

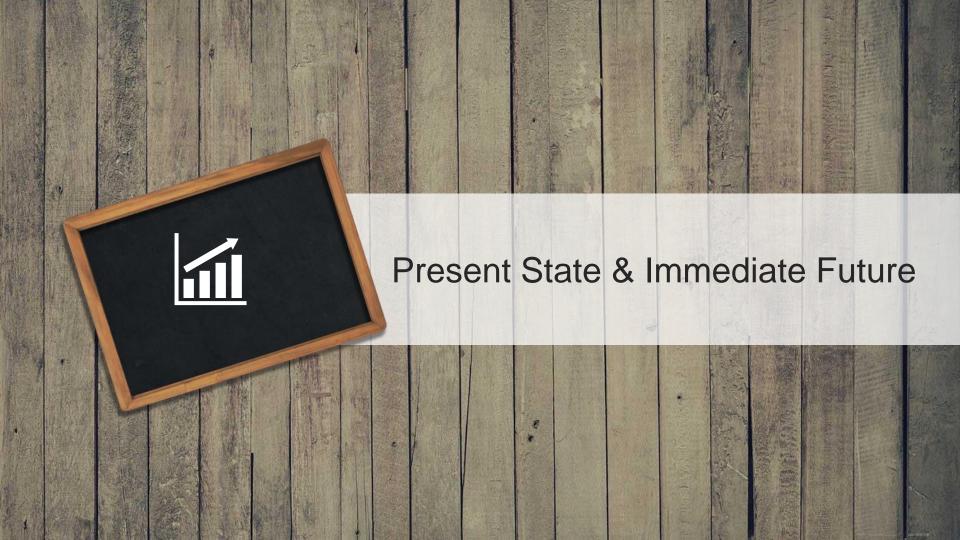


Technology in Education

How Much is TOO MUCH...??

Topics of Discussion

- A Peek at the Tech World 01
 - Present state and immediate future of technology in education
- **Adoption What and What Not?** 02
 - Algorithm for decision making
- Adaption How? 03
 - A simple sequential guide to implementation
- Conclusion 04
 - Take Home Message



Academics



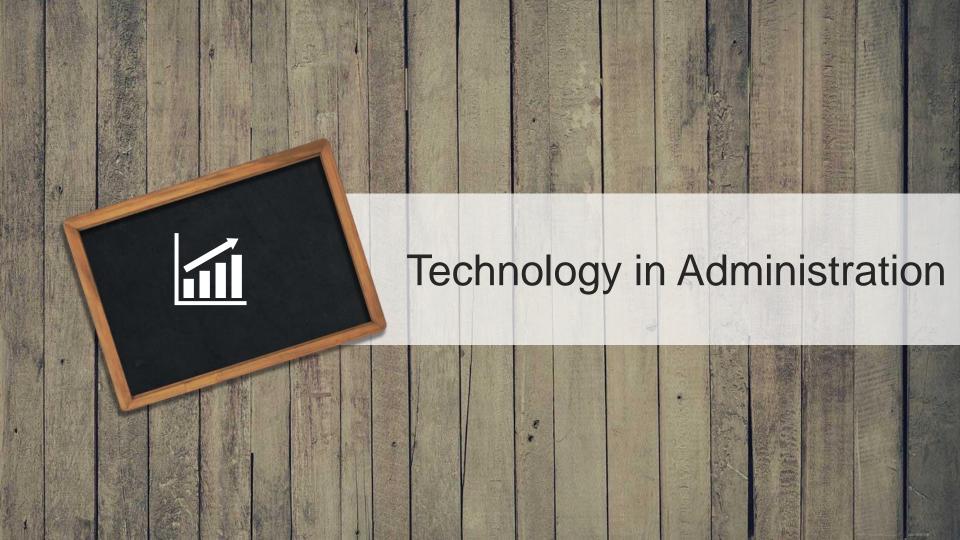
Technology Categorization



Hardware & Software

Administration





ERP – Enterprise Resource Planning

Basic Areas Covered by All Software

- Admissions and student data
- Attendance management and reporting
- Management
 - Finance
 - HR
 - Purchase, Stores, Inventory management
 - Generation of various reports

Support Services

- Security
 - CCTV, ID cards, Child Tracking
- Transport GPS enabled
- Parental Collaboration SMS, WhatsApp, CCTV Feed
- Marketing
- Media and Social Media Website, FB page, YouTube Channel

Technology in Administration

- No direct influence on 'Academic Performance'
- Decision making depends on multiple factors
 - Location, branches, finances, staff readiness
- Multiple options available varying costs
- Look for customization and scalability



The Transition

Type and Source of Content



Books



Digital Content

- Wikipedia
- **Audios**
- **Videos**
- **Animations**
- **Mind Maps**
- Lectures
- **Experiments**
- **Projects**

Companies Providing Digital Content



























Blackboard learn.



