



SYMBIOSIS INSTITUTE OF TECHNOLOGY (SIT)

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

Mechanical Engineering

Undergraduate Program Accredited by
National Board of Accreditation (NBA)

The Department of Mechanical Engineering offers B.Tech in Mechanical Engineering with an intake of 60 and M.Tech in Automotive Technology in collaboration with Automotive Research Association of India, Pune (ARAI) with an intake of 30. The department also offers doctoral program in all the state of art areas of mechanical engineering.

The department aims at imparting high-quality education and producing industry ready professionals in Mechanical Engineering. To realize this aim, the department has recruited highly qualified and experienced faculty and set up labs which have latest equipment for teaching, demonstration and research. To ensure the relevance of curriculum, professionals from industry and distinguished professors from IITs and other renowned institutions are actively involved in curriculum development, guest lectures and project evaluations. The curriculum also includes multidisciplinary courses aimed at producing professionals with broader domain of knowledge.

SYMBIOSIS INSTITUTE OF TECHNOLOGY



॥वसुधैव कुटुम्बकम्॥

SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under Section 3 of the UGC Act, 1956) | Re-accredited by NAAC with 'A++' grade | Awarded Category - I by UGC



HIGHLIGHTS

Going Beyond Classroom

Flexi Credit Courses

Special Diploma in Business Management

Site visits, Workshops, Technical events, Guest lectures

Best in Class Infrastructural Facilities

Six Months Industry Internship

Value Added Certificate Courses

Academic Curriculum Benchmarked with International Universities

True Blend of Cultures

Mentor-Memtee System and Remedial Teaching

Learn Foreign Languages

Global Immersion Program

Creative Thinking, Critical Thinking, Design Thinking, Entrepreneurship Courses

Active Students' Body

Tinker Lab

Service Learning Activities

Specialization

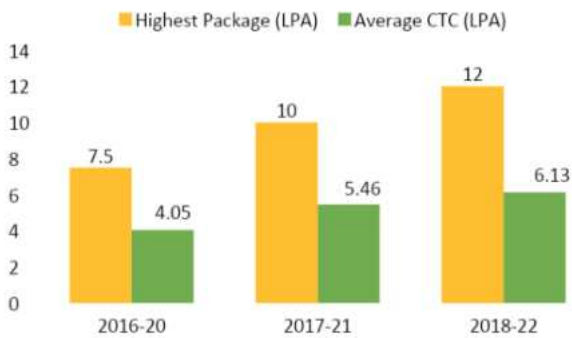
- Automobile Engineering with Hybrid and Autonomous Technology
- Smart Manufacturing (Industry 4.0)
- CAD-CAM
- Design of Heat Exchangers
- Aerial Robotics and Drone Technology
- Bio-electronic Systems
- Computing
- Data Science
- Embedded Systems
- Optoelectronics and Communication
- Signal Processing
- Structural Engineering

- Mechatronics and Automation
- Mechatronics and Manufacturing Automation
- Internet of Things
- Artificial Intelligence and Machine Learning
- Environmental Hydraulics
- Game Design and Development
- Geo-environmental Engineering
- GIS and Surveying Technology
- Infrastructure Engineering and Management
- Security and Privacy
- Smart Cities and Urban Analytics
- Sustainable Energy Devices and Systems

Placements and Internship

Placements

Over 120+ companies on board till date
Last three years Placement Trend



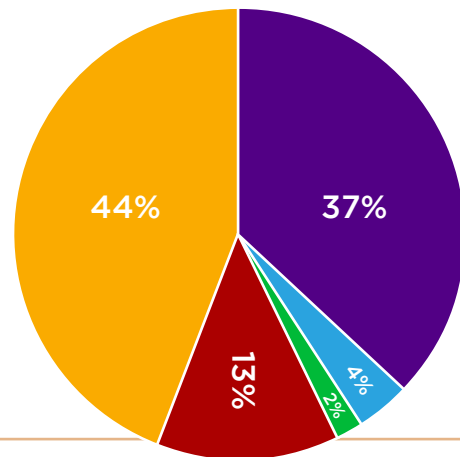
Shreyansh Pathak
Batch 2019-2023
Philips Healthcare Innovation
Centre
Package 11.5 LPA + Joining Bonus



