer Science, Artificial Intelligence, Robotics, and more. The unique and multidisciplinary learning environment is supported by state-of-the-art infrastructure, job-role–based emerging specialisations, innovative pedagogy, a contemporary curriculum, multifaceted faculty, strong industry collaborations, and impeccable placements.

It has emerged as the top choice for students who aspire to become next-generation technocrats, innovators, developers, and creators. Our advanced and exceptional M.Tech programs are meticulously designed to propel students to the forefront of evolving technologies. These programs offer specialised majors that allow learners to explore their areas of interest and expertise in depth—whether in computer science, electronics, or other engineering disciplines. Students are also exposed to knowledge beyond their chosen specialisation, helping them broaden their perspectives and enhance their intellectual horizons.

School Vision

Transform lives through excellence in engineering education, research, and innovation with an emphasis on sustainability, inclusive technologies, and global needs.

School Mission

1. Design and deliver contemporary engineering curricula to address regional and global needs while emphasizing ethics, values, integrity, and regional relevance.

2. Carry out high-impact academic research, industry projects, and innovation activities with active student engagement to advance science and engineering knowledge and state-of-the-art industry practices.

3. Develop regional and national leaders to advance the society and economy.

Message from the Dean

BE YOU
BE THE DIFFERENCE!!!

Welcome to the new way of learning at School of Engineering (SoE) of Dayananda Sagar University (DSU). At SoE, we are committed to helping you to make a positive difference in the world. We at SoE are immensely proud to provide all of our students with an outstanding education that equips them with the skills, experience, and confidence required to stand out from the crowd. The School promotes Culture of Excellence including the culture of Interdisciplinary, Research, Creativity, Innovations, and Entrepreneurship on various Cutting-Edge Technologies. We at SoE, provide the World-Class Education that is Student-centric, Research-centric, and educational space where all of our students will have a transformative education, learn to be independent critical thinkers, be societally and ethically responsible, and to have a broad understanding of the world.

We value ability, not background, and we support all of our students to achieve their potential. We want you to enjoy your time here, confident that, upon completion of Engineering degree program under SoE, you will have the knowledge, expertise, and employability skills to set you on your chosen career path. The decision you make about where to study is an extremely important one. I am pleased you are considering the School of Engineering at DSU, and hope that you choose to continue your education with us.

BEST WISHES!

Dr. Udaya Kumar Reddy K R
Dean, School of Engineering

About Department

The Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning) is offering B. Tech in CSE (AI), a specialized program that blends the core foundations of Computer Science with focused expertise in Artificial Intelligence. The programs in the Department of CSE (AI & ML) are carefully designed by considering industrial requirements and the rapidly evolving trends in AI technologies, ensuring that students gain multidisciplinary skills with strong application-oriented knowledge.

VISION

Transform lives through excellence in engineering education, research, and innovation with an emphasis on sustainability, inclusive technologies, and global needs.

MISSION

The Department Computer Science and Engineering (Artificial Intelligence & Machine Learning) is committed to:

- Impart quality education through the state-of-the-art curriculum, infrastructure facilities, cutting edge technologies, sustainable learning practices, and lifelong learning.
- Collaborate with industry-academia and inculcate interdisciplinary research to transform professionals into technically competent.
- Produce engineers and techno-entrepreneurs for global needs.

Program Overview

The Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning) is offering B. Tech in Computer Science (AI), a specialized program that blends the core foundations of Computer Science with focused expertise in Artificial Intelligence. The program is carefully designed by considering industrial requirements and the rapidly evolving trends in AI technologies, ensuring that students gain multidisciplinary skills with strong application-oriented knowledge.

The department has a team of highly qualified faculty members, the majority with PhD degrees in Computer Science and related domains, from reputed institutes and universities in India and abroad. These faculty members are dedicated to mentoring and guiding some of the brightest young minds of the nation. The department is equipped with state-of-the-art infrastructure and advanced laboratories to facilitate cutting-edge research and development across a broad spectrum of AI and ML applications. In addition to classroom learning, the department also ensures holistic exposure for students by organizing seminars, webinars, workshops, symposiums, hackathons, and other co-curricular activities in collaboration with industry experts and academic leaders.

The Department of CSE (AI & ML) started its first batch with an initial intake of 104 students. Over the years, the program has grown significantly due to its popularity and demand in the technology sector. As of the current batch of 2025, the department has expanded to a student strength of 600+, making it one of the fastest-growing departments in the institution. The faculty members of the department possess expertise across diverse interdisciplinary areas such as Artificial Intelligence, Machine Learning, Natural Language Processing, Deep Learning, Computer Vision, Gen AI, Agentic AI, MLOps, Fintech, Cloud Computing, Internet of Things, Data Analytics, and Robotics. With a team of more than 38 dedicated faculty members, the department strives to provide a state-of-the-art academic environment and research exposure, preparing students to become industry-ready professionals and innovative researchers in the field of Artificial Intelligence and Machine Learning.

Program Duration

4 Years (8 Semesters)

Eligibility

Pass in PUC / 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry / Biotechnology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained at least 50% marks (45% in case of candidate belonging to SC/ST & OBC category) in the above subjects taken together, of any Board recognized by the respective State Governments / Central Government / Union Territories or any other qualification recognized as equivalent thereto.

