## Attitude Of Teachers Towards Use Of Mathematics Laboratory In **Teaching Learning Process In High Schools**

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Abstract: This paper examined the effect of instructional materials and teaching methodology and high school mathematics teachers view about use mathematics laboratory achievement among high school students of Amravati division of Vidarbha. Descriptive survey research design was adopted, and the population for the study comprises 120 high school teachers of Amravati. Simple random sampling technique was the sampling method used to select thirty secondary schools in each educational district from the four educational districts in Maharashtra State. For the purpose of data collection three research instruments were used by the researcher, the instruments were titled: "Questionnaire on Effect of Instructional Materials on Mathematics Achievement, Questionnaire on Effect of Teaching Methodology on Mathematics Achievement and researcher developed attitude scale for use of Mathematics laboratory in teaching learning process. These instruments were self-developed questionnaires. A reliability test was conducted on the instruments using test-retest method, a reliability coefficient of 0.76 and 0.82 were obtained. In order to determine the effect of instructional materials and teaching methodology on mathematics achievement among high school teachers. State three research questions and four hypotheses were formulated to guide the study. The hypotheses were tested at 0.01 level of significant questions and join reprinces were formation to good in south the exponents were easien as our research graphical using Chi-Square statistics. The results revealed that teaching methodology has significant offset on mathematics achievement among high school students. It was recommended that teachers should learn how to improvise instructional archievement among high school students. It was recommended that teachers should learn how to improvise instructional archievement among high school students. materials from the local environment instead of using foreign materials that students are not familiar with. Teacher should learn how to use diverse methodology in their teaching rather than restrict themselves to a particular method. The value of  $X^2$  is 143.98 and which is far more than 13.27 (table value). So According to views of high school teacher use of mathematics laboratory create interest among students. That's they have favorable attitude towards use of mathematics laboratory in creation of interest in the subject. More than 93% of leachers agree about the use mathematics laboratory to increase the interest of students in mathematics subject. So use of mathematics laboratory create interest in the subject. Though it is not available in their schools.

Keywords: Attitude, Mathematics Teaching, Mathematics Concept, Mathematics Laboratory.

#### INTRODUCTION

Mathematics laboratory includes models of geometrical shapes or paper cutting, paper folding techniques, concrete objects, charts, graphs, pictures, posters, blocks games, circle game, fraction model, geometrical geo sticks, measurement scales pattern, sorting, theorem etc. Mathematics lab is important especially for students of class1 to class 12. Mathematical games and puzzles are important for mental evaluements. The activities could be done Manathermatics has always occupied an important place in development of students. The activities could be done Manathermatics has always occupied an important place in individually by students or with teathers. At this place

students do experiments with numbers and geometrical shapes and try to generalize patterns. Students solve real "ife problems with real data because complex calculations are no longer a major consideration. Students make theits and models to illustrate mathematical ideas. The creativity of student development is allowed free play. Students find areas and volume of both regular and irregular solids. Interfaces between algebra, geometry, probability, calculus etc are experimented. Students enjoy learning mathematics,

Page 181

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students can learn and explore mathematical concepts and verify mathematical facts and theorems through a variety of activities using different materials. These activities may be carried out by the teacher or the students to explore, to learn, to stimulate interest and develop favourable attitude towards mathematics. That is, a mathematics laboratory is a place, where we find a collection of games, puzzles, teaching aids; and other materials for carrying out activities. These are meant to be used both by the student by their own and together with their teacher to explore the world of mathematics, to discover, to learn and to develop an interest in mathematics, Although mathematics is not an experimental science in the way in which physics, chemistry and bollogy are, a mathematics laboratory can contribute greatly to the learning of mathematical concepts and skills.

Need and Purpose of Mathematics Laboratory Some of the ways in which a Mathematics Laboratory can contribute to the learning of the subject are:

- It provides an opportunity to students to understand and internalize the basic mathematical concepts through concrete objects and situations.
- It enables the students to verify or discover several geometrical properties and facts using models or by paper cutting and folding techniques.
- It helps the students to build interest and confidence in learning the subject.
- ✓ The laboratory provides opportunity to exhibit the
- relatedness of mathematical concepts with everyday life.

  It gives more scope for individual participation. It encourages students to become autonomous learners and allows a student to learn at his or her own space.
- It provides scope for greater involvement of both the mind and the hand which facilitates cognition.
- ✓ The laboratory allows and encourages the students to think, discuss with each other and the teacher and assimilate the concepts in a more effective manner.
- It enables the teacher to demonstrate, explain and reinforce abstract mathematical ideas by using concrete objects, models, charts, graphs, pictures, posters, etc.
- It widens the experiential base, and prepares the ground for later learning of new areas in mathematics and of making appropriate connections.
- In various puzzles and games, the students learn the use of rules and constraints and have an opportunity to change these rules and constraints. In this process they become aware of the role that rules and constraints play in mathematical problems.
- Because of the larger time available individually to the student and opportunity to repeat an activity several times, students can revise and rethink the problem and solution. This helps to develop meta cognitive abilities.
- solution. This helps to develop meta cognitive abilities.
   It builds up interest and confidence in the students in learning and doing mathematics.
- Importantly, it allows variety in school mathematics learning.
- Mathematics Lab provides a conducive ambience for students to learn the subject in a joyful manner through practical activities and interaction.
- Teachers need to pay attention to both the transactional strategies and evaluation strategies.

 Simple experiments and projects will lead to the development of different skills like numerical,

observation, thinking, analytical and so on.

Establishing a Mathematics Lab does not involve high
cost. Improvised aids using inexpensive material can be
made:

#### OBJECTIVES OF THE STUDY

The study aimed at fulfilling the following objectives:

To develop the attitude scale towards use of mathematics

- laboratory for high school teachers.

  To find out the views teachers towards use of laboratory
- as self learning tool at high school level.

  To find out the views teachers towards use of laboratory
- for creation of interest of subject

  To find out the views of teachers towards use of laboratory to all concepts of maths syllabus.
- laboratory to all concepts of mains sylladus.

  To find out the views teachers towards use of laboratory lesson plan.

#### HYPOTHESES

The following null hypotheses were formulated by the above objectives:

HO: 1 There is no significant difference between teacher attitude towards use of mathematics laboratory.

HO: 2 There is no significant difference between views teachers towards use of laboratory as self learning tool at high school level.

HO: 3 There is no significant difference between views teachers towards use laboratory for creation of interest of subject

HO: 4 There is no significant difference between views teachers towards use of laboratory to teach all concepts of syllabus.

HO: 5 There is no significant difference between views teachers towards use of laboratory lesson plan.

#### II. OPERATIONAL DEFINITIONS

ATTITUDE: It is referred as the tendency to react (avourable/ positive or unfavorable/negative towards use of mathematics laboratory in teaching learning process.

HIGH SCHOOL TEACHERS: Teachers of aided and granted schools are considered for research purpose teaching to 8th 9th and 10th class students of state board school.

MATHEMATICS: Mathematics has the four fundamental operations of addition, subtraction, multiplication and division. Mathematics subject covers the topics such as real number system, algebra, logarithms, geometry, mensuration, probability, graphs and statistics at secondary level.

HIGH SCHOOL: The high school consists of VIII, IX and X standard students Classess in the Educational system. It was followed by secondary school syllabus. The present study only selected granted school teachers.

MATHEMATICS LABORATORY: The Mathematics Laboratory is a room, rich in manipulative material, to which children have ready access to handle them, perform

Page 182

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mathematical experiments, play mathematical games, solve mathematical puzzles and become involved in other activities through proper guidance of teacher.

#### III. RESEARCH DESIGN

This research was basically a survey approach with some orientation to explorations of opinion finding their roots and also to implement them to actions. Therefore, the present researcher used a mixed approach in educational research.

#### SAMPLE

This was Random sample consisting of 120 High school mathematics teachers from different schools of Amravati division of Vidarbha.

#### INSTRUMENT

The instrument was a Mathematics Laboratory Questionnaire, which included thurty five statements. The Mathematics Laboratory Questionnaire consisted of two parts: Part A sought information on school data name of school and state, type and location of school. Part B sought information on the existence and operation of mathematics laboratories in schools and views of teacher regarding use of mathematics laboratory in teaching learning process.

STATISTICAL USED: The mean, standard deviation and chi square - test were used for analyzing the data

	SOME OF STATE	MENTS	OF SCA	LE AR	E AS	
Sr. No	STATEMENT	5.A	^	U	D	5.D
1.	Matha laboratory create more interest in subject.	(50%)	52 (43%)	(3%)	(3%)	60
2.	Matha laboratory play vital role in matha learning.	(30%)	52 (43%)	(13%)	(13%)	00
3.	Maths laboratory is easential for self learning of students.	12 (10%)	(40%)	20 (175s)	(335+)	60
4.	Matha laboratory helps in the completion of matha syllabus.	08 (7%)	40 (33%)	(37%)	0x (7%)	(7%)
5.	The equipments which are used in maths laboratory are costly.	04 (3%)	24 (20%)	41 (40%)	(23%)	00
6.	Matha laboratory is not useful for each and every concept.	(6%)	(50%)	(37%)	(6,*)	60
1.	Development of Mathe laboratory is	(6%)	(37%)	12 (10%)	48 (40%)	(7%)

#### Table

Create interest	SA		υ	l D	20	Teta
Observed Frequency (f <sub>s</sub> )	60	52	04	04	00	120
Expected Frequency (f <sub>e</sub> )	24	24	24	24	24	129
(f f. )	36	28	-20	-20	-24	
16 6 3	1296	784	400	400	576	

				*****	******		
110 = 1e )2	34	17.66	4	40.0	24		
ig	Annual Street, or other	Table	marcon	ASSESSED BY	America .	-	

 $X^{3} = \sum_{i} \frac{(6 + i)^{2}}{(4)} = 54 + 32.66 + 16.66 + 16.66 + 24 - 143.98$ 

The value of X<sup>2</sup> is 143.98 and which is far more than 13.27 (table value). So According to swews of high wholed teachers use of mathematics laboratory create instead among students. That's they have taverable attribute towards use of mathematics laboratory in creation of interest in 106 subject. More than 93% of teachers agree about the use mathematics laboratory to increase the interest of students in mathematics subject. So use of mathematics laboratory create inferred in the subject. Though it is not available in their schools.

Observed Frequency (f <sub>4</sub> )	12	48	20	6)	00	130
Expected Frequency (f <sub>e</sub> )	24	24	24	24	24	125
(f, - f, )	-12	24	-4	1.5	-24	
$(f_{\bullet} - f_{\bullet})^2$	144	576	16	236	5.56	
(fo - fe ) : fe	6	24	0.54	10.64	24	
	_	T. 1.1	-			

7 = N (\frac{(fo - fo :2)}{2}) = 6+24+066+1066+24 = 6532

Df = 4. The value of X<sup>2</sup> is 65.31 and which is far more than 13.27 (table value). So According to views of high whool standards use of mathematics laboratory, is cocential for self-diamong of high school students. That's they have favorable annual towards use of mathematics laboratory in creation of siturein in the subject. More than 60% of teachers agree about the use mathematics laboratory as of elements tool.

	Strong ly Agree	Agree	Underest	Chinago au	Storong St Dinage	i argai
Observed Frequency (f <sub>s</sub> )	12	64	36	dit	540	120
Expected Frequency (f <sub>e</sub> )	24	24	34	34	31	1 35
$(f_{*} - f_{*})$	412	40	13	-14	-24	-
$(f_4 - f_4)^2$	144	1600	144	214	1.74	
(fa - fe ):	•	64.64	*	10.64	24	

 $X^{1} = \sum_{i} \left( \frac{(i + i + i)^{2}}{(i + i)^{2}} \right) = 6 + 66 + 66 + 66 + 10 + 66 + 24 = 113 32$ 

The value of X<sup>2</sup> is 113.32 and which is far more than 13.27 (table value). So According to views of high school teachers use of mathematica laboratory is not useful for each and every concept of mathematics curriculum. That is the have unfavorable attitude towards use of mathematics laboratory for each and every concept of mathematics. LESSON PREP. DRATION 15 THAN CONSTANTING

	Strong 3y Agree	Agre	( Index: ded	or Deads	Strong by Dinage	Tetal
Observed	1,2	80	20	618	80	126

Page 183

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Frequency (f.)		1	-		+	
Expected	24	24	24	24	24'	120
Frequency $(f_t)$ $(f_t - f_t)$	-12	56	4 1	-16	-24	
$(f_{\bullet} - f_{\bullet})^{1}$	144	3136	16	256	576	
(fo - fe )2	6	130. 66	0.66	10.66	24:	
ie		Ta	ble 5			_

$$\chi^2 = \sum \left( \frac{(fo - f \cdot )^2}{f \cdot e} \right) = 171.98$$

The value of X<sup>2</sup> is 171.98 and which is far more than leachers preparation of mathematics lesson plans are time consuming. Thus preparation of mathematical lesson plans are time needs more practice than traditional lesson plans. Thus is activity planning needs more practice than traditional lesson plans. Thus is activity planning needs more time than the traditional way of teaching.

I HAVE PREPARED TEACHING AIDS TO PROVE

	Strong ly Agree	Agre	Undecid ed	Disagr œ	Strong ly Disagr	Total
Observed Frequency (f <sub>a</sub> )	04	56	20	40	00	120
Expected Frequency (f <sub>e</sub> )	24	24	24	24	24	120
(fa - fa)	-20	32	-4	16	-24	
$(f_a - f_e)^2$	400	1024	16	256	576	
(fo - fe )2	16.66	42.6 6	0.66	10.66	24	

$$X^2 = \sum_{i} \frac{(fo - fe : 2)}{fa} = 94.64$$

The value of X<sup>2</sup> is 94.64 and which is far more than 13.27 (able value). So According to views of high school teachers prepared teaching aids on for the proving the theorem. Thus teacher view regarding preparation of mathematical teachings aids is much more favorable.

