DAYANANDA SAGAR UNIVERSITY

7 DECADES LEGACY IN EDUCATION & HEALTHCARE

A+ GRADE ACCREDITED BY NAAC

DSU AI Factory

Fueling Innovation Through AI

M.Tech

CSE (ARTIFICIAL INTELLIGENCE)

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 Siets World Education Summit & Chennai 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

About Department

The program M.Tech (AI) is offered by the Department of CSE(AI & ML)

Vision

To produce post-graduates in Computer Science and Engineering (Artificial Intelligence & Mechine Learning) through excellence in education and research with an emphasis on sustainable eco-system that contributes significantly to the society.

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 M. Tech in Artificial Intelligence, 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.

The department has a team of highly qualified faculty members, the majority with PhD degrees in Computer Science, ML, AI and related domains, from reputed institutes and universities in India and abroad and 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.

CRIA : The AIML Dept, SOE has a dedicated AI Makers Space (Centre of Excellence) in the area of AI and ML, which is named as the Centre for Research and Innovation in AI (CRIA). CRIA is intended to provide a platform for advanced research, collaboration and innovation in technology and societal space.

Program Duration: 2 Years (4 Semesters)

Admission 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

- Utilize their knowledge in the domain of Artificial Intelligence to lead a successful career as experts in Industry or other fields.
- Apply AI concepts for analysis, predictions, optimization, decision making and develop skills in order to formulate and solve complex computing and multidisciplinary problems.
- Engage in research, innovation, and development activities to create AI-driven solutions that address societal, industrial, and scientific challenges.

Program Highlights

- 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

Unique Features of the curriculum

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

Industry-aligned AI core from semester I onward — Mathematical Foundation for AI, Responsible AI and Ethics, Advanced Machine Learning, Advanced Data Structure, Python for AI and DS, Research Methodology & IPR, AI for Vision and Imaging, Deep Learning & Neural Network.

Production & deployment focus (MLOps + Enterprise Design) — standalone course Designing MLOps for Enterprises prepares students for model lifecycle, CI/CD, monitoring and productionization.

Generative AI & Prompt Engineering as a core subject (2nd sem) — modern, in-demand skill built into the program.

Strong practical project pathway — Capstone Project-I (3rd), Capstone Project-II (4th) & credit-based semester long Industry/Research Internship - ensures substantial hands-on and industry exposure.

Domain-wise professional electives — vast choices across various domains such as Language Perception, Agentic AI, AI applications, Speech/Audio and Vision enables domain specialization.

Skill enhancement across semesters — Seminar I and II enhance the presentation skills to build communication, technical information, and develop research mindset.

Core Courses

SEM-I	SEM-II
Mathematical Foundation For Ai Responsible Ai And Ethics Advanced Machine Learning Advanced Data Structure Python For Ai And Ds Research Methodology & Ipr Seminar-i	Ai For Vision And Imaging Deep Learning & Neural Network Generative-ai Mlops Professional Elective-i Professional Elective-ii Seminar-ii
SEM-III	**SEM-IV**
Professional Elective-iii Professional Elective-iv Capstone Project-i	Capstone Project-ii Industry/research Internship

Electives

Domain Clusters	Language Perception	Agentic AI	AI applications	Speech / Audio and Vision
	Course Name	Course Name	Course Name	Course Name
	NLM	Intelligent Agents & Multi-Agent Systems	AI in Robotics & Autonomous Systems	Computational Imaging
	Large Language Models	Agentic AI Architectures (LLM Agents, Tool Use, Memory & Planning)	AI in Finance & FinTech Applications	Contemporary Computer Graphics
	Spoken Language Understanding	Automated Planning & Sequential Decision Making	AI for Agriculture	Speech Recognition Systems
	Text and Speech Generation using Advanced Models	Cognitive Architectures for AI Agents (SOAR, ACT-R, Hybrid)	Cognitive Science and Human–AI Interaction	Video Analysis and Surveillance
	Social Media Analytics	Human–AI Collaboration & Trustworthy Agents	Blockchain for Cybersecurity and Data Privacy	Multimodal Speech Interfaces
	Optimisation in NLP	AI Ethics and Policy	AI for Healthcare	
	Cognitive Linguistics	Explainable AI	Green AI and Sustainable Edge Computing	
	Computational Models	Reinforcement Learning	Quantum Machine Learning	
	Multimodal and Multilingual Language Perception			
	Conversational AI			

Program Industry Insights

The global Artificial Intelligence (AI) market is projected to experience exponential growth by 2030, driven by widespread adoption across industries. According to major reports, the overall AI market is expected to reach between USD 467 billion and USD 1.2 trillion by 2030, depending on scope and definitions.

