



Study in India Programme, Ministry of Education

Brief: India's Higher Education System, a step towards cooperation with Austrian Universities

Executing Agency





AGENDA





- Brief: India's HEIs
- India's Education System
- Focus areas in present trends
- Possible Cooperation
 Opportunities with Austria

Remarks

20XX Presentation title



Universities/ Institutions by TYPE of establishment Centrally Funded (by Parliament Act, UGC-MoE) State Legislature Govt. + Pvt. Deemed to be University (UGC Act) Govt. + Pvt.

INTRODUCTION

India's higher education is pursued after 12 years of Schooling, while the entry to schooling formal learning begins from age group of 5+ and entry to University education is by 18+.

The Higher Education is offered through the University system of Education

- ✓ Graduate 3-4 years, (for Medical 4 years + 1 year Internship)
- ✓ Post Graduate 2 years
- ✓ Doctoral 3-5 years

The Universities/ Institutions are based on Subjects of Studies viz., Engineering & Technology (IITs, NITs, IIITs, state level Universities), Agriculture, Biotechnology, Management (IIMs), General (offering arts, science, commerce, management etc.), Fisheries, Forestry, Petroleum, Marine, Arts & Music, & many more.





Indian Education System

Secondary

Middle

Preparatory

Foundational

12 years of Schooling System 3 Years (Class 6 to 8) (Age 11-14) 3 Years (Class 3 to 5) (Age 8-11) years (Class 1 & 2) (Ages 6-8) years

> (Anganwadi/preschool/Balvatika) (Ages 3-6)

New pedagogical and curricular structure of school education (5+3+3+4): 3 years in Anganwadi/Preschool

Secondary Stage (4) multidisciplinary study, greater critical thinking, flexibility and student choice of subjects

Middle Stage (3) experiential learning in the sciences, mathematics, arts, social sciences, and humanities

Preparatory Stage (3) play, discovery, and activitybased and interactive classroom learning

Foundational stage (5) multilevel, play/ activitybased learning

Nalanda University

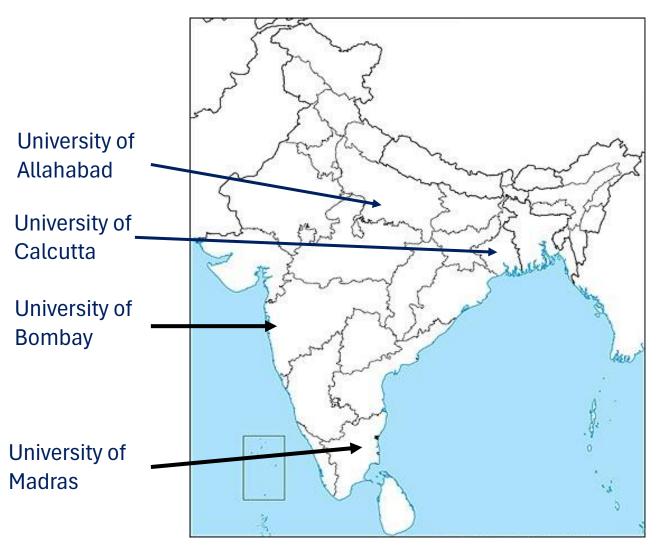
- Nalanda one of the oldest Buddhist University of 5th -6th Century
- Nalanda was a renowned Buddhist University which was situated in the ancient kingdom of Magadha, which is in present-day Bihar
- Nalanda was established it around the 5th or 6th century (by carbon dating)





Modern Educational Institutions | Universities







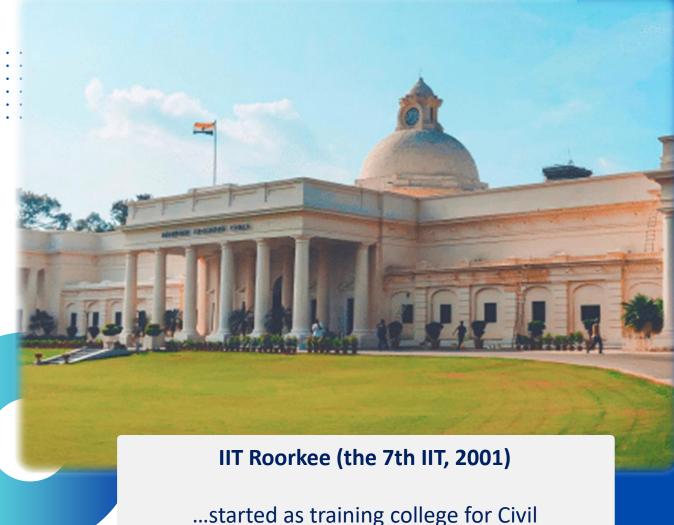
The University of Bombay, Calcutta, Madras was established on January 24th, 1857, followed by University of Allahabad 1858.

