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New Teaching and Learning Methodologies and Student Support

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Day 2 – Session 3

Effective Teaching Methods

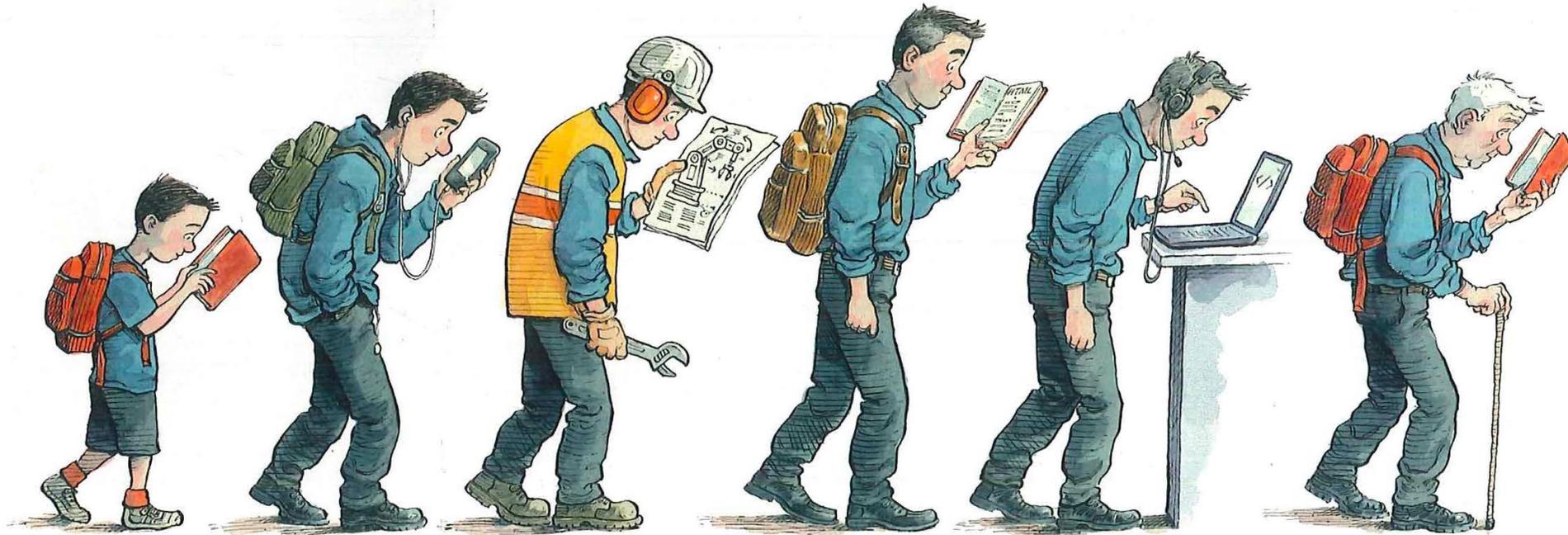
- Effective teaching methods aim to impart important learning skills, such as critical thinking, conceptual understanding, and learning how to learn;
 - Mastering learning skills makes acquiring knowledge easier;
 - Effective teaching nurtures rapport with students;
 - Effective teaching makes every student feel welcome and valued;
- Modern effective teaching embraces use of digital technology to enhance the learning experience for students;
 - Digital technology enables self-paced, asynchronous individual learning;
- Effective teaching focuses on drilling the immutable fundamentals of a subject;
 - Fundamentals permit first principles *ad hoc* reconstruction of knowledge.

Embracing Digital Tools to Enhance Learning

- Online tools can be effective in extending the reach of one teacher to multiple locations, simultaneously;
- Recording lectures and recitations can provide students with additional, self-pacing, archival learning materials;
- Examples of global impact through online learning:
 - <https://sv.cmu.edu/>
 - <https://www.africa.engineering.cmu.edu/>
 - <https://www.qatar.cmu.edu/>

Effective Curricula Impart Life-long Learning Skills

- To cope with rapid change in science, engineering and technology, every course must impart life-long learning skills for a successful career.



From *The Economist Magazine*, January 14 – 20, 2017