

Seminar in Education

▶ **TEACHER EDUCATION**

▶ **21st Century Skills**

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What is Teacher Education

- Teacher education is a program.
- It is related to the development of teachers.
- It is related to the teachers proficiency and competency.
- It enable and empower the teacher to meet the requirements of the profession and face the challenges.
- Teacher education means all the formal and non- formal activities and experiences that help to qualify a person.

Teacher
Education =

□ **Teaching Skills**

□ **Pedagogical Theory**

□ **Professional Skills**

Teaching Skills

It provide training and practice in different;

- Techniques, approaches, and strategies that help the teachers to plan and impart Instruction.
- It include;
- Effective classroom management skills
- Use of instructional materials
- Effective use of communication skills

Pedagogical Theory

- Pedagogical theory includes the philosophical, sociological and psychological considerations.
- It 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

Professional skills include;

- Techniques, strategies and approaches that would help teachers to grow in the profession .
- It includes;
- Soft skills, Counselingskills, Interpersonal skills,
- Computer skills, Information retrieving,
- Management skills and above all life long learning skills.

What is the difference between aims, objectives and goals?

- **Aim:** Attempt to reach a certain goal.
- **Objectives:** A stated measurable target of how to achieve the aims.
- **Goals:** Observable and measurable end result based on one or more objectives to be achieved within a fixed timeframe.



Important!

Objectives have to stem from the aim and the goals are the breakdown of the objectives.



General Aims of Teacher Education

The general aims of teacher education are as follow:

1. To enable the teachers to solve the problems of students.
2. To create a suitable type of discipline in the mind of the teachers.

3. To familiarizes the teachers with the latest knowledge to fulfill the existing need of the society.
4. To give knowledge about the broad objectives of teaching such as knowledge, understanding, application etc.
5. To develop fundamental skills in the teachers.

6. To develop a sense of appreciation of cultural arts.
7. To prepare the teachers for elementary as well as higher education in science, engineering etc.
8. To develop the habit of concentration, self-confidence, self-reliance and discovery.

9. To develop scientific and realistic attitude towards life.
10. To give practical knowledge to face the day- to - day problems.
11. To bring an all-round and harmonious development in the personality of the teachers.

12. To develop the skills to use the modern devices like computer etc.
13. To develop the abilities of analysis, synthesis, reasoning, computation etc.
14. To develop interest in teaching.



Major Objectives of Teacher Education

1. **Imparting an adequate knowledge of the subject-matter.**
2. **Equipping the teachers with necessary pedagogic skills.**



3. Enabling the teacher to acquire understanding of child psychology.



4. Developing proper attitudes towards teaching

5. Developing self-confidence in the teachers.



6. Enabling teachers to make proper use of instructional facilities.
7. Enabling teachers to understand the significance of individual differences of child



□ 8. **Development of the ability to give direct satisfaction of parents from the achievement of children in terms of;**

(a) Proper habits of taking care of the body,



(b) Proper attitudes reflected in the behavior

(c) Progress in the class



21st Century Skills

21st Century

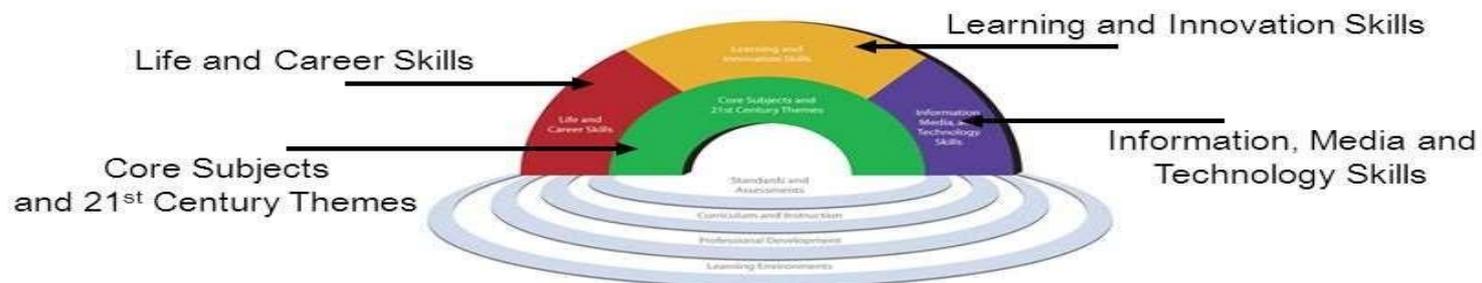
Education

- ▶ Revolves around the notion that the schooling we have known it for 150 years is a 19th century invention that must change to keep pace with the demands of new economy.
- ▶ Learning must leverage the affordances of new technology, employ better pedagogies, and be cognizant of the characteristics of a new breed of learner.

21st Century Student Outcome

21st Century Student Outcomes

21st century student outcomes are the skills, knowledge and expertise students should master to succeed in work and life in the 21st century.