CHALK AND BLACKBOARD ARE MORE USEFUL IN

MATHEX	Strong	Agre	Undecid	Disagr	Strong	Total
	ly	c	ca	ec.	Disagr	
	Agree				cc	
Observed	48	44	16	12	00	120
Expected	24	24	24	24	24	120
Frequency (f.)	24	20	-8	-12	-24	
(f <sub>e</sub> - f <sub>e</sub> )	576	400	64	144	576	
(f <sub>0</sub> - f <sub>0</sub> ) <sup>2</sup> (fo - fe )2	24	16.6	2.66	6	24	

$$X^2 = \sum_{f \in F} \frac{(f \circ - f \circ )^2}{f \circ} = 73.32$$

The value of X<sup>2</sup> is 73,32 and which is far more than 13.27 (table value). So According to views of high school teachers Chalk and Blackboard are most useful in mathematics teaching learning. Thus Chalk and Blackboards are used by 92% of the high school teacher.

. DIFFERE MATHEM	NT MI VÁTICS	THOL	P		Strongl	Total
	Strong ly Agree	Agre	Undec	Disa gree	y Disagre e	
Observed	60	56	. 00	04	00	120
Frequency (f <sub>a</sub> ) Expected	: 24	24	24	24	24	120
Frequency (f.)	36	32	-24	-20	-24	- 1
$(f_a - f_a)$ $(f_a - f_a)^2$	1296	1024	576	400	576	
(fo - fe )2	: 54	42.6 6	. 24	16.6	24	

 $X^2 = \sum_{f} (\frac{(fo - fe)^2}{f_f}) = 161.32$ 

The value of X<sup>2</sup> is 161.32 and which is far more than 13.27 (table value). So According to views of high school teachers Different methods of teaching are most useful in mathematics teaching. Thus Mathematics teaching needs various skills and strategies. Thus 98% teachers are dworable in application of different teaching methods of mathematics.

#### IV. CONCLUSION

The results of this study lead us to an important conclusion that More than 93% of teachers agree about the use mathematics laboratory to increase the interest of students in mathematics subject. So use of mathematics laboratory create interest in the subject. So According to views of high school teachers prepared teaching aids on for the proving the theorem. Thus teacher view regarding preparation of mathematical teachings aids is much more favorable. So teachers attitude towards use of mathematics laboratory is most favorable. Policy maker should focus on issue of development of mathematics laboratory at high school level in Maharshtra static.

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Page 184

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## REVIEW OF RESEARCH

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# ATTITUDE OF HIGH SCHOOL STUDENTS TOWARDS IMPACT OF MATHEMATICS LABORATORY IN LEARNING

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#### **ABSTRACT**

The main objective of this study was to survey the extent of the sec of laboratory approach to mothematics instruction in secondary schools of Amravati Division. Seven hundred high school students of Wil Standard were purposively sampled from various granted schools. The instrument used for the study was attitude scale of use of Mathematics Laboratory in learning. Major results showed that Mathematics laboratories are virtually non-existent in our secondary schools, and the laboratory approach to mathematics instruction is lawfly used by mathematics teachers.



This study was based on a survey of high school students about their attitudes towards Mathematics behavior or use in learning. Students of both the gender constitute the population of this study. Sample of the study was 700 students (male = 350 and female = 350) of 8<sup>th</sup> Class selected conveniently from 10 sovernment granted schools. Descriptive statistics and t-test with P < 0.05 level of significance were used for atta analysis.

Based on the findings, state governments are advised to provide funds to schools to enable the establishment of mathematics laboratories.

WORDS: Attitude , Impact, Mathematics Laboratory, Learning, High School Students .

#### **INTRODUCTION**

Mathematics Laboratory is a place where students can learn and explore mathematical concepts and verify mathematical facts and theorems through a variety of activities using different materials. These activities may be carried out by the teacher or the students to explore, to learn, to stimulate interest and evelop favourable attitude towards mathematics. That is, a mathematics laboratory is a place where we find a collection of games, puzzles, teaching aids and other materials for carrying out activities. These are meant to be used both by the student by their own and together with their teacher to explore the world of mathematics, to discover, to learn and to develop an interest in mathematics.

Mathematics is the bedrock of all scientific technological investigations and has provided the route to modern world of science and technology. In order to understand the subject matter, teachers and researcher have developed problem solving models and strategies to consequently, improve the performance of learners (Adaramola & Onvoiduokit, 2010).

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21



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a result, teachers are interested in ways to effectively cause students to understand better and learn Teachers want to bring about better understanding of the matter. It is the responsibility of the education institutions and teachers to seek more effective ways of teaching in order to meet individuals and society expectations from education. Improving teaching methods may help an institution meet its goal of achievin improved learning outcomes.

#### **LEARNING BY DOING:**

There are several ways of learning, viz., Learning by seeing and Learning by doing, "Learning by Doing" is one of the most effective ways of learning. It is in this context that mathematics experiments play : vital role in not only arousing the interest of the learner but also in making the learning of mathematic more meaningful. In the process of "Learning by Doing", students also learn some applications o Mathematics in real life situations, Hence the use mathematics experiments ensures better understanding among the students.

#### MATHEMATICS LABORATORY:

Mathematics Laboratory is a place where students can learn and explore mathematical concepts werify mathematical facts and theorems through a variety of activities using different materials. These activities may be carried out by the teacher or the students to explore, to learn, to stimulate interest and develop favorable attitude towards mathematics.

Laboratory method is based on the principles of "learning by doling" and "Learning by observation" and proceeding from concrete to abstract. Students do not just listen to the information given but do something practically also. Principles have to be discovered, generalized and established by the students in this method. Students learn through hands on experience. This method leads the student to discover mathematical facts.

#### NEED AND PURPOSE OF MATHEMATICS LABORATORY:

Dr.N.M.Rao (2009) explained some of the ways in which a Mathematics Laboratory can contribute to the learning of the subject are:

- It provides an opportunity to students to understand and internalize the basic mathematical concepts through concrete objects and situations.
- 2. It enables the students to verify or discover several geometrical properties and facts using models or by paper cutting and folding techniques.
- 3. It helps the students to build interest and confidence in learning the subject.
- 4. The laboratory provides opportunity to exhibit the relatedness of mathematical concepts with everyday life.

  S. It provides greater scope for individual participation in the process of learning and becoming autonomous
- learners.
- The laboratory allows and encourages the students to think, discuss with each other and the teacher and assimilate the concepts in a more effective manner.
- It enables the teacher to demonstrate, explain and reinforce abstract mathematical ideas by using concrete objects, models, charts, graphs, pictures, posters, etc.

Taking into consideration the national, aspirations and expectations reflected in the recommendations of the National Curriculum Framework developed by NCERT, the Central Board of Secondary Education had initiated a number of steps to make teaching and learning of mathematics athool stage activity-based and experimentation oriented. In addition to issuing directions to its affiliated schools to take necessary action in this regard, a document on "Mathematics Laboratory in Schools—

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wards joyful learning' was brought out by the Board and made available to all the schools. The document primarily aimed at sensitizing the schools and teachers to the concept of Mathematics Laboratory and creating awareness among schools as to how the introduction of Mathematics Laboratory will help in chancing teaching- learning process in the subject from the very beginning of school education. The document also included a number of suggested hands-on activities.

miectives: The following objectives have been formulated related to the study:

- To develop the attitude scale towards impact of mathematics laboratory in learning for high school dents.
- To find out the difference between students attitude towards confidence in use mathematics laboratory in learning patterns.
- To find out the difference between Government and Government aided high school students attitude ands use of mathematics laboratory for learning.
- To find out the difference between urban and rural high school students attitude towards use of athematics laboratory for learning.
- ■To find out the difference between English and Marathi medium high school students attitude towards of mathematics laboratory for learning.

#### HYPOTHESES

There is no significant difference between Government and Self-finance secondary school students

- attitude towards mathematics. MO1: There is no significant difference between Government and Government aided high- school students attitude towards impact of mathematics laboratory for learning..
- MO2: There is no significant difference between male and female high school students attitude towards pact of mathematics laboratory for learning.
- **IDO3:** There is no significant difference between urban and rural secondary students attitude towards earning
- ■D4: There is no significant difference between English and Marathi medium high school students attitude wards impact of mathematics laboratory for learning.

#### ETHOD AND PROCEDURE

Bethod of the Study: Considering the objectives and hypotheses of the study, the investigator had selected normative survey method for the present study.

The following methods and procedures were adopted to conduct this study.

#### POPULATION AND SAMPLE

The random sampling technique was adopted the present study. The investigator selected only 8th standard students for the sample 700 students from Amravati Division, India.

Students of both the genders constitute the population of this study. Sample of the study was 700 students (male = 350 and female = 350) of the 8th Class from government and aided schools selected conveniently from Amravati Division.

TABLE -1

Type of school	Medium	Students	Gender		AREA	
Type of school			M	F	บ	R
Government School	Marathi	200	100	100	100	100
Government aided school	Semi -Eng	500	250	250	350	150

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23

#### INSTRUMENT FOR THE STUDY

Attitudes were measured by using researcher designed Attitude of students towards impact of math laboratory Scale consisted of 25 statements. This instrument was developed for measuring attitude of male and female students towards use of mathematics laboratory in learning. It consisted of four subscales: a confidence about mathematics learning to develop understanding of self learning patterns of mathematics, easiness in understanding subject mathematics laboratory method , enhancement mathematical interest. Some of them measured a positive attitude and some measured a negative attitude. This instrument was based on five point Likert scale. By adding the score for each scale, the total for that attitude was obtained. The highest possible score for each scale was 125 points. This adapted form of instrument was pilot tested and self prepared.

Statistical Used: The mean, standard deviation and t- test were used for analyzing the data.

#### Testing of Hypotheses:

Hypothesis: 1HO1 There is no significant difference between Government and Government aided high school students attitude of impact of mathematics laboratory for learning.

		Т	ABLE -2			of.
Variables	N	М	S.D	t-value	Level significance	of
Type of school Government School	200	87.48	6.88	1.66	Not significant At 0.05 level	
Aided school	500	88.40	6.18			

It is inferred from the above table: 2 that the calculated t-value (1.66) is lesser than the table value (1.96). Hence the hypothesis is accepted. Thus, there is no significant difference between government and aided high school students attitude towards impact of mathematics laboratory in learning.

Hypothesis: 2 HO2: There is no significant difference between male and female high school students attitude towards impact of mathematics laboratory for learning.

			т	ABLE -3	
Variables	N'	M	S.D	t-value	Level of significance
Gender male	350	87.73	6.62	1.67	Not significant At 0.05 level
female	350	88.54	6.16		(4.67) (-1.4

It is inferred from the above table: 2 that the calculated t-value (1.67) is lesser than the table value (1.96). Hence the hypothesis is accepted. Thus, there is no significant difference between male and female students attitude towards impact of mathematics laboratory in learning.

Hypothesis: 3 HO3: There is no significant difference between urban and rural decondary students attitude towards impact of mathematics laboratory for learning.

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				TA	BLE -4			-
Variables	N	M	S.D	:	t-value	:	Level of significance	:
area	1			,		_		
Urban	450	87.68	6.62		2.61		significant At 0.05 level	
Rural	250 .	88.96	5.98	-				1

It is inferred from the above table: 4 that the calculated t-value (2.61) is greater than the table table (1.96). Hence the hypothesis is rejected. Thus, there is significant difference between urban and rural condary students attitude towards impact of mathematics laboratory in learning.

**Supothesis:** 4 HO4: There is no significant difference between English and Marathi medium high school state at titude towards impact of mathematics laboratory for learning.

	TABLE -5									
Variables Medium	N	М	S.D	t-value	Level of significance					
Marathi	200	87.83	6.88	1.00	Not significant . At 0.05 level					
Semi -eng	500	87.27	6.18	1						

It is inferred from the above table: 5 that the calculated t- value (1.00) is lesser than the table value (1.96). Hence the hypothesis is accepted. Thus, there is no significant difference between medium high school students attitude towards impact of mathematics laboratory in learning.

#### CONCLUSION:

Mathematics involves thinking logically and reasonably so as to understand how formulae are derived and their applications. In order to enhance learners' mastery and meaningful learning of mathematics, it is necessary to reduce to the bearable minimum its level of abstraction with the use of instructional materials used in mathematics laboratory activities. Mathematics laboratory provide opportunities to handle instructional materials that facilitate effective teaching and pleasant learning that esaching aids through which learning process encourage and motivate student under the classroom situation. Thus laboratory enhances the quality of teaching learning process. Although mathematics is not an experimental science in the way in which physics, chemistry and biology are, a mathematics laboratory can contribute greatly to the learning of mathematical concepts and skills. After discovering something by own efforts, the student starts taking pride in his achievement, it gives him happiness, mental satisfaction and encourages him towards further achievement.

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# STATUS OF INDIAN WOMEN AND NEED OF WOMEN EMPOWERMENT FOR NATIONAL DEVELOPMENT

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Abstract: This paper Focus on empowerment of women, status of women in society & how they work for family; social as well as on political ground, this paper shows necessity of women empowerment if they empowered they become source of infinite power.

