



DAYANANDA SAGAR
UNIVERSITY



DECADES LEGACY
IN EDUCATION & HEALTHCARE



Innovate Your Code Thrive in an AI Powered Future



B.Tech

COMPUTER SCIENCE ENGINEERING (CSE)

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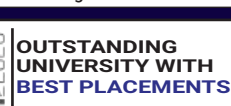
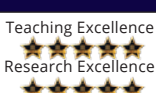
A Place to Grow, Excel, Invent & Innovate!

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



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 School of Engineering (SoE) was established in the year 2015 offering B.Tech, M.Tech and research programmes in various disciplines including Computer Science and Engineering (CSE), CSE(Artificial Intelligence & Machine Learning), CSE(Data Science), CSE(Cyber Security), Computer Science and Technology, Electronics and Communication Engineering, Aerospace Engineering and Mechanical Engineering. The Artificial Intelligence and Robotics branch was established in 2023. At SoE, your studies in each of these disciplines will focus on innovation.

Vision

To be recognized as a department of eminence in Computer Science and Engineering focusing on sustainability, inclusive technologies and societal needs.

Mission

The Department of Computer Science and Engineering (CSE) is committed to:

- ◆ Impart quality technical education by designing and delivering contemporary Computer Science Engineering curricula while emphasizing leadership, ethics, values and integrity.
- ◆ Transform professionals into technically competent through industry-academia collaboration and innovation ecosystem.
- ◆ Prepare Computer Science and Engineering graduates to meet ever-growing societal needs.

Program Overview

B. Tech – Computer Science and Engineering provides a solid foundation and new age skills to our bachelor's level students, to build a career of the future to contribute effectively to the global opportunities. We use innovative curriculum, pedagogy and assessment methods in line with the National Education Policy and in partnership with industry to enable students to get not only the breadth of CSE and depth of various specializations, but also to develop personal effectiveness and leadership skills for all rounded development.

Program Duration

Four 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 there to.

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

Program Unique Features

- ◆ Future-Ready Curriculum aligned with Industry 4.0 and Sustainable Development Goals (SDGs).
- ◆ To Develop Expertise in Competitive areas of Cloud Computing, Industrial IoT, AR/VR, Networks & Security, Embedded Systems, Quantum Computing, ADAS
- ◆ Industry-designed electives
- ◆ Specialized Centres of Excellence (CoE) in Augmented Reality & Virtual Reality Technology
- ◆ Research & Innovation centred
- ◆ Fostering Entrepreneurship with DERBI and AIC, DSU Incubation Centre
- ◆ International Exchange Program
- ◆ Course modules delivery by Adjunct Faculty/Visiting faculty from reputed Academic Institute and Industry
- ◆ Strong Industry/Academia Collaboration
- ◆ World class Infrastructure
 - >> European Style Architecture
 - >> Lecture Theatre Halls
 - >> Class rooms and Laboratories with interactive digital Smart Board
 - >> Wi-Fi Enabled Campus

Core Courses

- ◆ Chemistry for CS Cluster
- ◆ Physics for CS Cluster
- ◆ Biology For Engineers
- ◆ Introduction to Sustainable Engineering
- ◆ Design Thinking
- ◆ Liberal Art Courses
- ◆ Skill Enhancement Courses
- ◆ Cognitive and Technical Skill courses
- ◆ Research Methodology
- ◆ Secure Software Engineering Management
- ◆ Explainable AI & Ethics
- ◆ Innovation & Entrepreneurship
- ◆ Minor project
- ◆ Data Analytics & Visualization

