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SYMBIOSIS INSTITUTE OF TECHNOLOGY, HYDERABAD

Constituent of Symbiosis International (Deemed University), Pune

(Established under Section 3 of the UGC Act of 1956 vide notification number F-9-12/2001-U-3 of the Government of India)

Re-Accredited by NAAC with "A++ Grade



Celebrating 50 Years of Excellence



INFORMATION BROCHURE

B.TECH

- ➔ **Computer Science and Engineering(CSE)**
- ➔ **Computer Science and Technology (CST)**
- ➔ **Computer Engineering (CE)**
- ➔ **Artificial Intelligence and Machine Learning (AIML)**
- ➔ **Computer Science and Engineering (AIML)**



About Us.

Symbiosis Institute of Technology (SIT) Hyderabad is one of the best engineering colleges in Hyderabad established in 2024 inheriting splendid novelty, dynamism, and excellence in education. It is nurtured by the visionary ideas of Dr. S.B. Mujumdar, Chancellor (Symbiosis International University) on the principles of vedic thought 'Vasudhaiv Kutumbakam' which means 'World as One Family.' Symbiosis Institute of Technology, Hyderabad is a member of Symbiosis International University, Pune.

Hyderabad is one of the best places in central India for technical engineering education, topping livability, biodiversity, public transportation, and health care indexes. SIT, Hyderabad currently offers B. Tech Programmes in Computer Science and Engineering, Computer Science and Technology, Computer Engineering and Artificial Intelligence and Machine Learning Being among the league of the best engineering colleges in Hyderabad, SIT strives to deliver high-quality technical education that meets the needs of today's competitive industry while utilizing cutting-edge technologies. The Institute's curriculum emphasizes fundamentals and current advancements. Recognizing the importance of faculty, particular efforts have been made to employ highly qualified and competent professors.



SIT Hyderabad has emerged with a "state-of-the-art infrastructure" with outstanding amenities for its students. Its pollution-free campus features plenty of open space as well as a diverse range of academic, sporting, and cultural amenities. Through systematic and effective planning and supervision of the teaching-learning process, both inside and outside the classroom, the Institute will create an atmosphere favorable to maximizing the potential of both teachers and students. Techfests, cultural programs, sports contests, industry-institute meetings, guest lectures by recognized individuals, and student exchange programs with international institutions will complement the fundamental teaching learning process.

Students will be trained in liberal arts, performing arts, industrial history, human values and ethics, and offered the opportunity to qualify for a special diploma from SIBM and courses from other Symbiosis Institutes in order to realize the dream of Prof. Dr. S. B. Mujumdar Sir, Chancellor of SIU and founder of Symbiosis, of creating Global Engineers. The Institute will encourage students to complement their regular education by completing technological projects, competing in competitions, and organizing events, among other things.



Vision and Mission

VISION

To be a centre of excellence for creation and dissemination of knowledge by imparting life skills and experiential learning for a promising future in the areas of engineering and technology.

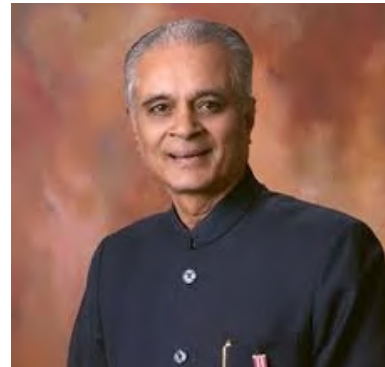
MISSION

- To promote professional ethics and experiential learning for better employability.
- To contribute towards knowledge generation and dissemination in the field of engineering.
- To address societal problems by promoting research, innovation and entrepreneurship.
- To develop global competencies amongst students by fostering value-based education.
- To strengthen industrial, Institutional, and international collaborations for synergetic relations.

LEADERSHIP AT SYMBIOSIS

The University stands at the frontiers of global innovation in academics as well as all the other components that make education whole. I invite you to peruse the extensive range of resources and opportunities that we offer to all the members of the University. From classrooms to wellness centres, the amenities are both plenty and first-rate. Most important of all, the teaching and non-teaching staff at the University combine in them the calibre and culture to help students fulfil their higher education goals.

The Chancellor



Prof. (Dr.) Shantaram Balwant Mujumdar

Chancellor, Symbiosis International
(Deemed University) & Founder And President,
Symbiosis.

