DAYANANDA SAGAR UNIVERSITY

7 DECADES LEGACY IN EDUCATION & HEALTHCARE

A+ GRADE ACCREDITED BY NAAC

Lead the Next Wave of Computing Innovation!

M.Tech

Computer Science & Engineering (CSE)

Index

A Place to Grow, Excel, Invent & Innovate!

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 — 01st November 2025

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

Department of Computer Science & Engineering (CSE)

Vision

To develop a pool of high-caliber professionals, researchers, and entrepreneurs in the areas of Computer Science & Engineering and Information Technology with exceptional technical expertise, skills and ethical values, capable of providing innovative solutions to the national and global needs.

Mission

To create a robust ecosystem where academicians, concept developers, product designers, business incubators, product developers, entrepreneurs, mentors and financial institutions are brought together under one platform of the department.

To establish Project Environment in the Department with open-source tools, provide hands-on experience to students by establishing a process to channelize their effort towards acquiring relevant competencies and skills in their chosen technology areas and domains.

To create a continuous learning environment for faculty and establish Research Centers in collaboration with Industries and Institutions of National/International repute and conduct research in emerging areas as well as socially relevant technical and domain areas through funded research projects.

Program Overview

The Department of Computer Science & Engineering (CSE) offers a two-year M. Tech program designed for advanced learning, innovation, and research in cutting-edge areas of computer science. With a strong focus on emerging technologies, the curriculum integrates hands-on training, real-time projects, and industry internships to prepare students for impactful careers. It equips learners with new-age skills and a solid technical foundation to thrive in global opportunities. Built on an innovative curriculum, modern pedagogy, and industry-aligned assessments the program provides both the breadth of core CSE and the depth of specialized domains. Alongside technical expertise, students develop personal effectiveness, leadership, and professional competencies, supporting their all-around growth and future readiness.