#### Introduction

The subject of empowerment of women has becoming a burning issue all over the world including India since last few decades. Many agencies of United Nations in their reports have emphasized that gender issue is to be given utmost priority. It is held that women now cannot be asked to wait for any more for equality We all know that girls are now doing better at school than boys. The annual results of Secondary and Higher Secondary Board examinations reveal this fact. More women are getting degrees than men, and are filling most new jobs in every field.

We can now see women in almost every field: architecture, lawyers, financial services, engineering, medical and IT jobs. They have also entered service occupations such as a nurse, a beautician, a sales worker, a waitress, etc.

#### Status of women is society

Women's were considered a weaker sex they were given a subordinate status in they Hindu society she is protected by the father in her childhood, by the husband in her adult hood & by the son in herald ate' The male dominated paternal system allows her to survive as secondary member of the family & lower citizen society.

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A women expected to daughter in her father-in-law household to which she goes after her marriage she is placed under severe restrictions and has little or no say in decision making and is directly subordinate to her mother-in-law. Her status in the family depend greatly on her husband's contribution to the family economy, and in the middle & upperclass, on the amount of dowry brought by herself.

They learn early in the life need for flexibility, adjustment & submissiveness and hesitate to develop strong opinion and commitment which they, may not be allowed to pursue after marriage. These constriction & inhibitions affected most women in their later over, particularly when they have to complete with men in their careers.

Women today are trying to understand their position in the society, women have became increasingly aware of sexual inequalities in every sphere of life and are seeking ways to fight.

No decision is now made in matters of education between boys & girls, their voice is now are forceful & important as that of men. They are becoming equal partners in making or dismissing of government. Women Empowerment still an illusion of reality

Not-with standing the remarkable changes in the position women in free India there is still a great divergence between constitutional position and stark reality of deprivation & degradation.

Whatever whiff of emancipation has blown in Indian society, has been inhaled and enjoyed by the urban women, their population belonging to the rural a rear are still totally untouched by the coined of changes. They still have been living in miserable conditions, steeped in poverty, ignorance, superstition and starve.

They are still exists a wide gulf between the goals encysted in the constitution, legislation polices, plans, programmers and related mechanism on the hand and the situational reality on the stator of women in India, on the other.

"You can tell the status of nation by looking at the status of its women" Pandit

Equality & empowerment of women are the most critical points and gender equality is not an agenda of women versus men rather men should be partners in the empowerment of women.

EDUNOUS indexed with Scientific Indexing Services (Texas, USA), COSMOS (Germany), IIJIF Empowerment of women in any society is an important to enable women to participation in the economic & political development of society.

What is Empowerment?

Women empowerment is new phase in the vocabulary of gender literature; The phrase is used in two broad sensor i.e. general & specific. In general since. It refers to empowering women to see self dependent by providing them access to all the freedom and opportunities which they were denied in the part only because of their being 'Women' In specific sense 'women empowerment refers to enhancing their position in the power structure of society.

Kessler Harris, 1981

"Women empowerment allows be appreciating & acknowledging for who they are and what they do". The empowerment essentially means that they women have the power or capacity to regular their day-to-day lives in the social political & economic terms a power which enable them to move from the periphery to the center state.

What are issues for this sorry state of affairs?

Some basic issues

Lack of awareness

Lack of social & economic empowerment Lack of political will

Freeness of accountability Mechanism

Lack of enforcement by the police force.

Lack of gender culture.

Today women change from Feeling weak to feeling strong.

Ways to Empowered Women

1)Create a safe space: Women in to gather with other women and Talk about issues like gender equity, women's rights, or health.

- Support independence and mobility:
   Most of women in rural India have to ask their husbands for permission to leave home.
- 3) Teach women to read: If you are illiterate, simple things like reading signs on a road, numbers on a phone, or directions on a medicine bottle make daily life a struggle
- 4) Increase savings and income: Savings cooperatives allow women to invest money and then take turns receiving micro-loans to start micro-businesses or invest in education for their children.
- 5) Teach job skills and seed businesses: Women learn beekeeping, mushroom farming, sewing, and other incomegenerating skills through training programs.

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6)Build self-esteem and confidence: helping them to become more comfortable speaking in front of groups and sharing opinions.

7) Boost decision-making power: they have greater decision-making power in their homes and communities.

"They were mostly busy doing household activities before... but now they can travel outside of the village alone, [earn an income] in our family, and participate in decisions related to their children's education."

- 8) Impact health: Increased influence in their families and communities on health care, family planning, domestic violence and reproductive rights.
- 9) Build networks: By building social networks, women have more support and greater opportunities to effect change in their communities alone.
- 10) Create public leaders: provide leadership training for women to increase their presence in the public sphere. 61-65% of women report that they are now able to express their opinions in public or in their home. Women report joining committees, facilitating meetings, participating in protests, raising their voices against violence, and organizing community programs.

The Principles for women empowerment

- Establish high-level corporate
  leadership for gender equality
- Treat all women and men fairly at work - respect and support human rights and non discrimination
- Ensure the health, safety and wellbeing of all women and men workers
- 4)Promote education, training and professional development for women
- 5) Implement enterprise development, supply chain and marketing practices that empower women
- 6) Promote equality through community initiatives and advocacy
- 7) Measure and publicly report on progress to achieve gender equality

Women is the source of Infinite Power

Maharshi karve worked ceaselessly with a missionary zeal for the upliftment of women. Maharishi Karve used to say "as for as the question of status and right of women are concerned, I will never accept defeat as I do not believe that women have a lesser capacity to learn."

Education enables women to effectively participate in the affair of the country and, indeed in their own family.

"The roots of Education are bitter, but the fruits are sweet Educate the Girl and change the Generation" Kiran Bedi

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#### Female Education

Female Education is a process of Educating Females in order to make them efficient and effective members of society both at home and outside. It should enable them to look after and take care of their daily life duties and responsibilities as well as their legitimate rights. Thousand of girls otherwise intelligent and capable enough to get Education , but are deprived of because of multifarious social cultural and economical reasons and Gender prejudice. Due to this reason they are unable to play active role in the development of society.

"If you Educate a boy ,you Educate an individual, but if you Educate a girl you Educate a community" African proverb

Different Role Of Women

Family Role- A women Role extend from being an important member of family daughter-wife, and mother to being a determinant of social development and building Nation.

The capacity of contribute increases immensely when the family environment is stable.

A women has been endowed with a special gift from nature to give tender love to her children's and family and to keep the cord of love strong amongst relations which binds the family into loving, healthy and cultured family there fore the English saying, "Good Created Mother because he could not be present every where."

Many of the approached & values in the life are learned by a child from the mother.

Women therefore are after described an transmitters of knowledge and architects of the future. Educated women tend to provide better guidance to their children and also promote education of their Girl children. Women contribute to the development of good family, compassionate society, a progressive nation and a more tolerant world. This role is very important in society, which women should never forget.

Social Role;- Educated women can be an effective voice for articulating women related causes. They can be the voice in the fight against social evils like female filicide, childe marriage, dower & addictions, as well as against the discrimination and biases that exists in society against women.

They can be the advances for improved working condition for women. Educated women can help other women self-reliant and self-confidant. They can counsel other

EDUNOUS indexed with Scientific Indexing Services (Texas, USA), COSMOS (Germany), HJIF women as well as share experiences about career choice, employment opportunities and business enterprises and also in maker like nutrition and childcare. If the women of India work in this collective and collaborative spirit, change would be inevitable and change would be that which recognize, in full measure, the talent and potential women.

## Political Role-

Women participation in the political and economic activities of a society enriches the fabric of a nation. Many women in India have reached high position and many others are doing well in different sphere and even in professions once unthinkable for women, I am hove ever conscious about the contracts and difficulties that they face in realizing their full potential but women still do not have the same opportunities of men.

#### Conclusion

Women in the modern hi-tech society, which is morning very fast under the shadow of population explosion, conflicts, chops and cooption can mould the personality of the adolescent & and youth in a proper direction and perspective, provided the women are themselves empowered.

Women are in integral part of our society. The idea of human race can't be conceived without the existence of a women. Women in the holy books have been bestowed with a very high status and have been adored with various objectives, she is called as mother of the nation and it is said that education of the mother means education of entire family. Hence Empowered women for development of nation

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# ading in A Digital Age: Print Versus Digital Special Reference to Shri Shivaji College of Education, Amravati

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#### Abstract

Recent advancement in technology have provided new ways of dealing with Information with five Technology. The Libraries are moving towards digital resources which are found to be less sive and easily available. And Readers prefers this Resources due to the increased availability where that allow reading from the screen, any where any time. In the last decade, computers so and the Internet access have become widely available. Such increased availability of technology lead to changes in reading guality and reading habits In Digital Fax commonly available Resources CD, ROMS, Online Databases, Library OPACS & Internet etc. Which are Replacing the print media Study Focuses on the on the changing reading labits of students. and determine the differences been them while assessing the impact of the Internet and online environment on individuals' reading avior.

Key Words - Reading, Digital reading Print media, Electronic media, Behavior, E-Resources

#### Introduction

Information Communication Technology is the use of Computer based technology and immunication services available to a wide range of users. The Technologies and Devices like radio sphone, telegraph, Fax, Ty, Mobile phone, Internet, video conferencing inter the major part of ICP With Amount Technology and availability of Exesources. With Technology Availability of Online newspapers, aline books and journals. As a result, the amount of text based information available offline is steadily reasing. Readers use the Internet to seek information, read news, to communicate, and for entertainment poses, and sepscially the younger generations are using more online Resources and they prefers to add online as compare to print media. this study attempts to investigate reading behavior in the digital avironment by analyzing how people's reading behavior has changed over the past ten years. Indectanding changes in reading behavior would help in designing more effective digital libraries and onpower users in the digital environment.

Digital age - The digital age, also called the information age, is defined as the time period starting with a 1970s with the introduction of the personal computer with subsequent technology introduçed coviding the ability to transfer information freely and quickly. The digital revolution has done much to reshape how students read, write, and access information. Once-handwritten essays are now word-processed. Encyclopedias have yielded to online searches. One-size-fits-all teaching is tilting toward personalized learning. And a growing number of assignments ask students to read on digital screens rather than in print.

Digital media - These new tools make it possible for millions of people to have access to texts that do therwise be beyond their reach, financially or physically. Computer-driven devices enable us to expand our scope of educational and recreational experience to include audio and visual materials, object of demand. But as with writing, it's an empirical question what the pros and cons are of the old and the bew.

Interacting with text on digital devices; including e-books and story apps with dynamic visuals, attending the properties of the propertie

Reading is an important and most significant activity in a society. It is important for people to acquiring knowledge and information. Even though information may appear in many different media, the point is people still need to read. Reading is said to help in jadiovala! swell-being and self development. Reading habits are an essential part of life skill and development self-being solving skills in our daily life. Students in academia acquire knowledge through learning and reading print and electronic sources.

Revamping of Academic Libraries for New Generation VOL-1 | 167



Principal
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#### Objectives

To find the favorite form of reading material read by the students

To know the preference in reading newspapers, magazines and books among students To discover the preference among different users towards electronic sources of information

over that of printed sources or vice versa Scope and Limitations - The present study examines the existence of various e-resource date Shri. Shivaji College Of Education. There are total 100 students 1st Sem & 4th Sem. This study is lim

only students in this Library. Research methodology Data collected from students with interview method containing the ques relating to the use of electronic environment and reading. 10 questions to elicit the opinion of students of B.Ed in Shri. Shivaji College Of Education Amravati... The data collected from the respondent

have been classified, analyzed and interpreted separately. I asked students Following Ten Questions Related to Reading in A Digital Age: Print versus Digital media and on the answers of all ten Questions Result is found.

Which is the favorite form of reading material?

Z) How much time they spent reading in print versus onscreen?

3) Preference in reading newspapers, magazines and books among students?

4) In which medium they were more likely to reread?

Whether cost was a factor in their choice of reading platform? Whether text length influenced their platform choice?

How likely they were to multitask when reading in each medium; and

In which medium they felt they concentrated best?.

Preferred Language for reading

Why you go through e-resources?

Data Analysis

1) Which is the favorite form of reading Material?

All most students answers that they preferred print media for study For the purpose of be academic and leisure, a majority of students read printed publications such as newspapers, books a magazines Even though the majority of students read almost every day, the number of those who we not reading regularly can be considered quite high thinking that students supposed to read almost exday. On average, students took less than one hour to read in a day, followed by 1-2 hours a day and se few students read more than 3 hours in a day

2) How much Time They Spent in reading?

Even though the majority of students read almost every day, the number of those who were reading regularly can be considered quite high thinking that students supposed to read almost every d On average, students took less than one hour to read in a day, followed by 1-2 hours a day and very [--students read more than 3 hours in a day.

3) Preference in reading newspapers, magazines and books among students?

They were allowed to choose more than one type of reading materials. The majority of snade read magazines and books & other materials such as newspapers, novels, etc. and the least numbers for journal. It is believed that journal reading was done merely for academic purposes. 4) In which medium they were more likely to reread? Why?

They like to read in Print Medium, because there are no distractions for a reader that is come to finishing an article. Once they start reading, there are no other bits of news, auto-playing video pop-ups taking the spotlight off the article This means that a reader's full attention is oriented to

specific content. 5) Whether cost was a factor in their choice of reading platform?

More than four-fifths of the participants said that if cost were the same, they would choose to in print rather than onscreen

6) Whether text length influenced their platform choice?;

6) Whether text length that is short, participants displayed mixed preferences, both when reacademic works or for pleasure. However, with longer texts, preferred print for work and when rese pleasure. Preference for reading longer works in print has been reported in multiple studies.

