

E-RESOURCES UNDER NPTEL COURSES: A STUDY OF NEP-2020 KEY COMPONENTS IN FACILITATING EDUCATIONAL E-RESOURCES

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Abstract:

SWAYAM (Study Webs of Active–Learning for Young Aspiring Minds) It was launched on 9th July 2017 by Honorable President of India. NPTEL is one of the national coordinator of SWAYAM in providing the courses. This paper studies technology and enhanced technology learning with special reference to NPTEL which is a key component of NEP-2020 provides e-resources for the learner's. This paper is a small part of Ph.D. research study. NPTEL courses covers video lecture, specially prepared reading material that can be downloaded/printed, self-assessment tests through tests and quizzes and an online discussion forum. Links, transcripts also provided under this courses.

Key words : SWAYAM, NPTEL

Introduction :

SWAYAM (Study Webs of Active–Learning for Young Aspiring Minds) It was launched on 9th July 2017 by Honorable President of India. NPTEL is one of the national coordinator of SWAYAM in providing the courses. In this paper researcher mainly focused on E-resources comes under SWAYAM which is a key component of NEP- 2020.

Objectives:

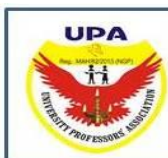
To find out how many courses available on different subjects.

To find out E-resources comes under NPTEL courses comes under SWAYAM which is a key component of NEP-2020.

Scope: Study is limited to NPTEL course 232 out of 587 courses. (30% courses) under SWAYAM.

Research Methodology: Collecting information from the SWAYAM portal. Data is collected from the internet.

Under SWAYAM portal NPTEL coordinator provides 587 courses out of which in this paper 232 (30%) courses have taken for study. All data is studied from the July 2023 session of



SWAYAM. All subjectwise e-resources provided under main nine subject is given below tables.

TABLE NO. 1 -ENGINEERING

Total No. of courses	Assignments	Transcripts	Books	Videos
137	58	101	70	106

Table no. 1 shows under SWAYAM portal NPTEL co ordinator provides 137 courses of Engineering subject. In Engineering Assignments-58, Transcripts-101, Books-70, Videos-106 All these e-resources are in downloadable form. It is found that Videos are found in more number and Assignments are found in less courses.

TABLE NO. 2- CHEMISTRY

Total No. of courses	Assignments	Transcripts	Books	Videos
9	4	9	6	8

Table no. 2 shows under SWAYAM portal NPTEL co ordinator provides 9 courses of chemistry subject. In chemistry Assignments-4, Transcripts-9, Books-6, Videos- 8 All these e-resources are in downloadable form. It is found that Videos are found in more numbe and Assignments are found in less courses.

TABLE NO. 3- MULTIDISCIPLINARY

Total No. of courses	Assignments	Transcripts	Books	Videos
7	3	5	4	5

Table no. 3 shows under SWAYAM portal NPTEL co ordinator provides 7 courses of multidisciplinary subject. In multidisciplinary Assignments-3, Transcripts-5, Books-4, Videos- 5 All these e-resources are in downloadable form. It is found that Videos are found in more number and Assignments are found in less courses.

TABLE NO. 4- HUMANITIES AND SOCIAL SCIENCES

Total No. of courses	Assignments	Transcripts	Books	Videos
26	9	15	13	19

Table no. 4 shows under SWAYAM portal NPTEL co ordinator provides 26 courses of Humanities and Social Sciences subject. In Humanities and social sciences Assignments-9, Transcripts-15, Books-13, Videos- 19 All these e-resources are in downloadable form. It is found that Videos are found in more number and Assignments are found in less courses.

TABLE NO. 5- LAW

Total No. of courses	Assignments	Transcripts	Books	Videos
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2	2	2	2	2
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Table no. 5 shows under SWAYAM portal NPTEL co ordinator provides 2 courses of Law subject. In LawAssignments-2, Transcripts-2, Books-2, Videos- 2 All these e-resources are in downloadable form.

TABLE NO. 6- MATHEMATICS

Total No. of courses	Assignments	Transcripts	Books	Videos
17	8	13	9	14

Table no. 6 shows under SWAYAM portal NPTEL co ordinator provides 17 courses of Mathematics subject. In MathematicsAssignments-8, Transcripts-13, Books-9, Videos- 14 All these e-resources are in downloadable form. It is found that Videos are found in more number and Assignments are found in less courses.

TABLE NO. 7- MANAGEMENT

Total No. of courses	Assignments	Transcripts	Books	Videos
20	16	13	12	16

Table no. 7 shows under SWAYAM portal NPTEL co ordinator provides 20 courses of Management subject. In ManagementAssignments-16, Transcripts-13, Books-12, Videos- 16 All these e-resources are in downloadable form. It is found that Videos are found in more number and Assignments are found in less courses.

TABLE NO. 8- PHYSICS

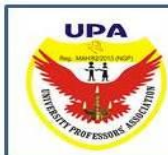
Total No. of courses	Assignments	Transcripts	Books	Videos
8	4	4	2	4

Table no. 8 shows under SWAYAM portal NPTEL co ordinator provides 8 courses of Physics subject. In PhysicsAssignments-4, Transcripts-4, Books-2, Videos- 4 All these e-resources are in downloadable form. It is found that Videos and Assignments are found in same number of courses.

TABLE NO. 9-OTHER

Total No. of courses	Assignments	Transcripts	Books	Videos
6	4	5	3	6

Table no. 9 shows under SWAYAM portal NPTEL coordinator provides 137 courses of other subject. In otherAssignments-4, Transcripts-5, Books-3, Videos-6 All these e-resources are in downloadable form. It is found that Videos are found in more number and Assignments are found in less courses.



Conclusion:

NPTEL courses under SWAYAM which is a key component of NEP-2020 provides educational e-resources is available in many languages. English is one of the language which knows all. From 232 courses there is 137 courses are available on Engineering, 9 courses on Chemistry, 7 courses on Multidisciplinary, 26 courses on Humanities, 2 courses on Law, 17 courses on Mathematics, 20 courses on Management, 8 courses on Physics, 6 courses on others (Psychology, Architecture planning, Economics, Health Science). From all subjects Videos are found in more numbers in downloadable e-resources and Assignments are found in less courses.

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