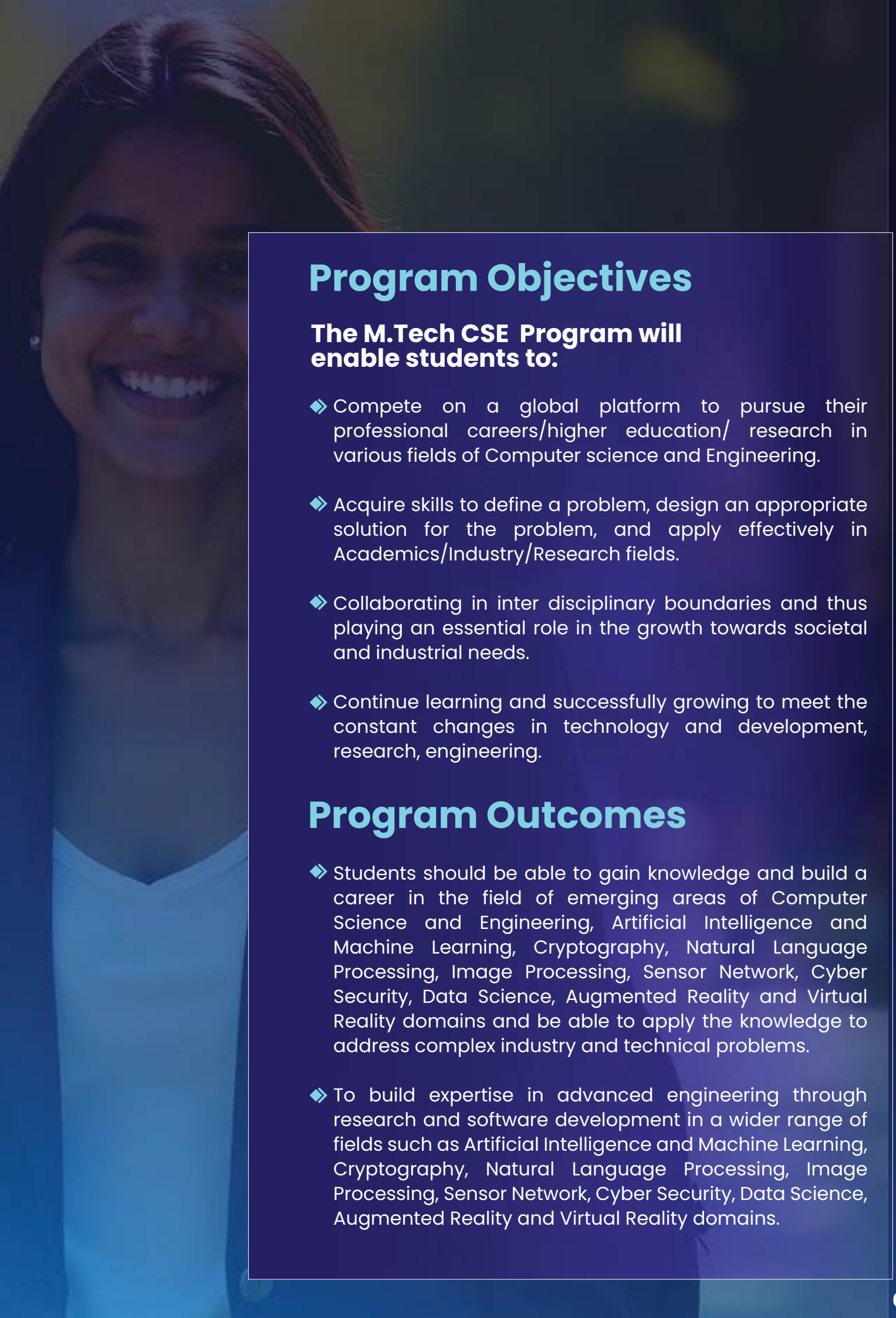
Program Duration

Two years (4 Semesters)

Program Eligibility

Pass in B.Tech in ECE, CSE, ISE, Biomedical, Medical Electronics, Electronics & instrumentation, EEE, Telecommunications, Mechatronics and other circuit Branches with a minimum of 50% marks in aggregate(45% in case of candidate belonging to SC/ST & OBC).

* **Note:** Upon successful completion of the M.Tech programs (CSE/AI & ML/ AI & Robotics/ AI/ AI & DS), candidates are offered a job with a starting salary of INR 65,000 per month for a year which will be extended after evaluating his/her performance deliverables as per the Organization.



Program Objectives

The M.Tech CSE Program will enable students to:

- Compete on a global platform to pursue their professional careers/higher education/ research in various fields of Computer science and Engineering.
- Acquire skills to define a problem, design an appropriate solution for the problem, and apply effectively in Academics/Industry/Research fields.
- Collaborating in inter disciplinary boundaries and thus playing an essential role in the growth towards societal and industrial needs.
- Continue learning and successfully growing to meet the constant changes in technology and development, research, engineering.

Program Outcomes

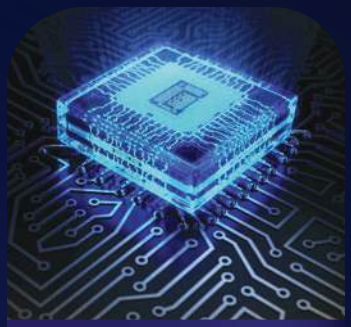
- Students should be able to gain knowledge and build a career in the field of emerging areas of Computer Science and Engineering, Artificial Intelligence and Machine Learning, Cryptography, Natural Language Processing, Image Processing, Sensor Network, Cyber Security, Data Science, Augmented Reality and Virtual Reality domains and be able to apply the knowledge to address complex industry and technical problems.
- To build expertise in advanced engineering through research and software development in a wider range of fields such as Artificial Intelligence and Machine Learning, Cryptography, Natural Language Processing, Image Processing, Sensor Network, Cyber Security, Data Science, Augmented Reality and Virtual Reality domains.

