SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT

Empowering Young Minds
for a Better Tomorrow

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**Dream Big
and Realize Your Dreams
@ Sahyadri**

SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT
MANGALURU

Sahyadri will do
more than teach
It will Inspire...

Sahyadri
College of Engineering & Management

Sahyadri College of Engineering & Management, Mangalore, with the aim of empowering the young minds for a better tomorrow, has been achieving higher standards in the field of education. The Institution is affiliated to VTU, Belgaum, approved by AICTE, New Delhi and certified by ISO 9001-2008 & IAO. The sprawling Sahyadri campus just off the Mangalore-Bangalore National Highway 48 is situated on the banks of the river Nethravathi. Surrounded with natures pristine beauty and an excellent infrastructure coupled with dedicated and experienced faculty has made the Campus a much sought-after abode of learning.

The Sahyadri College of Engineering & Management, Mangaluru is constantly strives to adopt and improve the teaching methods which vary from the mundane. Motto of the College is Project & Research based learning, grooming Entrepreneurial culture fostering holistic development of students contributing to society getting them exposed through weekly invited talks from renowned Scientists, CEO's, COO's, industrialists, Internships, value added courses. All these endeavors requires apt leadership to carry forward activities.

Sahyadri is
not just a leader
It is a driving force...

ISO Certification

IAO
Accredited by :
INTERNATIONAL ACCREDITATION ORGANIZATION
HOUSTON U.S.A.

TÜV NORD

Accreditation from the IAO (International Accreditation Organisation)
The institution is awarded with ISO 9001-2008 certificate,
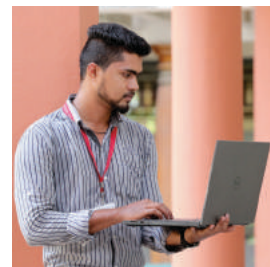from TUV Nord, Germany

Sahyadi
Campus

Infrastructure

The Campus is aesthetically constructed in the court yard system. Spacious classrooms with good ventilation, and audio-video facility is provided. The multi-storey college library with the courtyard in the middle provides natural light and ventilation, creates a conducive study atmosphere for the students. The library is equipped with books, journals, e-journals. The Campus boasts of four seminar halls and two auditorium with all modern acoustic facilities, a beautifully designed food court and a well developed sports ground with athletic track; and with nature's fascinating beauty.

WE INSPIRE **TRANSFORM** AND **DEVELOP**

Courses offered

Bachelor of Engineering-B.E
- Civil Engineering
- Computer Science & Engineering
- Electronics & Communication Engineering
- Information Science & Engineering
- Mechanical Engineering

Post Graduate Courses - P.G.
- Master of Business Administration - MBA
- Master of Computer Application - MCA
- M.Tech in Machine Design - Mechanical Engineering
- M.Tech in Computer Science & Engineering
- M.Tech in Electronics & Communication Engineering - VLSI & Embedded System
- M.Tech in Computer Aided Design of Structures & Structural Engineering (Civil Engineering)

Research - Ph.D by VTU, Belgaum
- Computer Science & Engineering
- Electronics & Communication Engineering
- Mechanical Engineering
- Business Administration

M.Tech (Part-Time, QIP)
- M.Tech - Computer Integrated Manufacturing
- M.Tech - Transportation Engineering
- M.Tech - Computer Science & Engineering
- M.Tech - Digital Electronics

Civil Engineering

The department has excellent infrastructure to cater to both UG and PG programs. The Department of Civil Engineering offers a full time B.E degree course in civil engineering and offers two PG programme, M. Tech (CADS) and M. Tech (Structural Engineering). The department has dedicated team of experienced qualified faculty members. Apart from conducting academic programs, additional computer courses, seminars, Industry Institute Interaction programmes and workshops are conducted for the students as well as the faculty.

Consultancy Cell

The department has set up state of the art laboratories in the field of basic material testing, geo technical engineering, concrete & highway material testing, environmental engineering. The department offers consultancy to Government, semi-government & other private organizations in the broad areas of structures, soils, surveying, concrete, water, etc.

