

A Study on Awareness and Satisfaction towards Nptel Courses with Special Reference to Coimbatore City

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Abstract

Smart education is one of the integral parts of the E-learning platform. Many educational Institution are widely available in E-learning system. In our country it plays a vital role towards online education. NPTEL is one of the leading certified courses on online platforms for E-learning. This study was about awareness and satisfaction level of NPTEL course on students and Faculties. Number of respondents as samples is 120. The Survey focusses on the satisfaction level and knowledge acquired by the students through E-learning provided by NPTEL.

Keywords: NPTEL courses, Awareness, Satisfaction

Introduction

E-learning refers to a learning system that we can obtain through the internet using an electronic device. We also call it online learning or online education. The 'E' in E-learning stands for 'Electronic'. Hence, the original term was Electronic learning. 'The word 'online,' in this context, means with an Internet connection or via the Internet, refer to a network that can provide knowledge and skills to one or more individuals.

E-learning through NPTEL

National Programmed on Technology Enhanced Learning (NPTEL) is an

initiative funded by Ministry of Human Resource and Development, Government of India and coordinated by IIT Madras and other IITs. The project's central idea is to put recorded lectures taught by its member institutes in online for open access. It is the most extensive educational YouTube channel covering engineering, basic sciences, and some humanities and social sciences subjects.

NPTEL was initiated in 2003 by seven IITs (Bombay, Delhi, Kanpur, Kharagpur Madras, Guwahati and Roorkee) and Indian Institute of Science (IISc). Since March 2014, NPTEL began offering online courses along with certificates to those who completed the courses successfully.

Statement of the problem

This NPTEL course was only meant for literate people in urban Areas. NPTEL course rarely be utilized in rural areas due to broadband service. Though people in urban area was aware of NPTEL certification course but they are trying to utilize the same. Due to Pandemic situation student's community was not much interested to prefer online courses because they have been pushed to attend regular online classes in academic institutions. So, this was the problem faced by the students.

Objectives of the study

- To study about the demographic profile of the respondents.
- To know the awareness among students about NPTEL course.
- To know the satisfaction level among the students about NPTEL course

Hypothesis

H₁-There is significant relationship between the gender of the respondents and their enrolment to NPTEL course.

H₁-There is significant relationship between qualification of the respondents and the number of NPTEL courses enrolled.

Limitation of the study

- The respondents were restricted only to students.
- The research was carried out in a short period of time.
- Limited sample size 120 respondents.

Review of literature

ARUN M. SHERRY (2010) the author highlighted various benefits of distance mode of education and elaborates on how in a globalised society like that of India, the need for quality based higher education through distance learning mode is on constant rise. The author also examines various factors that are contributing to the growth of management education through distance learning.

BN KSHIRSAGAR, a senior MIT faculty member "NPTEL is an online portal of Indian government, which facilitates students and faculty to take online courses in engineering and science through E-learning. The students and staff participate in different courses

of NPTEL in each semester for knowledge enhancement,".

KRISHNAN (2009) revealed that - the National Programme on Technology Enhanced Learning known as NPTEL is a joint programme executed by several Indian Institutes of Technology and Indian Institute of Science. It was launched in 2003 and has as its objectives the creation of curriculum material in higher education in all of science and engineering. It has created the largest freely accessible; curriculum-based video archive in the world in technical education and proposes to create an effective open education forum. This paper traces the programme details and presents a summary of activities to be carried out in the immediate future.

Research methodology

Research Methods is defined as "tools or instruments used to accomplish the goals and attributes of study".

Method of data collection

The data was collected for this study is

- **Primary data:** The primary data are those which are collected as fresh for the primary time.
- **Secondary data:** Secondary data is collected from journals, magazines and books, newspaper and internet.

Area of study: This study was conducted in Coimbatore city.

Sample size: The sample size is 120.

Tools used for analysis: Data analysing tools are Simple percentage and Chi-square test.

Simple percentage: Percentage base analysis helps to find which factors is significant among a number of factors.

Chi-square: A chi-square statistic which is used to test the measures of expectations

compare to actual observes (or) model result.