Program Unique Features

- Industry–Aligned, AI-ready Curriculum tailored to Industry 4.0 and aligned with UN Sustainable Development Goals (SDGs)
- Strong focus on Emerging & Disruptive Technologies across all specializations
- Expertise in High-Demand Domains: Artificial Intelligence, Computational & Data Science, Cloud Computing, Network & Cybersecurity
  Experiential & Project-Based Learning through real-world problem solving and innovation-driven activities
- Enhanced Research Exposure with a 6-month internship and a 1-year dissertation project
- Centres of Excellence (CoE) including AR/VR Technology for advanced hands-on learning
- MOOC-based learning integrated into coursework.
- Collaborative Learning Environment to develop teamwork, leadership & communication skills
- Highly Qualified Faculty with extensive academic and industry expertise
- Holistic and Multidisciplinary Development focusing on cognitive, technical, ethical & personal growth
- Entrepreneurship Support & Startup Culture through DERBI and AIC-DSU incubation centres
- Strong Industry–Academia Partnerships enabling internships, mentorship, guest lectures & superior placement opportunities
- Few Courses delivered by Industry Experts & Visiting Faculty from premier academic institutions
- Located in Bengaluru South – The Silicon Valley of India, ensuring excellent networking and career prospects
- World class Infrastructure
  European Style Architecture, ICT enabled Lecture Theater Halls with Air-conditioned Classrooms and Laboratories with interactive Digital Smart Board with Air conditioned Wi-Fi Enabled Campus

Tracks

Students of the M.Tech in CSE are given the option of specializing in one of four streams:



Core CSE

Computational & Data Science

Cloud Computing

Network & Cybersecurity

Core Courses

- **Mathematics for Computer Science**
- **Advances in Algorithm**
- **Advances in Data Base Management System**
- **Soft Skills and Personality Development**
- **Artificial Intelligence**
- **Agile Project Management & DevOps**
- **Advances in Operating Systems**
- **Research Methodology**
- **Internship**
- **Dissertation / Research Project**

S. N	Domain Clusters	PROFESSIONAL ELECTIVE COURSES											
		PEC-I		PEC-II		PEC-III		PEC-IV		PEC-V		PEC-VI	
		Semester 1				Semester 2				Semester 3		Semester 4	
		Course Code	Course Name	Course Code	Course Name	Course Code	Course Name	Course Code	Course Name	Course Code	Course Name	Course Code	Course Name
1	Core CSE	23CSE5105	Data Structures	23CSE5106	Computer Networks	23CSE5205	Digital Image Processing and Forensics Science	23CSE5206	Social Network Analysis	23CSE6302	Machine Learning	23CSE6402	Deep Learning
										23CSE6303	MOOC	23CSE6403	MOOC
2	Computational & Data Science	23CSE5107	Data Science	23CSE5108	Data Warehouse & Data Mining	23CSE5207	Big Data Analytics	23CSE5208	Business intelligence	23CSE6304	Natural Language Processing	23CSE6404	Text and Speech Analytics
										23CSE6305	MOOC	23CSE6405	MOOC
3	Cloud Computing	23CSE5109	Cloud Computing & Virtualization	23CSE5110	Web Technology and Cloud Application Development	23CSE5209	Cloud Infrastructure Management	23CSE5210	Distributed Systems	23CSE6306	Wireless Network Security	23CSE6406	AWS Cloud Essentials
										23CSE6307	MOOC	23CSE6407	MOOC
4	Networks and Cyber Security	23CSE5111	Cryptography	23CSE5112	Steganography and Digital Watermarking	23CSE5211	Cyber Security and Privacy	23CSE5212	Blockchain Technologies	23CSE6308	Wireless Networks & 5G	23CSE6408	Intrusion Detection Systems and Firewall
										23CSE6309	MOOC	23CSE6409	MOOC

Project / Thesis Components

Integrates Mini and Minor Projects during the First year to build foundational and applied skills.

