



Creating Technology Enabled Learning Environment

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POINTS FOR DISCUSSION



- Teaching-Learning Paradigm Shift
- 21st Century Learners
- Technology Tools for Effective Teaching-Learning
- Experience Sharing – Practices at ICFAI University
- Questions & Answers

Traditional Teaching

- Gurukul System
- Only, the interested students approach the teacher
- Teacher can decide whether to accept the student
- Teacher will share his Knowledge and it is up to the student to grasp it
- It is like feeding a flock of birds / distribution of Prasad to the masses
- If a student does not get , it is the Student's **problem!**

All students are treated equally. Teacher typically addresses middle of the class. Students have to adjust to the Teacher

What has changed in the last few years?

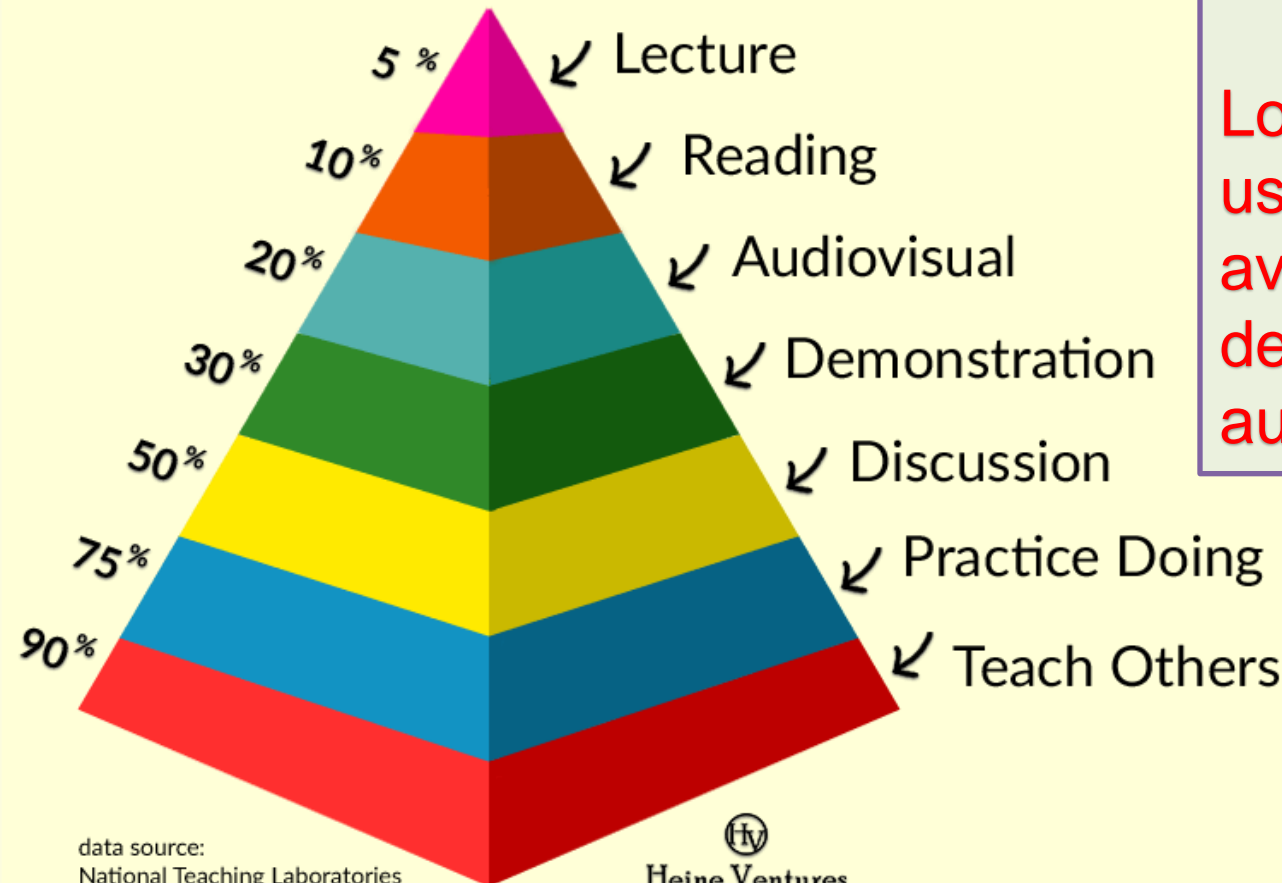
- Education as a Commercial Service (pay and get it)
- Teacher is Service Provider and the student is Customer
- Education to ALL
- Teacher can not choose the students
- Students choose the Institution

Shift from Teaching to Learning – as per the Learner's requirements

Developments in Neuro Sciences (How Human Brain learns?)