Pro Chancellor



Dr. Vidya Yeravdekar

Pro Chancellor Symbiosis international
(Deemed University) & Principal Director, Symbiosis

Dr. Vidya Yeravdekar is the Principal Director of Symbiosis Society, and Pro Chancellor of Symbiosis International University. Symbiosis International University is a multi-disciplinary, multinational, multi-cultural University having more than 45000 students from all States of India and international students from 85 countries. The Symbiosis Society not only has under its ambit the Symbiosis International University but also has K12 Schools, College of Arts and Commerce and Museums- the Afro Asian Cultural Museum and the Dr. Babasaheb Ambedkar Museum & Memorial.

Dr. Ramakrishnan Raman, an accomplished academician and seasoned professional, is the Vice Chancellor at Symbiosis International (Deemed University). With a remarkable educational journey that includes a Bachelor's Degree in Computer Science and Engineering and an MBA in Systems and Marketing, and a doctoral degree in Management from Pune University, Dr. Raman brings a wealth of knowledge and expertise to this esteemed institution. His extensive career spanning over two decades is a testament to his diverse experience in the corporate, academic, and research domains.

Vice Chancellor



Dr. Ramakrishnan Raman

Vice Chancellor
Symbiosis International (Deemed University)

The Dean

Welcome to the dynamic world of engineering at SIT, where innovation is not just a goal but a way of life. At the forefront of technological advancements, we blend expertise, technology, and creativity to propel our community towards excellence. SIT stands as a centre for creativity, a beacon for learning, and a convergence point for ideas that shape the future. Our success is rooted in the unwavering commitment of our faculty members to academic rigour, groundbreaking research, and mentoring. Their dedication goes beyond the confines of classrooms, influencing the lives of our students in profound ways. Our overarching objective has always been to bring out the best in our students, moulding them into professionals with strong ethical and moral values. As you embark on your journey at SIT, you join a diverse community engaged in hands-on learning and cutting-edge research, paving the way for successful careers in business, government, or academia.

Our faculty, involved in high-impact research across various domains, including Artificial Intelligence, Cyber Security, Blockchain, Data Science, Robotics, GIS, Nanoscience, Cloud Computing, Embedded Systems, Infrastructure Design and Building Information Modelling (BIM), ensures that our students are exposed to the latest advancements in their field. Through creative instruction, hands-on projects, and involvement in various student competition teams, our undergraduates and postgraduates receive an exceptional educational experience. Industry-sponsored capstone projects and internships further foster professional ties, laying the groundwork for post-graduation success. At SIT, we strive to create an inclusive and dynamic environment where excellence in teaching, research, and service is paramount. I look forward to working with each one of you and contributing to the success and growth of our vibrant engineering community.



Prof. Ketan Kotecha, PhD (IIT Bombay)
Dean, Faculty of Engineering, Symbiosis
International (Deemed University)

The Director

It is a great pleasure and honor for me to serve as the Director Symbiosis Institute of Technology Hyderabad.

A very warm welcome to SIT Hyderabad. It is my pleasure to introduce Symbiosis institute of Technology, Hyderabad. Started in 2024, We provide quality technical education and act as a holistic place for scientific research with a mission to develop human potential to the greatest degree. SIT Hyderabad is offering Bachelor's Engineering Programs (B.Tech) specializing in Computer Science.

An institution is fundamentally shaped by its people. We are committed to recruiting exceptional individuals who will guide, mentor and support student learning and practice. Our student community, representing diverse backgrounds from around the globe, is integral to our growth and strength. Our vision is to create a dynamic,

multidisciplinary institution that excels in delivering high-quality education, conducting original research and practice. This vision is the driving force behind our academic community. The institute is preparing the next generation of leaders who will carry this path forward in the years ahead.

Research undertaken at Symbiosis has gained momentum with faculty and students publishing widely in peer-reviewed journals and making their presence felt at conferences and workshops, within the country and abroad. SIT Hyderabad will continue the legacy. The Institute is committed to create an ambience for nurturing innovation, creativity and excellence within its students.

Periodic Industry-Academia Conclaves and a strong emphasis on industry internships represent a few other instances of our commitment to a strong education-industry interface. The mandate of our Career Development Centre, as the name indicates, goes far beyond coordinating campus placements.