Tracks



Machine Learning



Data Science



Gaming, Animation & Immersive learning



IoT, Cloud, Network & Security



General Computer Science

		PROFESSIONAL ELECTIVE COURSES									
Domain wise	Domain Clusters	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
Domain-1	Machine Learning	24CS3508	Digital Image Processing	24CS3606	Deep Learning	24CS3614	Machine Learning for HealthCare	24CS4703	Pattern Recognition	24CS4711	Automated Driving Assistance Systems
		24CS3509	Natural Language Processing	24CS3607	Computer Vision	24CS3615	Generative AI	24CS4704	MLOps	24CS4712	Edge AI & TinyML
Domain-2	Gaming, Animation & Immersive Learning	24CS3510	Computer Graphics	24CS3608	Animation & VFX	24CS3616	Game Development	24CS4705	Augmented Reality and Virtual Reality	24CS4713	UI/UX Design
Domain-3	Networks, IOT, Cloud & Security	24CS3511	Introduction to Cybersecurity	24CS3609	Cryptography	24CS3617	Internet of Things	24CS4706	Cloud & IoT Security	24CS4714	Industrial IoT
				24CS3610	Cloud Computing	24CS3618	Blockchain & Distributed Ledger	24CS4707	AWS Web Services	24CS4715	Digital Forensic
Domain-4	Data Science	24CS3512	Cloud Data warehouse and Data Lakes	24CS3611	Introduc-tion to Data Mining	24CS3619	Data Science	24CS4708	Social Networks Analytics	24CS4717	Business Intelligence
Domain-5	General Computer Science	*CID	MOOC	CID	MOOC				MOOC	24CS4719	High Performance Computing
		24CS3514	Robotic Process Automation	24CS3613	UG Research Project- I/ Product Develop-ment Founda-tion-I	24CS3621	Quantum Computing	24CS4710	UG Research Project- II/ Product Developm-ent Founda-tion- II		

Project / Thesis Components

- ◆ Integrates Mini and Minor Projects during the lower semesters to build foundational and applied skills
- ◆ Capstone Project in the final year that integrates multidisciplinary knowledge to solve real-world problems.

Foreign Languages

Under the Liberal Arts curriculum, students can choose from below mentioned foreign languages in the 3rd semester. These courses are taught by qualified language experts and are offered at no additional fees.

- ◆ German Language course
- ◆ Japanese Language course

Unique Features of Curriculum

- ◆ Industry-aligned, outcome-based curriculum, NEP 2020-aligned Structure
- ◆ Strong foundation in Mathematics & Programming
- ◆ Theory-Integrated Laboratory Courses
- ◆ Courses focused on Emerging Technologies: Generative AI, Agentic AI, Edge Computing, Cloud Computing, IoT, Cybersecurity, and Blockchain
- ◆ Multiple specialisations in elective streams (AI/ML, Data Science, Security, Immersive Learning) helps students opt for a path of interest
- ◆ Continuous emphasis on problem-solving, coding, and algorithmic thinking
- ◆ Semester-wise mini projects and hands-on lab sessions
- ◆ Assessment through participation in Hackathons, Innovation Challenges, and Coding Contests
- ◆ Mapping to MOOC / NPTEL / SWAYAM & Flexible Credits
- ◆ Opportunities to publish research papers, file patents, and develop prototypes
- ◆ Capstone Projects mentored by industry experts
- ◆ Interdisciplinary learning through open electives across domains
- ◆ Ability Enhancement & Skill Enhancement courses
- ◆ Research & start-up culture built into the curriculum supports innovation
- ◆ Inclusion of Summer Internships to get practical exposure to a professional work environment.



Program Industry Insights (Market Demand)

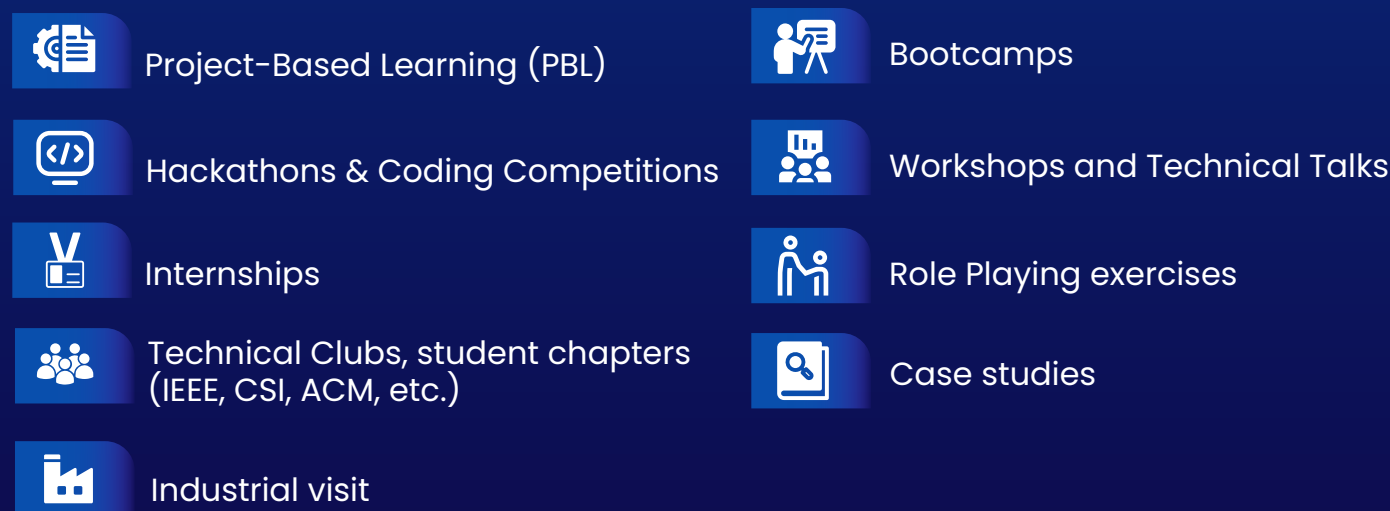
According to the Weebox India Skill Report 2024, Computer Science Engineering (CSE) graduates hold an employability rate of 66 %, making it one of the most sought-after engineering disciplines in India. The growth of digital technologies such as artificial intelligence, machine learning, cloud computing 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



