



## **An Innovative Trend in Research in Education : Product Development Method**

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### ***Abstract***

*Teacher Education Institute, we have to adopt new innovative practices, methods and approaches to train the forthcoming teachers in the age of globalization and various new challenges. Therefore, we have to develop Innovative Research approach in Teacher Education for the better Education of the trainee teacher. We can also used Product Research strategy as innovative trends in Teacher Education. The study was taken up with following objectives in mind. To study the concept & characteristics of Product. To study the nature & steps of the Product Research Method. To suggest Research made Product. Qualitative analysis method was used for the present study. The data collection through the secondary sources like Books, Magazines, Journals and Websites was then subjected to qualitative analysis. Characteristics of the Product is Product has the similar meaning as tools/instruments. The nature of product can be Hardware or Software. The people who developed the product, gives guarantee. Need of product in education is We use product in teaching to make easier communication. To reduce the gap between bookish knowledge & practical knowledge. To achieve direct real time experience E.g. (Models). To make joyful learning. Best example of Product is Video Film, Pictorial Book, Training prog., CAL etc.*

**Keywords :** *Product, Product Research Method, Innovation*

### **Introduction:**

Education is at the confluence of powerful and rapidly shifting educational, technological and political forces that will shape the structure of educational systems across the globe for the

remainder of century. Many countries are engaged in a number of efforts to effect changes in the teaching/ learning process to prepare students for information and technology based society. The UNESCO World Education Report (1998) notes that the new technologies challenge traditional conceptions of both Teaching, Learning and Research by reconfiguring how teachers and learners gain access to knowledge have the potential to transform teaching and learning processes. Teacher Education Institute, we have to adopt new innovative practices, methods and approaches to train the forthcoming teachers in the age of globalization and various new challenges. Therefore, we have to develop Innovative Research approach in Teacher Education for the better Education of the trainee teacher.

### **Concept and Definition of Innovations:**

The world Innovation is derived from the Latin word ‘Innovare’, which means “to change something new”.

The International dictionary of Education describes, “Innovation” as promotion of new ideas or practices in education and teaching.

N.C.E.R.T states that, Innovation is more than having new ideals; it includes the process of successfully introducing them or making things happen in a new way. (Dangwal,K.L.,2008. P-85). Hence, there are different views on innovation bit mostly pointing towards the same direction as ‘change’. ‘Change’ can be incidental, accidental or planned and deliberate. But innovation refers to planned and deliberate change.

### **Innovative Research in Teacher Education:**

An innovative practice in Teacher Education means to make Teacher Education programme effective by using important skills, Research skill are very necessary in 21<sup>st</sup> century. This age is a Research oriented age. We should use technology in Teaching-learning & Research process. E.g. Research skill Development programme known as Dissertation works is used in Teaching Education. Now days it is very necessary part of curriculum is to develop Research skills. We can also used the following Research strategy as innovative trends in Teacher Education.

1. Experimental Research
2. Historical Research
3. Descriptive Research
4. Mixed Research
5. Multi method Research
6. Qualitative Research

## 7. Product Research

### **Objectives:**

The study was taken up with following objectives in mind.

- 1) To study the concept & characteristics of Product.
- 2) To study the nature & steps of the Product Research Method.
- 3) To suggest Research made Product.

### **Study Method:**

Qualitative analysis method was used for the present study.

### **Data collection & analysis:**

The data collection through the secondary sources like Books, Magazines, Journals and Websites was then subjected to qualitative analysis.

### **Characteristics of the Product:**

- 1) Every task has a particular cause.
- 2) Product is related to two types of People: First who developed the Products & second who used those products. E.g. (Any manufacturing company develops the product like refrigerator and consumer like common people use it in their daily life).
- 3) The people who developed the product, gives guarantee.
- 4) New inventions and amendments in the product are required to maintain its demand in market.
- 5) Product has the similar meaning as tools/instruments.
- 6) The nature of product can be Hardware or Software.
- 7) Product should be properly reviewed and tested before selling by the experts.

### **Why to create product in education?**

#### **1) We use product in teaching to make easier communication.**

Education is all about communication- not only the hard facts but also thoughts and ideas and proposals on which to base discussion and debate. The knowledge is effective only when it creates a real imagination in pupils mind and it is only possible when we communicate our thoughts with some model, real time examples and experience.

#### **2) To reduce the gap between bookish knowledge & practical knowledge.**

Both books and experience are two channels of knowledge. Books preserve the great thoughts, wise judgments, and the accumulated knowledge of the past. They are able

to give the basic information, which leads to new inventions. It improves our creativity and imagination. Besides, it holds all knowledge gained by previous generations through their observation and experience but when it's presented with some Model and real time experience it is more memorable and enjoyable. It helps to learn from attitudes and situations.

**3) To achieve direct real time experience E.g. (Models).**

To understand completely about anything, we need to experience them first hand as people are different and the problem solving style is dependent on the perception of people, which is diverse from person to person. Experience is limited to our own and that of other people we known well. Sufficient knowledge only is not enough to practice in some fields. For instance, swimming cannot learn from reading books, it needs real life experience and practice.

**4) To make joyful learning.**

If Knowledge shared and explained with some model and pictures, its more interactive and maintain pupils interest to listen and concentrate so they can learn the fact joyfully.