Development of robust infrastructure is our priority, and the Institute has state-of-the-art centres and facilities for research and development in areas like High performance computing, Artificial Intelligence, data science and computational imaging.

If you are a prospective student or a potential colleague and have any specific queries or concerns, do not hesitate to contact us.



Prof. Rajanikanth Aluvalu

Director, Symbiosis Institute of Technology,
Hyderabad



The Symbiosis Advantage

During the past 50 years, brand Symbiosis has come to stand for value-driven quality education throughout the country.

Symbiosis Institute of Technology, being the flagship institute of the prestigious Symbiosis International (Deemed University), has set high standards for itself.

01

Quality education in line with the requirements of today's competitive industry and rapid development in technology.

02

Provides an environment conducive for harnessing the potential of faculty and students through systematic & practical learning both within and outside the classrooms.

03

Highly qualified and experienced faculty & their continual professional growth through attending conferences & publishing research articles.

04

Employing innovative methods of teaching & providing ample opportunities for learning outside the classroom through projects, technical fests, & cultural programmes.

05

Regular revision of curriculum in line with the fast-changing need of the industry.

Programme Overview

• COMPUTER SCIENCE AND ENGINEERING(CSE).

B. Tech (Computer Science and Engineering) is a full-time four-year graduation programme, which aims at transforming a student into a technically sound professional. The syllabus contains courses on basic sciences, technical arts, humanities & liberal arts and professional courses. The mix of these courses has been evolved with an aim to produce professionals who have knowledge not only of Engineering but who are good managers to contribute in a cross-functional team and have human values. Being a professional programme it ensures a healthy balance between theoretical foundation and practical exposure to the present world. The emphasis is to develop all round personality that would enable the students to take up the challenges of the corporate world and also become responsible citizens of the society.



• HONOR'S PROGRAMS

NEP-Enabled Curriculum at Symbiosis Institute of Technology, Hyderabad

Symbiosis Institute of Technology (SIT), Hyderabad is at the forefront of academic transformation, aligning its educational practices with the visionary objectives of the National Education Policy (NEP) 2020. The institute offers a dynamic and personalized academic experience that encourages students to pursue knowledge across disciplines while focusing on innovation and practical applications. The NEP-enabled curriculum at SIT Hyderabad is designed to foster academic flexibility, enable industry-aligned specialization, and cultivate a holistic learning environment that nurtures creativity, ethical values, and leadership.

Honors Programs – Specialization Tracks for Career Excellence

In addition to the core curriculum, SIT Hyderabad offers Honors Programs for high-achieving and motivated students who seek to deepen their expertise in emerging technologies. These optional tracks enable students to pursue an Honors degree along with their regular B.Tech, by engaging in specialized coursework and research-driven projects in high-demand fields.

- **High Performance Computing (HPC):**

This track focuses on advanced computing systems, covering areas like parallel and distributed computing, GPU programming, and cluster computing. Students engage with applications in simulation, modeling, and artificial intelligence, and have opportunities to conduct real-world research on supercomputing platforms.

- **Data Science:**

Students in this track gain mastery in data analytics, including advanced statistics, machine learning, and big data technologies using tools such as Python, R, and Apache Spark. The track also emphasizes effective data visualization and communication, culminating in a capstone project based on real-time datasets.

- **IoT & Robotics:**

This specialization covers the integration of embedded systems, sensor networks, and microcontrollers, along with robotics design and cloud-enabled IoT architectures. Students learn to develop intelligent systems with real-world applications, combining smart hardware and AI software integration.

- **Game Development:**

This track equips students with the creative and technical skills needed to build interactive digital experiences. It includes courses on game design theory, graphics, animation, and real-time rendering using leading industry tools such as Unity and Unreal Engine. The curriculum also explores serious gaming applications, including virtual and augmented reality (VR/AR).

These Honors tracks are tailored to provide students with a competitive edge in academia, research, and industry. They not only enhance technical depth but also encourage interdisciplinary thinking, making SIT Hyderabad graduates well-prepared for future challenges in technology and innovation.