University offers prestigious merit scholarships based on your IIT-JEE Scores as per university cut off

Program Unique Features

- Integrated Liberal education program to gain insights into subjects like Psychology, Design Thinking, critical thinking & creative writing
- Student-centered pedagogy
- Curriculum focused on recent trends
- Blended & Hybrid Learning
- Provides opportunities for hands-on and experiential learning
- Promoting deep learning through project-based learning
- Preparing students for evolving job roles in the chosen area of specialization
- Emphasis on design-oriented thinking, Communication, Collaboration and Creativity from 1st year
- Offers flexibility in choosing elective courses for widening the understanding of emerging technologies
- Offers major, minor and specialization as part of 4 year programme
- Startup ecosystem to translate idea into business models
- Encourage Entrepreneurship
- Targeted towards equipping students for future skill sets

Program Objectives

The B.Tech CSE (AI) Program will enable students to:

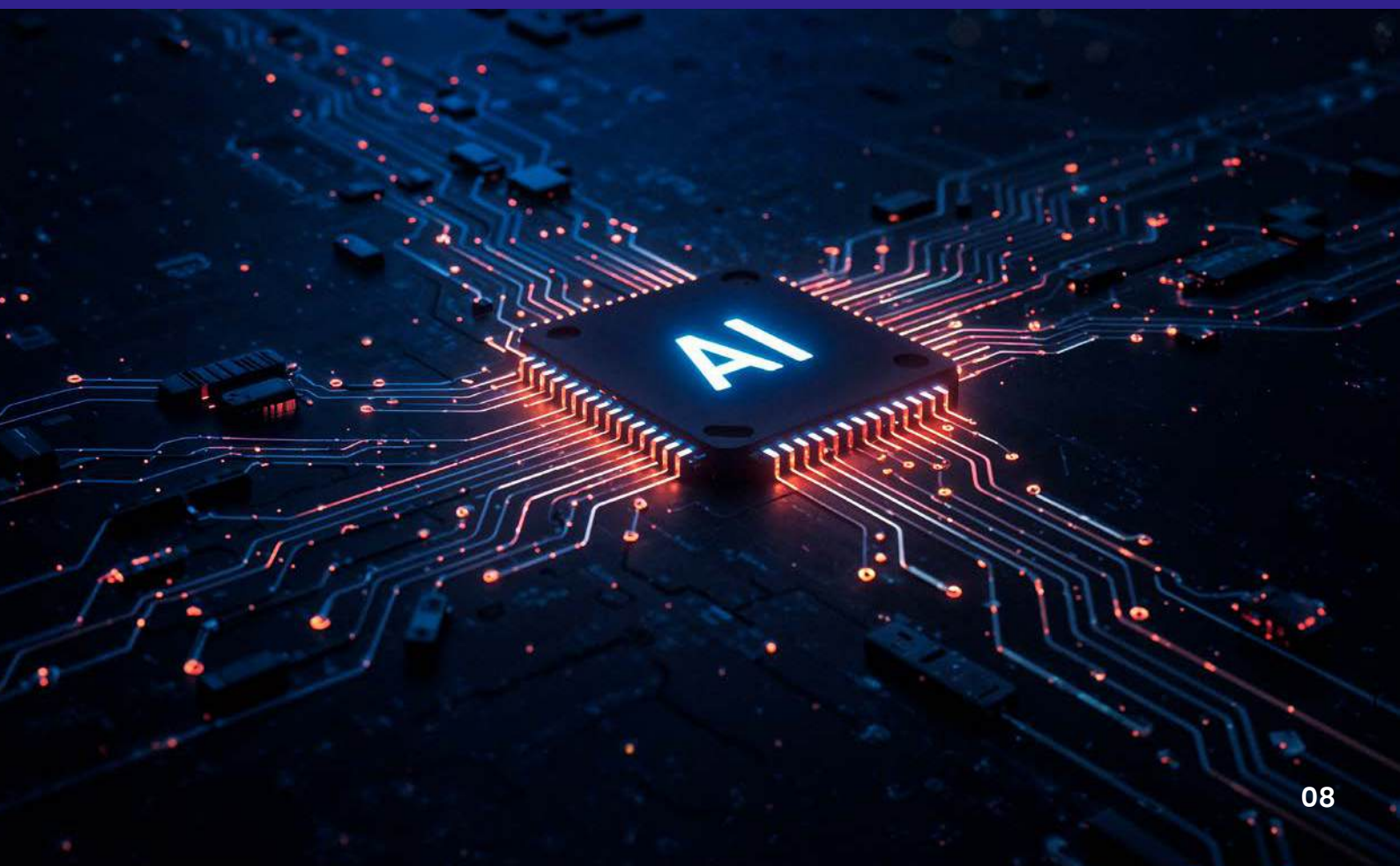
- Utilize their knowledge in the domain of Computer Science Engineering and Artificial Intelligence to lead a successful career as experts Industry or other fields
- Apply analysis, predictions, optimization, decision making and develop skills in order to formulate and solve complex computing and multidisciplinary problems.
- Take up higher studies, research & development and other creative efforts in the area of Machine Learning.

Unique Features of the CSE (AI) Curriculum

- AI-First Curriculum Design: The program is built around Artificial Intelligence as the central theme, with core courses starting from the third semester — Introduction to AI Hardware & Edge AI, Computational Intelligence, and Cognitive Systems.
- Progressive AI Learning Pathway: The curriculum advances through Machine Learning -> Deep Learning -> Generative AI & Large Language Models -> AI Systems Engineering (MLOps), ensuring students evolve from theoretical grounding to deployment skills.
- Dedicated Generative AI and LLM Course: A rare inclusion among undergraduate programs — students learn Generative AI Systems and LLM Deployment, equipping them with skills directly linked to ChatGPT, Claude, Gemini, etc.
- Industry-Relevant Skill Enhancement Courses (SEC): Each semester integrates hands-on skill tracks such as Java Programming, Unix & Shell Scripting, Cloud Computing, making students technically versatile.
- AI for Sustainable Development: The program connects AI with real-world impact, emphasizing SDG-linked AI applications and ethical deployment.
- Domain-Specific Professional Electives:
  Students can specialize in one of the following emerging domains:
  >> AI & Language Perception
  >> Robotics and Automation
  >> Architecture and Security
  >> Data Analytics and FinTech

- Integrated Cognitive & Technical Skill Modules: Continuous skill-building through "Cognitive and Technical Skills I–IV" ensures employability through communication, teamwork, and tool proficiency.
- Interdisciplinary Exposure: Inclusion of courses such as AI for Sustainable Development, Innovation & Entrepreneurship, and Responsible AI & Ethics fosters holistic and responsible AI professionals.
- Strong Capstone & Internship Integration: Students complete Minor Project (VI Sem), Capstone Project I (VII Sem), Capstone Project II (VIII Sem), and an Internship, ensuring comprehensive hands-on and industry exposure.

