Academic Opportunities

Flexiblity

Individualised Learning

CHOOSE YOUR OWN CURRICULUM

B.TECH

Departmental Specialisation
Minor Area Specialisation

PERFORMANCE LINKED OPPORTUNITY

Option

- If you are doing well and interested, you can take additional credits to add value to your B.Tech degree.

- Value translates to
  - Opportunities to work on challenging industrial projects
    - Industrial Landscape is changing
  - Start-ups
  - Pursuing career in research and education

Add-on

- You can make use of these additional credits in blocks of 20 credits to opt for Minor/Interdisciplinary Area Specialisation Departmental Specialisation/
- Mentioned on the degree.
- A student can utilise 10 credits OC for these purposes

You have to do only 10 additional credits

Departmental Specialisation

- Advance Electives
- A project of 6 to 8 credits

- All options same for EE1 and EE3 students

For interested students in particular

EE Department Offered Options

- Specialisations
  - Systems and Control
  - Appliance Engineering
  - Smart Grid and Renewable Energy
  - Energy efficient Technologies
  - Electric Transportation
  - VLSI and Embedded systems
  - Nano-electronic and photonic systems
  - Cognitive and Intelligent systems
  - Communication Systems and Networking
  - Information Processing
- Inter-disciplinary:
  - Robotics

To create mechanisms for our UGs to join and complete post-graduate programmes in fast-track mode consuming less time

SEAMLESS INTEGRATION WITH POST-GRADUATE PROGRAMME

Dual Degree (B.Tech + M.Tech)

- M.Tech in 5 years
- Can join at the end of third year
- Need to additional 51 credits
  - Use 10 OC credits for M.Tech requirement
    - Effectively additional 41 credits
- Use your option of departmental specialisation electives to decide on M.Tech
  - These credits will count towards M.Tech

Design Credits

- Use Design credits to explore areas
  - Projects in IIT or otherwise
    - Second Year Onwards
  - Any innovative out-of-the box idea can be pursued
    - No Challenge of Grades
    - Explorations can tell you what you want to learn more

Flexibility

M.TECH

Structure & Philosophy

- Enabling Core
- Streams for focussed learning
- Projects for Scientific Exploration and Innovation
  - More Project Credits
- Mid-course Conversion into Ph.D
- Option for M.Tech with or without dissertation

PE

- A student has to choose from one of the five possible streams in the programme:
  - Cognitive and Intelligent Systems (CIS),
  - Embedded Intelligent Systems (EIS),
  - Computer Communication and Networks (CCN),
  - Multimedia Information Processing (MIP)
  - Internet Technologies (IT)
- *Stream Core*

THANK YOU

ACTION POINTS

Electrical

- Departmental Option of running dual degree programme for JEE entry students
- Restructuring of B.Tech Programme
- Outline of Introduction to Electrical Engg

Dual Degree

- Departmental Option of running dual degree programme for JEE entry students
- Restructuring of Integrated M.Tech programme
- Detailed Credit Requirements for Dual Degree in sync with 2 year PG programme

Departmental Component

- Specification of Departmental Programme
  - Courses and Credit Structure
- Formulation of the Departmental Specialisation programme
- Offering of Minor Areas and Interdisciplinary areas

Institute Core

- Finalisation of Credit Distribution and formulation of Courses
- Identifying bouquet of Courses and their structure for programme linked BS and EAS courses
- Identifying bouquet of Courses and their structure for HM

Non-graded Core

- Detailed management and delivery process specification for each of Non-graded core component

Scheduling of Courses

- Distribution of credits per semester
- Semester wise scheduling of courses
- Slotting Pattern

Course Content Design

- Fresh Look at courses
  - Overlap issues
- Issues about tutorials and help sessions
- Restructuring the template
  - Design Experience & Communication Skill component

Rules & Regulations

- Per semester minimum credit requirement
- Rules for permissible additional credits for students
  - Re-examine senate approved rule (part of concept paper)
- Identification of Students under probation and termination
- Continuation and entry to Dual Degree

Miscellaneous Issues

- Graduation Requirement
  - DGPA
- Grading Scheme – to have a fresh look?
- Incentives for innovation in course and laboratory courses
- TA utilization scheme

THANK YOU