• **COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING.)**

CSE (AI/ML) stands for Computer Science and Engineering (with specialization in Artificial Intelligence and Machine Learning). This is a branch of computer science that focuses on the development and application of algorithms, data models, and systems that enable machines to learn from data and make intelligent decisions. AI (Artificial Intelligence) and ML (Machine Learning) are subfields of computer science that have gained immense popularity due to their transformative impact across industries.



• **COMPUTER SCIENCE AND TECHNOLOGY(CST)**

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Programme Overview

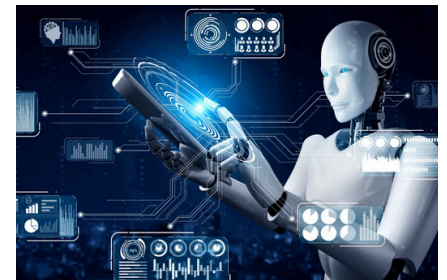
• COMPUTER ENGINEERING(CE).

B. Tech (Computer Engineering) is a full-time four-year graduation programme, which aims at transforming a student into a technically sound professional. The syllabus contains courses on basic sciences, technical arts, humanities & liberal arts and professional courses. The mix of these courses has been evolved with an aim to produce professionals who have knowledge not only of Engineering but who are good managers to contribute in a cross-functional team and have human values. Being a professional programme it ensures a healthy balance between theoretical foundation and practical exposure to the present world. The emphasis is to develop all round personality that would enable the students to take up the challenges of the corporate world and also become responsible citizens of the society.



• ARTIFICIAL INTELLIGENCE & MACHINE LEARNING(AIML).

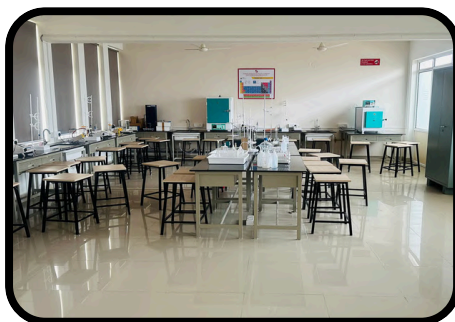
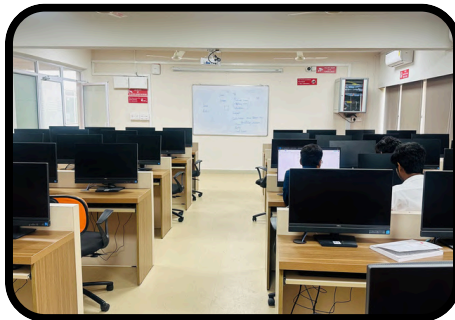
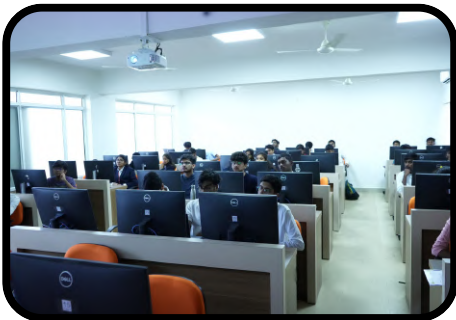
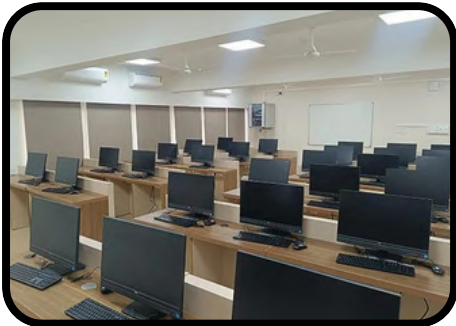
The B.Tech in Artificial Intelligence & Machine Learning at Symbiosis Institute of Technology (SIT), Hyderabad is a forward-thinking undergraduate program designed to equip students with in-depth knowledge and practical skills in intelligent technologies. Rooted in the principles of the National Education Policy (NEP) 2020, the program emphasizes a holistic, flexible, and multidisciplinary approach, empowering students to thrive in a technology-driven future.



This four-year program combines strong foundational courses in mathematics, programming, and computer science with advanced topics in AI and ML. Students explore subjects such as data structures and algorithms, probability and statistics, and computational thinking before diving into specialized areas like machine learning, deep learning, natural language processing, computer vision, and reinforcement learning. The curriculum also incorporates subjects on data engineering, ethical AI, cloud computing, and intelligent systems design.