Domain Clusters	PROFESSIONAL ELECTIVE COURSES									
	PEC-I		PEC-II		PEC-III		PEC-IV		PEC-V	
	5th Semester		6th Semester				7th Semester			
	Course Code	Course Name	Course Code	Course Name	Course Code	Course Name	Course Code	Course Name	Course Code	Course Name
AI and Language Perceptions	26AMXXXX	Optimization Techniques	26AMXXXX	Explainable AI	26AMXXXX	Quantum Machine Learning	26AMXXXX	AI Ethics	26AMXXXX	Human Computer Interface
Robotics and Automation	26AMXXXX	Fundamentals of Robotics	26AMXXXX	Reinforcement Learning	26AMXXXX	Robot Operating System (ROS)	26AMXXXX	Cognitive Robotics	26AMXXXX	Robotics and Automation Application
Architecture and Security	26AMXXXX	Fundamentals of IoT	26AMXXXX	Cryptography & Network Security	26AMXXXX	Advanced Computer Architecture	26AMXXXX	GPU Architectur	26AMXXXX	Blockchain Technology
Data Analytics	26AMXXXX	Data Science & Analytics	26AMXXXX	Predictive Analytics	26AMXXXX	Financial Technology (FinTech)	26AMXXXX	Distributed AI	26AMXXXX	UG Research Project



Program Industry Insights

AI job postings and GenAI adoption have surged globally; national roadmaps predict millions of AI-enabled jobs in India by 2030 (NITI Aayog).

AI job postings continue to surge — postings requiring AI skills grew sharply (one industry tracker reported ~61% YoY growth in 2024 for AI-skill postings, outperforming average job-ad growth)

- Generative AI is mainstream at work — surveys show a large fraction of knowledge workers now use generative AI; LinkedIn/Work reports indicate ~55% of members will see job changes from generative AI and ~75% of knowledge workers adopt GenAI tools. Use this to highlight GenAI course relevance.
- National policy & job projections for India — NITI Aayog projects that AI could create millions of new jobs in India by 2030 (reporting estimates and a national roadmap for AI job creation). This supports positioning grads for national demand.
- Employer demand for production-ready ML talent (MLOps) — industry reports and job boards highlight surging demand & premium salaries for MLOps engineers and ML engineers; Glassdoor shows MLOps median/average compensation in developed markets (useful for aspirational positioning).
- India remains a major AI hiring hub — domestic reports (NASSCOM/industry press) show AI/ML and analytics remain top hiring priorities in India's tech sector — justify local placement opportunities.
- India's AI Talent Demand - India's AI industry is projected to add 1 million new AI-related jobs by 2030, with major hiring in ML engineering, data science, and AI product development.

Emerging Job Opportunities

Graduates are industry-ready for roles in ML engineering, MLOps, GenAI product teams, NLP, computer vision, robotics, AI governance and domain-specific AI roles in healthcare, finance and energy

Core AI & ML Roles

- Machine Learning Engineer / Researcher
- AI Developer / Data Scientist
- Deep Learning Engineer
- Generative AI Engineer / Prompt Engineer
- AI Systems & MLOps Engineer

Specialized / Emerging Roles

- NLP and LLM Specialist
- Computer Vision Engineer
- AI Solutions Architect
- Edge AI Engineer (AI on Devices)
- AI Product Manager / AI Consultant
- Responsible AI & Ethics Analyst
- AI for FinTech / Predictive Analytics
- Specialist
- Robotics and Cognitive Automation
- Engineer
- AI for Healthcare & Smart Systems
- Specialist

Project / Thesis Components

Hands-on Projects at Every Stage

AI for Renewable Energy Systems (Sem-III) - Team Project

- Minor Project (Sem-VI) — team project (2 credits): implement an end-to-end prototype (modeling + evaluation) using course toolchain (ML/DL). Ideal for early industry mentorship.
- Capstone Phase-I (Sem-VII) — problem scoping, literature review, data procurement, baseline model and project plan (4 credits). Seek industry co-supervisor where possible.
- Capstone Phase-II (Sem-VIII) — full productionization, performance optimization, deployment demo, documentation and evaluation (12 credits). Emphasize MLOps pipelines, model monitoring, and ethical assessment.
- Internship (Sem-VIII) — credited industry internship (3 credits) to expose students to corporate workflows, real datasets, and deployment environments.

Project Theme Recommendations Tied to Electives / Industry Demand

- Generative AI Applications (Chatbots, Content Creation, AI Assistants)
- AI for Sustainability (Climate Prediction, Smart Energy Systems)
- Computer Vision for Smart Cities / Healthcare
- Edge & IoT AI for Autonomous Systems
- AI Ethics, Explainability, and Governance Frameworks
- MLOps Pipelines for Continuous Deployment

Internship Opportunities

The Department facilitates internships across diverse industry and research organizations. These internships are conducted as a part of the experiential learning component. All the internships were industry-linked or research-oriented, ensuring that students applied classroom learning to real-world environments. The engagements included collaborations with established firms, startups, and R&D institutions, fostering multidisciplinary and practical exposure.

