

QEEE Next

- Coursepack re-runs
- Faculty Training
- Minors
- Project based learning
- Hackathon
- Spark Courses
- Mentors

Coursepack Re-runs

- Digital assets (Coursepack) of over 140 topics
- Coursemap view of digital assets on qeee.in
- Colleges can use these assets to teach students at their convenience
- Proctored quiz and proctored assignment to be submitted by students
- Faculty Training is based on Coursepack Re-runs

Faculty Training

- In order to enhance the pedagogical skills and domain knowledge, few senior IIT faculty will re-run the Coursepack content to local faculty
- The training is a remote session for 2 hrs.
- Local faculty can deliver these courses at their convenience in their colleges
- Students to take up the given proctored assessments
- Local faculty will be duly recognized by QEEE

Minors

- A set of theory topics along with a project activity are grouped together to form a specialization or Minor
- The theory topics can be from Coursepack reruns/MOOC/QEEE regular.
- The theory topics are self-study modules (through Coursepack) with proctored quiz to be administered by local faculty.
- Project activity will be designed by IIT Faculty and conducted by local faculty. Evaluation will be automated.
- A student who has completed all the topics and project will be awarded a Minor certificate.

Project based learning

- Hands on activities for students based on the learnt theory concepts
- A mandatory component of Minors
- Activities designed by IIT faculty and deployed on institute servers
- Individual efforts based program to stimulate problem solving
- Solutions are evaluated programmatically
- Promotes critical thinking and learning skills thus enabling deep conceptual learning for students

- Challenges
 - Automating evaluations
 - Identifying/Preventing mal-practices
 - Devising experiments to fit into this “pattern”

Hackathons

- Hackathons are breeding grounds for innovations
- Students learn to “think on their feet” and the art of working “in and as a team”
- Helps students to get introduced/learn a new skill
- How do we propose to do it.
 - Involve clubs from colleges
 - Work with volunteer clubs (5 colleges for one hackathon a good number?)
 - Bounce ideas off each another and select a topic
 - Prepare for the hackathon and DO IT.
 - For this session, we are looking at 5 colleges with software clubs to be part of the first hackathon organizing committee.
 - Each college’s institute server will be setup with some software which will be used for hackathons.

Spark Courses

- To ignite the young minds, sessions which deal with current industry trends, technologies, start-up experiences etc. are planned as Spark Courses.
- These flying sparks can ignite the passion for learning in students
- Focus on innovations, research trends, employability requirements

Mentors/Nodal Centers

- To extend QEEE to next level of colleges with the support of regional QEEE “partners”
- To expand QEEE by creating localized homogeneous program to address the specific requirements of Tier III colleges of particular university/state/region
- A joint effort of IITM QEEE and Mentors to lead the QEEE program for new colleges