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.

Emerging Job Opportunities

A Post Graduate Degree in Computer Science & Engineering (AI) can open up career opportunities in a variety of industries such as Healthcare, Finance, Aviation, Manufacturing, and Logistics and would offer wider career opportunities, such as:

- Machine Learning Engineer / Researcher — model design, training, validation. (Core program prepares via ML, DL courses).
- MLOps / ML Platform Engineer — deploy, monitor and scale ML in production (course: Designing MLOps for Enterprises).
- Generative AI / Prompt Engineer — develop high-quality prompts, tune LLMs, build GenAI apps (GenAI & Prompt Engineering course included).
- NLP / LLM Specialist — build language models, retrieval augmented generation, chatbots (Natural Language Models course).
- Computer Vision Engineer — image/video model development and deployment (Image Processing & Computer Vision).
- AI Product Manager / Solutions Architect — bridge business and AI development (supported via Innovation & Entrepreneurship + Full Stack Development).
- AI Ethics & Responsible AI Officer — governance, explainability and policy roles (AI Ethics & Explainable AI electives available).
- Domain-specific applied roles — AI in Healthcare, FinTech analytics, IoT & edge AI — thanks to the open and professional electives (e.g., ML for Healthcare, FinTech, IoT).

Project / Thesis Components

Hands-on projects at every stage

- Seminar-I (Sem-I) and Seminar-II (Sem-II) – Research based assessment and presentation to identify real world problems.
- Capstone Project-I (Sem-III) — problem statement, literature review, data procurement, baseline model and project plan (6 credits). Seek industry co-supervisor where possible.
- Capstone Project-II (Sem-IV) — full productionization, performance optimization, deployment demo, documentation and evaluation (14 credits). Emphasize MLOps pipelines, model monitoring, and ethical assessment.
- Internship (Sem-IV) — credited industry internship (4 credits) to expose students to corporate workflows, real datasets, and deployment environments.

Project theme recommendations tied to electives / industry demand

GenAI Applications: Retrieval-augmented LLM agents, domain-specific assistants (healthcare, education, legal).

MLOps/Productionization: CI/CD for ML, monitoring, drift detection, model explainability dashboards.

Responsible AI & Ethics: building explainable models and governance frameworks (Explainable AI, AI Ethics electives).

Department Highlights

MoU Collaborations of the Department of CSE (AI & ML)

Industry Partner / Organization	Department	Focus Areas / Objectives
IBM	CSE (AI & ML)	Curriculum integration, c ertifications, workshops, global recognition.
WADHWANI FOUNDATION	CSE (AI & ML)	Promoting innovation & entrepreneurship for students and faculty.
YOTTA	CSE (AI & ML)	Joint research, cloud & AI lab access, workshops, training, innovation.
PROVIDENT	CSE (AI & ML)	Internships, AI/ML PoCs, live projects, sustainability, guest lectures.

Internship

The M.Tech program offers robust support for professional development through internship placements and career guidance.

Key Features

- Mandatory 6-month internship integrated into the curriculum
- Strong industry connections for global placements in AI related companies
- High potential for Pre-Placement Offers (PPOs) based on internship performance
- Placement support through resume building, technical training, mock interviews, and expert mentoring.
- Hands-on training through labs, capstone projects, and internships

Graduates emerge with strong portfolios, real-world project experience, and enhanced employability.