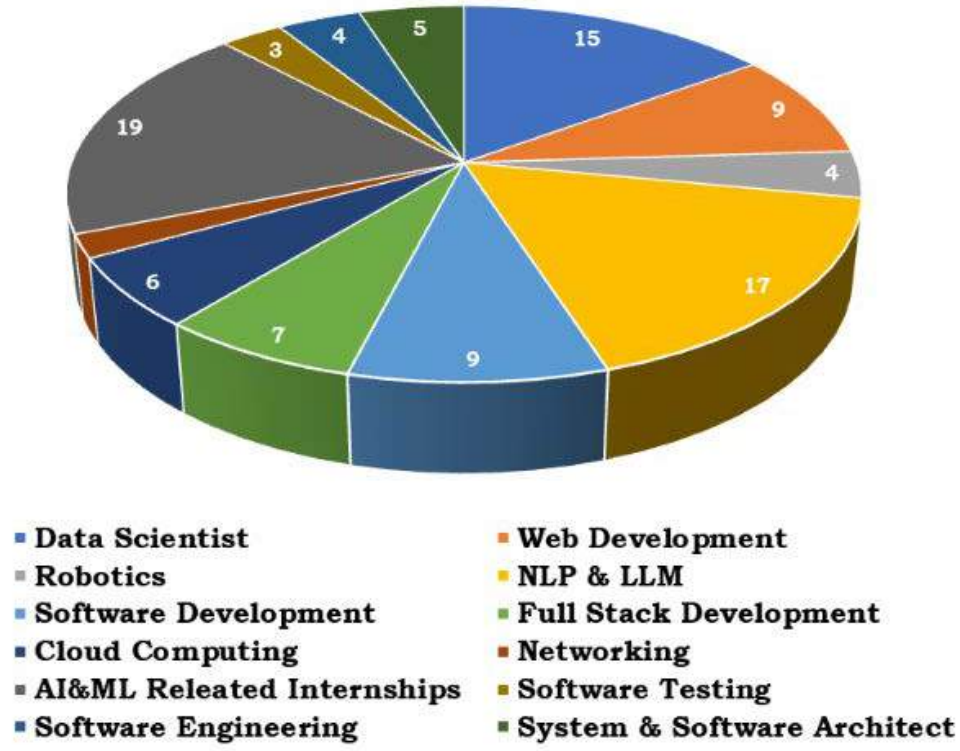
Internship 2024-25

Parameter	Observation
Average Duration	119 days
Mode of Delivery	99% Offline (Hands-on/Onsite), 1% Remote
Typical Duration Range	90 – 365 days

Internship Pay-out Statistics

Category	Typical Stipend Range	Avg. Monthly Pay-out
Paid Internships	₹5,000 – ₹40,000 per month	₹17,500/month

Internship Organizations as per the Domain Specific Taken by the Students



Top Organizations who Offered Internships (AY2024-2025)

edgeverve An Infosys company
Slash Mark
unisys
ZIDIO DEVELOPMENT
CRIA
TriSpace Technologies
इसरो isro
IISc
wipro
TITAN COMPANY
arteco

Placement

Pre-Placement Training

The Department takes a unique, student-centric approach to placement preparation by inviting our own successful alumni—placed in leading industries through campus recruitment—to mentor and train current students. These sessions provide first-hand insights into the recruitment process, interview strategies, and technical expectations of top AI companies. Since these alumni are now professionals in the very organizations visiting our campus for placement drives, they offer highly relevant guidance and practical tips, bridging the gap between academic learning and industry readiness. This peer-driven initiative greatly enhances student confidence and preparedness for achieving excellent placement outcomes.

B.Tech Placement Record (2024-25)

450+	10 L	56 L
COMPANIES VISITED	AVERAGE PACKAGE (LPA)	HIGHEST PACKAGE (LPA)

Top Recruiters

Some of the top recruiters for engineering graduates operate on both a national and international scale, with a strong presence in countries leading the tech industry. They range from major tech giants to specialized startups and staffing agencies.

Top Recruiters

Cognizant, accenture, Prodapt, Capgemini, wipro, DXC TECHNOLOGY, Infosys, KOCH, kyndryl, IBM, TEACHNOOK, BOSCH, Mindtree, Chegg, skolar, Persistent, L&T Infotech, IQVIA, Mu Sigma, pwc, thoughtcentric labs, CitiusTech, TCS TATA CONSULTANCY SERVICES

Department Clubs and its Activities

The student clubs at DSU, SOE, CSE(AI&ML) are of three kinds: Academic club, Special Interest club & Firmware clubs. Each Club is anchored to a faculty member or a group of faculty members who acts as the faculty coordinator, mentoring the students associated with each club.

DSU X TEMPETE CLUB

The DSU X Tempete Club is a vibrant departmental club under the CSE(AI & ML) at SoE, DSU, Bengaluru. It's designed as a platform for students to explore AI/ML concepts through hands-on events and competitions.