Experiential Learning

Experiential learning initiatives include:



Internships

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

Category	Duration	Period of engagement
Summer Internship	2 Months	During Summer Term (after 2nd, 4th or 6th semester)
Final Year Internship	3-4 Months	Final Semester (8th Semester)

Internship Payouts

Category	Duration	Stipend Range (per month)
Summer Internship	2 Months	₹5,000 – ₹25,000
Final Year Internship	3-4 Months	₹10,000 – ₹50,000

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.

Industry Tie-Ups and Industry Projects Executed by CSE students

Sl. No	Industry	Type of tie up	Year	Student Projects
1	Nokia University Bengaluru	Industry-academia programme	2024	1. HATBOT FOR Customer Services Team (optics) 2. Digital-Physical Fusion for Industrial Mixed Reality
			2025	1. Next-Gen tinyML Smart Weather Station Challenge 2024 2. Tool for the Pre-assignment of a Customer Ticket 3. Advanced Detection of EOL Open SW Components
2	National Institute of Advanced Studies	Industry-academia programme	2024	1. Urban Flood Assessment and Evaluation in Bengaluru 2. A framework for Solid Waste Management for Bangalore region Using Satellite Image Processing approach 3. Environmental Impact Analysis using Satellite Image Processing: A Case Study on Bangalore STRR Phase-1 4. Change Detection in Agricultural Land using Time Series Data 5. Crop Stress Monitoring using Remote Sensing Methods 6. A Model for estimating and characterisation of Biomass in the forest Regions. A Case Study - Bannerghatta national park

Placement

Pre-Placement Training

Industry Partnered Cognitive & Technical Skills Training part of Curriculum CTS classes will be conducted during regular hours, practical hours, evening hours, and weekends from 1st semester to 6th semester. It provides the following training for all students:

- ◆ Aptitude Training
- ◆ Soft skill Training
- ◆ Technical Training
- ◆ Integrate mini-projects, case studies, coding sprints, Boot camps and hackathons for hands-on learning
- ◆ Equipped with Online LMS Platform (Aptitude & Coding Practice Platform),

B.Tech Placement Record (2024-25)

450+

COMPANIES
VISITED

10 L

AVERAGE
PACKAGE (LPA)

56 L

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



Profile offered

- ◆ Promo Producer
- ◆ Imaginer
- ◆ Trainee System Engineer
- ◆ Java Developer
- ◆ React.js Developer
- ◆ Automation Engineering – Intern
- ◆ Data Analyst
- ◆ Product Development Associate
- ◆ Associate Software Engineer
- ◆ Security Analyst
- ◆ C++ Application Developer



Facilities & Resources

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.

About Smart Classrooms / Lecture Halls

Smart classroom/lecture-hall setup includes:

- ◆ Class rooms, labs & Lecture theatre are equipped with Interactive digital displays
- ◆ Lecture theatre and Labs are Air-Conditioned
- ◆ WiFi connectivity in class rooms, labs and Lecture theatre
- ◆ CCTV Camera in Classrooms, Lab, Lecture Theatres
- ◆ Lecture Theatres with 210 students' capacity & has Auto-tracking cameras , Lecture capture / video-recording capabilities

Entrepreneurship Cell

The E-Cell (Entrepreneurship Cell) at DSU is a dedicated student & faculty-led body that fosters the creativity of early-stage entrepreneurs with pre-incubation support.

7+ startups launched via the E-Cell.

