





भारतीय प्रौद्योगिकी संस्थान हैदराबाद Indian Institute of Technology Hyderabad

Outline

1. Institute Background 2. Core Programs 3. Engineering Science Program 4. Credit Requirements

1. Institute Background

- Established in 2008
 BTech, MTech and PhD programs in major engineering & science streams
- 3. Focus on Invention and Innovation in Teaching and Research
- 4. IIT Hyderabad ranked #10 in India in 20171

¹National Institutional Ranking Framework

2. Core Programs

 Engineering: Chemical, Civil, Computer Science, Electrical, Mechanical and Aerospace, Material Science

 Science: Chemistry, Mathematics, Physics

3. ES Program Objectives

- Interdisciplinary engineering program
- Emphasis on understanding and integrated application of engineering,

science and math principles

- 'T' structured education
 - First 2 years: broad exposure to core engineering and science streams
 - Next 2 years: specialize in core engineering streams OR in engineering science

3. ES Program Expected Outcomes

- Ability to apply acquired math, science and engineering skills to solve real-world engineering problems
- Ability to identify, formulate and solve multi-disciplinary engineering problems
- Ability to work well in inter-disciplinary teams with focus on system integration

3. ES Program: First 2 Years (65 credits)

- Courses from all core engineering and science disciplines
- Provides breadth education
- Enough time and exposure to make informed decision on core specialization

3. ES Program: Core Choice

ES students:

- choose their specialization at the end of their fourth semester
- can specialize in any of the core engineering disciplines²
- can choose to continue in the ES program as well

²depending on class rank

3. ES Program: Core Choice

 No more than 25% of the incoming class can move to a given core engineering discipline

Core engineering discipline allotted based on CGPA and student choice 3. ES Program: Final 2 Years (Core, 60 credits)

- Covers core engineering subjects
- Provides depth education
- Material covers GATE
 syllabus ³

³core material

3. ES Program: Final 2 Years (ES, 60 credits)

 Flexible program – breadth/depth
 Opportunity for interdisciplinary skill development

4. Credit Requirements

Coursework	Credits
Core Engg Electives	33 (across two years)
	– Min. of 6 credits from 4 departments
	– 9 remaining credits from any department
	– 9 credits from advanced (4th year) courses
Free/Science Electives	9 (across two years) ≈ 2.25/semester
LA/CA Electives	6 (across two years) ≈ 1.5/semester
Project	12 (across two years) = 3/semester