Dayananda Sagar Institute Of Technology

Dayananda Sagar is backed by a **Six Decade Legacy** in Education & Healthcare

DIPLOMA IN ENGINEERING

Begin your engineering journey here.

APPROVED BY AICTE, NEW DELHI

AFFILIATED TO THE DEPARTMENT OF COLLEGIATE & TECHNICAL EDUCATION, GOVT, OF KARNATAKA

MEMBER

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Begin your engineering journey here.

Dayananda Sagar Institute of Technology

(DSIT) is a Polytechnic Institution established in 1980 under Mahatma Gandhi Vidya Peetha (MGVP) vide Government Order No ED 88 TPE 80, Bangalore, dated 25th July 1980.

DSIT (Polytechnic) is affiliated with the Board of Technical Examinations, Directorate of Technical Education, Department of Technical Education, Govt. of Karnataka, and is approved by the All India Council For Technical Education (AICTE), New Delhi.

JOIN OUR 43RD BATCH IN 2023 - 2024 FOR A DIPLOMA IN ENGINEERING!

From students to skilled technical professionals

We are a leading educational institution that focuses on a student's overall development through innovative ways of learning. We, as an institution, are more focused on the industry and industry-institute interactive programs to develop a student skills, knowledge and learning ability. We understand the various functional activities across a broad spectrum and cross-section of the engineering industry. Our extensive education programs help our Diploma students to excel in today's competitive business world.

We ensure students get an opportunity to execute industry-oriented organisational projects. We take the burden off students by incorporating several ways to reduce it, making room for more creativity in learning and fostering the potential of individuals, their interests, needs and aptitudes.

Courses we offer at DSIT

DSIT offers a range of Engineering streams for you to choose from and offers the following courses.

- Diploma in Civil Engineering
- Diploma in Mechanical Engineering
- Diploma in Computer Science Engineering
- Diploma in Information Science Engineering
- Diploma in Electronics & Communication Engineering
- Diploma in Electrical & Electronics Engineering

Student Projects - Our Achievements

Our students are encouraged to participate in projects that can enhance their learning experience.
We have achieved significant progress through the years and our students have been taking leadership roles in various successful projects.