Thesis in the final year that integrates multidisciplinary knowledge to solve real-world problems.

Salient Features of Curriculum

- **Emphasis on Emerging & Disruptive Technologies**
- **80 credits of coursework: 30 credits of core courses, 50 credits of specialization courses**
- **6 months internship**
- **One year Dissertation Project**
- **Emphasis on Soft skills, coding, Research & Placement Readiness**
- **MOOC-based learning integrated into coursework**
- **Mini Project**
- **Integration of Theory and Practice**

Program Industry Insights

According to the Weebox India Skill Report 2024, Computer Science Engineering (CSE) graduates hold an employability rate of 66 %, making it one of the most sought-after engineering disciplines in India. The growth of digital technologies such as artificial intelligence, machine learning, cloud computing and data analytics as highlighted by industry reports projecting India's tech sector to reach US $350 billion by 2025 has significantly expanded the demand for CSE professionals.

Emerging Job Opportunities

M. Tech in CS&E has a great career opportunity in the industry as well as in academics. After completion of this program, students get opportunities like

- Sr. Software Engineer / Developer /Programmer
- Team Leads / Architect
- Design Engineer
- Security Architect
- Domain Consultant
- Academician or a Researcher

Experiential Learning

- Project-Based Learning (PBL)
- Hackathons & Coding Competitions
- Internships
- Technical Clubs, student chapters (IEEE, CSI, ACM, etc.)
- Bootcamps
- Workshops and Technical Talks
- Role Playing exercises
- Case studies
- Industrial visit

Internship Opportunities

Students have an opportunity to take up the Internship Program in reputed industry/academic institute/R&D/Government organizations.

Category	Duration	Period of Engagement
Internship	6 Months	3rd semester

Industry Tie-Ups and Industry Projects executed by students

Sl. No.	Industry	Type of tie up
1	Nokia University Bengaluru	Industry-academia programme
2	National Institute of Advanced Studies	Industry-academia programme

Internship Payouts Stats

Category	Duration	Stipend Range (per month)
Internship (3rd semester)	6 Months	5000 – ₹35,000

Companies Offering Internships

Phonepe, Nokia , UNISYS, Bosch, IBM India pvt. Ltd., Infosys, SISA information security pvt. Ltd., StoneX, Schneider electric, Vodafone Intelligent Solutions , GE Aerospace, Indee TV, Cashfree, Commonwealth Bank of Australia and Schmid Vision Soft, HPE, ASM Technologies, Siemens Healthineer, PHINIA Delphi, Labsity, TeknoTrait, PERSEVEX, Edu-versity, LearnFlu, Eurofins IT Solutions, Solutionec Private Ltd, Aparoksha Financial Services, Skyra, OpenText, Unlox, Intimetec, Pelatro, Halma India Company, univision, HAL, Basis cloud solution pvt. Ltd., KPMG India pvt. Ltd., CBA services Pvt. Ltd., Schmid vision soft.

Placements

Pre-Placement Training:

It provides the following training for all students

- Aptitude Training
- Soft Skill Training
- Technical Training

Placement Support

- counselling and personality development
- Resume building and interview preparation
- Recruitment drives with 50-60 companies
- Alumni network with 3000+ M.Tech alumni
- Support for Ph.D and international master's programs

Top Recruiters (National & International)

cognizant, REDANT TECHNOLOGIES, ideaForge, accenture, sense

Highest package offered

₹ 12 LPA

Average package

₹ 5 LPA

Profile Offered

- Data Analyst
- Product Development Associate
- Associate Software Engineer
- C++ Application Developer
- Java Developer
- React.js Developer

Innovations Labs

Augmented and Virtual Reality Centre of Excellence (Upcoming – 2025-26)

The AR/VR Innovation Lab is planned to be established as a Centre of Excellence in the academic year 2025-26. The facility will focus on immersive technology research, advanced student training, and development of AR/VR applications across education, healthcare, and industrial domains