The Indian University Act 1904.



1st Engineering College, before India's independence (now IIT Roorkee)

- The 1st Engineering College was established in 1847 for training of Civil Engineers, the Thomason College of Civil Engineering, made use of large workshops, public building, that were erected for Upper Ganges Canal.
- Established by Lord Dalhousie
- 1949, renamed as University of Roorkee



Engineering

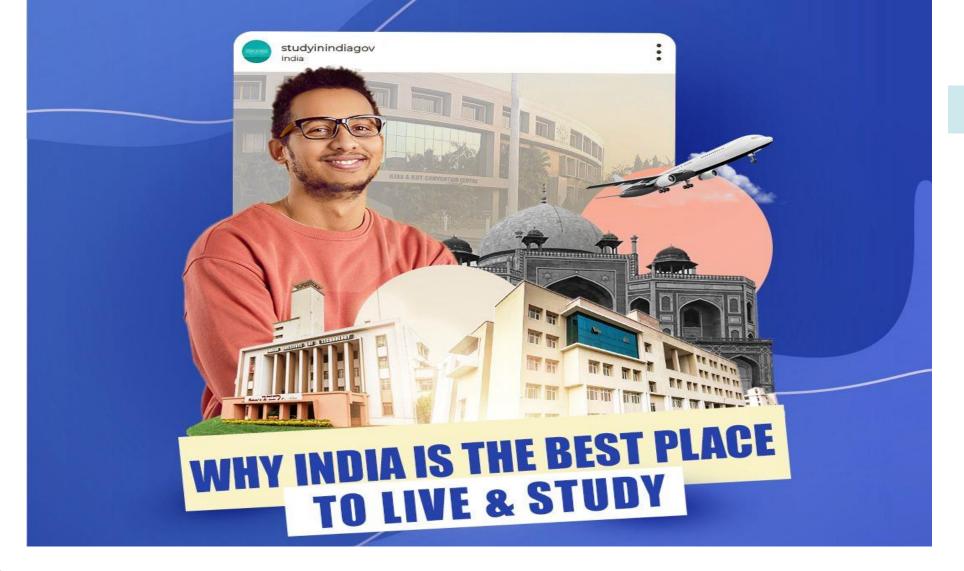


1st Technical institution in Independent India

- The development of higher educational institutes such as IITs took place in the mid 20th century, to promote technical education
- The 1st IIT established at Kharagpur in 1951, exclusive Engineering & Technology Institute







Organization of Higher Education in India

India's HEIs

Tota	I Number of Universities/ Institutions	1168	
	Number of Government Universities	685	
	Number of private (non-government)	473	
	Private Deemed Universities	10	
	Open Universities (including IGNOU, MoE)	18	
Disc	ipline wise Universities/ Institutions		
	General Universities (Arts, Science, Commerce etc.)	665	
	Technical – Engineering, Technology,	192	
	Medical Universities	29	
	Agriculture, Horti, Forestry, Veterinary	57	
• • •	Law & Judicial Sciences	27	
• • •	Languages – Sanskrit, English, Foreign Languages	27	
 IINV IN INNIA	Other specialized institutions	125	



- 12,002 standalone institutions
- 3301 Teacher Training colleges
- 3592 Nursing
- 327 Standalone Management Institutions
- 100+ institutions of other Ministries
- 758 Paramedical Institutions
- 59 Hotel Management & Catering Institutes



Globally ranked Institutions

- THE World University rankings 2024: Indian Institute of Sciences, Bangalore ranked between 201 to 250
- Universities ranking 501 to 600 include Anna University, Chennai, Mahatma Gandhi University, Kottayam, Shoolini University of Biotechnology & Management Science, HP
- QS world ranking 2025 for Universities
 - 69 Indian Universities secured position within 424
 - 12 Indian Institutes of Eminence (IoE) secured 47 positions in top 100

IIT Bombay IIT Delhi IIT Kharagpur IITM 118th 150th 222nd 227th



QS Ranking: Research & Collaboration







India's Global Average ranking in Asia is highest

10 Universities are ranked top in Asia

Anna University followed by IISc & IIT Guwahati

SPARC, Scheme for Promotion of Academic & Research Collaborations

- Improve the research eco system of India's higher education institutions between India's HEIs and best institutions in the world from 28 selected nations, jointly solve problems of national and international relevance
- Visits & long stay by faculty and researchers
- Joint development of niche courses, world class books, monographs, translatable patents, demonstrate technologies, action research
- Publication & disseminations
- Patent, products, scaled up pilot plants, demonstration