Thrust Areas of Civil Engineering

Structural Engineering
• Structural Analysis & Design
• Basic & Advanced Structures
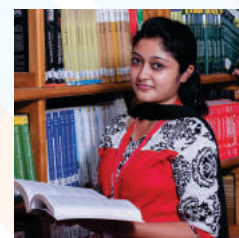
Construction Technology
• Materials Testing
• Concrete Technology
• Town planning & smart village concept
• Precast & prefabricated structures

Environmental, Hydraulics & Irrigation
• Water supply & Sanitary
• Solid waste management
• Pollution control
• Remote Sensing and GIS
• Planning of Hydro and Thermal Power Project

Earth Science & Transportation
• Soil Investigation & Foundation Design
• Pavement materials and Design
• Alignments & Area survey
• Highway infrastructures design

Sahyadri will do
more than give
It will serve...

Computer Science Engineering

The Department of Computer Science & Engineering is growing professionally as far as technical expertise; faculty strength, modern teaching aids, browsing facilities are concerned. The department interacts with the industries on a regular basis to develop the capabilities in the latest technologies. The department has setup the state of the art laboratories with computing facilities and peripheral devices. With highly talented faculty, the department boasts of a unique mode of learning, one that uses advanced aids for teaching.

Our faculty and students are actively involved in intense interactions that help our students gain practical exposure, much before they are part of the IT industry. Simulated projects and many times live projects give our students the thrill of livewire action of the software industry.

Thrust Areas of Computer Science & Engineering

Machine Learning
• Artificial Intelligence
• Neural Networks
• Soft computing
• Bio informatics
• Natural language Processing

Distributed Computing
• Computer Networks & Security
• Cloud Computing
• Internet of Things (IoT)
• Real Time Operating Systems (RTOS)
• Fog Computing

Data Mining
• Big Data
• Data Analytics
• Classification Techniques
• Database Management Systems (DBMS)

Computer Vision
• Web Design
• Pattern Recognition
• Image Processing
• Human Computer Interaction

Electronics & Communication Engineering

The department of Electronics and Communication has constantly upgraded itself by adding well-equipped and fully furnished laboratories to supplement the theory courses and to provide a conductive work environment for the students. Laboratories like the Analog Electronics, the Microprocessor labs, microcontrollers and HDL Labs have been upgraded with state-of-the-art equipments and many new ones have been added, including VLSI Design, Advanced analog communication engineering, Digital Integrated Circuits, and Digital Signal Processing.

Apart from teaching, the faculty members have been vigorously pursuing research and have been regularly participating in various National levels as well as in prestigious conferences to upgrade their knowledge in the specified field.

Thrust Areas
of Electronics & Communication Engineering

Embedded Systems + Sensors Systems
- Electromagnetic Sensors
- Microcontrollers
- Microprocessors
- Real-time embedded systems
- Electromechanical Sensors
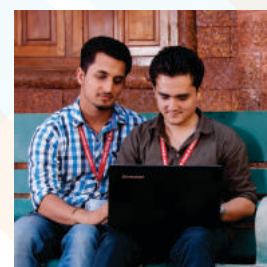- RTOS

Communication & Control Systems
- Networks
- Information theory
- Microwave & Antenna
- Digital Communication
- Control Theory
- Optics & Photonics

VLSI & Nano science
- Micro/Nano Fabrication
- NEMS/MEMS
- Simulation & Modelling
- Materials Engineering
- ASIC and FPGA
- Microelectronics Circuits

Signal Processing
- Image Processing
- Signal Theory
- Filter Design
- Machine Learning

Sahyadri is
not just a centre
of studies
It is a temple
of learning...

Information Science Engineering

The Information Science & Engineering department has technically & industrially qualified trainers, and trains the students for the certifications like MTA, MCP, MCSE, RHCE, HP-ATA etc. The faculties are industry equipped, Microsoft Technology Certified, well experienced and highly qualified professionals. Apart from the teaching, the faculty members are also pursuing research and higher studies at reputed institutes. The supporting staff's are also technically competent & Microsoft Technology Certified professionals. The department has arranged various training programs, pre-placement orientation, on-campus recruitment programs, seminars, career guidance assistance to the students. The college is having a separate department for Placement with qualified and experienced staff. Industry interactions and workshops are conducted on a regular basis.