Placements

- 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

Department Clubs

IEEE Robotics and Automation Society (RAS)

IEEE Robotics and Automation Society (RAS) chapters serve as dynamic hubs for innovation and professional growth, connecting members to a global network of researchers and technologists. They offer hands-on exposure through workshops, hackathons, and industry visits, along with access to IEEE digital resources and journals. Students benefit from competitions like IROS and ICRA, gaining practical and research skills. Professionals enjoy leadership, collaboration, and continuous learning opportunities. Overall, RAS chapters bridge academia and industry, fostering innovation, ethics, and sustainable advancements in robotics and automation.

IEEE Computational Intelligence Society (CIS)

IEEE Computational Intelligence Society (CIS) chapters provide a global platform for students and professionals to explore AI, machine learning, neural networks, and related fields. They foster collaboration through workshops, webinars, hackathons, and conferences like IEEE WCCI and CEC, offering hands-on exposure to real-world applications. Members gain access to IEEE Xplore, enabling them to stay updated with cutting-edge research and global innovations. CIS chapters promote mentorship, leadership, and interdisciplinary collaboration, bridging academia and industry. Overall, they cultivate innovation, ethics, and sustainable technological growth in computational intelligence worldwide.

DSU X TEMPETE CLUB

The DSU X Tempete Club is a vibrant departmental club under the Computer Science & Engineering (Artificial Intelligence & Machine Learning) stream at Dayananda Sagar University (DSU), Bengaluru. It's designed as a platform for students to explore AI/ML concepts through hands-on events and competitions.

Yantrove Club

The Yantrove Club is under the Computer Science & Engineering (Artificial Intelligence & Machine Learning) stream at Dayananda Sagar University (DSU), Bengaluru, is a dynamic platform that bridges the world of hardware and software. It is designed to inspire students to innovate at the intersection of electronics, embedded systems, IoT, robotics, and intelligent software solutions. Through hands-on projects, workshops, and collaborative events, the club nurtures technical creativity, problem-solving skills, and multidisciplinary learning. Yantrove empowers students to design, build, and deploy solutions that integrate hardware and software seamlessly, preparing them for real-world engineering challenges.

AI WORKS @ DSU

AIWORKS@DSU is an innovative departmental club under the Computer Science & Engineering (Artificial Intelligence & Machine Learning) stream at Dayananda Sagar University (DSU), Bengaluru. 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.AIWORKS@DSU empowers students to apply AI/ML concepts in real-world scenarios and nurture a culture of research, creativity, and problem-solving

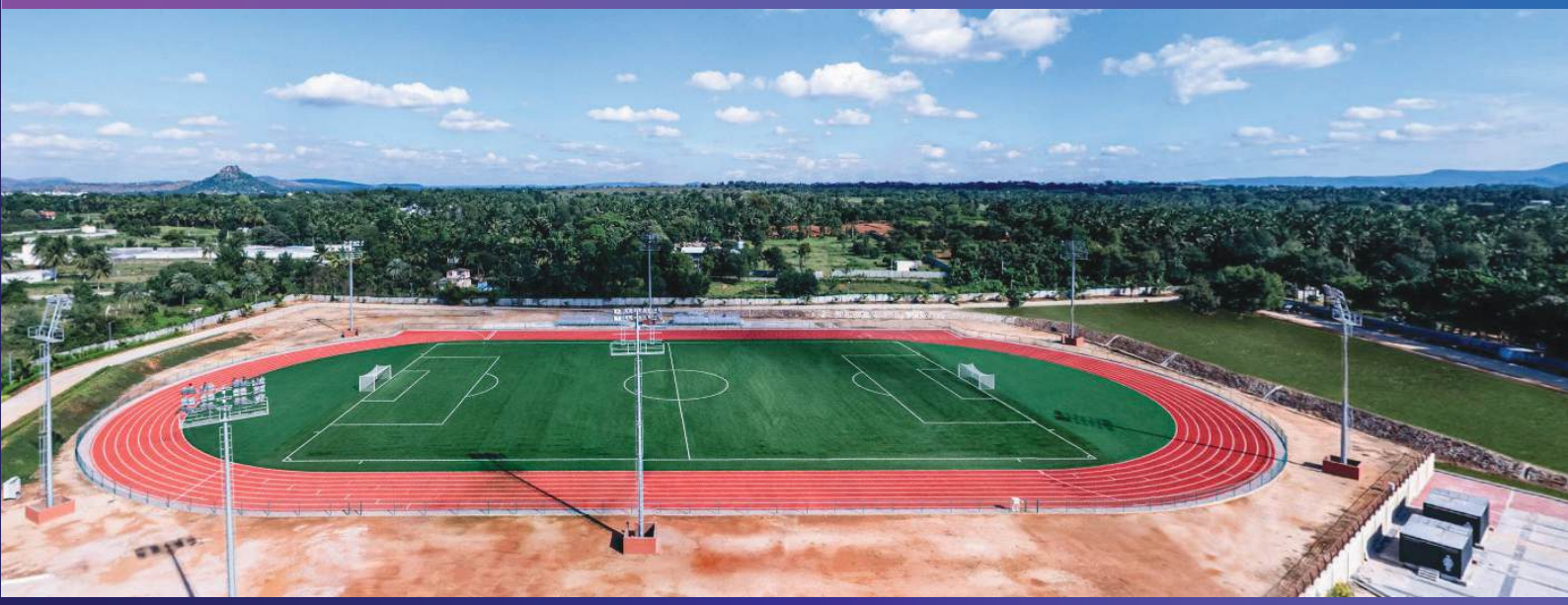
Foreign university collaboration for student exchange and internship opportunities*

