A study on Effects of Innovation in Education and its sustainability

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Abstract:

Education has been an integral part of society since ancient times. The process of sharing knowledge in every field through education has undergone many changes over time. Education is the backbone of our society, and for the sustainability of education, new and interesting innovations are always attracted by society. Directly or indirectly we got an idea of inspirationfrom the various societal movement.For the development of the people living in the society, education is the only source to overcome the burden of economic as well as environmental issues. The most possible way is to develop new and interactive skills with proper usage of ICT tools which will grab the attention of youngsters and increase consciousness in our society. Education for sustainable development provides values & skills, createsan attitude to shape the future,and can achieve growth by innovating new technology, new opportunities will also increase in the context of jobs, social awareness,and overall upliftment of society with improvement in spiritual, social or intellectual conditions both personally as well as professionally. New avenues of education take society towards betterment. In all education can only lead to sustainable growth.Innovative ideas in education puts a positive effect on society and create a healthy wealthy environment where every individual get benefitted.

Introduction:

Innovation in education and sustainability-Innovation refers to inventing something, a new idea, a new concept, and the generation of new ideas to give new insights to our society, this is the only way we can develop ourselves. Innovation is the essential component of progress in our society, industry, etc. Innovation in education can be seen as a process of change, whereby something new can happen in the education system by applying new policies and procedures.

Effects of New education system and innovation

1. **Effective and Efficient use of time** – With the fastest growing pace of economy and development we need to be very prompt about the usage of time for greater productivity, less stress, and more opportunity to do things that matterin lesser time. And with the help of ICT tools and new education, it gets possible in a very effective and efficient manner

2. **Result-oriented–**No doubt the old education system was also result oriented but with the passage of time everything changes and to accept changes as it is, is the need of the society, new innovations in the education system encourage to be result oriented which is totally outcome-based education and ICT tools are providing sooner and faster results, so providing this kind of skills
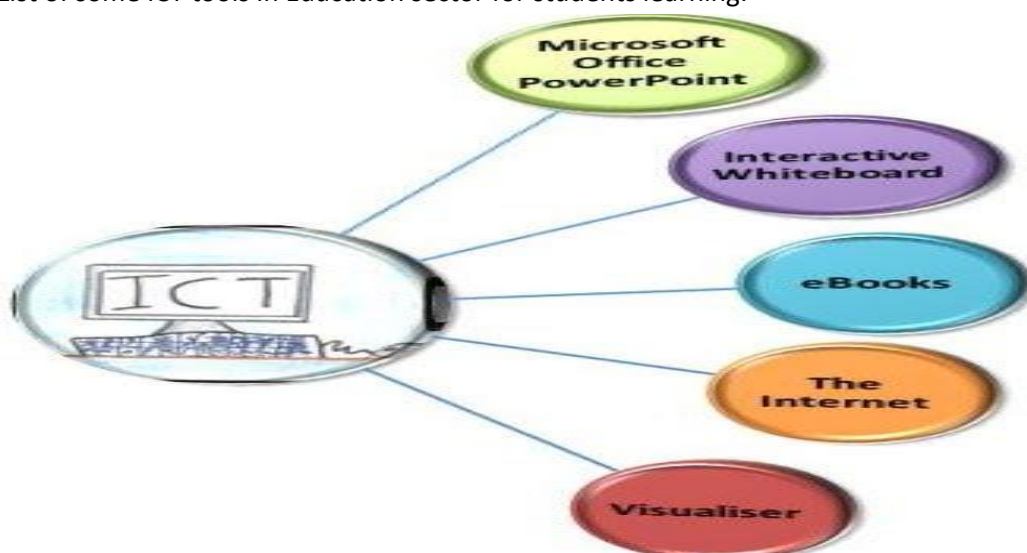
to our youths are very important and also effective for future perspective.

3. **Participatory and Holistic approach–** Participatory approachfocuses on the learner's point which encourages learning by doing, using small groups, concrete material and peer teaching etc in which learners participation is mandatory. Holistic approach is educating a child by overall development so that they can be well rounded and confident adult who can understand and contribute to the community by giving respect and It focuses on developing care for others and respect for the environment. It

pay equal respect to the society with both social and emotional and cognitive well-being of learner. And can achieve their goals.

4. **Inclusive and Interactive Approach–** Inclusive refers to respect the diversified students which enables all students to participate in all learning activities and fulfill their learning needs and preferences can be met, regardless of their backgrounds and abilities. Interactive here means with all interaction of all the students while learning process with which their doubts can be fulfill.