YANTROVE CLUB

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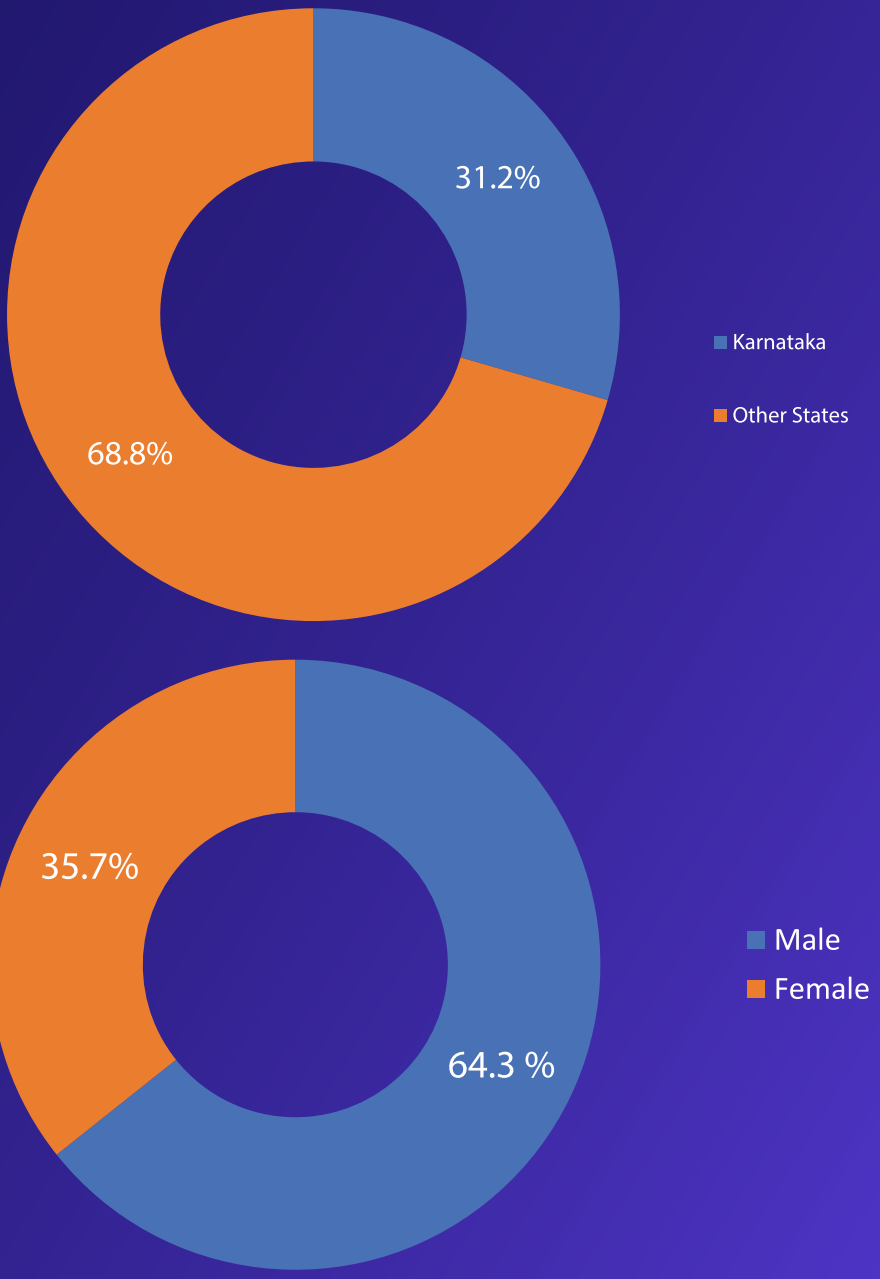
AI WORKS @ DSU

The club serves as a hub for curious minds to collaborate, learn, and innovate in the field of Artificial Intelligence. Through workshops, hackathons, projects, and knowledge-sharing sessions. AI WORKS@DSU empowers students to apply AI/ML concepts in real-world scenarios and nurture a culture of research, creativity, and problem-solving.

DSU B.Tech 2025 – A Glimpse into Our Diverse Student Landscape



University offers prestigious merit scholarships based on your IIT-JEE Scores

Scholarship Highlights

2025- **INR 6.24 Cr.** awarded to **780** Students

2024- **INR 6.79 Cr.** awarded to **905** Students

2023- **INR 5.80 Cr.** awarded to **806** Students

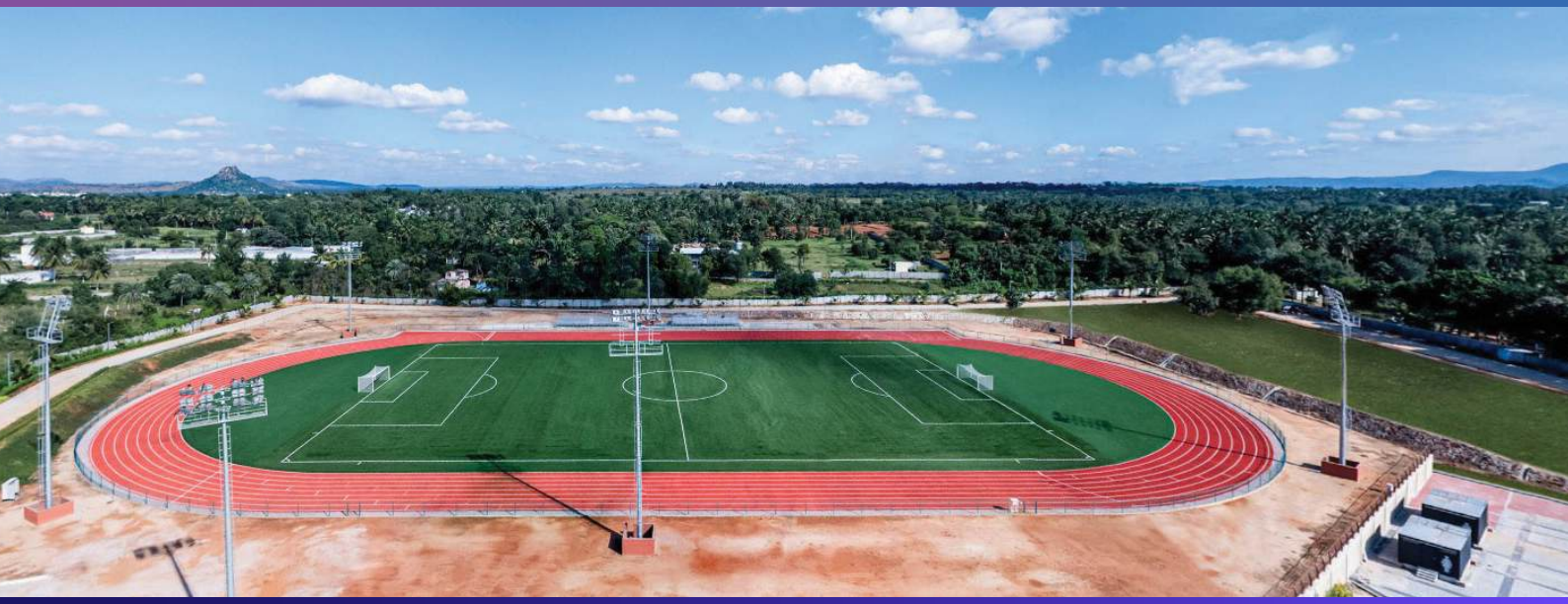
Foreign university collaboration for student exchange and internship opportunities*