**Classification of Educational Product:**

There are six types of product which are mentioned as follows-

- 1) Model base product.
- 2) Research based product. E.g. ( Video , Picture tool)
- 3) Product based on problem (to avoid the problem of the student).
- 4) Interest in Related Product.

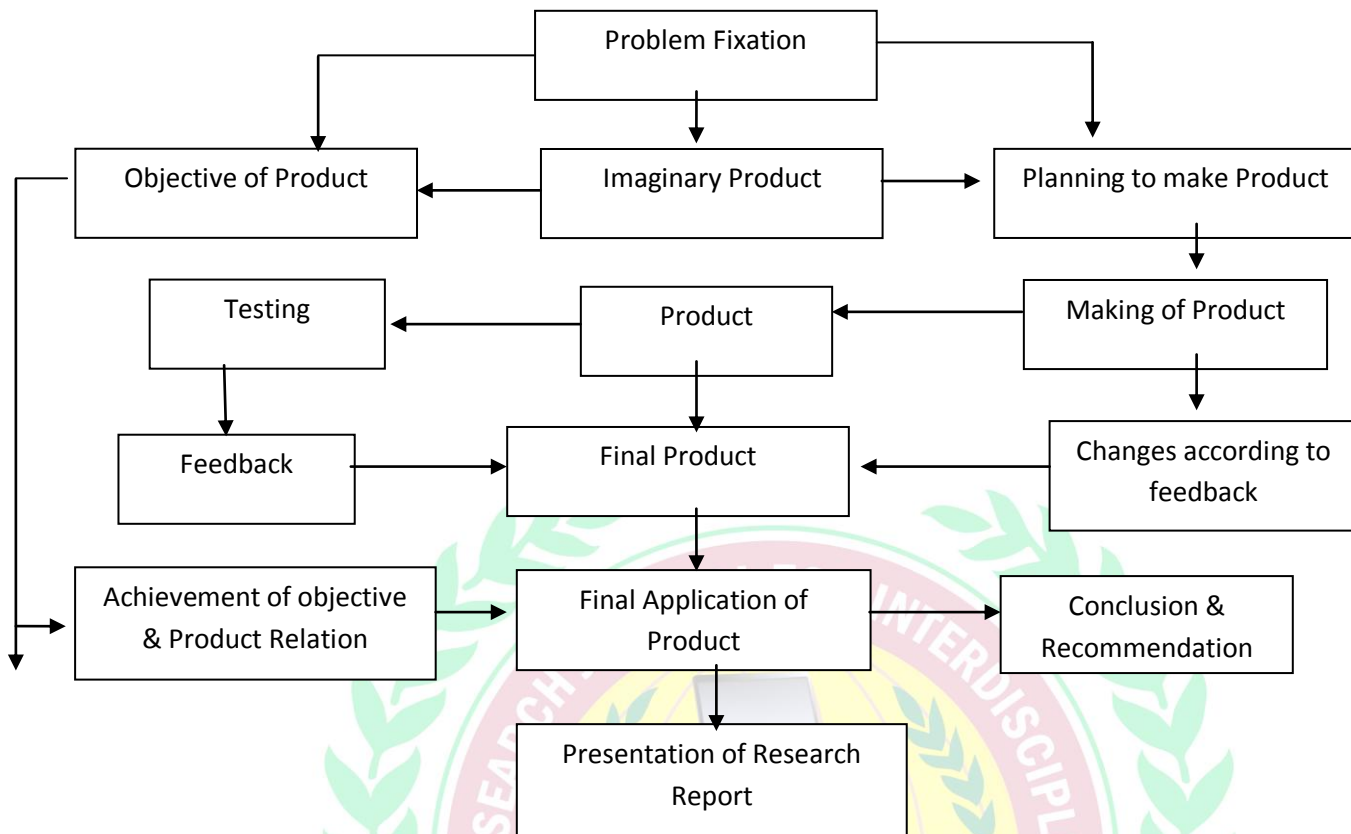
**Nature of the Product:**

- 1) Software & Hardware E.g. ( O.H.P. → Hardware, Transparency )
- 2) Constructive Study
- 3) Self motivation of learning.
- 4) Proper Planning is necessary to make the Product.  
(Planning/Implementation /Testing)

**Steps of Product Research :**

Back ground of Product





### **Develop Competency through product Research Method**

#### **1) Intellectual Competency :**

- a) Observation
- b) Curiosity
- c) To understand, how to learn throw Product.
- d) Logical thinking & more Concentration.

#### **2) Mental Competency:**

- a) Co-Operative ( to Develop Co-operative Attitude )
- b) Develop Interest in Subject.
- c) They took interest to make the product.

#### **3) Communication Competency :**

- a) Communication Skill.
- b) Communication Method.

### **Best Example of Product :**

In the field of marketing the best example of Product is Factory made things, in the field of Human resources good citizen is the best product of society but new innovative ideas is best product in the field of education. The example of educational product is video film,

Audio CD, Animation Film, Documentary, Pictorial book, guidance book, Training prog., orientation prog., counseling prog. etc.

**Conclusion:**

Different teaching model is used to make learning more effective. It keeps interest of students in learning. Different teaching models using techniques like OHP, Video, Audio, Pictures can be used to make teaching more interactive and effective which influence to pupil's mind more effectively as compared to bookish knowledge. It also makes the learning interesting and life lasting. If any researcher made product is used in teaching it would be more effective because it is obtained after many researched facts and it is more valid.

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