List of some ICT tools in Education sector for students learning:

Literature review

1) Education for sustainable development provides the values, skills and knowledge needed for shaping new attitudes, and consumption and production patterns conducive to sustainable development. Appropriate technical and vocational education and training will be essential for preparing people, including youth, for jobs enhancing environmental sustainability. **(Innovation and Sustainability in**

Education) Conference Paper · March 2014 DOI: 10.1007/978-3-642-54338-8_1.

2) The research function of academia remains a prime source of knowledge and innovation at national, regional and international levels. Behind the classroom door the key factor in the success of a lesson, in determining whether the students actually learn something that matters, is the creative ability of the teachers — their ability to combine theory and

practical classroom experience Effective teaching and learning therefore involve the practical application of new research/theory in a classroom environment.**ISSUES FOR RESEARCH AND INNOVATION IN EDUCATION (Dr. Rekha Pathak & Mrs. Madhuri Sheth)ISSN. 2278 - 8808.**

3) The attention of youth of the new generations can be caught only with innovative, "personalized" approaches during their education. These may include interactive learning materials developed in the e-learning environment, the effectiveness of which is unquestionable (Zhang et al., 2006; Liaw, 2008**). ISSN XXXX-XXXX. An innovative way in education forsustainable development: e-School4s – e-school for sustainability in the Danube region.**

4) The development of digital skills among youths can be challenging (Vinichenko, Makushkin, Melnichuk, Frolova &Kurbakova 2016), but to improve youths' employment there is a need for the development of digital skills, such as ICT skills (Hamilton et al., 2015).

Making the learning process more effective refers to making learners obtain better results with a deep understanding that too with longer retention and more valuable with the help of using digital skills and more e-learning activities. This study will focus on the impact level of innovative education, sustainability of innovation in education, and what development in youths we can see by using ICT tools.

The objective of the study
1. To study the impact and sustainability of innovation in education.
2. To study the development of technical skills in youth by use of ICT tools.

Hypothesis
H1:- There is no significant impact of innovation in education.
H0:- There is a significant impact of innovation in education.
H1:- There is no significant development of technical skills in youths by use of ICT
H0:-There is a significant development of technical skills in youths by use of ICT

Research Methodology:
Methodology: Simple percentage methodology is adopted to analyze the data to reach to a conclusion, to satisfy the null hypothesis according to the objective of the study.
Sample design: Sample size is defined as the number of items to be selected from the universe this study is based on the results of a questionnaire received from 50 respondents from various demographic profiles.

Data collection method:
The present study is descriptive in nature. Data collected is primary data gathered from 50 respondentsby direct personal interviews and questionnaires. A well-structured questionnaire was made for the study. Questions were very specific which fulfills the objective of the study, to take answers from the respondent's five-point Likert scale were used to analyze the objective.
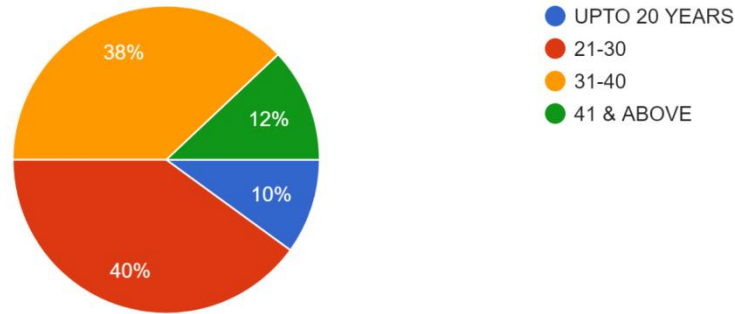Secondary data: Secondary data is an old fact that is collecting and analyzing data by an old researcher. For this study references and the secondary data are collected from various Journals, research papers & websites have been studied.