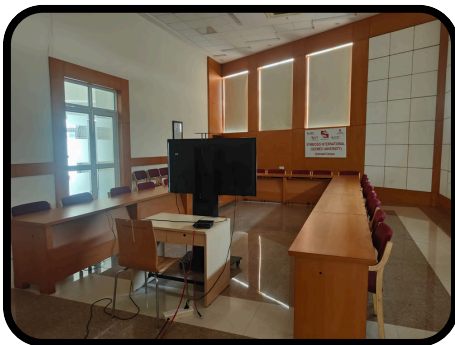
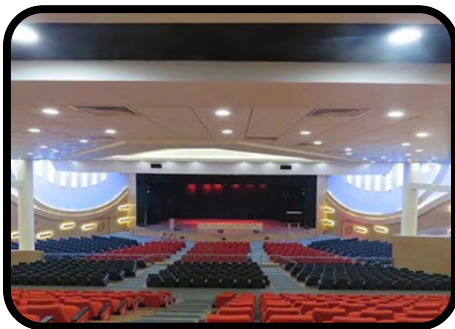
Facilities

Academic infrastructure



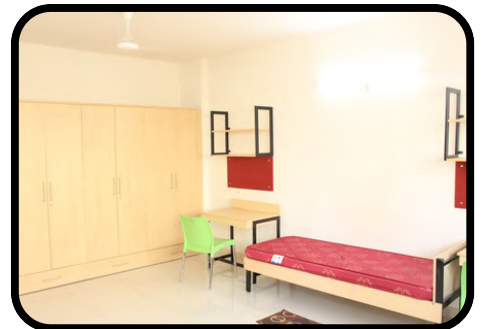
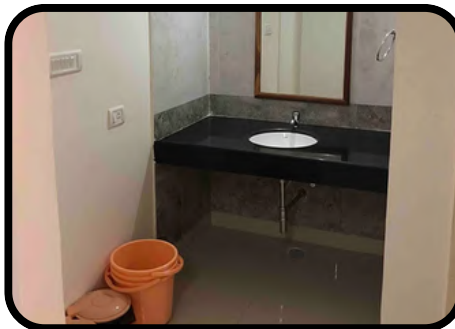
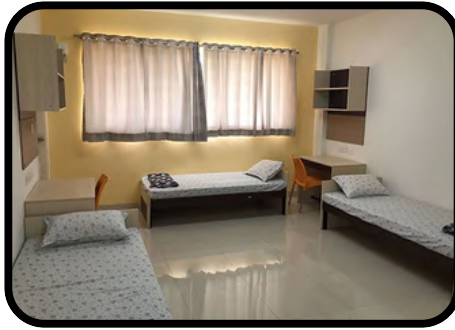
Facilities

Auditorium And Seminar Hall



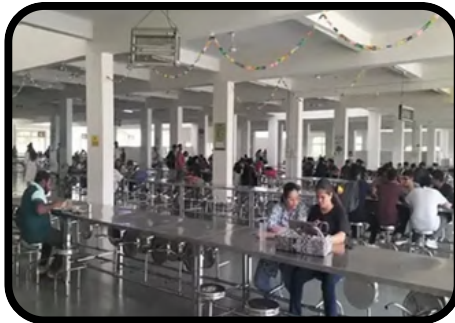
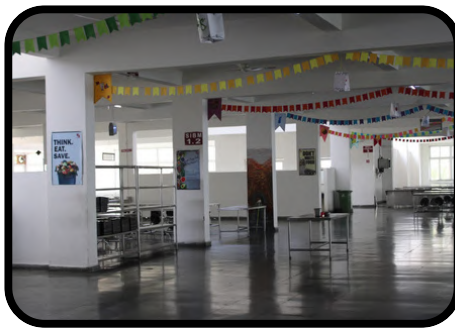
Facilities

Hostel



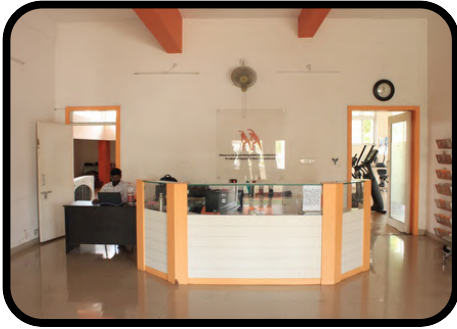
Facilities

Mess & Mess Cafeteria



Facilities

Gym



Symbiosis Centre for Health Care



Sports Facilities

Sports are organized physical activities or games, usually governed by a set of rules or customs, in which participants engage for competition, recreation, or skill development. Sports can be played individually or in teams and often involve a combination of physical exertion, strategy, and teamwork. They play an essential role in society, contributing to entertainment, physical health, social bonding, and personal development.