Thrust Areas
of Information Systems Engineering

Data Mining
- Big Data
- Data Analytics
- Machine Learning& Computation Science
- Computer Vision
- Text Mining

Distributed Computing
- Cloud Computing
- Internet of Things (IoT)
- Modelling and Simulation
- Mobile Applications

Network and Information Security
- Cryptography
- Trust, Privacy & Policy
- Cyber Physical Systems
- Network Security

Intelligent Systems
- Search Engine optimization
- Geographic Information Systems
- Data Profiling and Cleaning
- Semantic Web

Mechanical Engineering

The department of Mechanical engineering emphasizes on design, manufacturing and maintenance of mechanical systems and also interdisciplinary areas like MECHATRONICS, FEM, CAD/CAM, AUTOMATION, and OPERATIONAL RESEARCH.

The department is provided with spacious and well furnished classrooms, Workshop and Machine shop, Computer Aided Engineering Drawing Lab ,Computer Aided Design & Analysis Lab, CIM Lab, Fluid mechanics Lab etc. The CADLab is provided with latest Software like Nastron, Solid Edge, EdgeCAM, CADEM etc for imparting training to our students in latest Mechanical Engineering Design and analysis.

Thrust area of Mechanical Engineering

Design
- CAE/CAD
- Machine Design
- FEM Analysis
- Robotics & Automation
- Noise & Vibration
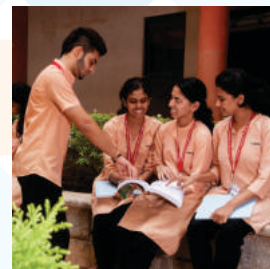
Thermal & Fluid Engineering (TFE)
- Hear & Mass Transfer
- CFD & Fluid Mechanics
- Turbo Machines
- Micro fluidics
- IC Engine & Bio Fuels

Materials & Manufacturing
- Product Design
- Rapid Prototyping
- Composite Materials
- Nanotech and smart materials
- Manufacturing Technology

Automotive & Energy System
- Hybrid Fuel Cells
- Vehicle Dynamics
- Energy System
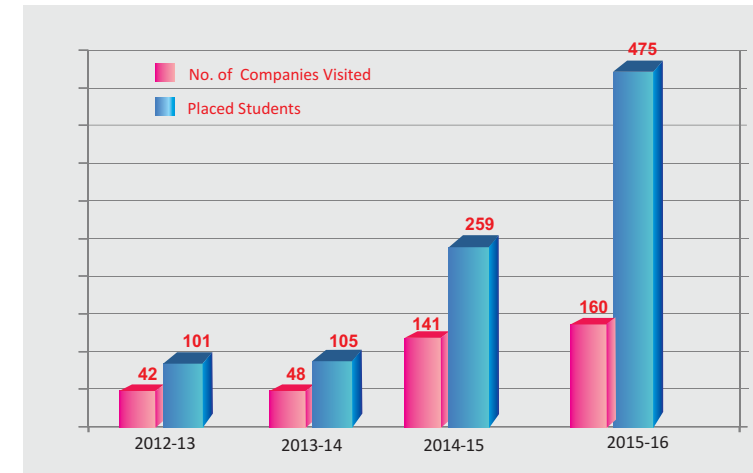- Electric Vehicles
- Electromechanical Systems

Sahyadri will not only promote.... it facilitates Research and Development

Department of Placement

The Placement Department is headed by Head Placement and a Placement Officer with two Assistant Officers. The Department is entrusted with the responsibility of ensuring that students are well placed professionally. In lieu of corporate requirement, Sahyadri extensively conducts industry - specific soft skills training which enhances the effectiveness of students aspiring for job opportunities. The objective of the Placement Department is to train the students as per the requirements of the industry and the community by adopting best practices together with promoting Research and Development.

All the Colleges of Engineering in the Mangalore region have formed a combined placement pool. Whenever corporate businesses visit the Campus for placement activities, eligible students from all the pool colleges will be called to one centre and the placement process will be open to all these students.

The company can view the student profiles online. The Placement Office ensures the best arrangement and hospitality for the recruiters. Student volunteers make the necessary arrangements on the day of the visit

Legend:
- No. of Companies Visited
- Placed Students

Year	No. of Companies Visited	Placed Students
2012-13	42	101
2013-14	48	105
2014-15	141	259
2015-16	160	475

Placement Features

Aptitude, Soft Skills, Value-added courses and Training
Sahyadri has in-house skilled training professionals regularly conducting a host of value enhancement training programs for students.

Internship Programme
Students undergo internship and summer vocational training in companies like Mahindra & Mahindra, MRPL , MCF and others

Industry Interaction
The department organizes Industry interactions on a weekly basis to groom the students for the corporate world.