- Home Automation System using ARDUINO/DTMF & RF Dual Controller Based Robot
- Effect of Gradation Viscosity and Compaction on Bituminous Mixes
- Geopolymer Cement Preparation from Solid Waste Materials and Iron Ore Tailings Available In KIOCL
- The Study of Pollution Mechanism in Urban Aquifers of BBMP Area by Integrated Geophysical Remote Sensing and GIS Techniques
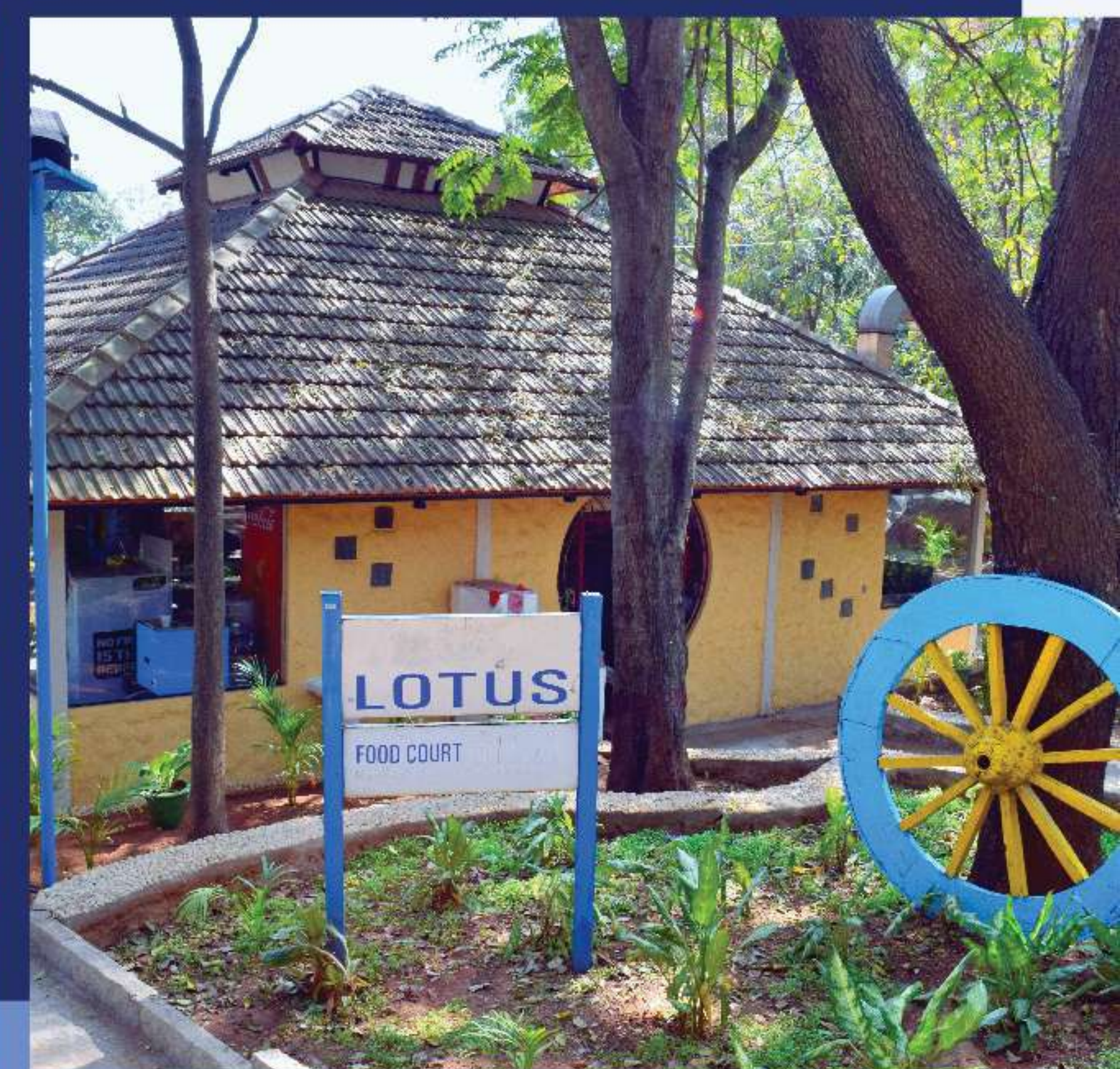
Infrastructure

We offer you a space to grow, enhance your potential skills and rediscover your passion.

DSIT has a well planned infrastructure with several facilities and amenities for students, including hostel facilities for outstation students. We have a Computer Centre Language Laboratory for students to enhance their communication skills in English and Kannada. We also have labs focusing on Mechanical, Electrical & Electronics, Civil and Computer Science Engineering, among others.

Workshops are held with the latest equipment to meet the demands of the revised curriculum and address the requirements of today's industrial ecosystem.

Our campus is well equipped with:
- Spacious classrooms
- Drawing halls
- Digital classrooms
- Fully equipped laboratories
- Photocopy facility
- Amphitheater
- Well-equipped auditoriums
- Seminar halls with 'Audio-Visual

Placements @ DSI

Our students are offered excellent placement opportunities and have a distinct edge considering their behaviour, personality and excellent academic record from class X to the last exam, cleared without any pending papers.

Placement Details 2023-24

Highest Package:	40 LPA	Average Salary:	7.5 LPA	Number of Offers:	3000+ offers

Our students are placed in leading organisations such as:

L&T Technology Services	AIDEAS Bangalore
Cummins India Ltd	Atlas Copco (India) Ltd
Toyota Kirloskar Motor Pvt Ltd.	Shirvanthe Technologies
Bajaj Auto Ltd	Edall Systems, Bangalore