Data Analysis From the following pie chart representation below we can see that the respondent between the age group 21 and 40 are more aware of using ICT tools.
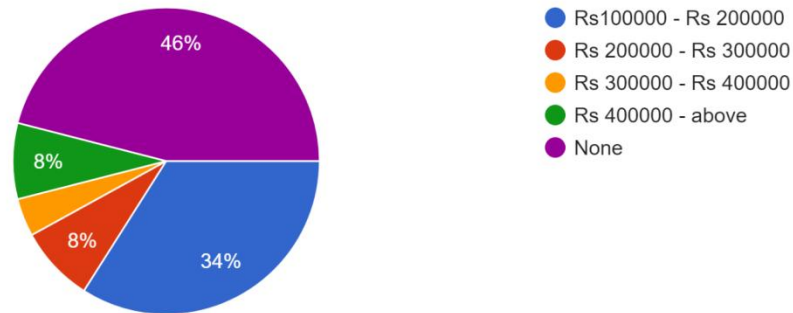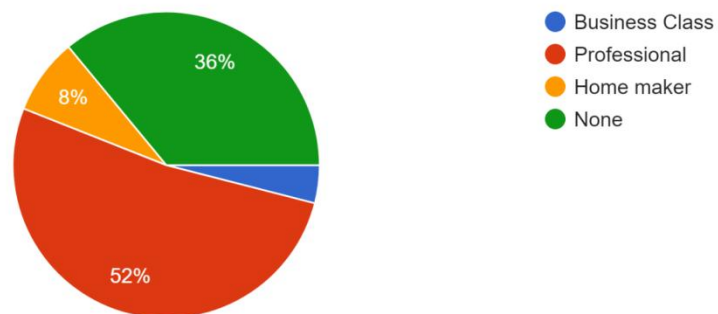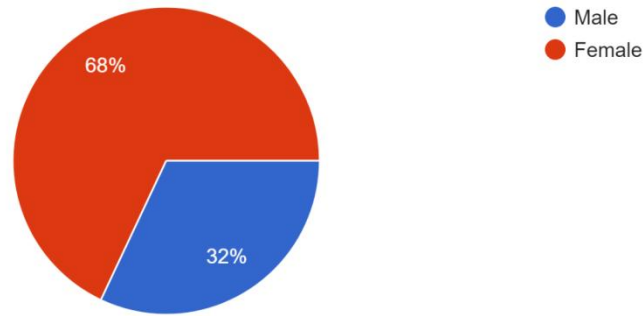
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Age
50 responses

- UPTO 20 YEARS
- 21-30
- 31-40
- 41 & ABOVE

Income
50 responses

- Rs100000 - Rs 200000
- Rs 200000 - Rs 300000
- Rs 300000 - Rs 400000
- Rs 400000 - above
- None

Occupation
50 responses

- Business Class
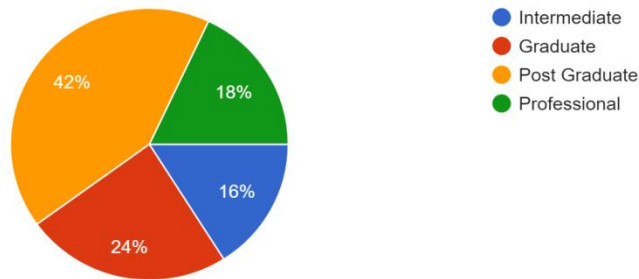- Professional
- Home maker
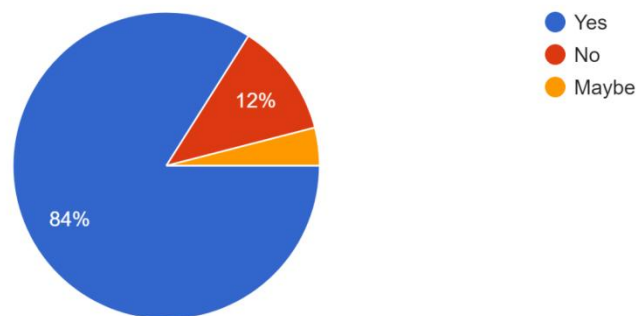- None

Gender
50 responses

Education
50 responses

Below Figure shows the awareness and usage percentage of ICT tools ie; 84% youth use ICT tools for learning and gaining knowledge and information.
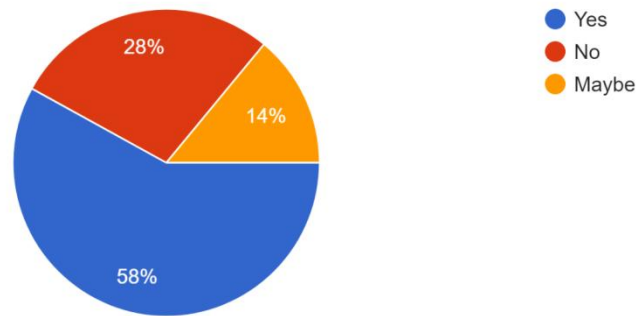
Do you aware of ICT (Information Communication Technology) tools?
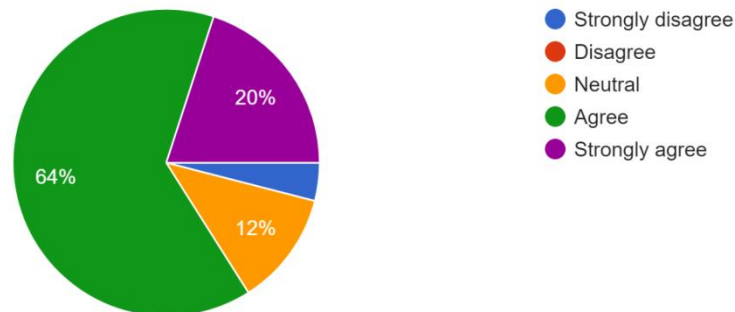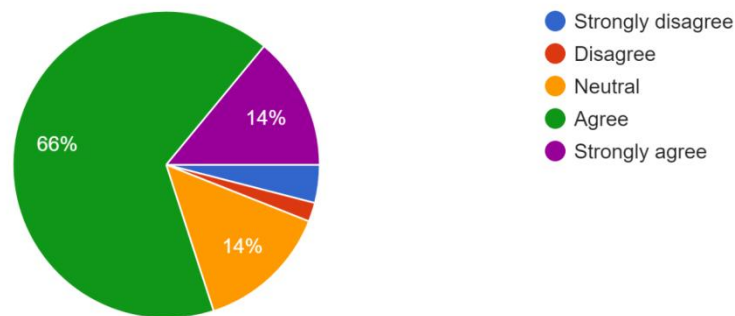50 responses

