



The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

Five core disciplines were identified, including engineering, life sciences and multidisciplinary and more than 270 courses in web/video format were developed in this program. An additional 600 web and video courses were created in all major branches of engineering, physical sciences at the undergraduate and postgraduate levels and management courses at the postgraduate level.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

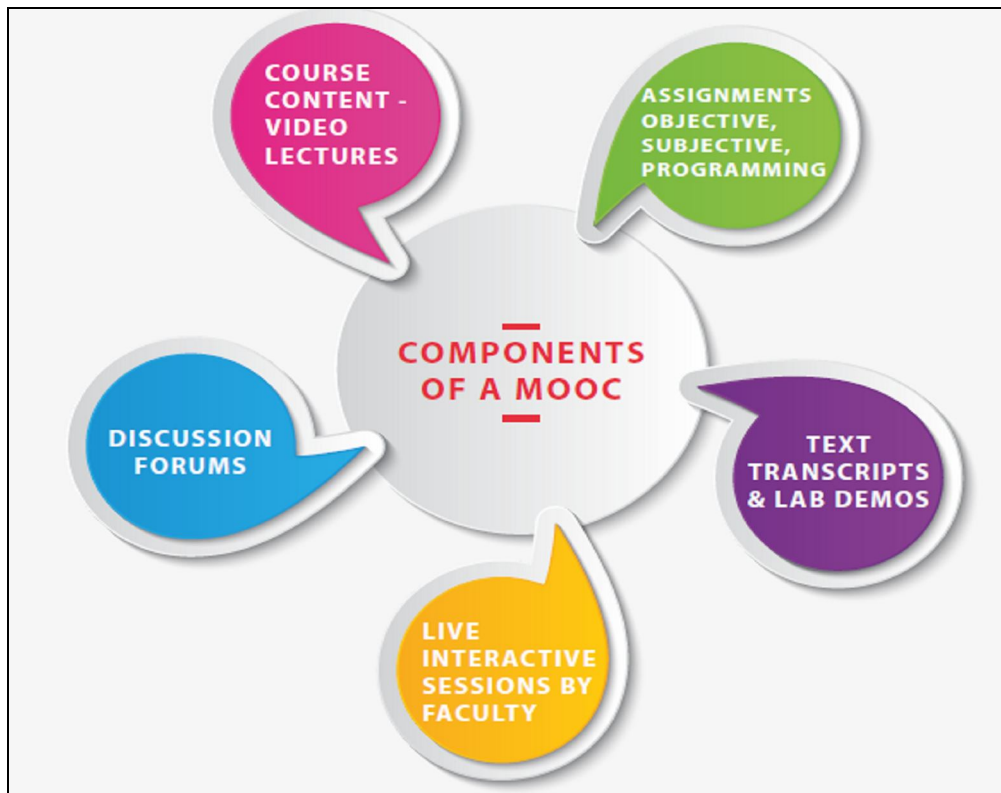
NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as **SWAYAM - NPTEL Local Chapter**.

Objectives of NPTEL (MOOC) 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 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.



Procedure:

The enrolment to and learning from these courses involves no cost.

Following these online courses, an in-person, proctored certification exam is conducted across 100+ cities within India 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.

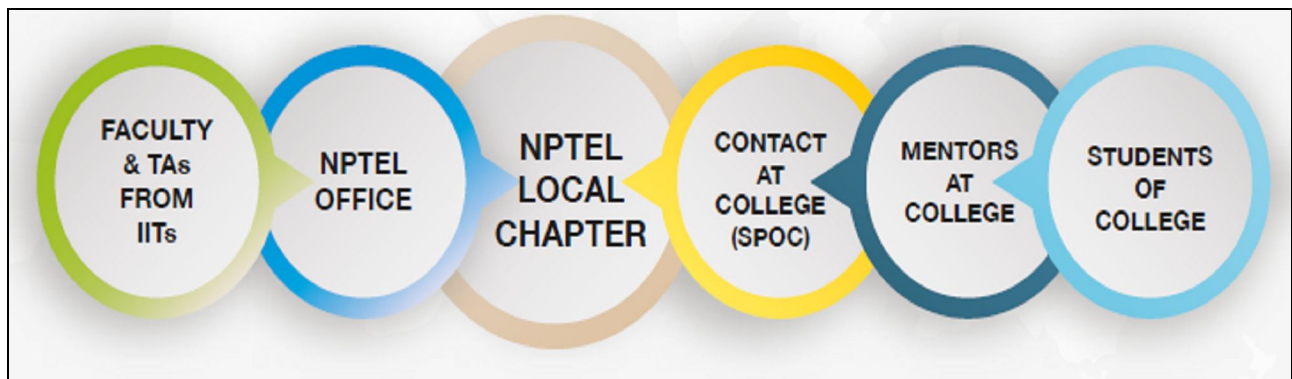
4. Teaching Assistants (TAs) and the faculty members support the discussion forum – answering questions and clearing doubts.