Life & Career Skills

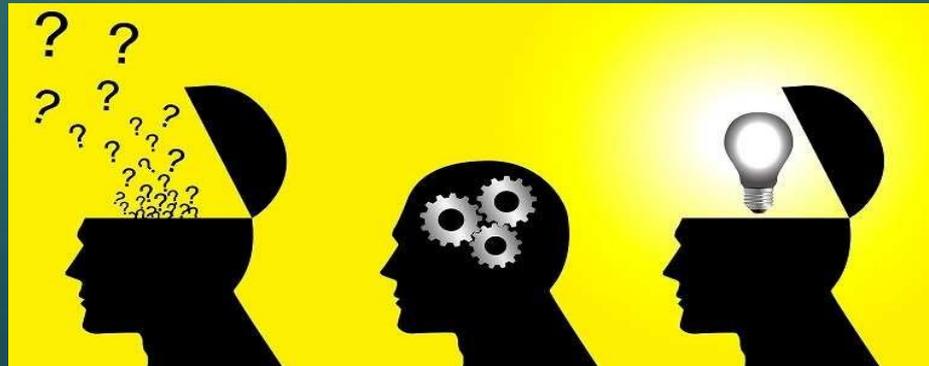
- ▶ Today's greatest success stories are not about people who are necessarily the smartest but those who can communicate a vision to others and lead them in the execution of it. They also recognize and surround themselves with those that are:
 - ▶ smarter and more capable than they are.
 - ▶ Flexibility and adaptability
 - ▶ Initiative and self-direction
 - ▶ Social and cross-cultural skills
 - ▶ Productivity and accountability
 - ▶ Leadership and responsibility



Learning & Innovative Skills

1. Critical thinking & Problem solving:

- ▶ Exercising sound reasoning in understanding
- ▶ Framing, analyzing and synthesizing information in order to solve problems and answer questions.



2. Creativity & Innovation

- ▶ Demonstrating originality and inventiveness in work.
- ▶ Being open and responsive to new and diverse perspectives.



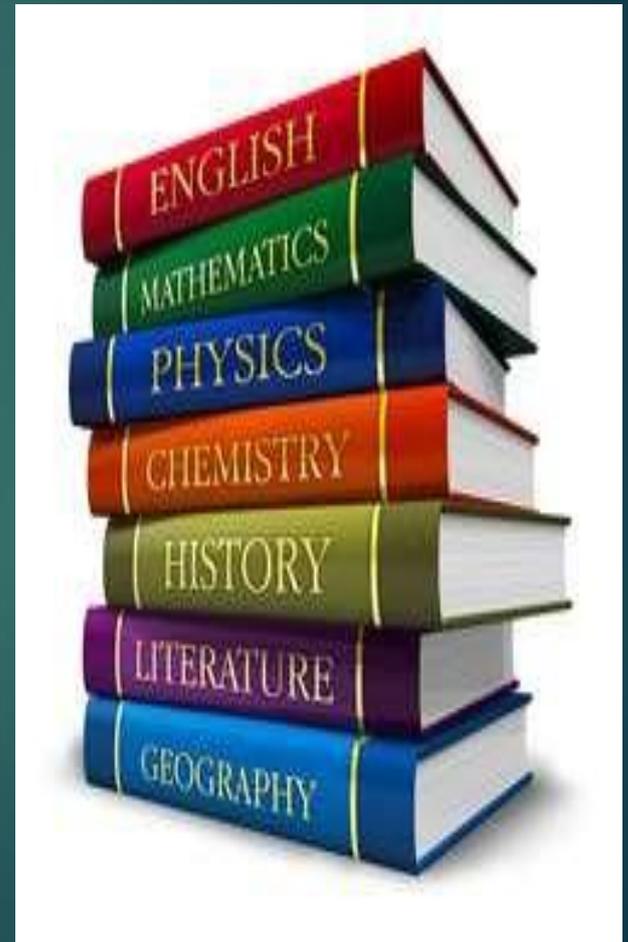
3. Communication & Collaboration

- ▶ Articulating thoughts and ideas clearly and effectively through speaking and writing.
- ▶ Demonstrating ability to work effectively with diverse teams.



Core Subjects

- ▶ English, reading or language arts.
- ▶ World Languages
- ▶ Arts
- ▶ Mathematics
- ▶ Economics
- ▶ Science
- ▶ Geography
- ▶ History
- ▶ Government and Civics



Information, Media & Technology

- ▶ Accessing information efficiently and effectively, evaluating information critically and competently and using information accurately and creatively for the issue or problem at hand.
- ▶ Possessing a fundamental understanding of ethical/legal issues surrounding the access and use of information.