Achievements

Heat & Eat

A student startup made it to the top 10 at the College Youth Ideathon (CYI) IIT-D and won **₹1,00,000.**

Navio

A student startup pitched innovative solutions in 24-hr Ideathon on Circular Economy & Water Conservation on Dec 20-21 2024 and won **₹40,000.**



E-cell Activities

Date	Activity	Description
April 15-21, 2025	Entrepreneurship Boot Camp	Enable students to ideate, develop and execute on a scale and with a long term vision
Oct 4 2024	Be The CEO	A simulation activity for new E-Cell members to experience the decision-making of a CEO
8th and 8th Sec 2023	Two-day workshop on Development Of Entrepreneurial Skills	Students will be trained in this area to transform themselves into skilled entrepreneurs

Campus Life & Student Engagement

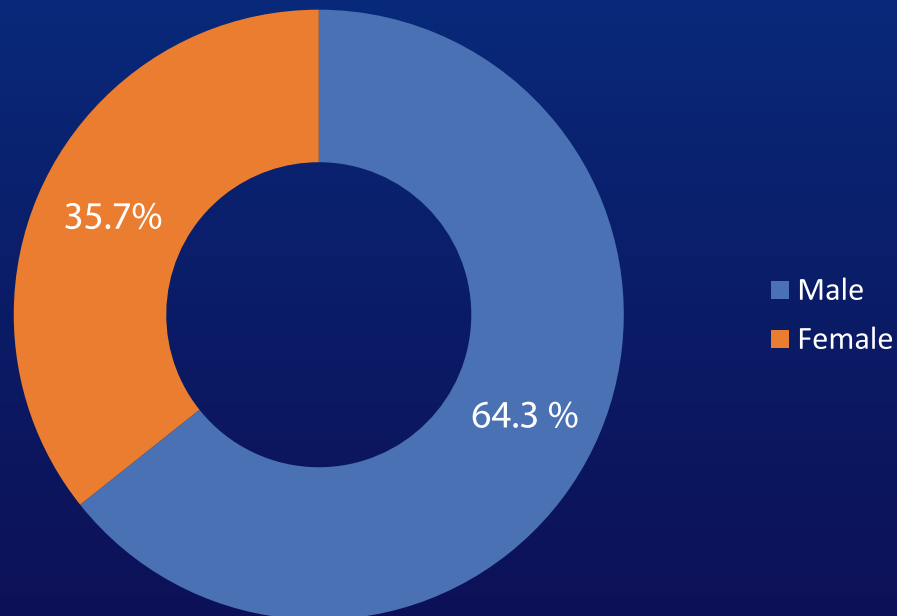
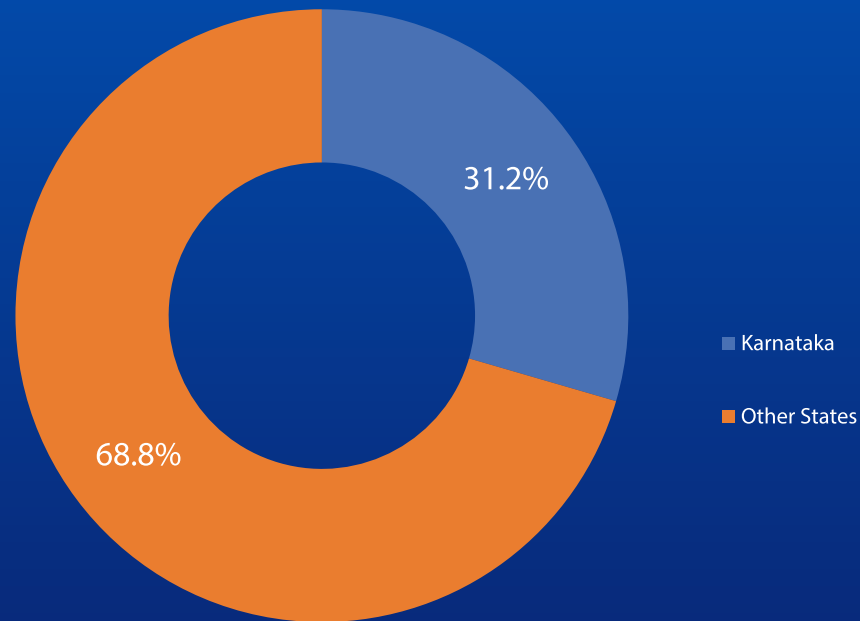
Department Clubs & Societies – Main Activities Involved enhancing employability