THE LEARNING PYRAMID

average student retention rates



Learning effectiveness increases, as we go down the Pyramid

Low Cost and easy-to-use Technologies available for developing audiovisuals

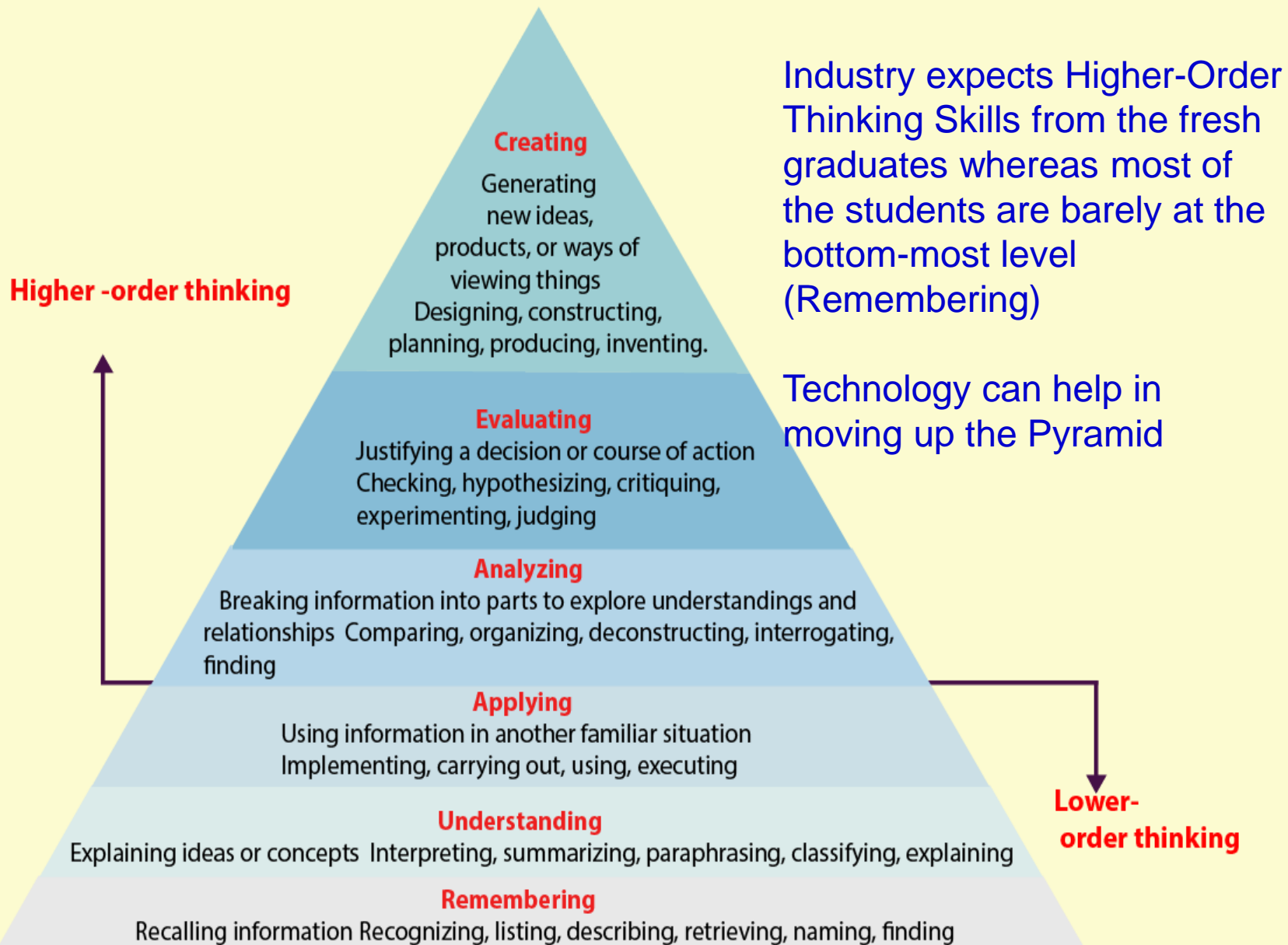
21st Century Learners



- Choosy on what to learn and when to learn
- Low attention span
- Tech-savvy
- Interactive and engaging
- Need Flexible pacing
- To be Responsive and supportive
- Learning for specific purpose (to make a living)
- Learning to include Knowledge and Skills (for employability)

Need to understand the LEARNERS so as to improve Learning Effectiveness

Bloom's Revised Taxonomy



Role Changes in the Shift from Teaching to Learning



Teachers are in the active role

Students are in a , receptive role



(Provide Instruction)



(Facilitate Learning)

Students involved in the learning process

Focuses on the student's needs, abilities, interests, and learning styles

- Video Case Studies ,Management Games, Simulation
- Self-Learning Tools- MOOCs, NPTEL Video Lecturers (1200+) , SWAYAM Courses
- Virtual Labs ,E-Yantra- to teach Robotics
- Virtual Reality/Augmented reality tools for Visualisation
- You Tube Video lectures on a variety of topics
- Digital Library (NDL, e-Shodh Sindhu) – to support Learners
- Evaluation tools (self-evaluation to proctor-less evaluation)
- Learning Management System – registration to evaluation
- Artificial Intelligence/Machine Learning - for matching learning with personality type
- Smart Classrooms , Virtual Classrooms

Shift from mass/group teaching to Personalised Learning

Challenges

- Adaptation of Technology as per practical situations (students, teachers,courses/subjects)
- Training of teachers on using Technology effectively for teaching-learning-assessment
- Adaptation of teachers to the new situation (changing personal beliefs and habits in teaching)
- Institutional Encouragement and Support for faculty efforts to transform teaching practices
- Investments on resources—time and financial

Do-able ,but needs strong leadership commitment

Adoption of Technology in Pedagogy at ICFAI University



- Use of Videos, Movie Clips, TV Clips, Animation in classroom
- Using Spoken Tutorials from IIT-Bombay in IT Courses
- Using SWAYAM Courses to supplement classroom teaching
- Technology adoption in Pedagogy – Freedom to use and Accountability with the Concerned Teacher
- Using MOODLE LMS Platform for :
 - Administration of Technology-enabled Teaching-Learning
 - Online attendance
 - Conduct of Online exam (MCQ part)
- Online student feedback

Faculty training , Acceptance by Teachers and Students – keys to the success

Technology can not replace great teachers, but technology in the hands of great teachers can transform the education and ensure that the objectives of Access, Equity and Quality are met

Any Questions?

In case of any queries, please contact me at
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