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## A Study on E-Learning using SWAYAM (MOOCs)- Awareness among Under Graduate and Post Graduate Students.

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**Abstract:** -- *The Present study is about Awareness of SWAYAM(MOOCs) among the under graduate and Post Graduate students. It is a pilot study of undergraduate and post graduate students of Mumbai University. The data was collected through Google forms and 105 respondents responded of which 61 were undergraduate and 44 were Post Graduate students. A well structured Questionnaire was sent to the respondents and the study is descriptive in nature. The Introduction of Massive open Online courses (MOOC's) is one of the Innovative steps taken in India in the field of Education. The Government's own app "SWAYAM" which is launched by government which provides easy access, equity and quality education to all. The success of all this apps depends upon the awareness among the students regarding such applications. The study reveals that there is less awareness of MOOCs and SWAYAM among the students but students have shown a positive attitude towards accepting this online platform for various online courses provided by government. Chi-square statistical technique was used to find association between variables and hypothesis was tested using the SPSS software Version 20. The study concluded that students prefer the classroom coaching as compared to online medium of coaching, 39% of the students were not aware of Swayam and MOOCs Platform so necessary steps should be taken from government, Educational Institutions, Universities, MHRD & all coordinators of SWAYAM to promote it on large scale and create an awareness among the student community and also there should be promotions from the Various Industries that Certified Students from SWAYAM courses will be given Equal opportunity in job career.*

**Key Words:** Swayam Awareness, MOOCs, MHRD's Initiative, Online Learning Platform

### **Introduction:** -

SWAYAM stands for "Study Webs of Active -Learning for Young Aspiring Minds. It is a Massive open Online course platform where students from anywhere can get free access to it. SWAYAM is an Initiative of MHRD under the Digital India to give free entry to web courses which covers all advanced education, high school and skilled courses. SWAYAM was launched on 9<sup>th</sup> July 2017 by President of India. It is developed by MHRD with the help of Microsoft facilitating 2,000 courses. All faculties from reputed Institute Like IITs, IIMs, IISERs teach students on this Platform. Learning in SWAYAM has four parts 1) E-Tutorial 2) E- Content 3) Discussion forums and 4) Assessment.

The study was conducted so that student comes to know about the great Initiative Taken by Ministry of Human Resource Development in higher education and there can be awareness and motivation among the students to adapt the online medium of Education.

## **Importance of the Study:**

The research would be helpful to all the students, teachers and everyone who is directly or indirectly related with teaching learning process. The study can be used for creating an awareness among the students about the digital revolution and various online teaching platforms available free of cost which can help them to make effective use of technology and enhance their knowledge.

## **Review of Literature:**

(Ambadkar, 2020) studied the E-learning platform using Swayam and MOOCs among the Commerce students focusing graduation students. The Research was descriptive in nature and data was collected through a structured questionnaire and the study concluded that most of the students were unaware of the online platform and they prefer more classroom coaching than online coaching. It was further added that there should be collective efforts of Government, Educational Institutions and Corporate bodies to promote these courses and make everyone aware of such courses and its importance in career.

(Sangitha, 2020) studied the Preference of Swayam among college students in Chennai City where the researcher collected data through structured questionnaire and 101 respondents were taken for study. The research was descriptive in nature and data collected was analysed through Chi-square statistical tool using the SPSS software and it was being concluded that more than 70% of the respondents knew about the SWAYAM course and were ready to accept it as a part of academics. The study suggested that more awareness should be created among students so that a greater number of students get enrolled in such courses.

(Bhagyalakshmi, n.d.) conducted a study on Impact and awareness of SWAYAM among the students at Chennai city. The research was descriptive in nature and 50 respondents were taken for study. The data was analysed with statistical tools such as mean, standard deviation and covariance and it was being concluded that SWAYAM is more cost effective, easy to learn as compared to private coaching institutes.

(Nagasampige et al., n.d.) in his study of MOOCs in Indian University Education System revealed that awareness of MOOCs is more among the Post-Graduation students as compared to graduation students. The study was Exploratory in nature and further added that this qualitative study reveals that MOOCs is successful in meeting the learning goals of the learners.

(Yacob et al., 2012) in his study conducted for student's awareness towards E-learning where the researcher conducted survey of 200 respondents and multiple regression was done to analyse the data. The study revealed that males and females have significant awareness towards E-learning.

(Nayek, 2018) in his study of Awareness of SWAYAM among professions and students. The study was conducted through questionnaires and Library information science students participated in the survey and the study revealed that most of the respondents were interested in SWAYAM course and some of them have already registered in the course.

## **Research Methodology:**

### **Research Design:**

The study aimed at finding the Awareness of E-learning Platform SWAYAM among Graduation and Post-Graduation Students. The Research Design used was descriptive in nature.

### **Data Collection:**

The Data was collected of undergraduate and post graduate students through google form and 105 respondents were taken for study. A well-structured Questionnaire was used for the data collection. The various articles on SWAYAM, MOOCs and Online E-learning were considered as Secondary data for literature review.

### **Population**

The students of Under graduation and Post-graduation belonging to Commerce and Science stream.