7) How likely they were to multitask when reading in each medium? Students reported being more likely to multitask when reading onscreen than in print. reasonably infer that students who multitask while reading are less likely to be paying close att the text than those who don't.

168 | Atharva Publications

a) In which medium they felt they concentrated best? The most dramatic finding for this set of questions came interprofess to the query acceptance. mm on which students felt they concentrated best. Selecting from prints compiler, tablet, e-reads to phone, Most of the students near about 95% said it was easiest to concentrate when reading

9) Which Language they Preferred for reading

Most of the students from Art faculty & they mostly preferred Marathi Language. But They told on Net E-resources mostly available in English language. 10) Why you use e-resources?

Digital is (commonly) less expensive. And users can access the collection any time of day and any re in the world with only an internet. Findings

From answers from students it is found that

- B. Ed Student's favorite form of information is Print Media
- Even though the majority of students read almost every day
- On average, students took less than one hour to read in a day, followed by 1-2 hours a day and very few students read more than 3 hours in a day.
- They are like to read in Print Medium
- Cost is not Issue for them. More than four-fifths of the participants said that if cost were the same, they would choose to read in print rather than onscreen.
- Preference for reading longer works in print has been reported in multiple studies.
- Students reported being more likely to multitask when reading onscreen than in print.
- Most of the students from Art faculty & they mostly preferred Marathi Languages
- Most of the students near about 95% said it was easiest to concentrate when reading pri Digital is (commonly) less expensive. And users can access the collection any time of day and any where in the world with only an internet. Hence some time they prefer Digital media

#### Conclusion

The two forms of mass media, i.e. print media and electronic media, is proved helpful in implementing strange in people's habits, beliefs and attitudes. It also makes people aware of different types of crimes wrongdoings going on in the society, as well as it also helps people in getting updated about the arious government policies and changes in the process! from study it is observed that students in Shri. Shivaji College of Education like print media more as compaired to digital After all, the end concluded that digital and print media both are better. But the students like Print media more as comp aired to Digital.

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Revamping of Academic Libraries for New Generation VOL-I | 169



## REVIEW OF RESEARCH

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#### ATTITUDE OF B.ED. TRAINEES TOWARDS FUNDAMENTAL VALUES

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#### ABSTRACT :-

Values are regarded as desirable, important and held in high esteem by a particular society in which Person lives. The Challenges of Sciences and technology necessitate a dynamic educational policy not merely to develop skills but to evoke fundamental values system that would be intrinsic laying strong foundations for its people. Environmental values can not be seen different than general fundamental values. It has a focus on interactions between human activities and biosphere and needs to study the impact of all kinds of human activities. The general purpose of the study was to measure the attitude of 8.6t. trainees towards fundamental values. The sample of activities of Selt. traines towards fundamental values. The sample of



100 B.Ed. trainees was drawn from two B.Ed. colleges in Amravati district of Maharastra state by applying random sampling method. The scale measuring attitudes towards three values [Respect for nature, solidarity and equality] that underlie sustainable development prepared by Tomas Tarbjornsson, Lena Mailin and Martin Karlberg 2008 was the tool used for collecting the data. Mean, S.D. and "t" test were used to analyze the data. The study inferred that, Female , first year students, private college Students and students of illiterate parents are more favorable than male, Second year Students, Government aided College students and Students of literate parents towards fundamental values.

KEYWORDS: Fundamental values, Environmental values, sustainable development.

#### INTRODUCTION

Life is Education is a process of transmission of certain values to help the learner to lead a good life a kind of life that is satisfying to the individual in accordance with the cherished ideals and values of society. Fundamental values impart significance and meaning, Without values, life becomes a series of meaningles events. Values not only help a man in self-evaluation but also in self-drive. The application of scientific and technological knowledge to comforts of man has reduced him to a mechanical being, resulting in degeneration of the value system. Technological advance has been seen largely as the measure of progress, inspite of the many achievements in quantity and quality, education stands at crosstroads and our political and social life is threatened with erosion of the long-accepted values. The educational system has over emphasized the development of the mind and has used all the resources of the world to nourish it. Environmental values can not be seen different than general fundamental values. It has a focus on interactions between human activities and biosphere and needs to study the impact of all kinds of human activities. Also we need to develop, well accepted norms of behaviors for the conduct (Sundamental values) of individuals, societies, communities, nations and world all rounds.

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"



Principal Principal American American human beings are projections of nature. Instead of being selfish and self-centred, if our sense of self is widened, , care and concern to others would become an integral part of life. The need of the hour in the modernized society is to integrate fundamental values in their way of life to have quality of life.

#### OBJECTIVES OF THE STUDY :-

- 1. To find out the attitude of B.Ed trainees towards fundamental values.
- 2. To analyze the attitude of B.Ed trainees towards fundamental values with respect to their gender, class, management of the college, fathers educational qualification.

#### HYPOTHESES :- \*

- 1. Male and female B.Ed trainees do not differ significantly in their attitude towards fundamental
- 2. First year and Second year B.Ed trainees do not differ significantly in their attitude towards fundamental values.
- 3. Government aided and private college B.Ed trainees do not differ significantly in their attitude towards fundamental values.
- 4. B.Ed trainees of literate and illiterate parents do not differ significantly in their attitude towards fundamental values.

#### METHODOLOGY :-

#### Sample :-

A sample of 100 B.Ed. trainees (first year and second year) was drawn by applying random sampling method from two B.Ed colleges in Amravati district of Maharashtra State.

#### Tool -

The scale developed by Tomas Torbjornsson, Lena Molin and Martin Karlberg, 2008 was the tool used for collecting the relevant data.

#### Method of Study :-

Descriptive survey method was employed for the present study.

#### PROCEDURE :-

Tomas Torbjornsson, Lena Molin and Martin Karlberg Scale was administered to 100 B.Ed. trainees. The study focuses on three of the key values underlying the UN Millennium Declaration: Respect for nature, solidarity and equality. Respect for nature is related to the environmental dimension of sustainable development and is in the present study expressed by a combination of attitudes to the preservation (biocentric) and utilization (anthropocentric) of nature. The choice of solidarity and equality is based on their connection to the social and economic dimensions of sustainable development.

The scale comprises of 28 statements on four major dimensions Viz. bio-centric values , anthropocentric values, values of solidarity and values of equality. Each item in the scale was provided with responses such as strongly agree, agree, undecided, disagree and strongly disagree. 5,4,3,2 and 1 were assigned for positive statements and for the negative items the weightage was given in the reverse order. The reliability and validity of the tool were found to be 0.80 and 0.89 respectively. The summated score of all the 28 items provided the total attitude score of a student. The maximum possible score was 140 and the minimum score was 28. The data thus, collected were analyzed using appropriate descriptive and inferential statistical techniques.

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

#### STATISTICAL TECHNIQUES :-

Both descriptive and inferential statistics were employed for analysis of the data. The descriptive statistics such as mean and S.D. were used.

Inferential statistics such as t-test was employed. "t" value was calculated to know the significant difference between the variables.

#### aesults:-

Table 1:- Attitude of B.Ed. trainees towards fundamental values with respect to their Gender

ï	Gender   N   Mean   S.D   t value   Level of Significance						
	Gender	N	Mean	S.D	t value	Level of Significance	
	Male	42	131.52	7.23			
	Female	58	124 87	10.25	E 46	-iifit	

The above table shows that, at 98df 0.05 level of significance the calculated "t" value is greater than the table value 1.98

Therefore it is inferred that, Male and female B.Ed. trainees differ Significantly in their attitude towards fundamental values.

Hence it is concluded that, there is a significant difference in the attitude of male and female B.Ed. trainees towards fundamental values.

Table 2:- Attitude of B.Ed. trainees towards fundamental values with respect to their class

			ui us it	maamem	ai values with respect to
Class	N '	Mean	S.D	t value	Level of Significance
First year	50	127.35	7.76	1.95	Not Significant
Second year	50	123 00	0.60	1	-

The above table shows that, at 98df 0.05 level of significance the calculated "t" value is less than the table value 1.98

Therefore it is inferred that, First and Second year B.Ed. trainees do not differ significantly in their attitude towards fundamental values.

Hence it is concluded that, there is no significant difference in the attitude of First and Second year B.Ed. trainees towards fundamental values with respect to their class.

Table 3:- Attitude of B.Ed. trainees towards fundamental values with respect to Management of the

College							
Management of the College	N	Mean	S.D	t value	Level of Significance		
Govt. aided	46	122.65	7.89	7.87	Significant		
Private	54	126.97	8.21				

The above table shows that, at 98df 0.05 level of significance the calculated "t" value is greater than the table value 1.98

Therefore it is inferred that, Government aided and Private college B.Ed. trainees differ Significantly in their attitude towards fundamental values. Hence it is concluded that, there is a significant difference in the attitude of Government aided and

Private college B.Ed. trainees towards fundamental values.

Table 4:- Attitude of B.Ed. trainees towards fundamental values with respect to their Father's educational qualification

Father's educational qualification	N	Mean	S.D	t value	Level of Significance	
Literate	52	125.14	8.60	1.82	not Significant	
Illiterate	48	126.29	8.06			

The above table shows that, at 98df 0.05 level of significance the calculated "t" value is less than the table value 1.98

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

## A TITUDE OF B.ED. TRAINEES TOWARDS FUNDAMENTAL VALUES

Therefore it is inferred that, B.Ed. trainees of Literate and Illiterate parents do not differ Significantly in their attitude towards fundamental values.

Hence it is concluded that, there is no significant difference in the attitude of B.Ed. trainees of Literate and illiterate parents towards fundamental values.

#### FINDINGS :-

- 1. Male and Female B.Ed trainees differ significantly in their attitude towards fundamental values.
- First and Second year B.Ed. trainees do not differ significantly in their attitude towards fundamental values.
- Government aided and private college B.Ed. trainees differ significantly in their attitude towards fundamental values.
- B.Ed. trainees of literate and illiterate parents do not differ significantly in their attitude towards fundamental values.

#### **EDUCATIONAL IMPLICATIONS:**

- 1. Making fundamental values education an integral part of school and college curriculum.
- Monitoring the practices of teachers and administrator in the educational institutions regarding the implementation as designed in the textbooks
- Not treating fundamental values education as a theory paper rather for changing the mindset of the people towards fundamental values.
- Design and development of dramatic activities, exhibition on fundamental values education, posters for promoting education on fundamental values and arranging intercollegiate competitions.

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## REVIEW OF RESEARCH



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## 'शिक्षण प्रशिक्षण अभ्यासकम सदयरिथती समस्या आणि अभ्यासकमाची अंगलबजावणी '

प्रा.डॉ.संजय भि.ख्कडसे **Āंस्टिके के कि**र्का श्री.शिवाजी शिक्ष्ण महाविद्यालय,अमरावती

#### शिक्षण प्रशिक्षण अम्यासकम

सन् 1983—94 या शैक्षणिक वर्षात कार्याचित केलेला शिक्षणशास्त्र अस्तासकम गेली 10 वर्ष चालू आहे. या 10 वर्षात अनेक घडामोडी राज्यात, देशात आणि जगात विशेषतः शिक्षणक्षेत्रात घडून गेल्या आहेत. या सा—या घटनांचा शिक्षण व्यवस्थेत एरिगाम होत असत्याचे दिस्ता आहे. शिक्षणव्यत्त्रच्या ही एकंदरीत समाजप्रणालीयो एक उपप्रणाली अस्त उपप्रणाली शिक्षणावर आणि शिक्षण अन्य उपप्रणालीयर परिणाम करीत असते.

आपत्या अभ्यासकमाव्यारे तयार होणारे भावी शिक्षक पुढील 30–35 वर्षे शालेय स्तरावर मुलांना घडविण्याचे, फुलविण्याचे काम करीत राहणार आहेत. या 30–35 वर्षात अन्य उपप्रणालीत कोणते बदल होतील व शिक्षणावर त्याचे कोणते परिणाम होतील

अप उज्जातिको करान वर्षणेकरीण आहे. बदलांचा वेग प्रघंड आहे. त्यात अनपेक्षितताही असणारच आहे. परंतु गेत्या20–25 वर्षात झालेत्या बदलाकडे दृष्टी टाकता काही अंदाज बांधता येतात व त्यानुसारअभ्यासकगांची रचना करतात. त्यानुसार अभ्यासकगात बदल करतात.

#### 'अम्यासकमाचा अर्थ व व्याख्या :-

प्रत्येक वर्गात काय शिकायचे, काय शिकायचे, कशासाठी शिकवायचे याचे नियोजन करून त्याचे संघटन केल्या जाते आणि अश्या संघटीत नियोजनपूर्वक दिलेले स्वरूप म्हणजे अभ्यासकम होय

अभ्यासकम् म्हणजेच ज्ञततपवनसन्त हा तेंटीन शब्द आहे. तेंटीनमध्ये त्याचा अर्थ त्यंमऋबनतेम असा होतो. याला मराठीत शर्यतीचे मैदान' म्हणतात. ज्यामध्ये विषयाच्या आखलेल्या मार्गावरून सर्वागीण विकासाच्या उदिदर्शांप्रत धावत जाणे हे विद्यार्थ्याचे कर्तव्य आहे.

१ ्रेमर्सच्या मते :- "Curriculum is now being defined as all the experiences of the learner that and under the control of the school."

अर्थात शाळेत नियंत्रणाखाली शिकण्यातून प्राप्त होणा-या सर्व अनुभवाचा साठा म्हणजे अभ्यासकमं होय.

