

Established by Government of India in 1959 in Chennai, capital of Tamil Nadu, India. IITM is one of the largest residential institutes with nearly 550 faculty, 8000 students and 1250 administrative & supporting staff; a self-contained campus located in a beautiful wooded land of about 250 hectares.



## ACADEMIC STRUCTURE

### Engineering Departments

- ◉ Aerospace Engineering
- ◉ Applied Mechanics
- ◉ Biotechnology
- ◉ Chemical Engineering
- ◉ Civil Engineering
- ◉ Computer Science and Engineering
- ◉ Electrical Engineering
- ◉ Engineering Design
- ◉ Mechanical Engineering
- ◉ Metallurgical and Materials Engineering
- ◉ Ocean Engineering

### Science Departments

- ◉ Chemistry
- ◉ Humanities and Social Sciences
- ◉ Management Studies
- ◉ Mathematics
- ◉ Physics

## DEGREE PROGRAMMES

- ▶ 4-year Bachelors' (23% of the student body)
- ▶ 5-year Dual-Degree (integrated Bachelors' & Masters' by coursework) (22%)
- ▶ 5-year integrated M.A., M.Sc.; 2-year Masters': MBA, M.Sc., M. Tech (21%)
- ▶ Research-based: Masters' by Thesis (11%); Ph.D. (23%)

### Mission

*Excellence in Teaching - developing human resources in the service of the nation, research, consultancy, and help to improve technical education in the country.*

### Vision

*To be an academic institution in dynamic equilibrium with its social, ecological and economic environment striving continuously for excellence in education, research and technological service to the nation .*

## RESEARCH FACILITIES

### Interdisciplinary Research Areas

- ◉ Energy Technology
- ◉ Communication Technology
- ◉ Materials Technology
- ◉ Design and Manufacturing
- ◉ Infrastructure Technology
- ◉ Environmental Technology
- ◉ Biomedical
- ◉ Computational Science and Engineering

### Major Research Facilities

- ◉ Centre for Computational Fluid Dynamics
- ◉ Centre for Non-destructive Evaluation
- ◉ Centre for Nanotechnology
- ◉ Materials Science Research Centre
- ◉ National Centre for Catalysis Research
- ◉ National Centre for Combustion R&D
- ◉ Sophisticated Analytical Instrument Facilities
- ◉ High Performance Computing: Super Cluster Virgo
- ◉ DST Thematic Unit of Excellence on Clean Water Using Nanotechnology
- ◉ Around 100 Labs



### Other Centers & Facilities

- ◉ Industrial Consultancy and Sponsored Research
- ◉ Indo-German Centre for Sustainability
- ◉ IITM Research Park (first of its kind in India; adjacent to campus; Phase I completed & fully-occupied; Phase II launched in December 2012 with St Gobain Research as anchor client)
- ◉ Centre for Innovation (Alumni-funded)
- ◉ China Studies Centre
- ◉ Central Electronics Centre
- ◉ Centre for Social Innovation and Entrepreneurship
- ◉ 3 incubators on campus
- ◉ Healthcare Technology Innovation Centre
- ◉ Center for Continuing Education (houses NPTEL- National Program on Technology-Enhanced Learning)
- ◉ Office of International & Alumni Relations
- ◉ Centre for Comparative EU Studies, HSS

## HIGHLIGHTS

### Research Accomplishments

- Total Research Funding: \$ 47M (\$ 36M for sponsored research) in 2011-12, up by 2X from 2009-10
- 67% increase in intake of M.S. & Ph.D. scholars in past 7 years; > 100% increase in number of Ph.D.'s awarded annually
- **Science stream:**
  - 2.5 journal publications per faculty in 2012
  - Citations: 3,000
  - h-index: 21
- **Engineering/ Technology stream:**
  - 1.0 journal publications per faculty in 2012
  - Citations: 1,800
  - h-index: 14.5

### International Profile

- Office of Dean, International & Alumni Relations, established in Oct 2012
- More than 150 MOU's with institutions around the world
- More than 200 faculty members engaged in active research collaboration with colleagues abroad
- Annually, more than 50 research scholars on exchange visits
- More than 30 UG students on foreign internships
- More than 100 foreign students on campus every year
- Joint doctorate with NUS in Singapore, NTHU in Taiwan, Swinburne University in Australia and University of Passau in Germany. Few others (USA, Germany & Australia) in the offing
- Erasmus Mundus Consortium 2012-2013 partnerships,
  - GATE (<http://www.jku.at/gate/content/>)
  - Heritage (<http://www.heritage-ema2.eu/>)
  - IBIES([www.erasmus.iescp.net](http://www.erasmus.iescp.net))
  - Svaagata.eu (<http://www.svaagata.eu/index.php/about-us>)

## RANKING

- Ranked among the world's top 100 institutes in six subjects in the 2013 QS World University Rankings by Subject
- Civil Engineering ranked #46 in the world
- Chemical, Electrical & Mechanical Engineering ranked between 51-100
- Math dept among top 2 in India
- Ranked # 1 in India in 2012 in Dataquest Survey of top Technology Schools



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