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

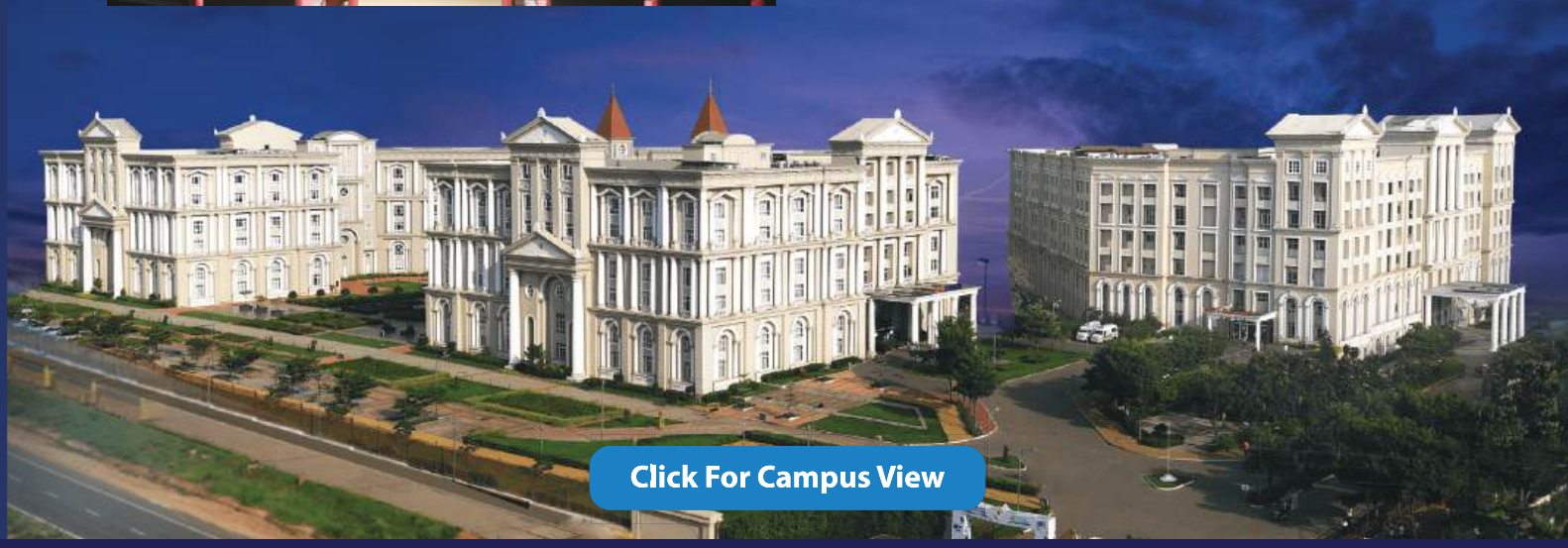
Physics Lab

Tutorial Room

Glimpse of DSU Main Campus at Harohalli





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