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Sub-Theme

E - CONTENT

Title of Research Paper

**DEVELOPMENT OF E-CONTENT FOR AWARENESS ABOUT DISASTER
MANAGEMENT AMONG SECONDARY SCHOOL STUDENTS**

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1. Introduction

The term 'disaster' meaning 'bad star' in Latin, is defined as an impact of a natural or manmade hazard that causes human suffering or creates human needs that the victims cannot alleviate without assistance. The word root is from astrology and implies that when the stars are in a bad position, a bad event is about to happen.

Man is concurring an environment for fulfilling his need, similarly he knows that there is a decay in natural resources though he knows it, he is avoiding importance of nature in his life. Due to lack of natural resources, their arise global warming. We see effect of global warming on living things. Hence natural and man made hazards are appearing as a challenges. While accepting these challenges and finding the solution on it, man thought about living things on Moon and Jupiter, but he should think about the living things on earth. Man thought himself to be a master, not a slave and he started utilizing his environmental resources to meet his ever-increasing wants for a better living. But now he has trespassed too far, to the extant of causing serious ecological and environmental imbalance.

Good environment education, like any good education must lead students out and on from their immediate perceptions and experience to a wider understanding. It must develop their capacity. Pupils must first learn abut natural phenomena in order to understand complex environmental matters. The importance of environmental education is that is sensitizes us to the causes and effects of problems, of which for long. We have been only dimly aware. The environment involves our children's future and many already know that we must encourage them to think positively about it. In our country too, people conscious of the future survival of the society initiated number of activities to highlight the importance of ecological balance for the sustainable development of the human race.

The Chinese say about the need to educate. If you plan for a year plant rice, if you plan for the years plant tress, but if you plan for the century educate the people. We this we can say that educate the people about

environment to protect the human race and the planet earth. There are a lot of environmental problems which are related to natural disasters and man made hazards. Disasters do occur, but, preventing them is everyone's responsibility and fighting through them is everyone's duty. Any disaster is an unwanted event, its mitigation is an event that has a sense of deliberation. Disasters may be planned but their mitigation warrants planned actions.

Syllabi are developed for awareness of disaster management but we are so serious about management of such hazards. Common man and students should first know that how and why these hazards appear, but can we face these hazards. Hazards happens without prior intimation and we lost millions energy and resources as well as we have to face physical and environmental problems hence researcher has taken the following problem for his research work.

2. Significance of the Research Study

This study aims to develop awareness about disaster management hence its major findings are useful not only for secondary school children, but to society also. Due to this study, e-media source will be made available while teaching and learning concepts related to environment and disaster management. There will be positive attitude for having awareness of disaster management. Awareness can help to save life of all living things. Through e-content we can develop serious attitude towards disaster management. E-media is a audio-visual aids, which is helpful for concentrating and understanding the concepts related to disaster management It also helps students to classify disaster, conclusions of research will be helpful to apply various teaching-learning methods and techniques which understanding disaster and its management.

3. Objectives of the Research Study

The following objectives are decided by researcher for the study.

- 1) To develop e-media for awareness about disaster management.
- 2) To implement developed e-media program for awareness about disaster management.
- 3) To find its effect on awareness development.
- 4) To suggest various innovative methods and programs while teaching disaster management.

4. Null Hypothesis

There is no significant difference of applying e-content on awareness of disaster management.

5. Methodology of Study

a) Research Method

Researcher used experimental method because researcher wants to find out effect of e-content on awareness about disaster management.

b) Sampling

Researcher has selected '*Non probability: Purposive Sampling*' i.e. students STD IX of Maharashtra Vidyalaya, Barshi, Solapur for the implementation of E-Content programme and 15 teachers of various schools.

c) Tools

Researcher used pre-test for students and questionnaire for teachers, researcher developed e-content about disaster management.

d) Research Design

Researcher used single group pre-test post-test experimental design.

$R \rightarrow O_1 \rightarrow X \rightarrow O_2$

R - Group

O₁ - Pre-test

X - Treatment

O₂ - Post-test

e) Statistical Terms

Mean, S.D. and t-test for analyzing and interpreting the conclusions.

6. Interpretation

a) The following table shows Mean and SD of pre and post-test.

	Mean	SD
Pre-test	27.16	4.08
Post-test	29.16	3.66
N	60	60

Above table shows mean difference as 2.00 and standard deviation of post-test was 3.66 i.e. each score is deviated less from mean compare to pre-test.

b) The conclusions from Teachers Questionnaire are as follows.

- 1) Teachers were having 13 years experience of teaching environmental education.
- 2) Most teachers were using graphs and charts of drawing while teaching environmental concepts.
- 3) Teachers were not trained about use of ICT.
- 4) Teachers were using internet sometimes.
- 5) Teachers were not aware about development of E-content with the help of E-media.
- 6) Teachers used lecture method while teaching about Disaster Management.
- 7) Teachers were not trained about awareness of Disaster Management.
- 8) Teachers used photographs of news papers and some video clips to give opportunity of observing Disaster to students.
- 9) Computer and internet facility is available in schools.
- 10) Teachers were not using internet facility for taking reference for Disaster Management.

7. Conclusions

- 1) Development of E-content was useful for developing awareness about Disaster Management.
- 2) Teachers are not trained for development of E-content about Disaster Management
- 3) E-content was developed and its CD is attached with this report.

8. Recommendations

- 1) Teachers should be trained for E-content development.
- 2) Students should be motivated to know about various hazards and disasters.
- 3) Government should renewed curriculum with content of Disaster Management.
- 4) Students should be aware about social responsibilities.
- 5) Teachers and students should conduct project about Disaster Management.
- 6) Every citizen should know about Disaster Management, preparedness, mitigation etc.
- 7) Teachers and students should also know about various institutes of Disaster Management and their functions.
- 8) Government should introduce various types of disaster in syllabus of secondary education, higher education.
- 9) The key actions for developing a culture of prevention are...

- a. Awareness raising
 - b. Societal arrangements
 - c. Accountability forging
 - d. Empowerment
- 10) Implementation of training and educational programs to build knowledge, educate civil society and policy makers and develop local and global capacity.
 - 11) Teachers and students should be trained for Disaster Assessment, Disaster Preparedness, Disaster Response and Relief, Disaster Mitigation.

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