

Indian Institutes of Technology: Concept & Journey



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Engineering Education in India (1846-1947)

- Only about 30 odd colleges
- Initial British established colleges – land usage and management
- Several **privately** established engineering colleges even then!
- GER itself was very low (< 1%)
- Very few women

Seeding the IIT Concept

- Setting up 'Sarkar Committee' (1945-1948)
- A blue-print for 'post-war' development through setting up of IITs
- 'executives, researchers, teachers to be supplied by these HTIs'
- 'standard should be no lower than B.Sc (Tech) of Manchester or B.S. of MIT'
- 'to teach fundamentals so that students can apply in confidence many years later'
- Admission based on entrance test
- Recommendations are still followed by IITs!

Evolution of IITs

- Till 1980s – IIT 1.0 (Primarily UG Teaching)
- Next 25 years – IIT 2.0 (include Research)
- Subsequently – IIT 3.0 (industry connect & entrepreneurship)
- From 5 IITs to 23 now
- Still primarily STEM education centers
- One of the strongest BRAND value items from India

About IIT System

- Fully residential campus including staff and faculty
- 80% of infrastructure is non-academic (compared to about 20% globally)
- Strong emphasis on analytical skill development
- 24/7 learning opportunity
- Complete academic freedom for IIT admin
- Curricular freedom to students
- Quick curricular update – keeping pace with time
- Ample opportunities to leadership and other skill development
- Great alumni connect and support

IIT (Bombay) as a Brand

- Globally ranked 45 in engg & tech by QS
- Major contributions in the growth of Silicon Valley
- Pitch Book rating : 17 (#Founders – 551, #companies – 431)
- Ahead of NYU, CMU, Tsinghua, Toronto, Seoul NU (78)
- Other older IITs – within top 65!
- A large number of IIT alumni in the leadership role in companies as well as academia

Why such a brand name?

- Campus ambience
- Deep analytical skill set
- Intellectual and self confidence
- Great peer group
- Support from top administration
- Development of entrepreneurial ecosystem (School of Entp, Incubator, Translation Research Center & Research Park)
- Good funding support from Govt.
- Lateral diffusion of expertise to other colleges

Thank You

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