**Sampling Technique**

The method of Sampling used for the study is Convenience Sampling Technique

**Statistical Technique used**

The collected data has been tabulated in SPSS software for bivariate Chi Square Analysis and the formulated hypothesis was tested accordingly.

**Objectives of Study: -**

- To understand the scope of SWAYAM and MOOCS in Higher Education
- To analyse the awareness of SWAYAM and MOOCs among Undergraduate and Post-Graduation students.
- To find out the association between various streams of students with SWAYAM course
- To study the attitude of the students towards online learning platform of Swayam and MOOCS.

**Hypothesis: -**

- 1) **Ho:** There is no relationship between Gender and Interest in taking Swayam Course.  
**H1:** There is a relationship between Gender and Interest in taking Swayam Course.
- 2) **Ho:** There is no relationship between the stream of students and types of MOOCs course interested.  
**H1:** There is a relationship between the stream of students and types of MOOCs course interested.
- 3) **Ho:** There is no relationship between the graduation and post-graduation students towards awareness of MOOCs.  
**H1:** There is a relationship between the graduation and post-graduation students towards awareness of MOOCs.
- 4) **Ho:** There is no relationship between the Gender and Awareness of MOOCS courses.  
**H1:** There is a relationship between the Gender and Awareness of MOOCS courses.
- 5) **Ho:** There is no relationship between Gender and Familiarity with SWAYAM.  
**H1:** There is a relationship between Gender and Familiarity with SWAYAM.

## Data Analysis & Discussions

**Table 1 – Demographic Profile**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	44	41.9	41.9	41.9
	Females	61	58.1	58.1	100.0
	Total	105	100.0	100.0	

Out of the total Respondents taken for study 41.9% were Males and

Source: - Primary Data

**Table 2: Stream of Students**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Commerce	50	47.6	47.6	47.6
	Science	55	52.4	52.4	100.0
	Total	105	100.0	100.0	

Out of the total respondents 50 students were from Commerce and 55 students were from Science stream.

**Table 3: - Number of Undergraduate and Post-Graduation Students**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Graduation	61	58.1	58.1	58.1
	Post-Graduation	44	41.9	41.9	100.0
	Total	105	100.0	100.0	

The total Number of Respondents belonging Graduation was 58.1% whereas those of Post -Graduation was 41.9%

### Reliability Statistics

Cronbach's Alpha	N of Items
.820	11

Attitude of respondents towards use of MOOCs as an education platform was measured using an 11 item (statement) Likert-scale measurement. A mix of positive and negative items were used. Five-point Likert-scale was used ranging from 1= strongly Agree to 5=strongly disagree, negative statements accordingly scored.

**Reliability analysis:** A reliability analysis was carried out on the observed attitude values scale comprising 11 items. Cronbach's alpha showed the questionnaire to reach reliability,  $\alpha = 0.820$ . Since the Value of Cronbach's alpha is more than 0.70 all the 11 items were taken into consideration and none of the item was deleted for further analysis.

There was total 11 Likert scale statement taken for identifying the **attitude of the respondents** on the five-point scale

Sr no	Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	Do you think Swayam/ MOOCs is better source of Educational Platform	16.2%	37.1%	43.8%	1.0%	1.9%
2	One to One Classroom teaching in MOOCs platform is a problem	13.3%	23.8%	45.7%	13.3%	3.8%
3	I find self -motivation & setting goals & competition of MOOCs to be difficult	8.6%	32.4%	47.6%	10.5%	1.0%
4	I find it difficult to learn without direct one to one teaching & support of a teacher	8.6%	46.7%	29.5%	11.4%	3.8%
5	I think I would be comfortable to use computer several times a week to participate in a course	7.6%	41.9%	31.4%	13.3%	5.7%
6	MOOCs are good because they expose to professors from across the country	13.3%	44.8%	32.4%	7.6%	1.9%
7	It is good that MOOCs provide students with Schedule Flexibility	16.2%	54.3%	23.8%	2.9%	2.9%
8	MOOCs are important for overall improvement and lifelong learning skills	15.2%	53.3%	28.6%	1.9%	1.0%
9	I think MOOCs are good for lowering the cost of education for students and families	18.1%	47.6%	32.4%	1.0%	1.0%
10	I like SWAYAM MOOCs because it is free and affordable	17.1%	49.5%	29.5%	2.9%	1.0%
11	I like the MOOCs platform due to its ease and access to content	15.2%	46.7%	28.6%	5.7%	3.8%

### Scope for Further Research

Due to time Constraint the Research was conducted for Science and Commerce Students of Mumbai University with 105 respondents taken for study. The research with other streams can also be done to know better about awareness of SWAYAM as an Online Learning Platform.

### Conclusion:

It can be concluded from the research that most of the respondents were neutral in their opinion about SWAYAM so there need to be strong motivation and awareness from educational Institutions and government bodies to students about importance of SWAYAM. 39% of the Respondents were unaware of SWAYAM course so there should also be awareness from the Industrial sector about the Job opportunities available after completion courses through SWAYAM which can turn the respondents who are neutral to switch towards these courses.

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