

Exploring engineering

17 faculty were involved in the discussion

Exploring Engineering (2016)

- EE1: What do Engineers do?
 - Part 1: What is Engineering
 - Part 2: Interdisciplinary nature of engineering?
- EE2: Engineer as a Designer: Part I & Part II
- EE3: Hands on Engineering (Part I and Part II)
- EE4: Maths & Science in Engineering (Part I Part 2)
- EE5: Materials Matter: Part I & Part II
- EE6: Electrifying the world: Part I & Part II
- EE7: Taming Nature: Part I & Part II
- EE8: Know the Curriculum & Discipline: P1, P2 & P3

Total hours: approx 3 hours for all the modules=24 (8x3)

Exploring Engineering (Proposed)

- **E1:** EE1+ EE2: **Role of Engineer as a Designer**
 - Two sessions S1 and S2 (1.5 hr each)
- **E2:** EE3: Hands on Engineering
 - Three sessions: S1, S2 and S3 (1.5 hr each)
- **E3:** EE4: Maths & Science in Engineering
 - Two sessions: S1 and S2 (1 hr each)
- **E4:** EE5: Materials Matter
 - Two sessions : S1 and S2 (1 hr each)
- **E5:** EE6+ EE7: **Grand challenge**
 - Three sessions S1 (1 hr), S2 (0.5 hr) and S3 (1hr)
- **E6:** EE6: **Achieving your career goal**
 - Two sessions S1 and S2 (1.5 hr each)

Total hours: $17=3+4.5+2+2+2.5+3$

Execution: E1 (S1)-> E1(S2)-> **E5(S1)**->E2(S1)->E2(S2)->E2(S3)->E3(S1)->E3(S2)-> **E5(S2)**->E4(S1)-> S4(S2)-> **E5(S3)**->E6(S1)->E6(S2)

- Most of the activities are hands on with less involvement from faculty