Research Centres and Learning Hubs

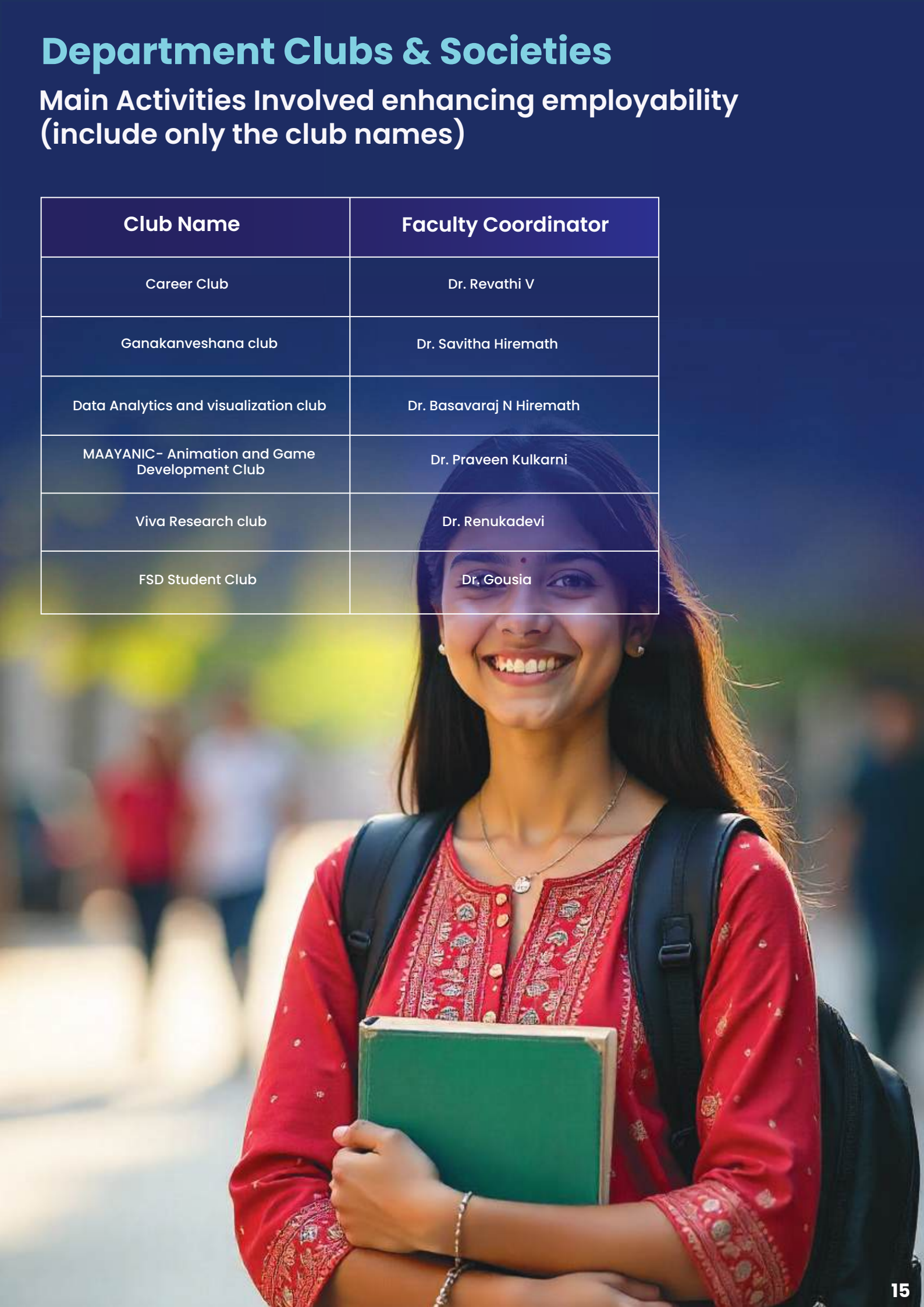
Satellite Image Processing Lab in collaboration with NIAS

Students of this lab are working on advanced methods and algorithms for automatic information extraction for (online or offline) processing and analysis of images and data from multi-source data.