Basketball



Football



Cricket



Volleyball



Shopping complex



Juice Center

A juice center is a retail establishment or food service business specializing in the sale of freshly made juices, smoothies, and sometimes other related beverages. These centers typically focus on providing healthy and refreshing drinks made from fruits, vegetables, and other natural ingredients. Juice centers have become increasingly popular due to growing consumer interest in health and wellness, as well as the demand for convenient, nutritious beverage options.

General Store

A general store is a retail establishment that sells a wide variety of goods, often catering to the local needs of a community. Unlike specialized stores that focus on a particular category of products (like electronics, clothing, or groceries), a general store typically offers a broad range of items to meet various daily needs.



Bakery and Stationery

Bakery

A bakery is a specialized shop or establishment that produces and sells a variety of baked goods. It primarily focuses on the production of bread, cakes, pastries, cookies, and other baked items. Many bakeries also sell beverages, such as coffee and tea, and may offer services like custom cake design for special occasions.

Stationery

Stationery refers to a range of paper-based goods and writing materials used for personal, professional, or artistic purposes. Stationery shops sell items such as pens, pencils, notebooks, greeting cards, envelopes, and other paper products used for communication, organization, and creative expression.

Activities at SIT Hyderabad

Engineer's Day



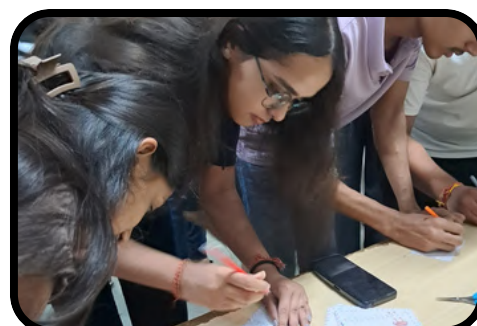
Navratri Celebrations



International Education Day



World Mental Health Day



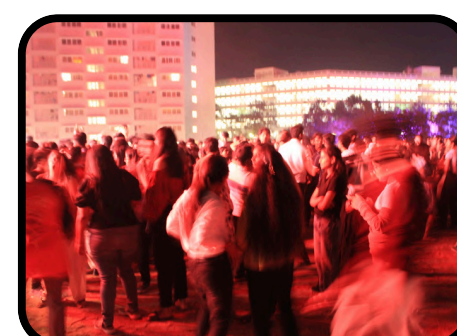
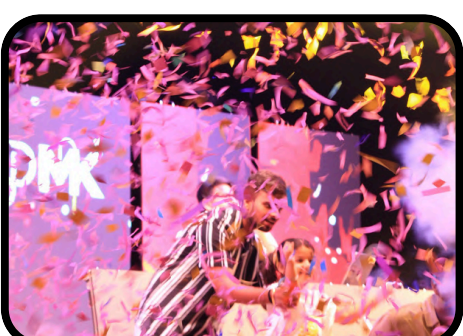
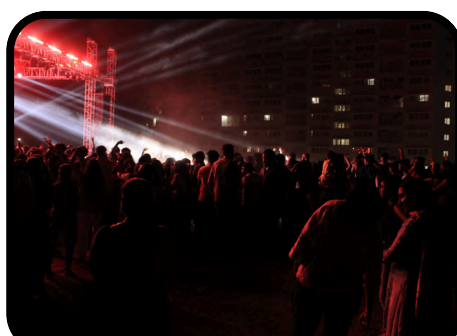
Activities at SIT Hyderabad