2 वाल्टरच्या मते :-

अन्यासकम म्हणजे विद्यार्थ्यांना शाळेच्या नेतृत्वाखाली मिळणारे सगळेच अनुभव त्याच वर्गातील कृतीच्या कांमाचा त्याचप्रमाणे किंडांचाही समावेश होईल.

" Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"



Principal
Shri Shivaji College of Education
Amravati.

#### 3 क्लोच्या मते :-

हैबणिक व्यंये साध्यककन घेण्यासाठी शाब्देत उपयोगात आणत्या जाणा—या सर्व प्रकारच्या अनुगयाचा अन्यासकमात समावेश होतो. हैक्कब्येत्वर संस्कार करण्याच्या सर्व अनुगय व कृती याचा अन्यासकमात समावेश होतो. विविध विषय, त्यातील झान, त्यावप्रमाणे विषय इन्त्यब्यतिरिस्त अन्य प्रकाराचा अन्यासपुरक कार्यक्रमापासून शिक्षण — विद्यार्थी व विद्यार्थी –विद्यार्थी संबंधातून येणारे अनुगय या सर्वाचा इन्त्यक्रमात समावेश होतो

#### तारक :

शिवन प्रशिक्षण अन्यासकम सदयस्थिती समस्या आणि अन्यासकमाची अंमलबजावणी '

#### संशोधनाची उदिदर्धः

- शिक्षण प्रशिक्षण अभ्यासकमाचा अभ्यास करणे.
- शिक्षण प्रशिक्षण अभ्यासकम अंमलबजावणीचा अभ्यास करणे.

#### 'शिक्षण प्रशिक्षण अभ्यासकमाचे महत्व :-

अभ्यासकमाच्या व्याख्या पहिल्यावर व्यक्तीच्या जीवनात अभ्यासकमाचे किती महत्व आहे हे लक्षात येते.

#### अध्यापन – अध्यापन करण्यास शक्य मदत मिळते :-

अभ्यासकमामुळे अध्यापन करण्यास एक निष्टिचत मदत मिळते. काय. कसे शिकवायचे या संदर्भात संपूर्ण ज्ञान अभ्यासकमात असते. तसेच विद्याच्यांची ज्ञारीरिक व मानसिक क्षमता लक्षात घेऊ योग्य अभ्यासकमायी निवढ करणे. सोपे जाते. तसेच विद्यार्थ्यानाध्या करण्यास मदत मिळते. विद्यार्थ्याना आपला भाविक, ज्ञारीरिक पातळीचा अभ्यास अभ्यासकमाब्दारे शिक्षक विद्यार्थ्याना देव शकतात.

#### अध्ययन व अध्यापनाचा दर्जा अभ्यासकमामळे ठरला जातो :-

अन्यासकमामुळे विद्यार्थ्याचे अध्ययनं हे कोणत्या दर्जाचे असावे व शिक्षकाने अध्यापन करतांना कोणत्या दर्जाचे शिक्षण घ्यावे हे . अन्यासकमामुळे ककते. वीचिक सरा, मानीसक स्तर आणि शारिरीक स्तरानुसार विद्यार्थ्यात ययानुसार मिनता आइळते. सर्वाना एकच अकरावा अन्यासकम दित्ता गेला असता तर विद्यार्थ्याचे अध्ययन हे मीट झाले नसते. म्हणून अन्यासकमामुळे विद्यार्थ्याचा स्तर लक्षात घेवून विद्यार्थानी प्राणी करणे शवव होते.

#### 3 अध्ययन – अध्यापनाचे वेळापत्रक नक्की करता येते :-

अध्ययन अध्यापनाये वेळापत्रक अन्यासकामुळे निरिचत करणे शवय होते कारण विद्याव्यांता केचा काय शिकवायाये, कोणत्या एडटनेन्न फेकवायये थांचे संपूर्ण नियोजन अन्यासकामुळे करणे शवय होते म्हणजेच अगदी वर्षांच्या सुरुवातीलाच यांचे नियोजन करून सन्दर्भ अन्तर त्यानसार अनतबजावणी करता येते

#### पन्द्र्या पच्दती मूल्यमापन पघ्दती ठरविता येते :-

े डिडार्ट्यां जारीरिक व मानसिक, बीदिक क्षमतेनुसार विद्यार्थ्यांना अभ्यासकम देता येतो. त्यामुळं त्या अभ्यासकमाच्या आधारे दन्देन म्हणजे कश्या प्रकारची परिक्षा घ्यायची हे उरविता येते. नंतर त्याचे मुल्यमापन कसे करायचे हे सुख्या अभ्यासकमाच्यारे दनकेंद्र वर्त

## 5 हिस्ट्रजानी उदिदास्य साध्य करता येतात :--

ळक्तीच्या संपूर्ण व्यक्तीमत्त्वाचा विकास करणे, कियातमक, बोधात्मक आणि शारीरिक दृष्टीकोनातून विद्यार्थ्याचा विकास करणे है रिक्षम च तदिदृष्टाये अभ्यासकमाच्या माध्यमातून पूर्ण करता येते. बातक जर आपले प्राथमिक शिक्षण येत असेल तर तेव्हा त्याला कोणत्या एकपट पेक्टन दयायव है अभ्यासकमामुळे शक्य होते. तसेच तो जसाजसा आपले शिक्षण येत पूढे जाते तस तशी त्याची वाढ होईल.

<sup>\*</sup> Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

सिकम सदयस्थिती समस्या आणि अभ्यासकमाची अंमलबजावणी

्स्तन्त्रः ट्यटप्याने त्याचा अभ्यासकमाच्या माध्यमातून विकास करता येतो व त्याच्या संपूर्ण व्यक्तिमत्वाचा विकास अभ्यासकमामुळे करती **बहु** जांग हंच शिक्षणाचे ध्येय आहे.

क्टिकांची नेमण्क करण्यास मदत होते :-

क्षेत्रकांची नेमणूक करतांना त्याला कोणत्या निकषांवर नियुक्त करावे हे अभ्यासकमामुळे

**ब्रहेन प्रेह्म प्रशिक्षण अम्सासकमाचे ध्येय** :--

ल्डापूर्व अध्यापक शिक्षणाव्यारे एक सर्वसामान्य व्यक्तीची अध्यापन क्षेत्रातील व्यावसायिकता म्हणून पूर्वतयारी करून घेतली जाते. या क्रिकन्डन्नत (course)तात्रिक (Theoretical) अणि प्रात्यक्षिक (Practical) दोन्ही अंगाचा समावेश दिसून येतो. जन्मच्या कथी तात्विक तर कथी प्रात्यक्षिक भागावर जास्त भर दिल्याचे दिसून येते. असे ज्या ज्या वेळी घडले आहे त्या-त्या वेळी या क्रिक्रण≉नात असंतुलन निर्माण झाल्याचे आढळून आले आहे.

त्तन 1995 मध्ये एनसीटीई वैधानिक संस्था (Statutory Body) म्हणून अस्तित्वात आल्यावर प्रथम हाती घेतलेल्या कामात उटकपक शिक्षण शिक्षणकर्मानी पुनर्श्वना या विषयांचा समावेश होणे अपरिहार्यच होते. नामवंत शिक्षण तझाच्या दोन-अडीच वर्ष झालेल्या डेन्नृत व देशव्यापी विचार मंथनाचे नवनीत म्हणून Competency based and commitment oriented Teacher Education बित Quality School Education आणि Curriculum Frame work for Quality Teacher Education या सन 1998 साली झालेल्या पुस्तकांचा आवर्जून उल्लेख करावा लागेल. राज्यस्तरावर कम करण्या–या अभ्यासकम पूर्नरेवना समितीने त्यांचाय आधार घेतला आहे व राज्याची परिस्थिती तक्षात घेऊन इस्ट ते बदल केले आहेत. रनर्साटीई त्महनसंजपवद,2014नुसार पायापूत अशा या विचारधारणेनुसार अध्यापकाच्या व्यावसायिक व्यक्तिमत्वाची तीन अंगे कल्पीलेली बहेत.

- 1. धमता युक्त
- इ.चीलकीयक्त
- इन्मीरी युक्त
- य देशिष्टयांची ओळख पढील प्रमाणे

्रहमता (Competencies) :-

काणतेही काम यशस्वीपणे पार पाडायचे तर त्या व्यक्तीच्या ठिकाणी जन्मजात (innate) आणि संपादित (acquired) **हम्म**ा असाव्या लागतात. अध्यापकाच्या ठिकाणी काही निश्चित क्षमतांची अपेक्षा असतेच. या क्षमता म्हणजे आंतरिक शक्ती शिक्षणाव्यारे ज्यन्या बोध्दिक क्षमता विकसीत होतात त्या क्षमता जितवया प्रमाणात विकसित होतील तितवया प्रमाणात व्यक्तीची यशस्वी व्यावसायिक हान्याची शक्यता अधिक, म्हणून काही क्षमता क्षेत्रे निश्चित करण्यात आली आहे.

- : संदर्भ क्षमता क्षेत्र
- संबोध क्षमता क्षेत्र
- आशय क्षमता क्षेत्र
- उच्यापन क्षमता क्षेत्र
- इन्च शैक्षणिक कृती संदर्भातील क्षमता क्षेत्र
- **ह ईक्ष**िक साहित्य विषयक क्षमता क्षेत्र
- नृत्यमापन क्षमता क्षेत्र
- क्रक्स्थापन क्षमता क्षेत्र
- च्यक सहकार्यविषय क्षमता क्षेत्र
- 🖈 सम्बद्ध सहकार्यविषय क्षमता क्षेत्र
- 🤰 इन्मीरी : (Performance)

<sup>\*</sup> Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

🕶 इकेच्यन अन्यासकम सदयस्थिती समस्या आणि अभ्यासकमाची अंगलनजावणी '

स्ट्रेस्ट निर्माण होणा-या आणि विकास पावणा-या क्षमता प्रकट होतात. त्या अध्यपकाच्या वर्गातील वा वर्गावाहरील वर्तनातून व्यच्या / तेच्या कामीनिरीतून, पंडिताची व्याख्याच मुकी 'जा कियाशील तोच खरा पंडित (सः कियाचान स पण्डितः।) अशी केली आहे. विकास अध्यप्यकच्या बाह्य वर्तनावर सर्वाचे लक्ष असणे हे योग्य आहे. अध्यापकाची कामीगरी पाच प्रकारांत विमागलेली आहे.

- : ब्लांकंट कम्मागेरी
- श्रतंब पतन्त्रीवरील कामगिरी
- शतन्बह्य कार्यक्रमातील कामगिरी
- म्हकार्य संबंधी कामगिरी
   म्हकार्य संबंधी कामगिरी
- ३ कोलकी (Commitment) :-

अध्यापन ही सामाजिक महत्वाचा व्यवसाय असत्यान अध्यापकांच्या कामगिरीकडे सगळ्यांचेच तस असते. विद्यार्थ्याचे तर असतेय असते असते असते असते असतेय असते असतीत की त्यांच्या कामगिरीचो मृत्यमापनहीं होत असते. आपण स्वतःताच प्रश्न विचारता की कोणते अध्यापक त्यांच्या कामगिरीचा निर्वेची, कान्तेसीने आपत्या तसात राशिंदी व्याच्या कामगिरीचा निर्वेची, अस्ति अस्ति की देव होती, मावनेचा ओसावा होता, मानवी जीवनात मावनेता तसे असामाप्य महत्व आहे. व्याच्या कामगिरीचा माना महत्व आहे. व्याच्या कामगिरीचा अस्ति अस्ति की प्रत्येचा कामगिरीचा विचार की अहें आहे. व्याच्या कामगिरीचा अस्ति अस्ति अस्ति की व्यवस्था अस्ति अस्ति कामगिरीचा अस्ति अस्ति अस्ति (Principles) यांच्यारी त्याची / तिची बांधीतकी हवी. अर्थात म्हणते सोरीच (करणे) वर्तनात उत्तरिची तितकेच किण आहे अस्त्र उत्तर मही असति ते साव्याच ते संतवचन वहें आहे. व्याच्यारी प्रत्येच असी पण (करणे) वर्तनात उत्तरिची तितकेच किण आहे अस्त्र इंग्लंग होंचे स्वाच्या की साव्याच ते संतवचन वहें आहे. व्याच्यारी पणित असी पण संवच बांधितकी की स्वाच्या की साव्याच ते संवचमा वहें स्वाच्या कामगिरीचा अस्ति आपत्याच बांधितकी केन सिक्षाया विचार विचार की सिक्षाया विचार विचार विचार विचार की सिक्षाया विचार विचार की सिक्षाया विचार विचार विचार की सिक्षाया विचार विचार की सिक्षाया विचार विचार किला किणा विचार की सिक्षाया विचार विचार विचार किणा विचार की सिक्षाया विचार विचार की सिक्षाया विचार वि

- देखकांने बाधीलकी
- स्माजनी बांधीलकी
- : **ब्हर**नस्याशी बांधीलकी
- सर्वेत्क्ष्टता मिळविण्याची बांधीलकी
- इ. च्ल्च्च ===वी मृल्यांशी बांधीलकी

## 🗫 प्रश्चित अम्यासकमाची सर्वसाधारण उदिदष्टये

उन्यसकमाधी ध्येये हा व्यावसायीक पूर्वतथारी प्रवासाया अखेरचा बिंदू झाला. परंतू तिथे पोहचेपर्वत अनेक टप्पे पार करावयाये झहर उनक व्यावसायीक वैशिष्टये आत्मसात करावयाची आहेत. त्यांनाच या अभ्यासकमाची सर्व साधारण एदिदण्डये म्हणता येतील न्यप्रेकी कर्क पढ़ील प्रमाणे.

