

SOLAPUR UNIVERSITY, SOLAPUR

Integration of NPTEL Courses into Curriculum of Engineering & Technology



- **Preamble :** Globally, engineering education systems have continuously evolved, in order to address the needs of the industry and the society and India has joined this evaluation after signing the Washington Accord and adopting 'Outcome Based Education' system. Industry needs professionals who can work successfully in teams, who have leadership qualities, who are alive to social and community needs and who can bring innovation and creativity to their work. The student's learning outcomes recommended by National Board of Accreditation (NBA), India have captured these requirements as Program Outcomes related to skills, Attitude and Behavioral aspects of the graduate.

Similarly, the need for Self Learning increased in the recent years due to competition in the professional environment, and due to the need to continuously improve one's self. Self learning is learning with the aim of implementing the information into one's life; academic, professional or personal.

Realizing these two trends, Faculty of Engineering & Technology of Solapur University, Solapur has introduced two Self Learning Courses at Third Year of all Enquiring Undergraduate Programs since June 2014. The Self Learning Course at Third Year First Year comprises of Elective Courses allied to Humanities and Social Sciences, which are opted enthusiastically by students of all disciplines of engineering.

With the Third Year (TE) Curriculum Revision (from June 2018), Faculty of Engineering & Technology of Solapur University, Solapur is bringing one more reform as indicated by UGC – Introduction of NPTEL Courses.

NPTEL is an acronym for National Programme on Technology Enhanced Learning which is an initiative by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and Indian Institute of Science (IISc) for creating course contents in engineering, science and humanities. NPTEL provides Online Courses which are free for all and conducts certification exam for the courses for a nominal fee. (*more information can be located at www.nptel.ac.in*)

- Below are the Regulations regarding integration of NPTEL Courses into Curriculum of Faculty of Engineering & technology at Solapur University, Solapur-
 1. The said regulations will be in effect from Academic Year 2018-19 and will be applicable to all Undergraduate (UG) Engineering programs

2. The integration of NPTEL into TE curriculum is only limited to Self Learning Course (HSS) offered at TE Semester I. Student has to undertake Self Learning Course (Technical) at TE Semester II as per specified in respective TE curriculum.

3. For TE Semester I -

A. Student can select a Self Learning Course from Solapur University, Solapur HSS Course List and appear for its examination as and when conducted by Solapur University, Solapur

OR

B. Student can enroll for NPTEL course, complete its assignments and appear for certificate examination as and when conducted by NPTEL

4. In case student selects option B (NPTEL) as specified in Clause 3 above –

i. Student has to select NPTEL course available during time frame (July-November) and from domain of Humanities and Management only. A comprehensive list of all permissible NPTEL Courses will be declared by University. This list may be modified /appended each year appropriately by University authorities time to time. Student must select a course from this list only.

ii. It will be sole responsibility of the student to enroll for said NPTEL Course, take the course, complete the assignments allotted by NPTEL and appear for Final Certification Examination conducted by NPTEL.

iii. The total marks scored by student in NPTEL Certification will be scaled to 'out of 50' as required by marking scheme of Self Learning Course at Semester I. These marks and necessary credits will then be transferred to student's Solapur University Marklis for the head of 'Self Learning Module I (HSS)'

iv. In case, student fails/ not able to complete NPTEL course successfully –

A. He may appear for regular Self Learning Course Module I (Clause 3.A) examination conducted by Solapur University Solapur in April/ May. Hence every student must fill examination form for Self Learning Course offered by Solapur University, Solapur, irrespective of whether he is selecting option 3.A or 3.B

OR

B. He may select same/ new NPTEL course in Semester II and complete it successfully with examination in TE Semester II. However this NPTEL course must be from domain of Humanities & Management and shall be from list of all permissible NPTEL Courses declared by University authorities.

- v. If students fails to successfully complete Self Learning Course I (through iv.A or iv.B) the failure will be counted as a failure in one passing head of TE and all rules and regulations of Solapur University, Solapur will be applicable for the same.
- vi. Student must complete Self Learning Course (HSS) through 3.A or 3.B for award of degree
- vii. Every college must submit the list of the TE students along with the NPTEL course selected to the university at the commencement of every semester
- viii. Every college must submit photocopy of NPTEL certificates to University for all students who have successfully completed NPTEL Course immediately after declaration of NPTEL examination results to enable necessary mark and credit transfer
- ix. While allowing the online learning courses offered by NPTEL, every college shall ensure that the physical facilities like laboratories, computer facilities, library etc, essential for pursuing the courses shall be made available free and in adequate measure to the students.
- x. Every college must designate a course coordinator/facilitator to guide the students throughout the course and to facilitate/conduct the lab/practical sessions/examinations.
- xi. Any expanses towards final NPTEL examination shall be born by the student. Solapur University will not be responsible for any such expanses made by student or college.
- xii. Course coordinator shall motivate maximum students for enrolling for NPTEL Courses and shall also take efforts to obtain NPTEL scholarship for maximum students

This document prepared by Dr. S.R. Gengaje, V0.3, May 14, 2018