Placed in

KINGDOM UNIVERSITY BAHRAIN

Mr. Rajesha T Mathew
MBA with salary package of Rs.14.04 lakhs per annum

Sahyadri Center for Social Innovation – SCSI

Hands on Experience Lab

In order to bridge the gap between theory and practice, Sahyadri College of Engineering and Management has initiated a lab which aims at enhancing the analytical skills and practical knowledge of budding engineers. The lab motivates students to carry out innovations at a primary level thereby promoting the reasoning skills amongst them. The students will conduct experiments pertaining to various branches of engineering, established on the work supervised on a daily basis. Realizing the lack-of knowledge in general appliances due to ignorance, this scheme in the form of a lab is created in the Sahyadri Campus.
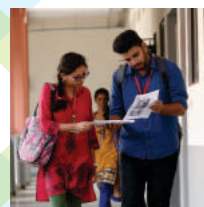
Product Designing Lab

Product designing lab is specifically built to motivate entrepreneurs and to promote start-ups in the campus. With state-of-the-art machinery, the college supports students to convert their prototypes into products through real engineering practices. The lab provides every engineer a healthy ambience to work in and collect ideas. The lab also promotes students to patent projects and develop entrepreneurial skills. The students are also given opportunities to work with organizations like TIE in order to promote start-ups.

Innovation Lab

Innovation lab is initiated to make engineers realize the ideal environment to dwell. To realize this fact, the true essence of engineering, the Innovation Lab is set up to get engineer to connect with society to solve their day- to-day problems.

Life Science Lab

This lab is developed to motivate the students in understanding the general aspects of day-to-day affairs, promote the questioning of general applications of engineering, re think and re engineer problems faced and develop concepts for solutions.

Academics...
Research...
Innovation...
Entrepreneurship...
only@Sahyadri

Sahyadri Initiatives

Student Project Support Scheme - SPSS

SPSS is to convert the enormous reservoir of talent and creativity of students into projects. SPSS provides financial and academic support for student projects. This is the first of its kind in technical education in the country and has a major impact in improving the quality of technical education. The management has earmarked Rupees One Crore for student projects through the SPSS.

Sahyadri Science Talent Hunt - SSTH

The objective of SSTH program is to provide a platform for exhibiting new ideas and the creative work of young talent of High School and PU/+2 colleges, creating curiosity towards science and latest technologies along with exchange of views and ideas with their peer group.

SAE International Collegiate Clubs

The institution has supported students to participate in SAE BAJA, SAE SUPRA, SAE AERO etc; competitions which help students to use their theoretical knowledge for practical applications. Students are qualified for SAE-BAJA, SAE Go Cart, SAE Formula Race, and SAE Aero Design Competitions. A National level Aero Modeling Competition "Aerophilia 2016" was held at Sahyadri.

Sahyadri Entrepreneurship Cell (E-Cell)

The Sahyadri Entrepreneurship Cell (E-Cell) aims to ignite the creative thinking of students towards innovation and thereby mentor them to become successful entrepreneurs by providing the right entrepreneurial ecosystem. It will act as an incubator and provide students necessary infrastructure, mentoring and resources in making them successful business set-ups.

This E-cell aims to

- Create and develop an ecosystem where innovative ideas are nurtured into successful entrepreneurial ventures
- Create opportunities for students and budding entrepreneurs to pursue their ideas with passion by providing the right environment and infrastructure in building a successful enterprise.

National Award

"Best Young Innovators" National Award for 'Smart Helmet' a joint initiative of AICTE, Department of Science & Technology, Govt. of India and CII was held at IIT Delhi.

Riding high on the success of making it to the top ten in the India Innovation Initiative-2015 Competition Navjith P Karkera, Semester V, Mechanical Engineering and Jagath Biddappa, Semester V, Electronics & Communication Engineering, interns at Sahyadri Edu Dreamers R&D Pvt. Ltd were awarded with the

Young Indians Award for Best Young Innovators for their Smart Electronic Helmet for Motorcycle invention by Dr. Harshavardhan, Incumbent Minister, Ministry of Science and Technology (India) and Ministry of Earth Sciences, in Delhi. The Innovation Initiative-2015 Competition; a joint initiative of AICTE, Government of India (DST) & Confederation of Indian Industry (CII) was held at IIT Delhi.