Anveshan 2k25



Activities at SIT Hyderabad

Anveshan 2k25



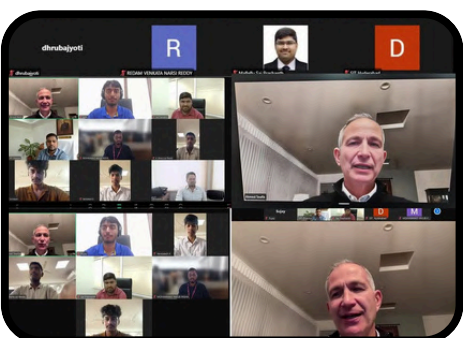
Activities at SIT Hyderabad

SIT Spectra



Activities at SIT Hyderabad

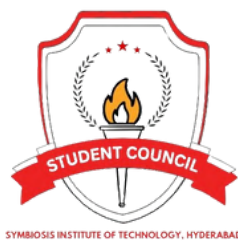
IEEE Synergy Summit 2025



Life at SIT Hyderabad



Student Council of SIT



The newly appointed Student Council, officially inaugurated on October 23rd, 2024, is here to represent the diverse voices of our student body. This council is dedicated to driving initiatives that foster collaboration and enhance our school spirit.



**Program coordinator
& Support Committee**



President
Anirudh Pratap
Singh Yadav

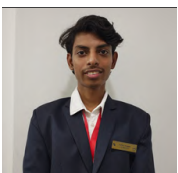


Head
Saanvi Dande

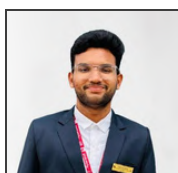
**Academics &
Research Committee**



Head
Dhruva Sai Phaneeswar



**Vice-
President**
Harsh Anand

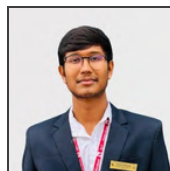


Co-Head
Syed Mudassir



Co-Head
Mrigank Pandey

**Student Welfare
Committee**



Head
Aavula Shashank

**Media
Committee**



Head
Riya Shastri

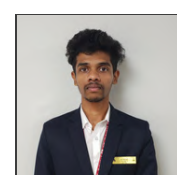
**Co-curricular &
Extra-curricular Committee**



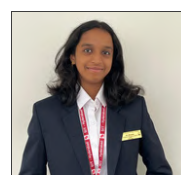
Head
Rohini Sengupta



**Co-
Head**
Kurikala Hasini



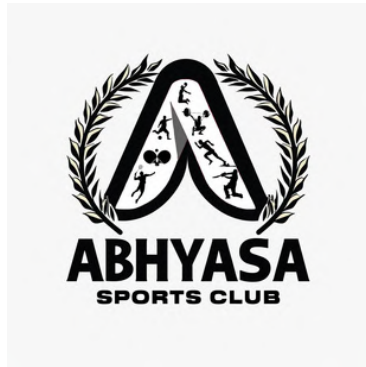
**Co-
Head**
K U Parthiv



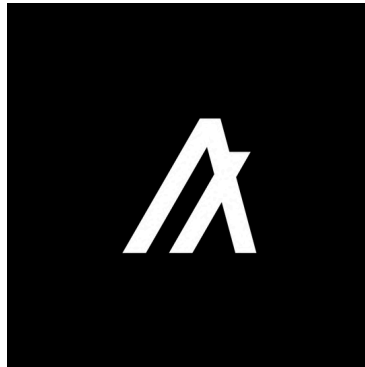
**Co-
Head**
P V L Srujana

Student Clubs at SIT Hyderabad

Student clubs at SIT are set to provide valuable opportunities for students to connect, collaborate, and explore their interests. From arts and culture to academic and community service initiatives, there's something for everyone.



ABHYASA
(health and wellness
Club)



Algorand Blockchain Club



EXCIPIO
(Photography Club)



BUILDHOPE
(NSS & Social Service
Club)



PRATIBHA
(Cultural Club)



Developer Student Club

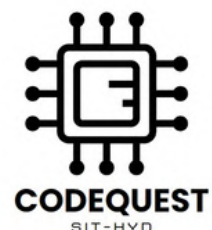
**Google Developer
Student Club**



INNOVATORS INC
(Innovations & Startups
Club)



INKFLUENCERS
(Literature & Media Club)



CODEQUEST
(AI & Hackathon Club)

Industry Connect

OBJECTIVES OF INDUSTRY CONNECT

- To give industrial exposure to students and faculty members enabling them to tune with the industrial culture.
- To provide real practical knowledge and self-confidence to become Industry ready.
- Encourage industry experts to address the student community about industry trends and opportunities through webinars, guest lectures, and hands-on workshops etc.
- To facilitate the departments in organizing workshops, conferences, and symposia with joint participation of the industries.
- To provide Support for Industry defined Projects, internships, and placements.
- Consultancy Projects and Industry-sponsored research work.

