



**National Program on Technology Enhanced Learning-NPTEL**

**A Project funded by MHRD, Govt. of India**

## **KJSIEITs LOCAL NPTEL CHAPTER( for Faculty and Students )**

### **Goal**

- To supplement the student learning in classroom
- To help faculty to refresh their knowledge.
- To improve the profile of students through IIT certifications.

### **The Context**

Faculty have always been referring to NPTEL lectures for refreshing their knowledge and for preparing for newly introduced subjects (e.g. MEMS) for which they did not have any background knowledge. We have always popularised MOOCS such as Coursera and EdX to enable students to obtain additional certification. The problems we faced were the random start dates of these courses and expensive certification. So when NPTEL, which relays courses conducted by venerable faculty from IITs and IISc, initiated certification for its courses, we took advantage of the opportunity and established a local chapter. The syllabus of NPTEL courses are designed specifically for students studying engineering in India. As the curriculum is almost the same in every college here in India. The start dates coincide with the semester dates of the University.

### **The Practice**

It is a partnership between KJSIEIT and NPTEL. KJSIEIT is approved as an NPTEL Local chapter from 2015. The Institute has a cache of 8 TB of NPTEL data which includes video and web courses. This is accessible to everyone in the Institute through the intranet. The course enrollment and learning is free and certification costs a nominal fee. The courses are of duration 10, 20, 30 or 40 hrs. Lessons and assignments are released every week. Also there is a discussion forum in which students can interact with the faculty member directly. At the end of the course, online exam is conducted for those who have opted for certification and the student gets a grade based on their performance in assignments and online examination.

There is a professor who acts as a single point of contact (SPOC) for IIT. We have constituted a team of faculty representatives from each department, who coordinate with NPTEL. These faculty members are responsible for publicity and enrolment. A faculty mentor of our Institute is assigned to every subject enrolled by the students. It is mandatory for the mentor to enrol for the course and attempt the assignments. Appearing for the final exam is optional for the mentor.

### **Course Statistics:**

- All the statistics pertaining to completed courses are available at <https://nptel.ac.in/noc/>.

All courses are completely free to enrol and learn from. The certification exam is optional and comes at a fee of Rs. 1000/course exam.

- **Certification process**

Certification process: NPTEL began the initiative of offering certification to students for courses in March 2014. The process of certification is as follows.

1. Subject Matter Experts (SME - faculty from IITs or partner institutes with input from industry) create recorded video content for courses.
2. The course is uploaded on the portal and opened for enrolments, which is free.
3. Every week, about 3 hours of video content is released along with an assignment, which is evaluated and provides the student with a score.
4. Teaching Assistants (TAs) and the faculty members support the discussion forum – answering questions and clearing doubts.
5. If someone wants to get a certificate from the IITs/IISc after doing the course, he/she should register for the in-person proctored certification exam that is conducted in 100+ cities across India in collaboration with an exam partner. The certification exam is not free but has a nominal fee of Rs. 1000.
7. These certificates are envisioned for use in credit transfer to universities or for making the student more employable or for enhancing his growth in his current place of work.