Godrej & Boyce   Ace Designers Ltd.   Tayana Solutions   Nyubi Infotech   DXC Technology   Infosys   Zen Technologies
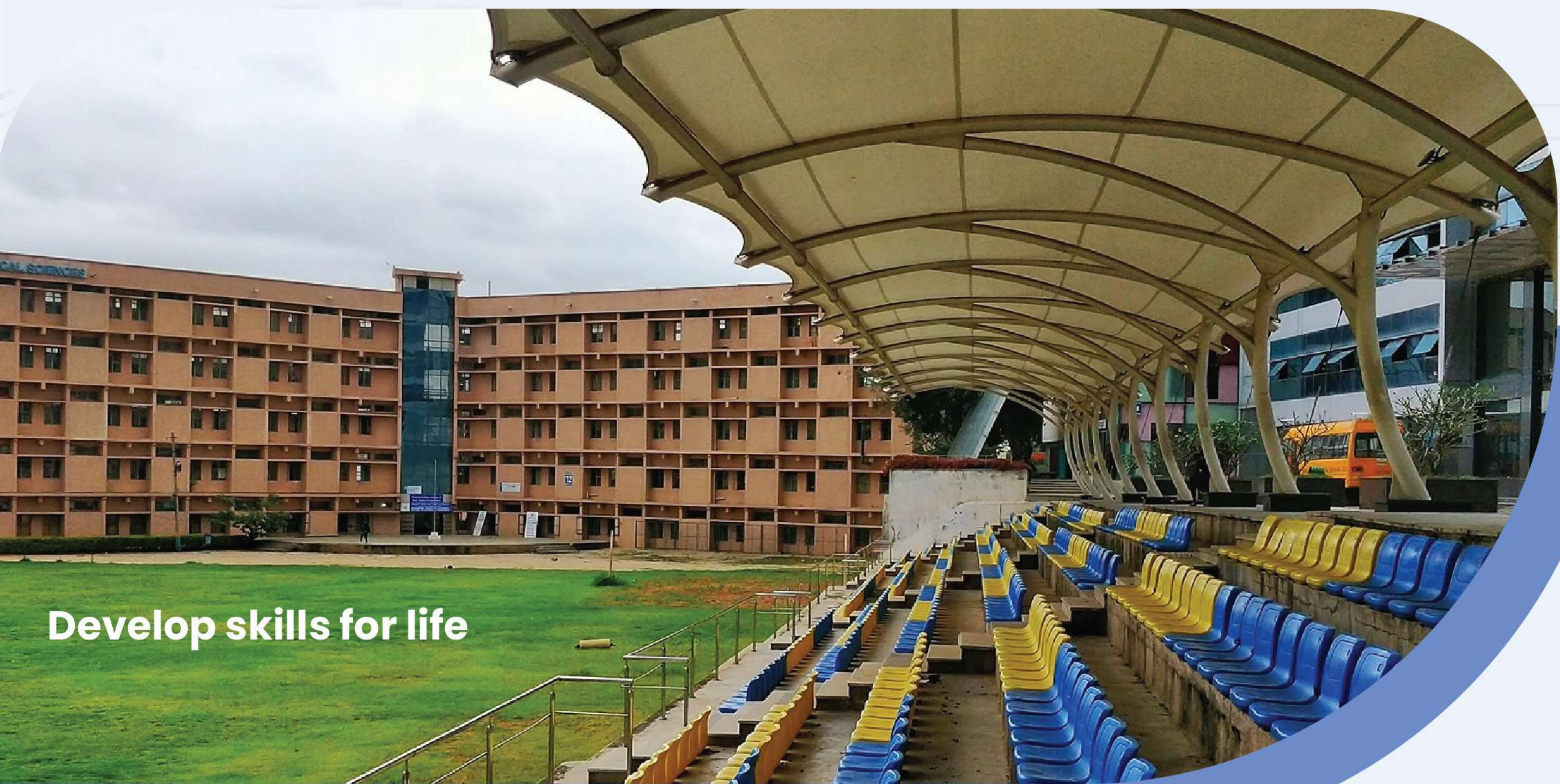
Eligibility Criteria

- A pass in Class X or its equivalent examination with 35% aggregate.
- Students under the Karnataka category must have studied for a minimum of 5 years in Karnataka.

Student Personality Development Curriculums

- **Centre for Innovation & Leadership**
  Overall Personality Development
- **Innovation & Entrepreneurship Development Centre**
  (IEDC/DERBI) Training students towards successful Entrepreneurs
- **Innovation Club**
  Develop Innovative skills and spirit
- **NSS Committee**
  Encouraging social responsibility and awareness (Unnat Bharat Abhiyan, National Festivals, Blood Donation Camp, Digital India Awareness, etc)
- **Campus Placement Platform**
  Supporting deserving students for placements

- **Centre for English & Foreign Languages**
  Encourage students to master English and learn a foreign language
- **Sports Facilities**
  Inter College Tournaments and State-Level Sports Meet
- **Centre for Performing Arts**
  Boost cultural traits and activities
- **Yoga**
  Helping students focus and concentrate better