Department Clubs & Societies

Main Activities Involved enhancing employability (include only the club names)

Club Name	Faculty Coordinator
Career Club	Dr. Revathi V
Ganakanveshana club	Dr. Savitha Hiremath
Data Analytics and visualization club	Dr. Basavaraj N Hiremath
MAAYANIC- Animation and Game Development Club	Dr. Praveen Kulkarni
Viva Research club	Dr. Renukadevi
FSD Student Club	Dr. Gousia



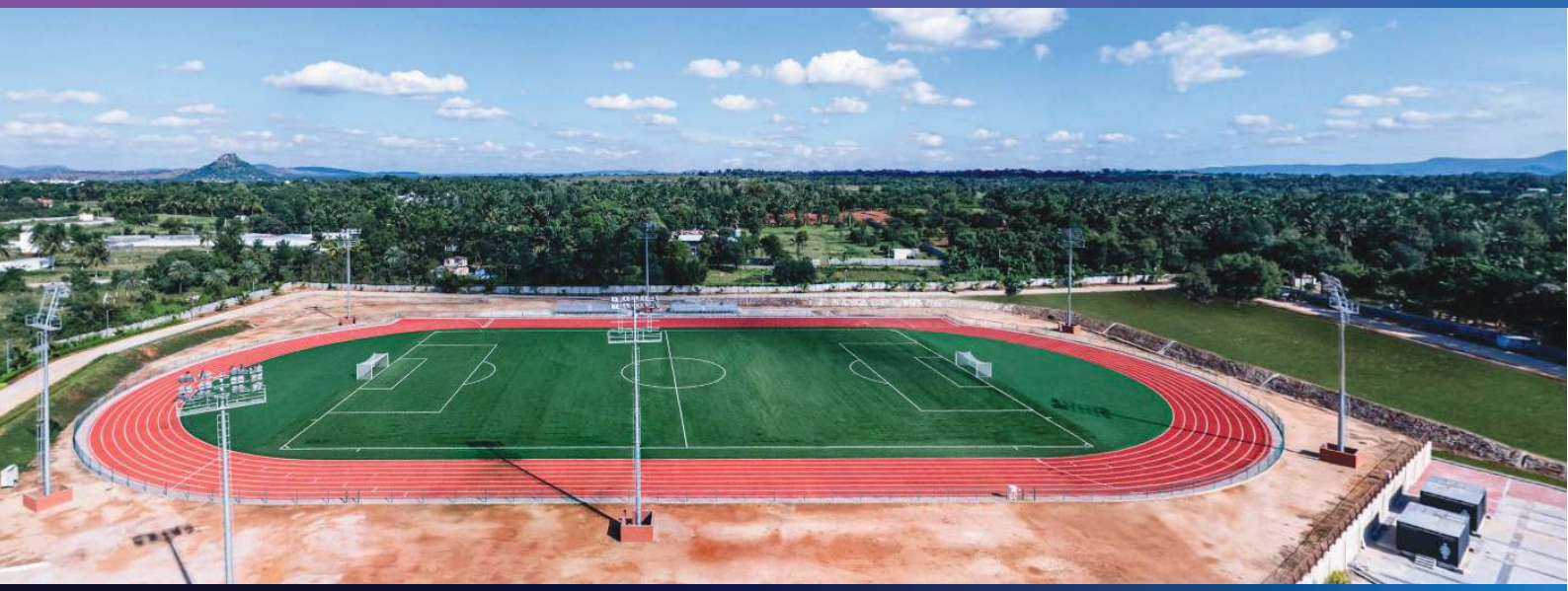
Foreign university collaboration for student exchange and internship opportunities*

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

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