

Summary of Week 1A:

Learning outcomes

- a. Creativity is a learnable skill which can be developed by anyone
- b. Various types of thinking and approaches to problem solving

Course Outcomes:

CO1: Describe and apply various modes of thinking such as lateral, vertical, divergence, convergent, creative and critical thinking including collaborative brainstorming as required for creativity, problem solving and innovation problems and draw inference

CO4: Apply various methods and tools for acquiring fluency for generating new ideas and choose idea for implementation by following stages of creative problem solving and design thinking process

SUMMARY

1. There are 4 types of abilities gifted to human beings: Yad Shakti, vichara Shakti, Samaj Shakti, Kalpana Shakti
2. *Creativity is ability to think of a new idea*
3. *Problem solving is a creative way to find a solution*
4. *Innovation is the end result of transforming the creative idea into reality by needed actions*
5. Creativity is there in anyone and can be developed, and is a learnable skill
6. India has a history of innovations in agriculture, herbal medicine, metallurgy, mathematics, etc
7. Indians invented pi, zero, good quality steel, astronomy, zinc smelting
8. In the last 500 years, we have fallen behind western nations (European) due to colonial subjugation of India by the British.
9. However Indians are talented and are shining in many fields.
10. Indians in USA constitute a huge percentage of doctors and scientists
11. CEOs of google, Microsoft (MIT Alumni), Nokia (Rajiv Suri) are Indian
12. Indians needs to solve India's problems
13. Global achievement gap is the gap between what colleges are teaching and what skills are need by students
14. CPI course has 7 most needed skills

- 1) Critical thinking and problem solving
- 2) Collaboration across networks and leading by influence
- 3) Agility and adaptability
- 4) Initiative and entrepreneurialism
- 5) Effective oral and written communication'
- 6) Accessing and analyzing information
- 7) Curiosity and imagination

15. Benefits of CPI course

- a. To develop creative and critical thinking a problem solving and innovation skills
- b. To enhance use of your inherent abilities either as an individual and as a group to collectively create, solve problems and achieve needed innovation for your lives as well for India

16. Types of thinking –convergent, divergent, critical or vertical, Lateral or out of box

17. We saw the video of the crow. Like the crow, ask the question: how can I reach my goal?

18. Videos by Edward de bono

19. Problems on lateral thinking –match stick