Club Name	Faculty Coordinator	Activities
Career Club	Dr. Revathi V	1. Session on “Leadership role” on 16th oct, 2025 2. Seminar on “Demystifying study abroad – Take the first step towards a 7 digit pay cheque” on 21st October, 2023
Ganakanveshana Club	Dr. Savitha Hiremath	1.Session on Navigating Interviews: Alumni Tips & trcks” on 12th sep 2024
Data Analytics and visualization club	Dr. Basavaraj N Hiremath	1. Tech Talk on "Transition from Business Intelligence to Decision Intelligence" on 08/04/2025. 2. Session on “Healthy Beginnings, Hopeful Futures,” on 07/04/2025.
MAAYANIC Animation and Game Development Club	Dr. Praveen Kulkarni	
Viva Research club	Dr. Renukadevi	1. Workshop on “IMAGE CLASSIFICATION TECHNIQUES USING QGIS” on 21st September 2023
FSD Student Club	Dr. Gousia	1. Event “Unlock.Ed”–a quiz held on 20th may 2025 2. Two-Day Workshop on Mastering ReactJS 13th and 14th of March 2024 3. One Day Hands-on Workshop on "APPLICATION DEVELOPMENT USING SPRING BOOT" conducted on 23rd August 2024.

ACM Student Chapter	Dr. Meenakshi Malhotra	1.DSU TECHFLIX “WILD CANVAS: DIGITAL ART COMPETITION” on 25th April 2025 2. DSU ACM Student Chapter celebrated its annual Induction Ceremony on October 2024
IEEE CS Student Chapter	Dr. Basavaraj N Hiremath	1. Tech talk on "Transition from Business Intelligence to Decision Intelligence" held on 08/04/2025 2. workshop on "Cloud Computing Essentials: Hands-on with AWS" held on 3rd and 7th October 2024



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

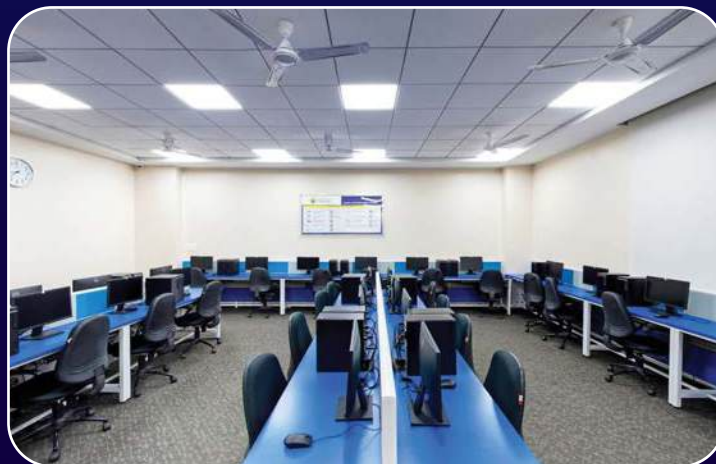
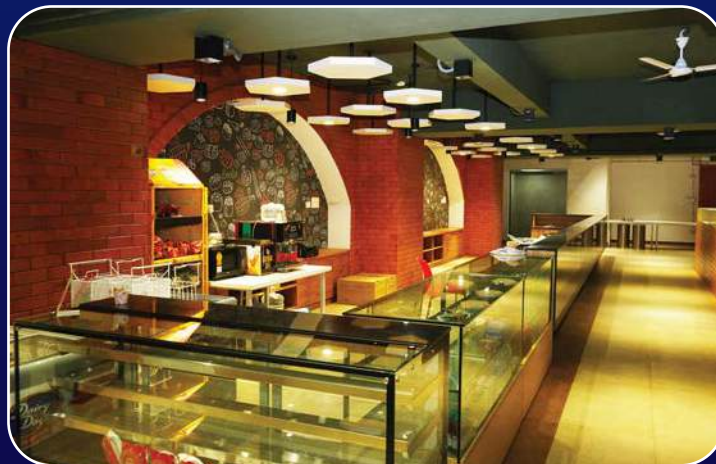
Foreign university collaboration for student exchange and internship opportunities*

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 Eurosynchroisation 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

