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Credit Transfer from NPTEL Courses to Self Learning Module II(Technical Courses) at T.Y. B.Tech. Part II for all Branches 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 evolution 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 knowledge, skill 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 PAH Solapur University, Solapur has introduced two Self Learning Courses at Third Year for all Undergraduate Programs in Engineering and Technology since June 2014. The Self Learning Course at Third Year comprises of Elective Courses allied to Humanities and Social Sciences at First Semester and Technical Courses at Second Semester which are opted enthusiastically by students of all disciplines of engineering.

From June 2018, Faculty of Engineering & Technology of PAH Solapur University has integrated NPTEL courses into curriculum and has implemented credit transfer from NPTEL courses to Third Year at Sem. I. Self Learning Subject allied to Humanities and Social Sciences for all Undergraduate Programs in Engineering and Technology.

Now from June 2020, further PAH Solapur University is augmenting the integration of NPTEL courses into curriculum of Engineering & Technology allowing credit transfer from NPTEL courses to Third Year Sem. II Self Learning (Technical Subject) for all Undergraduate Programs in Engineering and Technology. This document presents the regulations for the same. Please note that these regulations are in addition to the regulation of credit transfer from NPTEL to Self Learning subject at Third Year Sem. I published in June 2018.

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 augmenting the integration of NPTEL courses into curriculum allowing credit transfer from NPTEL courses to Third Year Sem II Self Learning Technical Subject for all Undergraduate Programs in Engineering and Technology.
 1. The said regulations will be in effect from Academic Year 2020-21 and will be applicable to all Undergraduate (UG) Engineering programs i.e. B.Tech. programs
 2. For TY Semester II -
 - A. Student can select a Self Learning Course from PAH Solapur University, Solapur Technical Course List given in curriculum and appear for its examination as and when conducted by PAH 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
 3. In case student selects option B (NPTEL) as specified in Clause 2 above –
 - i. Student has to select NPTEL course available during time frame (January-April). A comprehensive list of all permissible NPTEL Courses will be declared by Chairperson / Coordinator, Board of Studies of concern branch. This list may be modified /appended each year appropriately by University authorities time to time. Student must select a course from this university approved list only.
 - ii. It will be sole responsibility of the student to enroll for said NPTEL Course, take the course, complete the assignments specified 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 II. These marks and necessary credits will then be transferred to student’s PAH Solapur University Mark list for the head of ‘Self Learning Module II (Technical)’
 - iv. In case, student fails/ not able to complete NPTEL course successfully, he may appear for regular Self Learning Course Module II (Clause 2.A) examination conducted by PAH Solapur University Solapur at the end of the Sem II. Hence every student must fill examination form for Self Learning Course offered by PAH Solapur University, Solapur, irrespective of whether he is selecting option 2.A or 2.B

- v. If students fails to successfully complete Self Learning Course II (through NPTEL or university examination) the failure will be counted as a failure in one passing head of TY and all rules and regulations of PAH Solapur University, Solapur will be applicable for the same.
- vi. Student must complete Self Learning Course (HSS) through 2.A or 2.B for award of degree
- vii. While preparing the recommended NPTEL course list the BOS chairman / coordinator shall follow below guidelines
 - a. The course must be from the technical domain related to the branch of study
 - b. The course must be of minimum eight week duration
 - c. The major course content shall not be part of any regular subject of the curriculum of the branch of study from first year to final year. The purpose of introducing Self Learning Subject is to nurture self learning ability of the student.
- viii. Every college must submit the list of the TY students along with the NPTEL course selected to the university at the commencement of second semester
- ix. 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
- x. 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.
- xi. Every college must designate a course coordinator/facilitator to guide the students throughout the course and to facilitate/conduct the lab/practical sessions/examinations.
- xii. Any expenses incurred towards final NPTEL examination shall be borne by the student. PAH Solapur University will not be responsible for any such expenses made by student or college.
- xiii. Course coordinator shall motivate maximum students to enroll for NPTEL Courses and shall also take efforts to obtain NPTEL scholarship for maximum students

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