Have you ever use ICT tools?
50 responses

Yes
No
Maybe

28%
14%
58%

Do you agree that innovation has a positive impact in education?
50 responses

Strongly disagree
Disagree
Neutral
Agree
Strongly agree

20%
64%
12%

Do you agree that there is sustainability of innovation in education?
50 responses

Strongly disagree
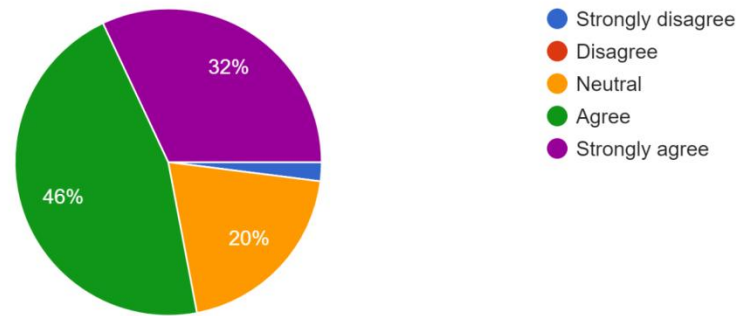Disagree
Neutral
Agree
Strongly agree

14%
66%
14%

Above figures shows that innovation has a positive impact in education and 64 % of people are agree with this point that education increases their knowledge and make them updated about the technology they use and the information which they got by these e-learning platforms are very helpful for there overall growth and development also 66% people support to the point that there is a sustainability of innovation in education as it contribute to create a great future of our society by providing them knowledge and skills through the continues use of ICT tools.
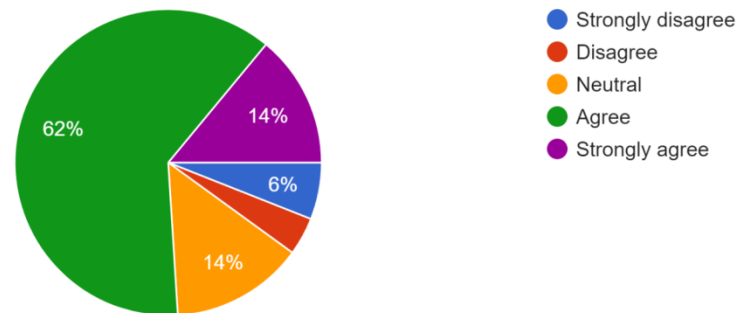
Do you agree that technical skills are required for overall development of youths?
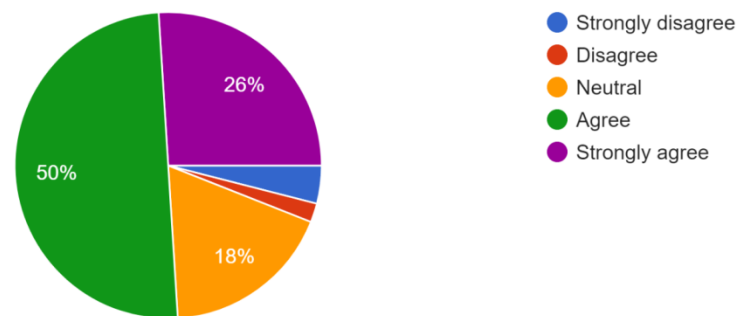50 responses

Do you agree that increased use of technical skills amongst youth support sustainable development?
50 responses