Develop skills for life

Our Three-Year Program - Course Details

1st Year - The Foundation Year
The main focus of students in their first year are
- Communication
- Knowledge and skills for a workplace
- Basic Domain Knowledge

2nd Year - Gaining domain knowledge
The main focus of the second-year students are
- Domain related subjects
- Basic to intermediate skills

3rd Year - Better workplace understanding
The main focus of third-year students are
- Specialisation subjects
- Job skills
- Capstone Project

Course Syllabus

DIPLOMA IN COMPUTER SCIENCE ENGINEERING

1st Semester
- Engineering Mathematics
- Fundamentals of Computer
- Fundamentals of Electrical & Electronics Engineering
- IT Skills
- Environment Sustainability
- Sports/NCC/NSS/Youth Red Cross/Yoga/ Technical club

2nd Semester
- Project Management Skills
- Statistics and Analytics
- Communication Skills
- Computer Aided Engineering Graphics
- Multimedia & Animation
- Kannada / Sahitya Sincha-I / Use of Kannada-I

3rd Semester
- Python Programming
- Computer Hardware, Maintenance and Administration
- Computer Networks
- Database System Concepts and PL/SQL
- Sahitya Sincha-II Use of Kannada-II

4th Semester
- Data structures with Python
- Operating System and Administration
- Object Oriented Programming and Design with Java
- Software Engineering principles and practices
- Indian Constitution

5th Semester
- Artificial Intelligence & Machine Learning
- Full stack development
- Cloud computing
- Cyber Security
- Paper 1 - Applied mathematics
- Paper 2 - Applied Science
- Paper 3 - Research Methodology
- Paper 4 - Technical Writing
- Entrepreneurship and start-up

6th Semester
- Internship / Projects
- Research project
- Minimum viable projects / Incubation / Start-up Proposal

DIPLOMA IN CIVIL ENGINEERING

1st Semester
- Construction Materials
- Communication Skills
- Statistics and Analytics
- IT Skills
- Environment Sustainability
- Sports/ NCC/ NSS / Youth / Red Cross/Yoga/ Technical club

2nd Semester
- Engineering Mathematics
- Projects Management Skills
- Civil Engineering Graphics
- Basic Surveying
- Fundemental of Electrical & Electronics
- Kannada / Sahitya Sincha-I / Use of Kannada-I

3rd Semester
- Engineering Mechanics and strength of materials
- Modern Surveying
- Construction Techniques
- Building Drawings usage CADD
- Sahitya Sincha-II Use of Kannada-II

4th Semester
- Concrete Technology
- Building Estimating & valuation
- Site management
- Design & Detailing of RCC structures
- Indian Constitution

5th Semester
- Structural Engineering
- Town Planning and Green Building
- Transportation Engineering
- Built Environment
- Paper 1 - Applied Mathematics
- Paper 2 – Applied Science
- Paper 3 – Research Methodology
- Paper 4 – Technical Writing
- Entrepreneurship and Start up

6th Semester
- Internship / Project
- Research project
- Minimum viable projects / Incubation / Start-up Proposal

Course Syllabus

DIPLOMA IN ELECTRONICS & COMMUNICATIONS ENGINEERING

1st Semester
- Digital Electronics
- Statitistics and Analysis
- Computer Aided Engineering Graphics
- Fundamental of Electrical & Electronic Engineering
- Environmental Sustainability
- Sports / NCC/ NSS / Youth / Red Cross / Yoga / Technical club

2nd Semester
- Project Management Skills
- Engineering Mathematics
- Commmunication Skills
- IT Skills
- Electronic Components & Devices
- Kannada / Sahitya Sincha-I / Use of Kannada-I

3rd Semester
- Analog Electronics
- Logic Design using Verilog
- Communication Systems
- Electronic Measurements and Testing Techniques
- Sahitya Sincha-II Use of Kannada-II

4th Semester
- PCB Design & Fabrication
- Wireless Communication
- Embedded C Programming
- Industrial Automation
- Indian Constitution