Analysis and Interpretation

Demographic profile of the respondents

S.no	Demographic		No of respondents	Percentage
1	Gender	Male	60	50
		Female	60	50
2	Age	13-17	6	5
		18-22	84	70
		23-27	17	14
		28 above	13	11
3	Qualification	School	6	5
		Under Graduate	66	55
		Post Graduate	30	25
		Professional	18	15
4	Course of study	Engineering	20	17
		Commerce	56	46
		Science	19	16
		Others	25	21
5	NPTEL register respondents	Yes	93	78
		No	27	23

Interpretation: Table 1 clearly states the demographic profile of the sample respondents. Majority of the responds fall in the age group of 18-22 and most of them are female. Majority of them under graduate students. Majority of the respondent’s course of study is commerce. Most of the respondents are registered NPTEL online course.

Chi- Square Analysis

Formula:

$$\chi^2 = \sum (O_i - E_i)^2/E_i$$

Degree of freedom = (r-1) (c-1)

H₁-There is significant relationship between the gender of the respondents and their enrolment to NPTEL course.

Chi-Square Table

O	E	(O-E) ²	(O _i - E _i) ² /E _i
48	46.5	2.25	0.048
45	46.5	2.25	0.048
12	13.5	2.25	0.167
15	13.5	2.25	0.167
		Total	0.43

Source: primary data

Significant level = 0.05

Result: calculate the chi-square value is (0.43) is less than (3.841) table value hence the hypothesis is accepted. Therefore, it is found that there is significant relationship between respondents’ gender and their enrolment to NPTEL course.

H₁: There is significant relationship between qualification of the respondents and the number of NPTEL courses enrolled.

Chi-Square Table

O	E	(O-E) ²	(O _i - E _i) ² /E _i
6	4	4	1
44	44	0	0
20	20	0	0
10	12	4	0.3
0	1.4	1.96	1.4
14	15.4	1.96	0.13
10	7	9	1.28
4	4.2	0.04	0.009
0	0.4	0.16	0.4
4	4.4	0.16	0.04
0	2	4	2
4	1.2	7.84	6.53
0	0.2	0.04	0.2
4	2.2	3.24	1.47
0	1	1	1
0	0.6	0.36	0.6
		Total	16.359

Source: primary data

Significant level = 0.05

Result: The calculate chi-square value is (16.359) is less than (16.919) table value hence the hypothesis is accepted. Therefore, there is significant relationship between qualification and the number of NPTEL courses enrolled.

Result and Discussion

1. Both respondents' male and female are equal (50%).
2. Majority (70%) of respondents age falls between 18-22 years.
3. Majority (55%) of respondents are under graduates.
4. (42%) of respondents are aware of NPTEL online course.

5. Majority (78%) of respondents are registered NPTEL online course.
6. (46%) of respondents have enrolled for commerce courses.
7. Majority (53%) of respondents are aware that NPTEL course was first introduced in engineering.
8. (49%) of respondents are aware that NPTEL online course was implemented central government.
9. (36%) of respondents opine that NITTR is another best course when compared with NPTEL courses.
10. Majority (52%) of respondents got the awareness about NPTEL courses through mobile.
11. (47%) of respondents take 6 months to complete NPTEL course.
12. (49%) of respondents agree that they gain knowledge through NPTEL courses.
13. (48%) of respondents are aware of NPTEL exam.
14. Majority (94%) of respondents attend the NPTEL exam.
15. Majority (52%) of respondents are satisfied with certification of NPTEL course.
16. Majority (67%) of respondents are received 1-5 certificates from NPTEL.
17. Majority (56%) of respondents opine that cost of NPTEL course is normal.
18. (48%) of respondents are satisfied with the assignments from NPTEL
19. (45%) of respondents are use NPTEL for mere certificate.
20. There is significant relationship between gender and their enrolment to NPTEL.
21. There is significant relationship between qualification of the respondents and the number of NPTEL courses enrolled.

Suggestion

To remove e-learning drawbacks like faculty and students having little knowledge about NPTEL software,

technique lack of information with technology etc. There is a need of enough planning to prepare the way of removing these barriers. Learning over the internet eliminates the need of physical classroom so learners do not have to attend the class virtually. There is no need to easily access the content and distribute any physical material. NPTEL providing a good online education.

Conclusion

This study further concludes that students very good ability to make use of the various tools and technologies that enables one to participate in E-learning with easy. NPTEL becomes more popular all over the world which offer students going college and a good carrier. The respondent's also having awareness about NPTEL and satisfaction with NPTEL course.

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