#### • **इन्हर** विषयक :

- इ. नहन उन्तरत असलेल्या आणि तरीही सातत्याने बदलणा—या भारतीय समाजाच्या घडणीतील शिक्षण आणि अध्यापकाची भूमिका समजून इन्यन्त छन्द्रदायकांना मदत करणे.
- **ा दिव**ः इन्नशाखांतील संबोध तत्वे आणि उपपत्ती यांच्या मदतीने आपले विद्यार्थी समजून घेण्यास सहाय्य करणे.
- इ अस्तेट विषयांच्या संख्यांना परिचय करून घेण्यास त्यांची इयत्तावर उदिवस्टये, पाठयकम आणि पच्दती यांच्याशी नाते शोधण्यास इन्जाब्य-क्रांना प्रवृत्त करणे.
- इ अच्छा-नुदं तयारी करतांना अध्ययनातुन निश्चिती संबंधी चिकित्सा करणे वा निर्णय घेण्याची संघी उपलब्ध करून देणे.
- 💈 मुक्क्य-चनाच्या साधनांची निवड वा निर्मिती आणि उपचारात्मक अध्यापनाची निश्चिती यामागील कार्यकारणामाव स्पष्ट करण्याचा सराव

<sup>\*</sup> Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

## 2 कामगिरीविषयक :-

- अ. विविध पध्दती व तंत्रे तसेच उचित शैक्षणिक साधने वापरून अध्यापन करण्याचा सराव देशे.
- ब. संगणकाच्या सहाय्याने चाचण्यांचे निकालपत्र तयार करण्याची व सादरीकरणाची संबंधी प्राप्त करून देणे.
- क. शालेय उमेदवारीच्या काळात अध्यापनेतर जबाबदा-या पार पाडण्याचा अनुभव देणे.
- इ. वंचित मुलांच्या व्यवती–अभ्यासाच्या अनुभव कार्यकमाव्यारे पालकांच्या समस्या समजावून घेण्याची संघी देणे.

#### ३ बांघीलकी विषयक :--

- अ. समाजसेवा कार्यक्रमातर्गत एखादया शिक्षण विषयक अथवा विकास विषयक प्रकल्पात सहमाग घेण्याची संघी उपलब्ध करून देणे.
- व आंतरजालव्दारे (Internet) आपल्या आवडीच्या विषयात अदययावत माहिती मिळवायची संघी उपलब्ध करून देणे.

#### 'शिक्षण प्रशिक्षण अम्सासकम :-

शिक्षणशास्त्र पदविका अन्सासकम सन 1993–94 पासून आमलात आहे. दरम्यानच्या काळात देश तथा राज्य पातळीवर शिक्षणक्षेत्रातील बदलत्या प्रवाहानुसार अन्सासकम स्वारीत होणे कमप्राप्त होते. राज्यात क्षमताधिष्ठीत शिक्षण अन्सासकमांची ३.१ ते 5 मध्ये अंमलबजावणी सन 1997-98 पासून टप्प्याटप्प्याने सुरू झाली याला अनुसरून शिक्षणशास्त्र अम्सासकमाची पूनरर्चना करणे आवश्यक होते. शासनाने शिक्षणशास्त्र अभ्सासकम समितीची पूर्वणणन केले व त्यांच्या मदतीने सुधारीत अभ्सासकम मसुदयाचे समीक्षण करण्यात आले. त्यानंतर अम्सासकम निश्चित करून शासन नियुक्त अन्यासकम समिती व राज्यशिक्षक प्रशिक्षण मंडळाच्या मान्यतेवर हा मसुदा शासनास सादर करण्यात आला. या नविन अभ्यासकमामध्ये प्रात्यक्षिक कार्यावर साधारणतः 🕏 भारांश विषयांतर्गत प्रात्यक्षिकाची योजना, पाठांसाठी वार्षिक परिक्षेचे नियोजन, आशययुक्त अध्यापन समावेश, माहिती संप्रेषण तंत्रज्ञान विषयाचा नव्याने समावेश, कृतीसंशोधन, पर्यावरण, शिक्षणविषयक उपक्रम, शालेय व्यवस्थापन या नव्या विषयांचा समावेश आणि Intership एकूण आठवेडे 16 इ. या सुचारीत अन्यासकमाची समक्ष शिक्षक तयार व्हावा हेच उदिदष्टये या शिक्षणशास्त्र अभ्यासकमाचे आहे.

## अम्यासग्रमाची अंमलबजावणी करतांना येणा—या अडचणी :--

- 1 उशीरा होणारे प्रवेश :-
- अनेक विद्यार्थ्याचे प्रवेश हे उशीरा होत आहे. काही विद्यार्थी तर दिवाळीनंतरयामध्ये प्रवेश घेतात. उशीरा प्रवेश घेण्यात आल्यामळे त्यांना कमी कालावधीत हा अभ्यासकम पूर्ण करावा लागतो.

## खाजगी महाविद्यालयाची भूमिका :-

अभ्यासकम ते योग्यपध्दतीने विद्यार्थ्यांना समजावून सांगू शकत नाहीत.

## 3. व्यक्तिनिती आढळून येते :--

अन्यासकमामध्ये प्रात्यक्षिक गुणांचा समावेश असल्याने शिक्षकांच्याजवळचे विद्यार्थी, मर्जीतील विद्यार्थी त्यांना जास्त गुण दिल्या जातात. शिक्षकांनाआपत्या व्यवसायात व्यक्तिनिष्ठता निर्माण होण्यास हा अभ्यासकारणीमत ठरतो.

#### विद्यार्थी स्वातंत्र्यावर गदा :-

शिक्षण अभ्सासकमात विद्यार्थी आपल्याला आवडेल असे योग्य निर्णय स्वतः घेऊ शकत नाहीत. त्यांना शिक्षकांची मर्जी सांमाळणे आवश्यक असते.

## 5. अधिक कालावधी :--

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

<sub>'गिहीं''</sub> प्रशिक्षण अभ्यासकम सदयरिथती समस्या आणि अभ्यासकमाची अमलबजावणी

अभ्यासकमाचा कालावधी अधिक वाढवल्यामुळे अभ्यासकम हा लांबवल्या जातो. विद्यार्थ्यांना हा अभ्यासकम कंटाळवाणा वादूर वासाठी अधिक वेळ दयावा लागतो. अस्या प्रकारे "शिक्षणशास्त्र पदवि" हा दोन वर्षाचा अभ्यासकम, पूर्ण करणारे प्रशिक्षणार्थी इयत्ता 5 वी ते 12 वी प्रौडिशिक्षण वर्ग गटांसाठी चालवल्या जाणा—या अनीपचारिक शिक्षणाच्या वर्गाना शिकवण्यासाठी सक्षम होतात

संदर्भ ग्रंथ सूची

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1317

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

## REVIEW OF RESEARCH



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## ATTITUDE OF TEACHER TRAINEES TOWARDS YOGA EDUCATION

Dr. Vanita N. Kale Shri Shivaji College of Education, Amravati.

ABSTRACT :-

Yoga is basically the most important ancient art that aims towards the building up of a healthy mind within a healthy body. For that reason it is considered to be the harmonizing system that rejuvenates the body, mind as well as the soul. The great saints, therefore have mentioned yoga to be a universal attribute of mind which enhances the physical, Spiritual and mental status of the human body.



The balanced development of these three specifications led the condition where the individual will enhance the positive feeling

the Uniquent where the monitoring in Eliments of Debuggies of the Control the mind as well as body. The purpose of the study was to study the attitude of teacher trainees towards yoga education. The sample of 300 teacher trainees selected rondomly from the training colleges of Amravati University, investigator made attitude scale towards yoga education was used as a tool for data collection. The study concludes that both mole and female teacher trainees are much similar in respect of their attitudes towards yoga education.

KEYWORDS: Teacher Trainee, yoga education.

#### INTRODUCTION

Life is full of challenges that are there only to make us stronger and better. The challenges should be understand as opportunities for change and faced with confidence. Meditation and yoga brings a positive vibes among the students and if they do it regularly it will help in bringing positive outcomes which is advantageous for the scholars. There are variety of positive outcomes of yoga for learners and various other peoples. Student faces a lot of depression and stress due to a variety of reasons such as familiy pressure, financial pressure or any other depression, Yoga is one of best way to eliminate all . Yoga keeps all depression away and keeps mind fresh. Yoga helps in increasing the sharpness of brain and concentration power. It helps in relaxing the mind and provide more peace of mind. Strength is required by body to fulfill all daily activities appropriately, Especially young students need a lot of strength , as they are overloaded with lots of task. Yoga helps in building strength and gives power. Alot of diseases can be improved by doing yoga daily. It helps to reduce a great hypertension among students. Flexibility of the body is another advantage of doing yoga daily. Practicing yoga asana muscles are stretched thereby increases the flexibility of body. Due to high calories drinks and food intake, students have to face many types of problems, With reacticing yoga regularly the plos in advancing

" Policies and Prospects of Teacher Education 2019 (NCPPTE-2019)"

NAAC Reaccredited of A Grade with CGPA 3.5"

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brain muscles and helps students to score the highest grades. Hence yoga helps learners to stay relaxed and stress free from all depress and academic tensions which is beneficial in academic advancement.

Yoga is the power for all the students that helps in enhancing their memory and provides them more energy and power. Students can enhance their focus and concentration with the help of yoga.

#### NEED AND SIGNIFICANCE OF THE STUDY

The modern world is facing a pandemic of lifestyle disorders that requires changes to be made consciously by individuals themselves and as yoga is the best lifestyle ever designed, it has potential in the prevention management and rehabilitation of prevalent lifestyle disorders. Yogic lifestyle, Yogic diet, Yogic attitude and various yogic practices help humans to strengthen themselves and develop positive health, thus enabling them to withstand stress better.

An adult faces endless emotional and physical disorders due to unhealthy lifestyle choices, Unfortunately today children and youth are also victims of stress, anxiety, digestive disorders, insomnia etc due to highly competitive environment and work culture, Peer- pressure, examination pressure, long working hours, irregular eating habits are a few other causes of a stressful lifestyle.

Teenage is the time period of students when they are stucked between variety of work load and pressures. They need to perfectly accomplish their school or college task, prepare for variety of exams or test, need to score excellent marks, work better in their workplace and improve their performance and many other tension. In several school, colleges and universities around the world several programs and courses have been made compulsory for the students to Join.

From first graders to college seniors are under pressure. Hours a day sitting at desk or computer monitor and more hours doing homework cause a young body to tense up. Social and family pressures and unfortunately anxiety, abuse and bullying also take their toll. It is therefore educators are becoming increasingly interested in providing yoga in school and colleges.

Student life is a very crucial period of one's life, these years can make or break a person, There is always so much to do and so many distractions at the same time, especially in a world like today's where Face book and gaming takes up more time than anything else. Their minds wander while they sit to study and everything else seems way more exciting than the book open right in front of them. Yoga will help the students in focusing on the more important things.

A teacher is called as a second parent to a pupil. Teacher is placed after the parent and before God. So teaching and teacher has got its prime position in Education. Evidence exists that teacher attitudes are strongly influential in the success of any curriculum they present. Teacher characteristics, attitudes, conceptions of self, intellectual and interpersonal dispositions can influence both the explicit and the hidden curriculum in the class room. Teachers have the opportunity to leave an indelible impression on their students lives. The effective attitudes and actions employed by teachers ultimately can make a positive impact on students. So taking into consideration the importance of yoga education and role of teacher in imparting the knowledge about yoga education to develop the positive attitude towards it, the investigator made an attempt to study the attitude of teacher trainees towards yoga education.

## **OBJECTIVES OF THE STUDY**

- To study the attitude of teacher trainees towards yoga education
- To find out where there is any influence of sex, management and locality of teacher trainees on their attitude towards yoga education.

#### HYPOTHESES.

There would be no significant difference between the attitude scores of male and female teacher trainees towards yoga education.

<sup>&</sup>quot; Policles and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

- There would be no significant difference between the attitude score of private management and government aided college teacher trainees
- There would be no significant difference between the attitude score of rural and urban teacher trainees towards yoga education.

#### Sample

The sample comprises of 300 teacher trainees who were studying in private management and government aided colleges in Amravati university. The sample selection was done by random sampling technique

#### Tool

The investigator made attitude scale towards yoga education was used to assess the attitude of teacher trainees towards yoga education

#### Statistical Technique

Both descriptive and inferential statistics were employed for analysis of data. The descriptive statistics such as Mean and Standard deviation were used. Inferential statistics such as "it" test was employed.

#### ANALYSIS OF THE DATA

Table 1. Table showing the comparison between the attitude scores of male and female teacher trainees

towards your education

υ	warus y	oga euuca	LIUII					
١	Sr No	Gender	No of teacher trainees	Mean	S.D	Calculated 't' value	Level of significance	
ı	31.110			204.20	41 10		0.05	
1	1	Male		204.20				
۱	-	Female	150	207.52	44.05	0.07	Not Significant	
	4	remaie	150	207.52	7.1.00		I W Ive is 0 67 while	

The above table shows that at 298 df; 0.05 level of significance the calculated 't' value is 0.67 which is less than the table value 1.97

Therefore it is inferred that no significant difference was found in between the attitude scores of male and female trainees towards yoga education

Hence it is concluded that both male and female teacher trainees are much similar in respect of their attitude towards yoga education

Table 2. Table showing the comparison between the attitude scores of private management and

overnm	ent aided colleges teac	ner trainees toward	13 YUEG CUI	decidion		Level of	
	College	trainees	Mean	5. D	Value	significant	
No			200.12	42.08		0.05	
1	Private	150					
2	Covernment sided	1 150	211.60	42.49		Significant	

The above table shows that at 298 df; 0.05 level of significance the calculated 't' value is 2.35 which

is more than the table value 1.97

Therefore It is inferred that significant difference was found in between the attitude scores of private management and government aided college teacher trainees towards yoga education.

