Outline

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

Institute Background

1. Established in 2008
2. BTech, MTech and PhD programs in major engineering & science streams
3. Focus on Invention and Innovation in Teaching and Research
4. IIT Hyderabad ranked #7 in India in 2016[1]

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[1] *National Institutional Ranking Framework*

Core Programs

- Engineering: Chemical, Civil, Computer Science, Electrical, Mechanical and Aerospace, Material Science
- Science: Chemistry, Mathematics, Physics

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

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

ES Program: First 2 Years

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

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*

ES Program: Final 2 Years (Specialization)

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

[3] core material

ES Program: Final 2 Years
(without specialization)

- Flexible program – breadth/depth
- Opportunity for interdisciplinary skill development

ES Program: Final 2 Years
(without specialization)

Core Engg Electives	34 (across two years) -- Min. of 6 credits from 4 departments – 10 remaining credits from any department -- 9 credits from advanced (4th year) courses 12
Free/Science Electives	(across two years) = 3/semester
LA/CA Electives	8 (across two years) = 2/semester
Project	12 (across two years) = 3/semester