Do you agree that increased use of technical skills by youths showing positive impact towards society?
50 responses

All these figures above are satisfying the objective of this study and supporting the null hypothesis this may not be the exact representation of the universe but it shows the approx. percentage of sample which support the objective and hypothesis of the study with this we can say that technical skills amongst youth are contributing towards the positive impact on society and agree percentage is more from among 50 sample size. Youths are gaining knowledge and enhancing their technical skills through various e-learning platforms.
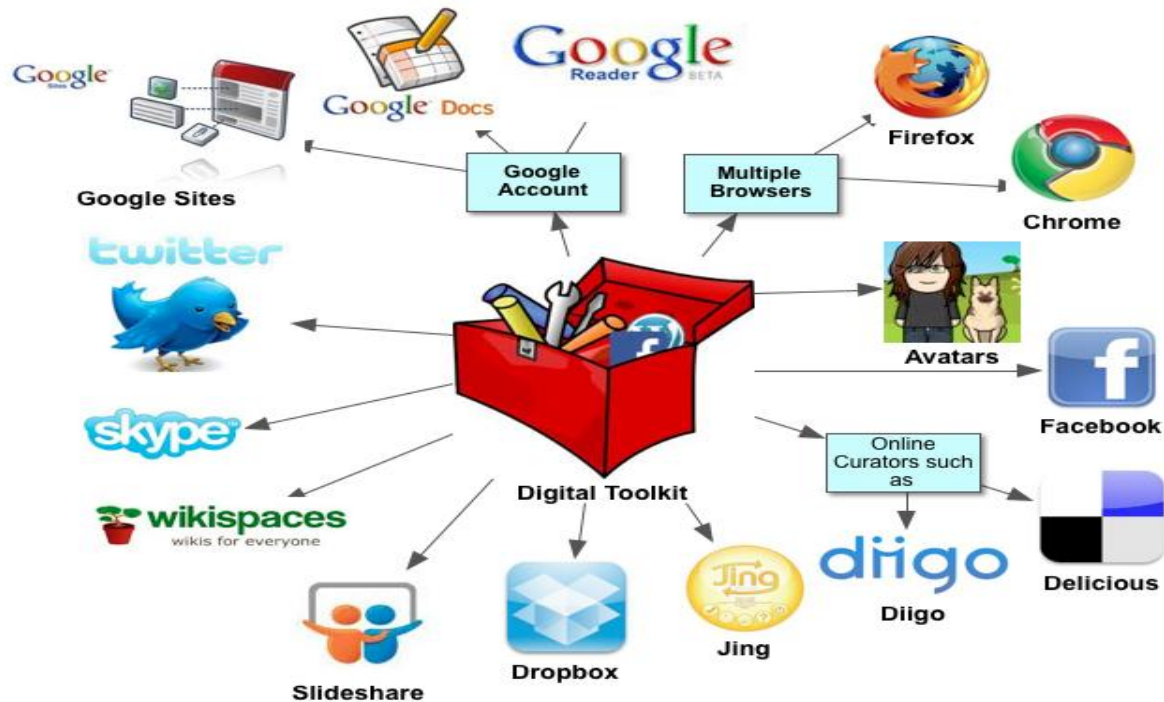
Importance of Study

"Education is not about loading a child with information. It is to develop the body and the mind to the highest possible capability and focused more on being result-oriented"

It is very much important for the youths and the teachers of this generation to use and create awareness of ICT tools as it helps and encourages students and teachers to research more and generate new ideas and helps to explore and uncover something new and unique. It is very important for everyone to understand education and adopt new technology for the overall development of our society, and youths, and to generate new opportunities for a future generation.

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Limitation

The universe of study is limited to the Nagpur district. It may not be the exact representation of the globe.

This study is limited to a sample size of 50 respondents has been taken into consideration due to the time limit constraint. This sample may not represent the universe; hence the results may not be generalized. All these samples are collected from Nagpur & Chhattisgarh districts only.

Conclusion

From the above data analysis, we can see the awareness and usage of ICT tools amongst the youths. Through this study, we can define how the technology could be applied tosustainable development in education which will make youth more capable to establish themselves and can grow, development of technical skills is a must, and the impact of innovation in these technical skills according to the passage of time is proving tobe very vital for our future generation, the use of ICT and awareness of ICT deliver proper information and knowledge which is the key to provide potential to youths and contribute towards sustainable development which is one of the important parts of the discussion in today's scenario, providing information's, knowledge through major research work also contribute towards the positive impact of ICT to our society and it is also a need of our society to generate new capabilities and enhance the future of youth's of our country.

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