Shrey Urvish Joshi
Batch 2019-2023
Tata Power
Package 6 LPA

Placement Profile

- - Supply Chain Management, 44%
- - Analyst, 37%
- - Graduate Trainee, 13%
- - Robotics, 4%
- - Sales & Marketing, 2%



Companies Associated



Internships

- Over 500+ students successfully completed Internships
- 18 students completed internships in International Universities

6 Month Internship Semester

- Over **120+ companies** on board till date
- Over **500+ students successfully completed** their internship across various specialization of mechanical engineering
- **10 students** completed their internship in international universities

Highest stipend offered
(2018-22):
INR 25,000 per month
internship offers



Mohit Anand
Phonon Communications
Stipend:15,000



Arnab Sharma
IntelliSwift
Stipend:12,000



Hursh Vardhan Singh
Verolt Engineering
Stipend:15,000



Abhinav Anand
Verolt Engineering
Stipend:15,000



Ojeshwar Sharma
Tata Motors Business
Services Ltd
Stipend:10,000



Akhil Pandey
GE Appliances
Stipend:25,000

Industry Connect

Advisors and Mentors of the Department



Shri. Anand Kulkarni
Vice President,
Electric Passenger Car,
TATA MOTORS, Pune



Dr. Himanshu Shekhar
Scientist 'G',
Director (Project),
DGACE, DRDO, Pune



**Lt. Gen.
(Dr.) Rajan S Grewal**
Vice Chancellor,
Sikkim Manipal University



Shri. Naresh Gandhi
GM (Research),
Kirloskar Oil Pumps, Pune



Prof (Dr.) Sarman Singh
Director & CEO, AIIMS,
Bhopal



Sitaram Kandi
Vice President, HR,
TATA Motors, Pune



Industrial consultancy projects undertaken by faculty



Co-Teaching by Industry Experts



MoU signing with D2O Learning Pvt. Ltd



Corporate Training to Industry



MOU Signing with ARAI



An Agreement Signing with Dassault Systèmes

Internationalization

- Global Internship program from second to final year of program
- Semester exchange programs
- International Internships
- Student exchange programs



Outside Classroom Learning

Tinker lab



Maker Lab



Mini Project



Industrial Visit to Army Base Workshop



Industrial Visit to Renishaw Metrology



Industrial Visit to Solar Thermal Testing Facility



Service Learning



Development of Microchannel Heat Exchanger



Development of Lightweight and smart Helmet



PBL 1 & 2



Departmental Clubs and Membership

- ♦ Mechanical Engineering Students Association (MESA)
- ♦ Society of Automotive Engineers (SAE)
- ♦ Wrench Welders Racing(WWR)
- ♦ Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) Student Chapter
- ♦ Space and Astronomy Club
- ♦ Economics Club
- ♦ Rotonity Club



MESA



WWR

Student Achievement

Academics

- ♦ Alyssa Gomes Received-Bank of Baroda Academic Excellence Award
- ♦ Ayush Verma received Institute academic excellence award
- ♦ Ishaan Mishra received Institute academic excellence award
- ♦ Ramesh Kumar (M.Tech-2020-22) received Institute academic excellence award

Sports

- ♦ Ms. Zenab Bandoorkwala received won 2nd prize in national rifle shooting as well as Sports Excellence Award by Bank of Baroda
- ♦ Ms. Aliya Hussain was part of winning volleyball team in Intra-institute sports competition -Protathlitis
- ♦ Mr. Arnav Sharma was runner up in Lawn Tennis in Intra-institute sports competition -Protathlitis 2022
- ♦ Mechanical Department Football was overall winner in Intra-institute sports competition -Protathlitis 2022



Technical Competitions

- ◆ Overall 12th in Formula Bharat 2020
- ◆ Overall First in FMAE 2021
- ◆ 2nd Place All India in Best Design Category Supra 2018
- ◆ SAE SUPRA 2022 overall 21st, Design 14th Business 9th



Research, IPR, Funded Projects, and Consultancy

267+

Total Publications
in scopus plus
web of science

7+

No. of Patents

12+

No. of Funded
Research Projects

6+

No. of
Consultancy
Projects

6+

Honors and
awards received

3+

Book chapters
published (if any)

The Mechanical Engineering department projects are funded by the renowned societies of India where students can have collaboration opportunities.



