



National Program on Technology Enhanced Learning-NPTEL

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Model of Open Online Courses

Massive Open Online Courses (MOOC) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self assessment in regular intervals during learning.

The learning, through scheduling of fixed time duration for completion of courses and, therefore, the simultaneous participation of teachers and a large number of students may be termed synchronous and is thus similar to a classroom, albeit on the Internet and being much larger in size.

When offered with consideration for students in non-urban and rural areas through supplementary DVDs and mobile delivered content, they enable quality and equitable access to a much larger population of students and can lead to a significant rise in the Gross Enrollment Ratio.

These courses are open for anyone to access – at no cost. So anyone who is interested in learning gets access to quality content, which also includes discussion with the content creator and access to assignments for self testing.

The faculty who are currently offering courses are from the IITs or from other reputed institutes such as CMI, IMSc etc.

- **NPTEL Online Certification**

The objective of enabling students obtain certificates for courses is to make students employable in the industry or pursue a suitable higher education programme.

Through an online portal, 4-, 8-, or 12-week online courses, typically on topics relevant to students in all years of higher education along with basic core courses in sciences and humanities with exposure to relevant tools and technologies, are being offered. The enrolment to and learning from these courses involves no cost. Following these online courses, an in-person, proctored certification exam will be conducted and a certificate is provided through the participating institutions and industry, when applicable.

- **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 enrollments, which is free.
3. Every week, about 3 hrs 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.
6. Final score=25% assignment score + 75% exam score. **The pass criteria for exams is being changed from July 2019. A learner will pass and be certified only if Average assignment score (out of 100) >= 40 AND Final exam score (out of 100) >= 40.** E-verifiable certificates are made available on nptel.ac.in/noc Only e-certificates will be published. Hard copies of certificates will NOT be printed.
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.