Industry Connect Activities

Internships

Expert Talks/Co-Teaching

Industry Defined Projects

Joint Honors Programs

Flexi Course Teaching

Consultancy Projects

Curriculum Design

Faculty sabbaticals

Training Programs for Industry by SIT

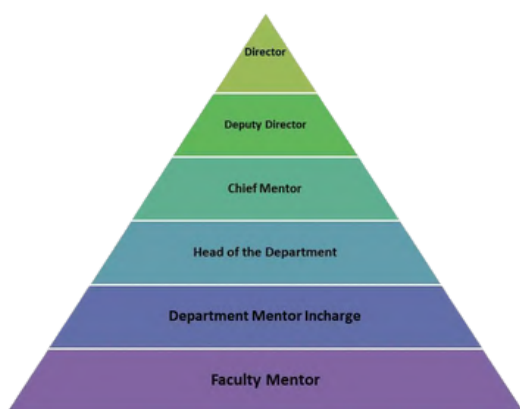
MoU

Industry Sponsored Lab

Mentoring at SIT Hyderabad

The Mentorship at SIT is to support the mentees in academics, competency and personal level for their holistic development. This includes the role of mentor as observing, discussing, finding, suggesting and listening to the learnings and challenges experienced by the mentee. The challenges related to academics are bridged by the mentor by discussing with the related faculty colleagues, suggesting proper resources and the personal challenges are dealt with relevant solutions with help of Symbiosis Center of Emotional Wellbeing and other Psychologists.

MENTORING PROCESS:



The structure of Mentoring Cell at SIT

- At the start of the academic year, the Chief Mentor will allocate the mentors for the First year.
- These mentors will be forwarded to the department from the second year where mentors from Applied Science department will be replaced by faculty of the department.
- Department faculty will be assigned as mentor-in-charge to the relevant classes during the first year.
- Chief Mentor will conduct a meeting at the start of the academic year to brief about the mentoring process.
- The Chief Mentor will conduct one or two meetings in a semester with all the mentors to monitor and review the mentoring.
- The Mentor in-charge will submit a monthly report of mentoring to their HoD as well as the Chief Mentor.
- Mentors are expected to meet their mentee weekly or at least once in two weeks and maintain record of the meeting.
- Every faculty mentor can assign two students (student mentors) to help them with mentoring. They can select the student mentors on their own keeping the Chief mentor in the loop.
- A student with active backlog should not be appointed as a student mentor.
- Chief Mentor will give a report of mentoring to the Deputy Director and Director as and when required

ROLE OF MENTOR:

Mentoring is to support and encourage students to manage their own learning in order that they may maximize their potential, develop their skills, improve their performance and become the person they want to be. To take care of student's academic performance and to help them for their better career, mentors will interact with them frequently and try to solve their problems and encourage them to achieve their goals. Some senior student mentors will be there to assist faculty mentor for smooth mentoring.

International Initiatives

SYMBIOSIS CENTRE FOR INTERNATIONAL EDUCATION (SCIE) : OVERVIEW

The Symbiosis Centre for International Education (SCIE) was formalized through a Board of Management (BOM) resolution made in February 2008. The resolution was the Out Come of the discussion that took place in the BOM related to Internationalization of Symbiosis International (Deemed University). It was realized that although the admission procedure for International Students and students' related services and events have been streamlined to a great extent, efforts are to be made to internationalize the curricula and the profile of faculty and staff in the University.



The mandate that has been given to Symbiosis Centre for International Education (SCIE) is to streamline the processes related to International Collaborations, participation in International Conferences & Seminars, International Student Mobility, Setting up of Area Study Centres etc. Dr. Vidya Yeravdekar, Principal Director, Symbiosis is the Executive Director of Symbiosis Centre for International Education (SCIE) under the aegis of the Symbiosis International (Deemed University).



The Symbiosis Centre for International Education (SCIE) is an integral part of the University, providing leadership and support to internationalize the campus and the curricula.

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