Life Sciences Research Board, DRDO



National Institute for Research and Development in Defence Shipbuilding



ISHRAE
(Indian Society for Heating Refrigeration and Air-conditioning Engineers)



Symbiosis International
(Deemed University)



Department of Science and Technology

Alumni

Admission in top ranking (QS rank less than 500)
Universities of the world

Student Name	Batch	University Name
• Swapnil Naikwadi	Batch 2017-21	University of Chicago Booth
• Sakshi Labhane	Batch 2015-19	Johns Hopkins
• Ishaan Agarwal	Batch 2014-18	Monash University, Melbourne-Australia
• Avinash Venkat Bangaru	Batch 2013-17	Monash University
• Rishi Devarakonda	Batch 2012-16	Purdue University, West Lafayette
• Prikesh Bhatia	Batch 2013-17	University of Technology Sydney
• Ganesh Sanjay Galande	Batch 2015-19	Cardiff University
• Sundeeep Talluru	Batch 2017-21	Loughborough University London
• Pranav Athale	Batch 2013-17	University College Cork
• Vaibhav Prasad Sawant	Batch 2017-21	University College Cork, Ireland
• Thakur Siddhant Sanat	Batch 2014-18	University of Illinois, Chicago
• N Sujith Bhargav Reddy	Batch 2013-17	Northeastern University
• Arjun Ashwin Bhalani	Batch 2013-17	Northeastern University
• Dhrumil Gohil	Batch 2012-16	Brunel University London
• Raj Kalpesh Shah	Batch 2012-16	University at Buffalo, SUNY
• Karthik Vikram Mhaske	Batch 2014-18	University of Buffalo
• Deep Thakar	Batch 2013-17	James Cook University
• Gursimran Singh Sadana	Batch 2015-19	Auckland University of Technology

Distinguished Alumni



AINULLA KHAN
IIT Madras (2014-18)

Company: Fujitsu, Bangalore,
AI Researcher



VEDANG ACHARYA
2013-17

Company: Promotion nuclear,
Canada, Mechanical Designer



JAIDEEP SHINDE
UC San Diego, California,
USA (2015-19)

Company: Higher studies,
Masters Student



AMAR SHUKLA
2016-20

Company: SRAC Tech India
Pvt Ltd., Founder



SNEH SONAM
2017-21

Company: Cummins India Ltd.,
Data Quality Analyst

Infrastructure Facilities



Mechanical Engineering Design and Analysis Softwares

Mastercam

MATLAB

**AUTODESK
AUTOCAD**

ANSYS

CATIA

ProENGINEER

and many more

Job Options after B.Tech in Mechanical Engineering

Government and Private Job

- Multi national Companies
- National Laboratories (Government Undertaking)

Further Studies

- M.Tech
- MS
- PhD
- Post-doctoral Degree from IITs
- NITs
- Foreign Universities

Research

- Design
- Thermal
- Manufacturing
- Structural Optimization
- Micro-machining
- E-Mobility & Industry 4.0
- Nano-technology
- Artificial Intelligence

Business

- Promoters
- Developers
- Authorized service provider for company
- Import-Export of mechanical components
- Special purposed machinery
- Tool making
- Engineering experimental testing components
- Technical support in public spaces (viz. hospital and malls)



Vision of the Department

The department of Mechanical Engineering envision to be recognized as a leader in offering a value-based education by disseminating knowledge, skills and empowering students for better career opportunities.

Mission of the Department

- ◆ To promote value-based education in mechanical engineering by facilitating professional ethics & experiential learning for better employability.
- ◆ To encourage students to excel in research, innovation & entrepreneurship skills for addressing the societal needs.
- ◆ To enhance students' skills by promoting industrial & international collaborations to foster global competencies.

Program Educational Objectives (PEOs)

- ◆ Apply the fundamental knowledge & skills of Mechanical engineering to analyse and solve the real-world technical problems along with international significance.
- ◆ Develop creative, critical, and design thinking abilities by solving research problems in mechanical engineering of social relevance.
- ◆ Communicate effectively and work as a team in multi-disciplinary domains with entrepreneurial attitude and leadership qualities.



Symbiosis Institute of Technology

Symbiosis International
(Deemed University)
Lavale, Pune,
Maharashtra- 412115

Ph: 020 2811 6300
www.sitpune.edu.in

Contact Details

B.Tech. Admission

btechmechadmission@sitpune.edu.in
+91-20-28116300/6464/6419 | +91-8805788267