5th Semester
- Drone Technologies
- Industrial Internet of Things (IIoT)
- Automation & Robotics
- E - Mobility
- **Paper 1** - Applied Mathematics
- **Paper 2** – Applied Science
- **Paper 3** – Research Methodology
- **Paper 4** – Technical Writing
- Entrepreneurship and Start up

6th Semester
- Internship / Project
- Research project
- Minimum viable projects / Incubation / Start-up Proposal

DIPLOMA IN INFORMATION SCIENCE ENGINEERING

1st Semester
- Engineering Mathematics
- Fundamentals of Computer
- Fundamentals of Electrical & Electronics Engineering
- IT Skills
- Environment Sustainability
- Sports / NCC / NSS / Youth / Red Cross / Yoga / Technical club

2nd Semester
- Project Management Skills
- Statistics and Analytics
- Communication Skills
- Computer Aided Engineering Graphics
- Multimedia & Animation
- Kannada / Sahitya Sincha-I / Use of Kannada-I

3rd Semester
- Python Programming
- Computer Hardware, Maintenance and Administration
- Computer Networks
- Database System Concepts and PL/SQL
- Sahitya Sincha-II Use of Kannada-II

4th Semester
- Data structures with Python
- Operating System and Administration
- Object Oriented Programming and Design with Java
- Software Engineering principles and practices
- Indian Constitution

5th Semester
- Artificial intelligence & Machine learning
- Full stack development
- Cloud computing
- Cyber Security
- **Paper 1** - Applied Mathematics
- **Paper 2** – Applied Science
- **Paper 3** – Research Methodology
- **Paper 4** – Technical Writing
- Entrepreneurship and Start up

6th Semester
- Internship / Projects
- Research project
- Minimum viable projects / Incubation / Start-up Proposal

Course Syllabus

DIPLOMA IN MECHANICAL ENGINEERING

1st Semester
- Engineering Mathematics
- Materials for Engineering
- Communication Skills
- Computer Aided Engineering Drawing
- Engineering Sustainability
- Sports / NCC/ NSS / Youth/ Red Cross / Yoga/ Technical club

2nd Semester
- Project Management Skills
- Statistics and Analytics
- Fundamentals of Electrical and Electronics Engineering
- IT Skills
- Mechanical workshop Practice
- Kannada / Sahitya Sincha-I / Use of Kannada-I

3rd Semester
- Mechanics of Materials
- Machine Tool Technology
- Manufacturing Processes
- Fluid Power Engineering
- Sahitya Sincha-II Use of Kannada-II

4th Semester
- Operations Management
- CNC Programming and Machining
- Product Design and Development
- Elements of Industrial Automation
- Indian Constitution

5th Semester
- Automation and Robotics
- Heating, Ventilation and Air Conditioning (HVAC)
- Advanced Manufacturing Technologies
- E-Mobility
- **Paper 1** - Applied Mathematics
- **Paper 2** – Applied Science
- **Paper 3** – Research Methodology
- **Paper 4** – Technical Writing
- Entrepreneurship and Start up

6th Semester
- Internship / Project
- Research project
- Minimum viable projects / Incubation / Start-up Proposal

DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING

1st Semester
- Engineering Mathematics
- Basics of Electrical Power System
- Computer Aided Engineering Graphics
- Fundamentals of Electrical & Electronics Engineering
- Environmental Sustainability
- Sports / NCC/ NSS / Youth/ Red Cross /Yoga / Technical club

2nd Semester
- Project Management Skills
- Statistics and Analytics
- Communication Skills
- IT Skills
- Kannada / Sahitya Sincha-I / Use of Kannada-I

3rd Semester
- Transformers and Alternators
- Transmission and Distribution
- Switchgear and Protection
- Analog and Digital Electronics
- Sahitya Sincha-II Use of Kannada-II

4th Semester
- Electric Motors
- Power Electronics
- Fundamentals of Automation Technology
- Computer Aided Electrical Drafting (CAED)
- Indian Constitution

5th Semester
- Industrial Automation
- Power Engineering
- Renewable Energy
- Electrical Utility Engineering
- **Paper 1** - Applied Mathematics
- **Paper 2** – Applied Science
- **Paper 3** – Research Methodology
- **Paper 4** – Technical Writing
- Entrepreneurship and Start up

6th Semester
- Internship / Project
- Research project
- Minimum viable projects / Incubation / Start-up Proposal

GET IN TOUCH WITH US

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