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.

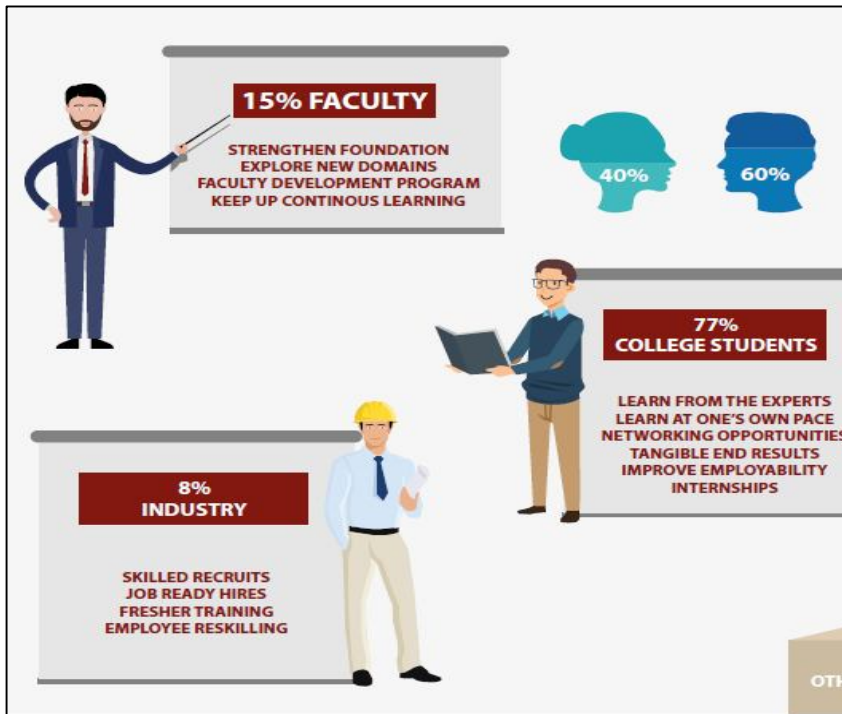
6. Final score=25% assignment score + 75% exam score. **The pass criteria for exams is being changed from July 2019. A learner will pass and be certified only if Average assignment score (out of 100) \geq 40 AND Final exam score (out of 100) \geq 40.** E-verifiable certificates are made available on 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.

Flow diagram:



Who can enroll?



Outcome:

1. Enables the student to directly engage and learn from the best faculty in the country in that particular subject. This strengthens the fundamentals of the student in the course
2. Gives the students the opportunities to explore new areas of interest – which are not possible in regular college environment. Also gives students the opportunity to learn in greater depth the subjects they wish to master. These courses are also serving as faculty development programmes (15-20% of enrollments are by faculty in different colleges).
3. The audience in a MOOC includes students spanning the length and breadth of India and a small fraction of foreign students. This mix of peer group gives the students a chance to assess where they stand with respect to this group of learners.
4. These courses also bring out the self-learning initiative of the students – where their own motivation is what drives them to complete the course and not external compulsions. This fosters the habit of keeping oneself updated always by means of self-study.
5. The certificates issued bear the stamp of CCE, IIT and hence are valuable additions when the student is applying for jobs.

6. Companies can also dig into this pool of candidates with specialized skills – in case they wish to recruit.

PES Modern College of Pharmacy, Nigdi, Pune -44 is one of the Active Local Chapter of NPTEL. The local chapter was started with the Jan –April 2018 courses and by this date the college retained its name in the Active Local Chapter list.

The Single Point of Contact to NPTEL is Dr. A. A. Phatak and he has secured continuously 3 times Active SPOC recognition from NPTEL.

The summary of College enrollment and Successful completion by the faculty and students for last three sessions of courses is as follows:

Sr. No.	Course session	No. enrolled	No. successfully completed	No. of Topers	No. of faculty as mentors	No. of courses participated
1.	Jan- April 2018	42	34	3	5	7
2.	June – Oct. 2018	24	20	4	1	9
3.	Jan- April 2019	47	45	2	1	10
	Total	113	99	9	7	26