UNIVERSITY	COUNTRY
University of South Carolina Aiken	USA
The University of Wisconsin–Madison	USA
Northeastern University	USA
German Varisty, Aachen	Germany
Steinbeis University	Germany
RWTH Aachen University	Germany
Indo Eurosynchronisation Pvt Ltd	Germany
Samara National Research University	Russia
The University of Brescia	Italy
Limkokwing University of Creative Technology	Malaysia
James Cook University	Australia
Ming Chi University of Technology	Taiwan
Amazon College International	Srilanka
Worcester Polytechnic Institute	USA
Western Connecticut State University	USA
The University of Huddersfield	England
TUM Asia Pte Ltd	Singapore
THE UNIVERSITY OF WOLVERHAMPTON	UK
Southern Connecticut State University	USA
DSTI - School of Engineering	France
The University of Liverpool	UK
The University of Worcester	UK
Illinois Tech	USA
Dniprovsky State Technical University	Ukraine
Visayas State University	Philippines
Nelson Marlborough Institute of Technology	New Zealand
New Jersey Institute of Technology	New Jercy
INTI International University	Malayasia
Relaince College	Malayasia
Hasanuddin University	Indonesia
LeTourneau University	USA
MIET, Moscow	Russia
Daffodil University	Bangladesh
University of Liberal Arts ULAB	Bangladesh
Multimedia University (MMU)	Malaysia
Mangosuthu University of Technology MUT	South Africa
University of Lay Adventists of Kigali (UNILAK)	Rwanda
Atyrau University	Kazakhstan
MENDEL UNIVERSITY IN BRNO	Czechia
Ernst Abbe University of Applied Sciences Jena	Germany
King Ceasor University	Uganda
Algebra University	Crotia
University of Evansville	USA
Nizhyn Mykola Gogol University	Ukraine
Dmytro Motornyi Tavria State Agrotechnological University	Ukraine
Széchenyi István University	Hungary
Southern Federal University	Russia
Uni La Salle Polytechnic Institute	France

*Applicable as per university terms and conditions

Infrastructure and Facilities

Sports Facilities



Library

About Library

The Library, established alongside DSI and expanded with Dayananda Sagar Institutions (1969), Dayananda Sagar College of Engineering (1979), and Dayananda Sagar University (2014), was envisioned by the founder, Late Sri R. Dayananda Sagar, as a world-class knowledge hub. Built systematically, it accommodates 560 users and houses an extensive collection of books, CDs, DVDs, periodicals, and digital resources. Serving undergraduates, postgraduates, research scholars, and faculty, the Library reflects the University's academic excellence and is managed by a team of skilled and dedicated professionals.

School of Engineering Collections

Titles	6385
Volumes	21305
Book Bank	433
Bound Volumes	139
Book CD's	643
Periodical CD's	17
Educational Video's	47
National & International Print Journals	60
News Papers	10
Magazines	15
E-Books	12579

DSU Main Campus Hostel



About Hostel

Our hostel, located within the heart of the DSU main campus, offers a perfect blend of comfort, safety, and convenience. Designed to meet the needs of today's students, our state-of-the-art facilities ensure that you have everything you need for a successful and fulfilling college experience. With a secure environment and a focus on student well-being, our hostel provides the ideal space for both academic focus and relaxation. Whether it's modern amenities, dedicated support for your studies, or a community that fosters growth, our hostel is your home away from home—helping you thrive every step of the way!

Facilities

- 24/7 Assistance
- 24/7 Handyman
- 24/7 Concierge
- Face recognition & Biometric
- 24/7 Handyman
- Upper/lower bunk bed
- 24/7 Handyman
- Wi-Fi
- Vending Mechines
- RO Drinking Water
- CCTV Monitoring
- Study Zones
- Business Center
- Break-Out Zones
- F & B Partners
- Retail Cafeteria
- Gym Room
- Meditation Room
- Theatre
- Scenic natural views
- Sports Facilities
- Cupboard with a locker
- Parking
- Music Room
- Yoga Room
- Indoor Game Rooms
- Discussion Rooms
- Parcel Service

7+
BUILDINGS

5000+
STUDENTS ACCOMMODATION

100%
SATISFACTION

2 Tier Rooms

In this tier, 2 students will be living together in an en-suite apartment with an access to all the common facilities.