Higher Education Institutions (HEIs)

- Present enrolment in HE is 43.3 million students;
 - 79% in UG
 - 12% in PG (Master's degree)
 - 0.5% for PhD and in another major for sub-degree/ Diploma courses
- Majority of Undergraduate students are enrolled for:
 - Arts & Humanities (34%)
 - Science (15%)
 - Commerce (12%)
 - Engineering & Technology (12%)
- For Postgraduate/ Masters' Courses, popular disciplines are as follow
 - Social Science 21%
 - Science 15%
 - Management 14%
- While for PhD Courses, students prefer:
 - Science 21%
 - Engineering & Technology 25%

India is **World's 2nd large higher education system**having 58,000 HEIs

(in the last One-year 2400

are added)

Gross Enrolment in higher education is 28.4% (2022)



Top Indian-Origin CEOs

"It is important to follow your dreams and heart. Do something that excites you."

Sundar Pichai

Sundar Pichai

Satya Nadella

Arvind Krishna

Shantanu Narayen

Leena Nair

Nikesh Arora

Pawan Munjal

Jayshree Ullal

George Kurian

Laxman Narasimhan

Ajay Banga

Sanjay Mehrotra

Anjali Sud

Kris Singh

Google & Alphabet

Microsoft

IBM

Adobe Systems

Chanel

Palo Alto Networks

Hero Motocorp

Arista Networks

NetApp

Starbucks

President, the World Bank

Micron Technology

Vimeo

Holtech International





Scientists of India

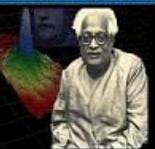
World Famous Indian Scientists Who Give new Dimension, Meaning and revolutionised World Science:



Jagadish Chandra Bose



Prafulla chandra



Satyendra-nath-bose Meghnath Saha





Prasanta Chandra Mahalanobis



Gopal-Chandra-Bhattacharya



Ananda Mohan Chakrabarty



Subhash Mukhopadhyay



CVRaman



HarGobind Khorana



Homi Jehangir Bhabha



Vikram Sarabhai



Subrahmanyan Chandrasekhar



Srinivasa Ramanujan



Ashoke Sen



Dr. Sankar Chatterjee



Vilayanur S. Ramachandran



Venkatraman Ramakrishnan



Jayant Vishnu Narlikar

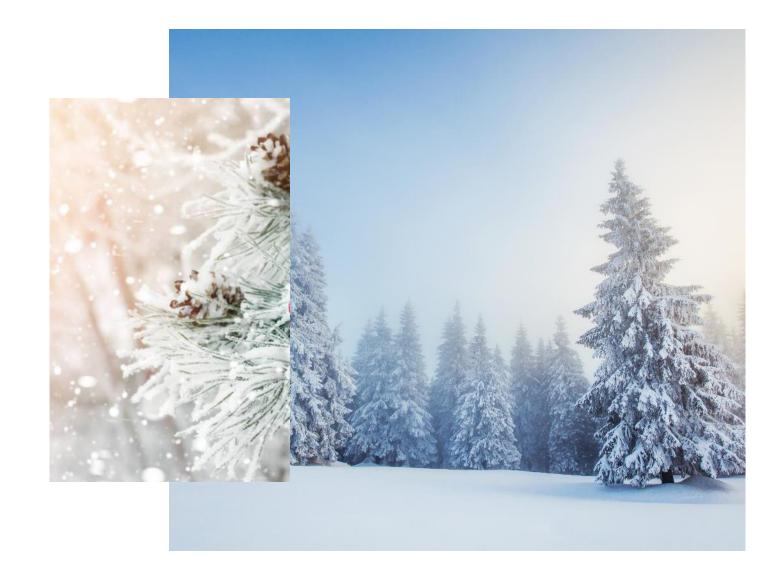


A. P. J. Abdul B. Kalam





Cooperation with AUSTRIA – INDIA, academic, research & beyond



Austria-India Academic, research & related

✓ Institutional Partnerships

Several Austrian universities have formal partnerships with Indian institutions

- ✓ Erasmus+ Mobility and Capacity Building
- ✓ Eurasia-Pacific Uninet (EPU)

EPU is a network that establishes contacts and scientific partnerships

- √ 'Focus India' Initiative
- ✓ International Institute for Applied Systems Analysis (IIASA), a platform for researchers to collaborate and develop technology products



https://www.youtube.com/watch?v=mo1GaxCFOSE

https://www.youtube.com/watch?v=VmTdN_3vYRo

Mozart, by an Indian

Indian & Mozart Fusion