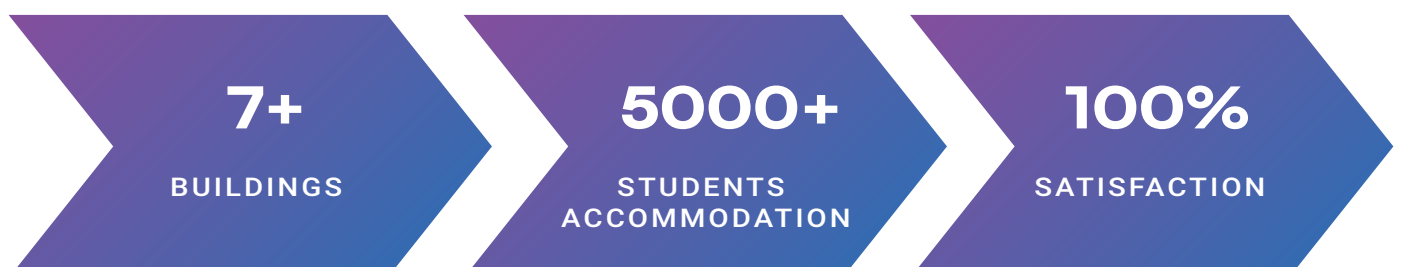
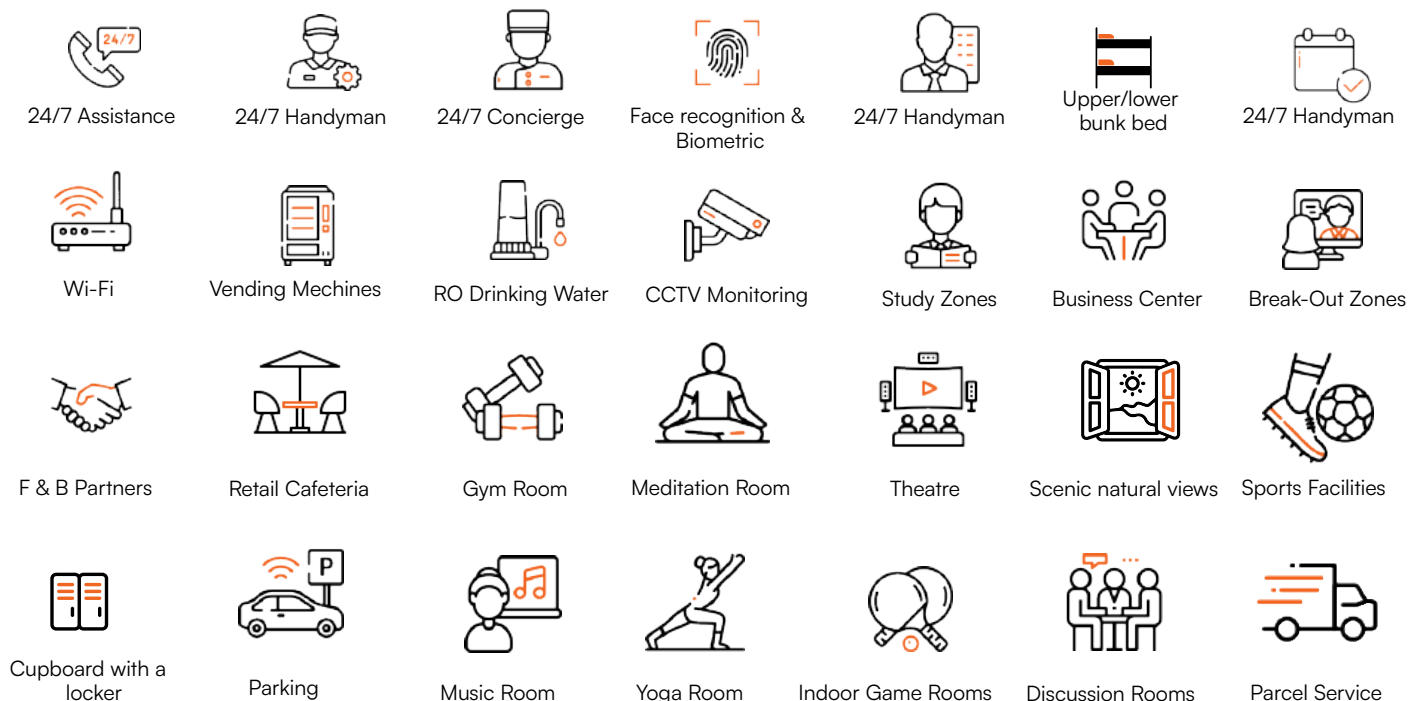
DSU Main Campus Hostel



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



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



[Click For Campus View](#)

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