"Best Young Innovators"

Sahyadri Motorsports student team won fourth place in the "**INTERNATIONAL SERIES OF KARTING**".

The team FORMULA SAHYADRI, with 25 team members participated in the national level event "**SAE SUPRA 2016**" to be held at Buddh International Circuit, Noida, U.P.

International Recognition, Texas, USA

SAE International Aero Design

Students made a mark at the SAE International Aero Design held at Fort Worth, Texas, USA and placed 4th among 75 top universities.

Team HAWK, the Aero Design team of Sahyadri College of Engineering & Management are Westward bound to Fort Worth, Texas, USA. Mohammad Anwar (Team Captain), Probid J Panikkan (E&C), Amritha khandare (E&C), Tharanath (Mech), Midhun Jyothis (Civil), Rajgokul (E&C), Nithin (CS), Gouse Khan (IS), and Gerald (E&C) have been selected to participate in this year's SAE Aero Design event which will be held in Fort Worth, Texas, USA. The team successfully registered and has received confirmation of their participation. The team adviser Dr Rathishchandra Gatti, Professor of the college.

Sahyadri will not only promote.... it facilitates Research and Development
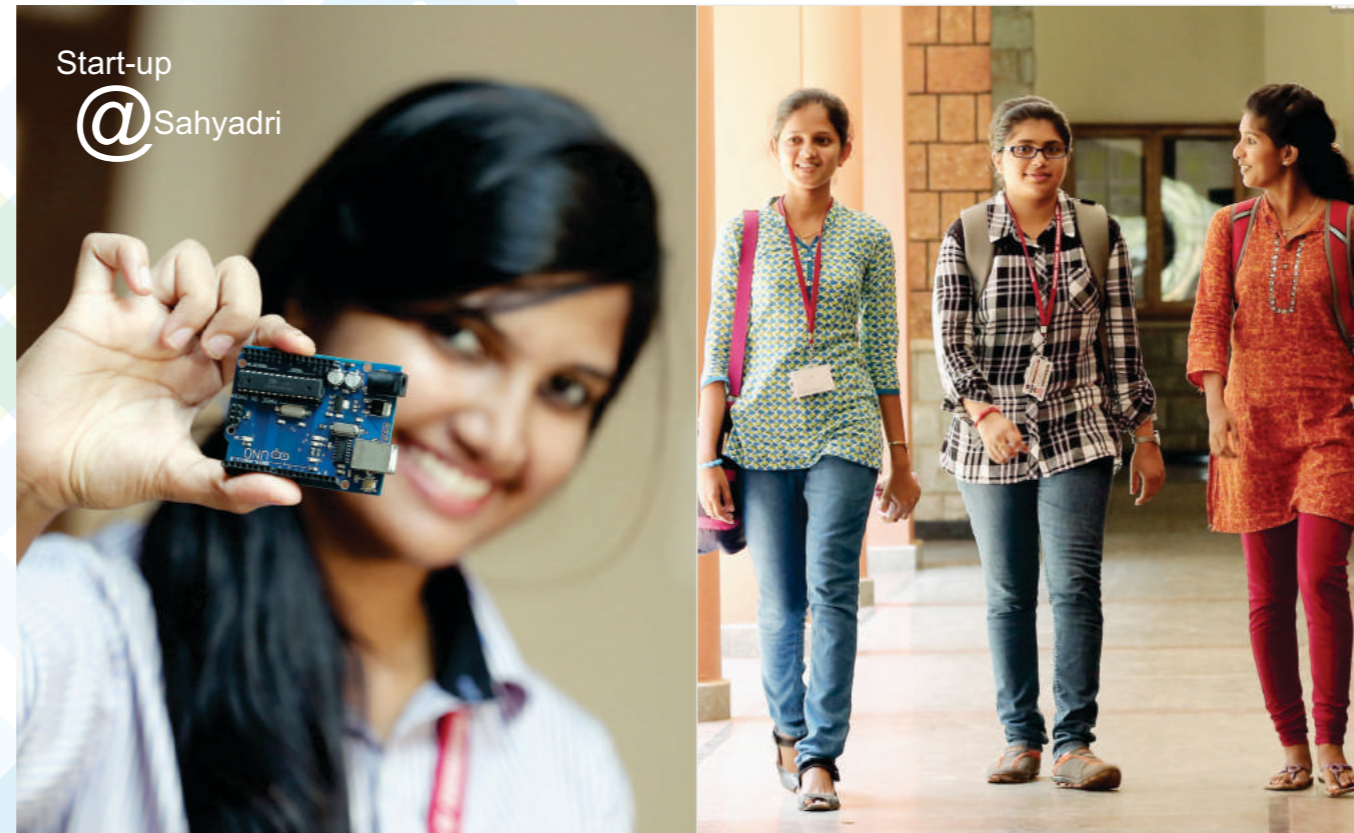
Incubation @ Sahyadri

The Incubation center will provide office space, infrastructure, resources, guidance on intellectual property rights, mentoring assistance and other resources to the start-ups.