3 Tier Rooms

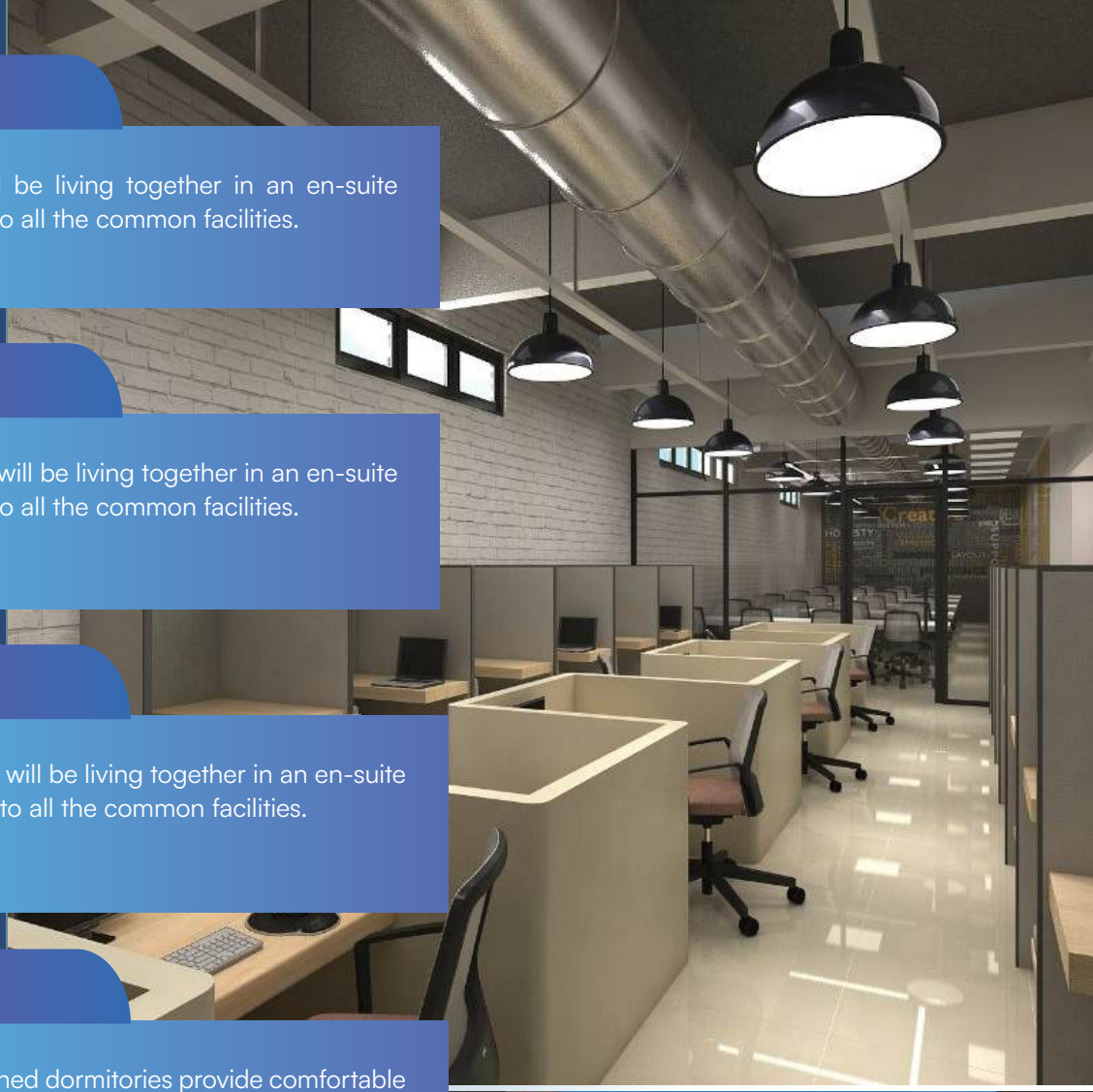
In this tier type, 3 students will be living together in an en-suite apartment with an access to all the common facilities.