Hence it is concluded that Government aided college teacher trainees (m= 211.60) have more positive attitude towards yoga education than private management college teacher trainees.

Table 3: Table showing the comparison between the attitude scores of rural and urban teacher trainees

OW	Sr. No Group No of Teacher Trainees Mean S.D Calculated 't' Value Level of significant							
	Sr. No	Group	No of Teacher Trainees	Mean	S.D	Calculated 't' Value	Level of significant	
	1	Rural		225 5			0.05	
	2	Urban	150	246.5	23.5	4.47	Significant	

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

The above table shows that at 298 df; 0.05 level of significance the calculated 't' value is 4.47 which is more than the table value 1.97

Therefore it is inferred that significant difference was found in between the attitude scores of Rural and Urban teacher trainees towards yoga education

Hence it is concluded that Urban teacher trainees (m=246.5) have more positive attitude towards yoga education than rural teacher trainees

#### CONCLUSIONS

- 1. Male and female teacher trainees did not differ in respect of their attitudes towards yoga education
- 2. Government aided college teacher trainees have more positive attitude towards yoga education than private management college teacher trainees
- 3. Urban teacher trainees have more positive attitude towards yoga education than rural teacher trainees

#### SUMMARY

The role of teacher has always been a challenging and dynamic one. A performance of the teacher is correlated to a great extent on his attitudes, values and belief. A positive attitude towards the task undergone by the teacher makes it satisfying and rewarding. The national policy of Education 1986 has rightly observed that the status of the teacher reflects the socio-cultural ethics of the society, it is said that no nation rise above the level of its teacher.

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## A STUDY ON THE PERCEPTION OF JUNIOR COLLEGE STUDENTS TOWARDS INTEGRATED COURSES IN EDUCATION

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#### ABSTRACT :-

The 2-year course for Bachelor of Education might soon be dropped in favour of a 4-year integrated teacher training programme. The government had changed the one-year B.Ed course for a 2-year alternative only three years ago. Now the National Council for Teacher Education (NCTE) has been asked to start work on the four-year integrated BA-BEd and BSc-BEd course and three year BEd-MEd integrated course. Being teacher educator researcher was interested to check awareness of students about teaching profession and their passion of carrier choices in competitive era. So the purpose of this study was to analyze what is happening in the mind of Junior college students about four very integrated course in education and never integrated.



about four year integrated course in education and perceptions about what teaching and learning processes can be improved through the use of four year integrated course in education.

A sample of 300 Junior college students from Arts and Science of Nagpur and Amravati board were selected from seven campuses through convenient sampling techniques. Self-administrated questionnoires and carrier were used as a tool for data collection. Data were analyzed by using excel applying mean score. Results of the research study confirmed that Junior college students are not aware about four year integrated course in education. This study in which survey design was utilized sought to determine junior college students perception of pursuing teaching as a coreer; and to determine those factors responsible for their perceptions. Four research questions were postulated to guide the study and a research instrument tagged Student Teaching Career Questionnaire was designed to collect data from 300 students who constituted the study sample.

KEYWORDS: BSc-BEd, BA-BEd Integrated Course In Education, Junior College Student, Perception.

#### INTRODUCTION

Education plays a vital role in the empowerment and development of the human resource in a nation. Education is essential in imparting values, knowledge and developing skills so as to increase the growth and productivity of the nation. An educational institution performs a significant function of providing learning experiences to lead their students from the darkness of ignorance to the light of knowledge. The key personnel in the institutions who play an important role to bring about this transformation are teachers. It is felt that a teacher to be a truly professional practitioner requires a conceptual understanding and appreciation of the above domains of knowledge and also the competence to implement the knowledge in specific contexts of teaching. In order that the teacher education programme to become a professional

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"





Principal

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preparation programme, it should have a fair combination of theory and practice. Too much of theory would push the teacher education programme towards liberal arts orientation and hence prepare a disciplinarian rather than an efficient and effective practitioner. What the country needs today is sound practitioner teacher rather than those who merely verbalize theoretical knowledge. One way of achieving this would be to have a proper blending of reflections on theoretical basis and sufficient opportunities for practice followed by feedback. So now focus is on integrated B.Ed. course for efficient professional development. Now some universities are running these integrated B.Ed. courses. The programme is designed to provide opportunities for the perspective Teacher Educators to extend and deepen their horizontal of knowledge and understanding of education and teacher education, develop research capacities, specialized in select areas etc. The course includes both critical comprehension of theory as well as hands-on and field pased reflective practices, skills and competences. Teaching skills would include providing training and practice in the different techniques, approaches and strategies that would help the teachers to plan and impart instruction, provide appropriate reinforcement and conduct effective assessment. It includes effective classroom management skills, preparation and use of instructional materials and communication skills. Pedagogical theory includes the philosophical, sociological and psychological considerations that would enable the teachers to have a sound basis for practicing the teaching skills in the classroom. The theory is stage specific and is based on the needs and requirements that are characteristic of that stage. Professional skills include the techniques, strategies and approaches that would help teachers to grow in the profession and also work towards the growth of the profession. It includes soft skills, counseling skills, interpersonal skills, computer skills, information retrieving and management skills and above all lifelong learning skills. An amalgamation of teaching skills, pedagogical theory and professional skills would serve to create the right knowledge, attitude and skills in teachers, thus promoting holistic development. Various integrated B.Ed. courses are the Integrated B.Ed.- M.Ed. Programme is a three-year full-time professional programme in education, without any option of intermediate exit before completing the three- years study. It aims at preparing teacher educators and other professionals in education, including curriculum developers, educational policy analysts, educational planners and administrators, school principals, supervisors and researchers in the field of education. The completion of the programme shall lead to integrated B.Ed. -M.Ed. degree with specialization in either elementary education (upto class VIII) or secondary education and senior secondary education (upto class XII). The 3-year Integrated B.Ed.-M.Ed. Course is a professional programme in the field of Teacher Education which aims at preparing Teacher Educators and other professionals including curriculum developers, educational policy analysts, planners, administrators. supervisors, school Principals and researchers. The completion of the programme shall lead to B.Ed.- M.Ed. Degree with specialization in selected areas focusing on both elementary and secondary education. The three years M.Sc. B. Ed. Curriculum is meant for preparing teachers specifically for the senior secondary stage of school education. Hence, it can only include the knowledge domains appropriate for teaching at the senior secondary stage of education. There exist two main models of teacher education programmes in India. The long duration integrated model wherein the subject matter knowledge is learnt alongside professional education courses and the short duration model in which the student would have already acquired a degree in the subject to be taught by him/her.The four-year composite courses are B.A (B.Ed), B.Sc (B.Ed) . Those who want to become teachers can apply for these courses after Class 12.

#### OBJECTIVES OF THE STUDY:

The following were major objectives of the study:

- To find out the conceptions of Junior college students regarding the four year integrated course in education.
- ii) To find out response of Junior college students towards carrier choices.
- To study awareness of Junior college students about various integrated courses available in education.

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"



- iv) To make useful suggestions for the improvement of four year integrated course in education.
- To achieve these objectives the following Research Questions will guide the study:

  1. Is Education the first choice for course of study of Junior college students?
  - Are male and female Junior college students interested in being professional teachers after graduation that B.Ed.-M.Ed. integrated course?
  - 3. Are Junior college students aware about various integrated courses available in education?
  - Are male and female Junior college students interested in being professional teachers after post graduation M.Sc.-B.Ed.?

#### METHODS

The survey research design was adopted for this study aimed at determining Junior college students perception of teaching as a career. The study involved the two district Junior college students located in Nagpure and Amravatl Board.

The population for the study comprised all registered Junior college students of Amravii and Nagpure district board of science arts and commerce colleges. A sample of 300 Junior college students from Arts Commerce and Science of Nagpur and Amravati board were selected from seven campuses through convenient sampling techniques instrument for data collection was researcher-constructed questionnaire tagged Students Teaching Career Questionnaire which was face validated by two educational researchers. Section A of the research instrument sought demographic information such as gender and stream of course. Face- to- face hand delivery method was utilized for the administration of the questionnaire. Out of the 300 respondents, 150 were males while 150 were (males Nata was analyzed using simple percentages.

#### RESULTS AND DISCUSSION

The findings as regards research questions 1, 2, 3, and 4 are presented in paper .

Research Question 1: Is Education the first choice for course of study for Junior college students of 12<sup>th</sup> standard in arts and science faculty?

Frequency shows that out of the 150 respondents of arts faculty only 93 (62%) actually wanted to study education withie 57 (38%) indicated that education was not their first choice for course of study, Frequency shows that out of the 150 respondents of science faculty only 24 (16%) actually wanted to study education with their first choice for course of study. From the collected data Arts faculty Junior college students are more interested in the four year integrated course in education. Research Question 2: Are male and female Junior college students interested in being professional teachers after graduation that B.Ed. M.Ed. Integrated course.

Data of frequency table shows that greater percentages of females (62.2%) are favourably disposed to making teaching their career than (51.1%) for males after graduation that B.Ed-M.Ed. Integrated course. It equally shows that (32.2%) males were not willing to becoming teachers while (22.4%) of females were not willing. Also (16.7%) were not sure of being teachers while (15.4%) were not sure.

Research Question 3: Are Junior college students aware about various integrated courses available in education?

From data collected science faculty students percentage regarding awareness of various integrated courses in education was 57% and those from arts faculty it was very poor to 8% only.

Research Question 4: Are male and female Junior college students interested in being professional teachers after post graduation M.Sc.-B.Ed. integrated courses?

Data shows that greater percentages of females (62.2%) are favourably disposed to making teaching their career than (51.1%) for males after post graduation.

It equally shows that (3.2.2%) males were not willing to becoming teachers while (22.4%) of females were not willing. Again (16.7%) males were not sure of being teachers while (15.4%) females were not sure. This finding indicates that women (females) are more favourably disposed to making teaching a career than their

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

male counterparts. This finding is in agreement with the commonly held notion that teaching is a female profession. Justifying their decisions of becoming professional teachers after graduation, the 135 (57.9%) gave reasons such as opportunity to teach others, recognition of teacher as nation builders, acquisition of more knowledge, contribution to the nation's educational development and so on as the reasons fuelling their desires to be professional teachers after graduation. The 61(26,2%) that had no intention of becoming teachers cited reasons such as not getting admission into area of interest, low societal regard for teachers, low income earned by teachers etc as reasons for not wanting to be teachers after graduation. The 37(15.9%) that were not sure of joining the teaching profession after graduation gave reasons such as intention to be self employed, unpalatable treatment of teachers in India, intention to pursue other careers and the stressful nature of teaching as being responsible for their decision..

#### CONCLUSION:

The following conclusions are drawn from the findings of this study:

- 1. Education was not the first choice of Science faculty junior college students . From the collected data Arts faculty Junior college students are more interested in the four year integrated course in education BA-BEd
- 2. From data collected science faculty students percentage regarding awareness of various integrated courses in education was 57% and those from arts faculty it was very poor to 8% only.
- 3. More females are favourably disposed to making teaching their career after graduation than males.
- 4. Opportunity to teach others, love teaching, enhancement or acquisition of more knowledge and contribute to the nation's educational development are some of the reasons for students interest in
- 5. Low societal regard for teachers, low remuneration and allowing of non-trained teachers into the teaching profession are among the factors responsible for students' lack of interest in joining the teaching
- 6. There is no statistical difference between the perception of students of Junior college towards integrated B.Ed. district wise.
- 7. There is statistical difference between the perception of students of Junior college towards integrated B.Ed. faculty wise.

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## REVIEW OF RESEARCH



IMPACT FACTOR: 5.7631(UIF)

ANOMALIES IN UGC REGULATIONS, 2018 WITH REFERENCE TO NCTE REGULATIONS, 2014

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ABSTRACT :-

In exercise of the powers conferred under article 246; University Grants Commission act 1956 has been passed and UGC was formally established in November 1956 as a statutory body of the Government of India for the coordination, determination and maintenance of standards of university education in India. NCTE came into existence in pursuance of the National Council for Teacher Education Act, 1993 (No. 73 of 1993) on the 17th August, 1995 for the regulation and proper maintenance of Norms and Standards in the teacher education system. This research article try to identify the



anomalies in the regulations passed by these two statutory bodies, the problems associated with it and overcome the peril faced by the teacher education institution in near future.

KEYWORDS: NCTE Regulation, Anomalies in UGC Regulation.

#### INTRODUCTION

"Coordination and determination of standards in institutions for higher education or research and scientific and technical institution" is an item enumerated at serial no. 66 of list 1 of the seventh schedule (i.e. Union List) of the Indian constitution. According to the article 246 of the Indian constitution, "......

Parliament has exclusive power to make laws with respect to any of the matters enumerated in the list 1 of the seventh schedule (in this constitution referred to as the "Union List")".