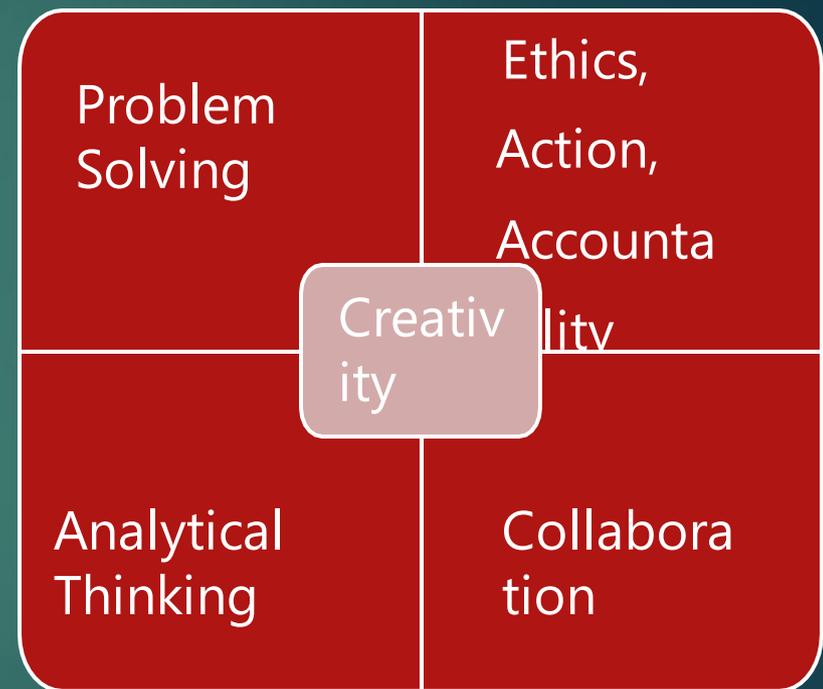
3. ICT Literacy:

- ▶ Using digital technology, communication tools and network appropriately.
- ▶ Posses a fundamental understanding of issues surrounding the access and use of information.



21st Century Skills Every Student Needs

- ▶ Problem Solving
- ▶ Creativity
- ▶ Analytic Thinking
- ▶ Collaboration
- ▶ Communication
- ▶ Ethics, Action, & Accountability



1. Problem Solving:

- ▶ Students need the ability to solve complex problems in real time.
- ▶ In the future, complex problems that we can't even conceive right now will be everywhere. As society advances, so will the complexity of its manageable conflicts. The more we focus on students'

ability to devise effective solutions to real-world problems, the more successful those students will become.



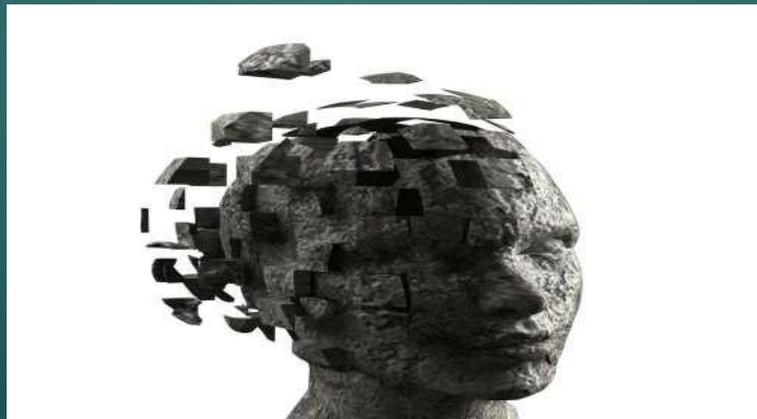
2.Creativity:

- ▶ Problem-solving is a skill that comes naturally to them and this can be advanced profoundly with the proper engagement in their learning. This comes from doing rewarding projects and meaningful tasks that give them challenges to overcome in imaginative ways.



3. Analytic Thinking:

- ▶ *Students need the ability to think analytically, which includes proficiency with comparing, contrasting, evaluating, synthesizing, and applying without instruction or supervision.*
- ▶ Tasks that require linear thinking and routine cognitive work are being outsourced more and more. So it's essential to guide students towards being able to perform analytic thinking. It is crucial to their ability to succeed in life after the classroom.



4. Collaboration:

- ▶ *Students must possess the ability to collaborate seamlessly in both physical and virtual spaces, with real and virtual partners globally.*
- ▶ Students of the digital age are social by nature. They text, post, update, share, chat, and constantly co-create in technological environments with each other. When they are unable to do this in school, they become disengaged and unattached to their learning. Connection and collaboration with others are essential not only to their learning but their mental and emotional health.



5. Ethics, Action & Accountability:

- ▶ *This includes adaptability, fiscal responsibility, personal accountability, environmental awareness, empathy, tolerance, and global awareness.*
- ▶ A well-rounded and responsible global digital citizen practices personal, global, and online responsibilities geared towards creating a better world for everyone. This is a selfless, helpful, and caring individual who is respectful of other cultures and belief systems



Thank you