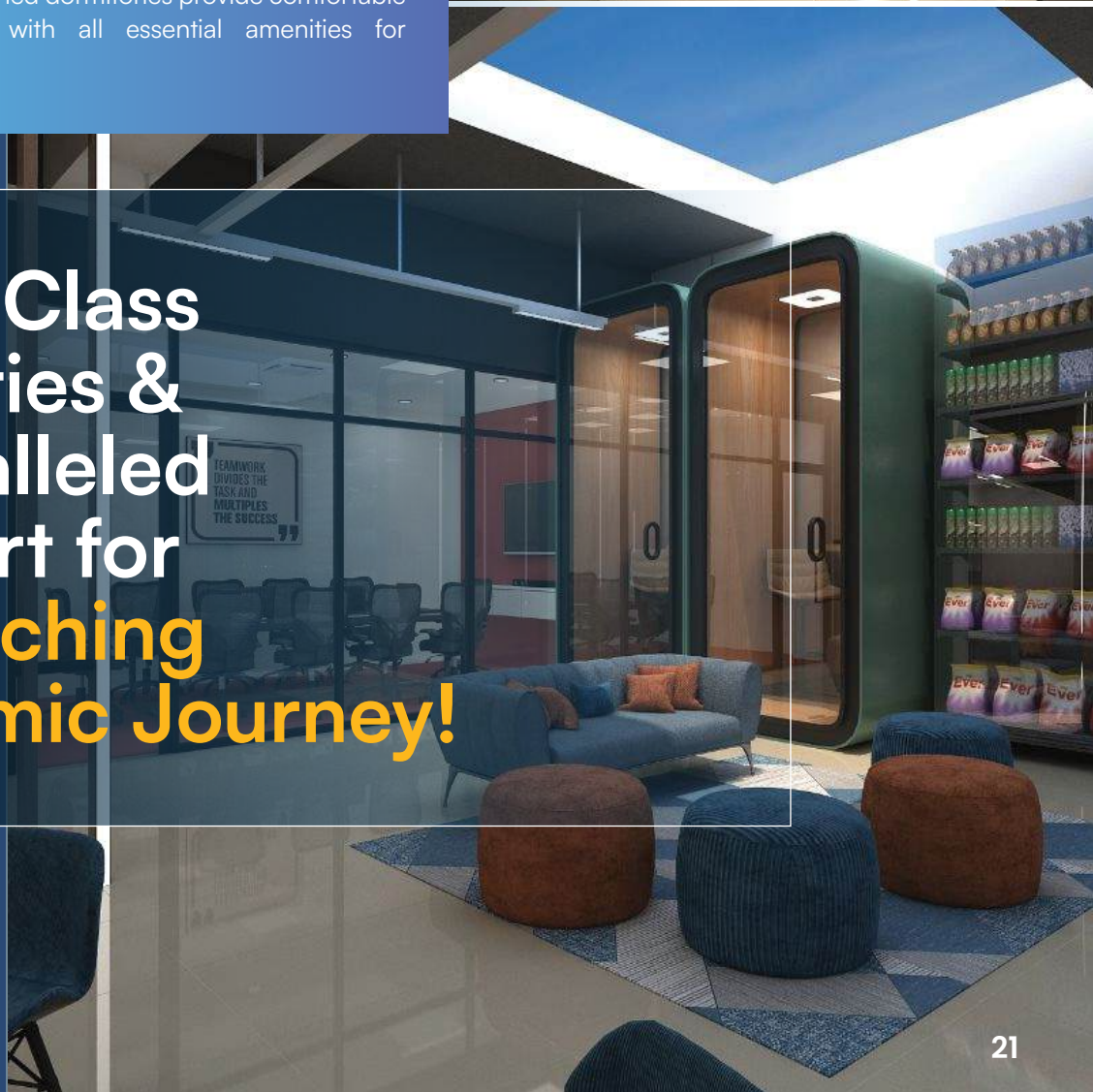
4 Tier Rooms

In this tier type, 4 students will be living together in an en-suite apartment with an access to all the common facilities.

Dormitory

Spacious and well-maintained dormitories provide comfortable shared accommodation with all essential amenities for students.





World-Class Amenities & Unparalleled Comfort for an Enriching Academic Journey!

Labs

Digital Circuit Lab

Common Computer Lab

Analog Circuits Lab

Structures Lab

Electronic Lab

Composites Lab

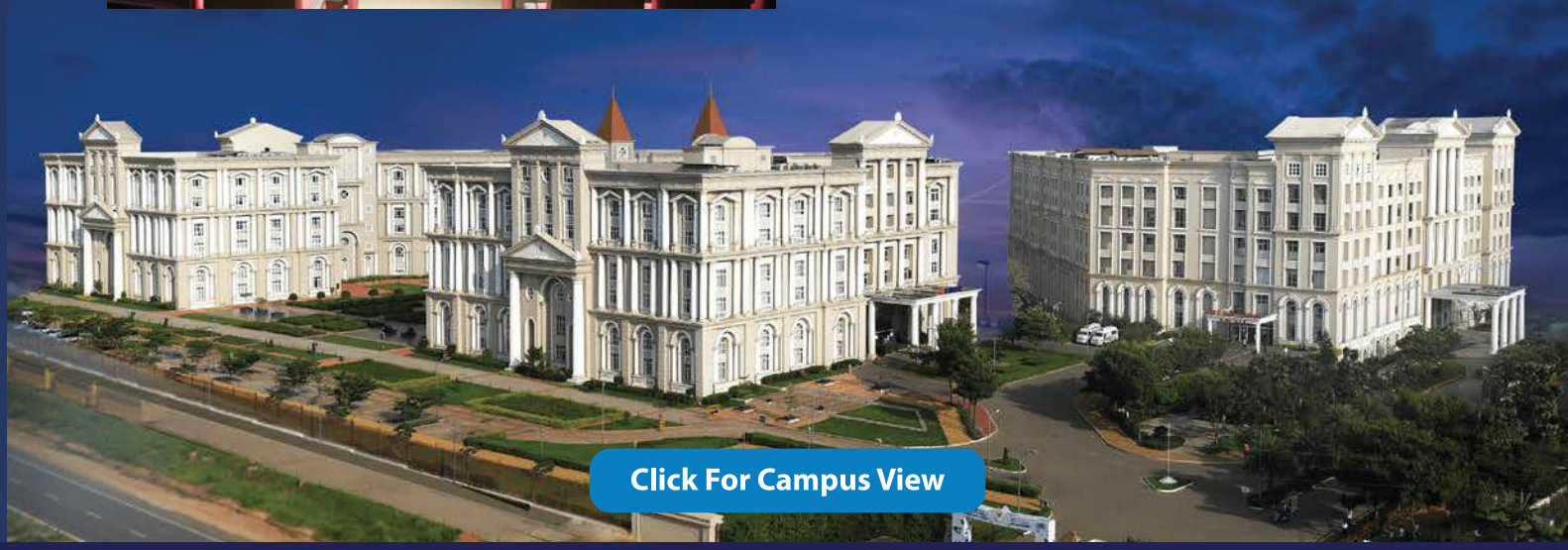
Physics Lab

Tutorial Room

Glimpse of DSU Main Campus at Harohalli





DSU Main Campus : Devarakaggalahalli, Harohalli, Kanakapura Road, Bengaluru South – 562 112

Admissions Helpline Nos: 080 4646 1800 +91 636 688 5507

www.dsu.edu.in admissions@dsu.edu.in