In exercise of the powers conferred under article 246; University Grants Commission Act 1956 has been passed to look into all the cases pertaining to the allocation of grants-in-aid from public funds to the Central Universities, other Universities and Institutions of higher learning. The UGC has been vested with two responsibilities: that of providing funds and that of coordination, determination and maintenance of

standards in institutions of higher education. Whereas, since 1973 NCTE was an advisory body for the Central and State Governments on all matters pertaining to teacher education, with its Secretariat in the Department of Teacher Education of the National Council of Educational Research and Training (NCERT). Despite its commendable work in the academic fields, it could not perform essential regulatory functions, to ensure maintenance of standards in teacher education and preventing proliferation of substandard teacher education institutions. The National Policy on Education (NPE) 1986 and the Programme of Action there under, envisaged a National Council for Teacher Education with statutory status and necessary resources as a first step for overhauling the system of

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Amravati

teacher education. Accordingly The Act (National Council for Teacher Education Act, 1993 (No. 73 of 1993) of Parliament received the assent of the President on the 29th December, 1993 and The National Council for

Teacher Education as a statutory body came into existence in pursuance of the this act on the 17th August,1995 with a view to achieving planned and coordinated development of the teacher education system throughout the country, the regulation and proper maintenance of norms and standards in the teacher education system and for matters connected therewith.

Hence it is very clear that NCTE has the power to laid down the norms and standards in the teacher education system. Hence this research article try to identify the incongruity in the regulations passed by these two statutory bodies and, the problems associated with it and overcome the peril faced by the teacher education institution in near future.

#### Scope and Limitation:

This paper covers anomalies in UGC regulation 2018 with respect to appendix – 4 and 7 of the NCTE Regulation 2014 this consist the scope of the paper and it is limited to the anomaly in the qualification laid down by NCTE and UGC for the post of Principal in the institution which runs Bachelor of Education or Physical education programme.

#### REVIEWING UGC REGULATIONS, 2010 AND NCTE REGULATIONS, 2009:

UGC regulations (2010) on minimum qualifications for appointment of teachers and other Academic Staff in Universities and colleges and measures for the maintenance of standards in higher education 2010 dated 28 June, 2010 Consider teacher education courses recognised by NCTE as separate entity then other disciplines viz. Arts, Commerce, Humanities, Sciences etc. and NCTE had brought National Council for Teacher Education (Recognition Norms & Procedure) Regulations, 2009 wherein Qualification for the appointment of Principal in B.Ed. colleges is given which was incorporated by UGC indistinguishably in UGC's Regulation 2010. Accordingly, suggested qualification in toto as prescribed in the NCTE regulation

#### REVIEWING NCTE REGULATIONS, 2014:

On December 1, 2014 NCTE introduced a new regulation consisting of 15 appendices in supersession of the NCTE regulation 2009. Out of these 15 appendices appendix -4 is the Norms and Standards for bachelor of education programme leading to Bachelor of Education Degree (B.Ed.) This regulation had lead down the qualification for the post of Principal in the institution which runs Bachelor of Education programme. Where in the qualification prescribed viz., P.G. Degree in arts, science, social sciences humanities, commerce with minimum 55% of marks, M.Ed. with minimum 55% of marks, Ph.D. in Education or in any Pedagogic Subject offer in the institution and 8 years of teaching experience in a secondary teacher education institution. The unavailability of the qualified and experienced Principal is the reason why NCTE has cut down the criteria of experience.

Again Appendix-7 is the Norms and Standards for Bachelor of Physical Education programme leading to Bachelor of Physical Education Degree (B.Ed.) This regulation had laid down the qualification for the post of Principal in the institution which runs Bachelor of physical Education programme. Wherein the qualification prescribed viz., P.G. Degree in Physical Education (M.P.Ed./M.P.E.) with minimum 55% of marks......, Ph.D. in the field of Physical Education and 8 years of teaching experience out of which five years experience in an institute/college/Department of physical education, Any other stipulation prescribed by UGC/affiliating body/State Govt.from time to time for the position of principal shall be mandatory.

NCTE while prescribing the qualification for the post of Principal of the college of Physical Education accorded and anticipated the expectations of UGC in addition to NCTE's prospects which has not been done in case of UGC Regulations 2018.

<sup>&</sup>quot; Policies and Prospects of Teacher Education - 2019 (NCPPTE-2019)"

#### REVIEWING UGC REGULATIONS, 2018:

The UGC regulations on minimum qualification for appointment of teachers and other Academic Staff in Universities and colleges and measures for the maintenance of standards in higher education, 2018 embodies college of Education (B.Ed.) and physical Education (B.P.Ed.) with all other discipline stating the same qualification for the appointment of Principal in the colleges of Education viz. Ph.D. degree, Professor/Associate Professor with a total service/ experience of at least fifteen years of teaching/research in Universities, Colleges and other institutions of higher education, A minimum of 10 research publications, a minimum of 110 Research Score.

In the coverage of the UGC Regulations, 2018 it is very clearly said that, "For the purposes of direct recruitment to teaching posts in disciplines relating to university and collegiate education, inter alia in the fields of health, medicine, special education, agriculture, veterinary and allied fields, technical education, teacher education, norms or standards laid down by authorities established by the relevant Act of Parliament under article 246 of the Constitution for the purpose of co-ordination and determination of standards in institutions for higher education or research and scientific and technical institutions, shall prevail"

Considering B.Ed. courses alike other disciplines and prescribing qualification for appointment of Principal in accordance with other academic colleges (Arts, commerce, Science etc.) would lead to an anomaly in the administration and governance of the institution.

#### CONCLUSION:

- 1. Associate professor from any academic college not possessing qualification expected in NCTE regulation 2014 could be the Principal of College of Education (B.Ed.).
- 2. Associate professor from any academic college not possessing qualification expected in NCTE regulation 2014 could be the Principal of College of Physical Education (B.P.Ed.).
- 3. A formally untrained and one having "No Experience" in Teacher training would be the captain (Principal) of the Team (TEI).
- 4. This would lead great administrative problem and chaos in governance of the Teacher training institution.

#### SUGGESTION:

UGC should remove this anomaly from its regulation on minimum qualification for appointment of teachers and other Academic Staff in Universities and colleges and measures for the maintenance of standards in higher education, 2018 by considering teacher education courses recognised by NCTE as separate entity then other disciplines viz. Arts, Commerce, Humanities, Sciences etc. and come up with a solution that shall indistinguishably incorporate the condition of Qualification and especially teaching experience in UGC Regulations, 2018 with respect to the post of Principal in colleges of education and physical education prescribed in NCTE notification 2014.

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Amravati.

#### Comparative Study of Balance and Coordination of Female Athletes

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#### Abstract

The purpose of the study was to comparative Balance and Coordination of various levels of Female Athletes. For this study Sixty (60) female athletes. 20 from each participated in the Maharashtra State Tournaments (20), Inter Collegiate Tournaments of Sant Gadge Baba Amravati University, Amravati (20) and Inter University Tournaments (20) with the help of purposive sampling method were selected from Sant Gadge Baba Amravati University, Amravati. The age of the athletes were ranged between 18 to 25 years. Subjects did not use any ergogenic aids or supplementations and also they were all free from any injuries during the collection of data. The following tools were used to collect the data on:- Balance was measured by Stork Balance Stand Test and Coordination was measured by Alternate Hand Wall Toss Test. In order to find out the significant difference between personality traits of different level of achievement of female athletes the analysis of variance (ANOVA) was applied at 0.05 level of significance. Result shows that significant difference were found in balance and coordination ability among State, Inter Collegiate and Inter University Players as obtained F-ratio was 3.45 & 3.80 which was greater than that of required tabulated 'F' value of 3.158 at .05 level of significance with (2, 57) degree of freedom.

Keyword: Balance, Coordination, Female Athletes, etc.

#### Introduction

Motor fitness, or motor physical fitness, refers to how an athlete can perform at his or her sport, and involves a mixture of agility, coordination, balance, power, and reaction time. Improving this form of fitness is an indirect result of training in any of these attributes. All five components of fitness are essential for competing at high levels, which is why the concept is seen as an essential part of any athlete's training regime. Motor fitness is a term that describes an athlete's ability to perform effectively during sports or other physical activity. Each components is essential for high levels of performance.

#### Balance

Balance is the ability to stabilize your body, whether standing still or maintaining motion. Iceskating, skiing and bicycle riding are balance exercises. There are two types of balance - static and dynamic. Static balance refers to remaining upright while staying still, standing on one leg, for example. Dynamic balance deals with stability in motion. Test your balance by holding a stationary position as long as you can, without wobbling, after moving around.

Balance is involved with all motor performances to some degree but some performances heavily depend upon balance. As quoted by Singh, Dynamics and stability both are of great importance in all body contact sports such as athletics, football, soccer, baseball, basketball and hockey

Balance is the main factor of fitness competences for success in sports. Good balance plays an important role in skill development and the overall fitness profile of the players. There are two types of balance in sports. First is static balance, which maintains the body's centre of mass and second is dynamic balance which moves outside the body base of support.

#### Coordination

Coordination describes the synchronization of your senses and your body parts in a way that enhances motor skills. Volleying a table tennis ball is an example of hand-eye coordination. A variety of tests measure coordination, including juggling or hitting a ball.

"Co-ordination is the ability to integrate muscles movements into an efficient pattern of movement". Co-ordination makes the difference between good performance and poor performance. The efficiency of skill patterns depends upon the interrelation of speed, agility, balance and muscle movements into as well co-ordinate pattern.

It is the good advice to the performer and is necessary for judging such variables factor as sneed, distance, direction, and size. Countless skills involve co-ordination of the eyes with hands. The players in Cricket, Volleyball, Basketball and handball do require eye- hand co-ordination when they exhibit their skills for successful performance. As there is lack of research available on important of eye-hand co-ordination for games. Where accuracy is more needed, the research worker was interested to conduct the study on Cricket, volleyball, Basketball and Handball players. The Nero-

Aayushi International Interdisciplinary Research Journal (ISSN 2349-638x) Impact Factor 4.574 Peer Reviewed Journal www.aiirjournal.com Mob.8999250451 Reaccredited A Grade with Shri Shivaji College of Education muscular co-ordination of the individual which includes his ability to learn new skill and finally achieve competency in physical activities as essential to all phase of physical education. Activities for developing such co-ordination, therefore, should be considered.

#### Materials and Methods

#### Subject

Sixty (60) female athletes, 20 from each participated in the Maharashtra State Tournaments (20), Inter Collegiate Tournaments of Sant Gadge Baba Amravati University, Amravati (20) and Inter University Tournaments (20) with the help of purposive sampling method were selected from Sant Gadge Baba Amravati University, Amravati. The age of the athletes were ranged between 18 to 25 years. Subjects did not use any ergogenic aids or supplementations and also they were all free from any injuries during the collection of data.

#### Administration of the test

The following tools were used to collect the data on:-

- Balance was measured by Stork Balance Stand Test
- · Coordination was measured by Alternate Hand Wall Toss Test

#### Statistical Analysis:

In order to find out the significant difference between personality traits of different level of achievement of female athletes the analysis of variance (ANOVA) was applied at 0.05 level of significance.

Analysis Of Variance of Balance and Coordination among State, Inter Collegiate and Inter University Players

Variables	SV	SS	df	MS	F	
Balance	between	108.93	2	54.46	3.45*	
Datance	error	895	57	15.7	3.45"	
Coordination	between	36.23	2	18.11	3.80*	
	егтог	271.7	57	4.76	3.00"	

\*Significant at 0 .05 level

Tabulated 'F'  $0.05_{(2.57)} = 3.158$ 

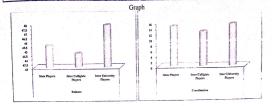
## Table-2

		Post H	oc rest		
Variables	State Players	Inter Coll. Players	Inter Uni. Players	MD	CD
	45.5	44.6		0.9	
Balance	45.5		47.8	3.3	3.96
		44.6	47.8	3.2	1
	14.7	13.65		1.05	
Coordination	14.7		15.55	0.85	2.18
		13.65	15.55	1.9	1 - 0

\*Significant at 0 .05 level

Above table revealed that there was significant difference were found in balance and coordination ability among State, Inter Collegiate and Inter University Players as obtained F-ratio was 3.45 & 3.80 which was greater than that of required tabulated 'F' value of 3.158 at .05 level of significance with (2, 57) degree of freedom. Hence, Post Hoc test was to see the Mean Difference in balance and coordination ability among State, Inter Collegiate and Inter University Players. The significant difference were found among state players and inter university players in reference to balance whereas significant difference were found among state players and inter collegiate players as well as inter collegiate players and inter university players in reference to coordination.

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#### Conclusion

Result shows that significant difference were found in balance and coordination ability among State, Inter Collegiate and Inter University Players. In reference to balance, the reason may be attributed that everyday tasks such as bending, reaching and maneuvering around objects require the skill of balance. Any minor upset which affects our body system can have a negative effect on balance and create difficulties with movement. Several body systems are involved in the balance process, including the musculoskeletal system, inner ear, eyes and skin. Good balance relies on all of these systems and processes functioning perfectly. As inter university player's posses typically stereotyped with hardworking, strengthenious and strong musculature body with great amount of energetic as comparison state and inter collegiate players. And in reference to coordination, the reason may be attributed that coordination is the ability to repeatedly execute a sequence of movements smoothly and accurately. This may involve the senses, muscular contractions and joint movements. Everything that we participate in requires the ability to coordinate our limbs to achieve a successful outcome from walking to the more complex movements of athletic events like the pole vault. Inter university players goes under various training program and their more participation more conditioning more practice makes them more fit. Their body becomes more conditioned and able to bear and have more stress and hard work due to their better playing environment and participation in game as compared to state and inter university players.

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