The Incubation center will give extended services to the student for a period of 24 months after the student graduates.
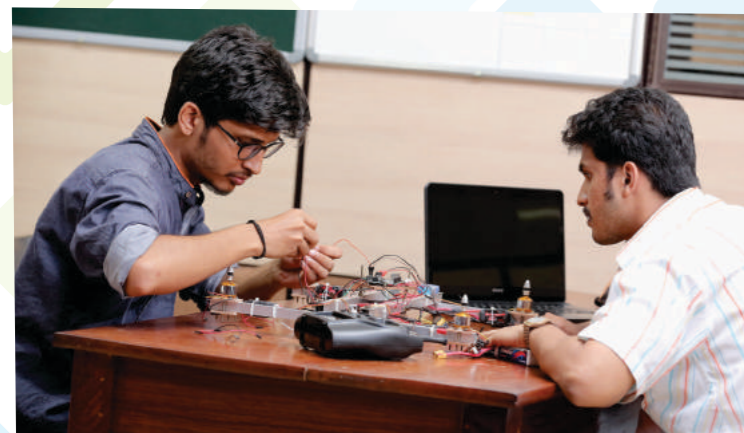
Start-up@ Sahyadri

Start-up at Sahyadri will focus on holistic approach on building a complete understanding about startups and entrepreneurship journey through various perspectives and connects all relevant and related resources and tools for further self learning and to turn theory into action. The objective of Start-up@Sahyadri is to provide adequate support data and tools to connect with other sources and data that support the entrepreneurial venture.

Start-up@Sahyadri adopts innovative ideas and tools to increase the volume of entrepreneurship and likelihood of startup success. It focuses on the acquisition of knowledge about the startups' development journey and minimizes the "universal risks". It helps to educate future entrepreneur about the methods, structures and approaches for startups that are both strong and flexible to sustain failures at various levels.

Start-up
@Sahyadri

Design...
Create...
Innovate...

A learning spaces
with good natural light,
air quality with
Cross ventilation...

Start-up Companies by students

Sahyadri Edu Dreamers R&D Pvt. Ltd. (DTLabz)

Dream-Tech Innovations

Dream-Soft Innovations

Whattabiz

Host Zyro

Samaroham Creations

IUSOLVE

Axndx Technologies Pvt. Ltd.

OLS, an Online Laundry Service

Softrixz

TechShaadi

Flicker Infotech

Infrastructure

Sahyadri E-cell offers a floor space of 15000 Sq. ft allocated exclusively for start-ups and for an incubation center. It will provide space for setting up an office with added facilities of wifi, electricity, and back-end support services.

Facilities

Library

A Multi-Storey Library with an area of 10,520 sq. ft with seating capacity of 500 students. The Central Library and the Digital Library are equipped with state-of-the art equipment and updated books. The courtyard in the middle provides natural light and ventilation creating a conducive study atmosphere for the students.

Hostel

Sahyadri Campus has a separate hostel section for girls and boys under the management of Hostel Management Committee. The committee is headed by the coordinator looks after the day to day aspects of the hostel management at the Campus. Each hostel has a Warden who is responsible for the discipline, maintenance of building, allotment of rooms etc. The hostel staff consists of caretakers/ block supervisors, other attendants and maintenance staff.

Sports

Sports are an important part of just about every society, every country, and every part of our planet. In one way or another, everyone is involved in sports of some sort. We at Sahyadri give a lot of encouragement to sports and culture.

Sahyadri...
where Excellence
is a Way of Life

Aesthetically
Designed Food Court

Food Court

The Campus has an aesthetically built, spacious food court that provides a variety of hygienic and delicious food like South-Indian, Vegetarian, Non-Vegetarian, Chats and Fresh Fruit Juice.