Learning Management Tools



DOKEOS eLearning made easy

OPEN SOURCE PLATFORM FOR **E-LEARNING ILIAS®**



Chamilo E-Learning & Collaboration Software

The Transition

Classroom Structure



Blackboard



The Transition

Collaboration



Online Community



Cloud Storage



MOOCs

Massive Open Online Courses



Personalized Learning

Technical



Soft Skills



Skill Development



Technological



Life Skills









MakerSpace - Integrated Learning and Skill Development

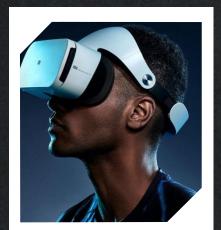


combines features of

- Science Labs
- Art Studios
- Computer Labs
- Robotics
- Electronics
- Wood Work
- Metal Shops

The Future

Future Technology Being Customized for Learning



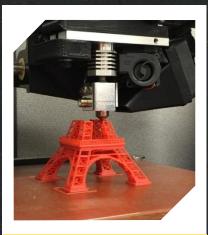
Virtual Reality



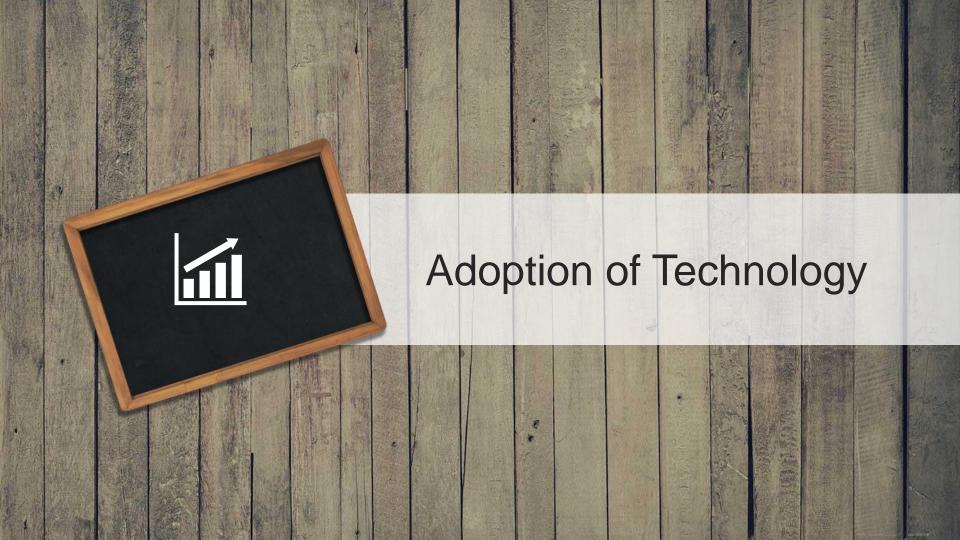
Artificial Intelligence



3D Holograms



Robotics & 3D Printing



A Few Points to Ponder

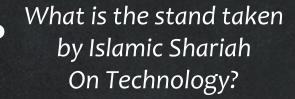
Is Education only about Knowledge and Skills?

What is the Effect on 'Body' and 'Soul'?

What will be the status of Student-Teacher relationship?



Will we not need schools in the future?





01 - Is it Inevitable?

Ex: Digital Content

Is it going to become universal? Is there any alternative?



02 - Is it Important?

Ex: Tablets for kids

Is it an improvement or is it just 'old wine in a new bottle'? Will it improve student performance? Will it ease the teachers' work?



03 - Is it Islamic?

Ex: Online Community

Is it Shariah Compliant?

Does it corrupt the mind, body or soul?

What are the control mechanisms?

Who decides 'right' and 'wrong'?



04 - Is it currently Implementable?

Ex: Tinkering Lab

Do you have the Time and Money?
Do you have necessary support infrastructure?
Are your teachers ready?



Set Time Bound Sequential Targets

- Farz
- Wajib
- Sunnah
- Nafl
- Mustahab
- Mubaah

- Makrooh
- Haraam

Level 1 – Must for All

- Computer Lab
 - Planned Curriculum
 - Trained Teacher
 - Teach Typing



Reading and Writing Tool

Level 2 – Preferable for All

- Audio-visual aids
 - Projectors in classroom
 - Portable trolleys
- Digital content for teachers
 - Free online content
 - One time purchase customized content
 - DO NOT buy commercial content



Portable Trolley

Level 3 – Preferable, But Not a Necessity

- Smart Board and interactive screens
- Assessment and evaluation data and report generation

- Skill development Labs
 - Collaboration with industry
 - Customize
 - Do not commercialize



Smart Marker

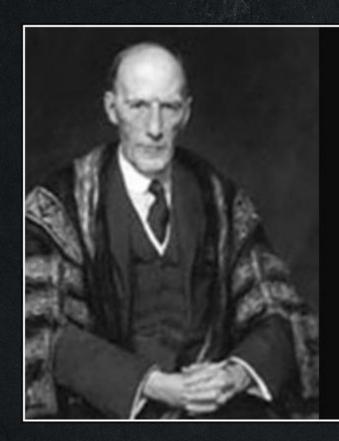
Level 4 – Better to Wait

- Digital content for students
 - Needs monitoring
 - Safety issues
 - Ethical issues
- Virtual Lab, 3D Holograms, VR, AI, 3D Printing, Makerspace
 - All are in experimental stage
 - No proven results
 - Adverse effects not yet publisized

Conclusion – Take Home Message

- Technology in Education is in a Stage of Transition / Revolution
- Focus on Tarbiyah is Missing

 Importance of Teacher is Undermined
 Technology is only a Tool. User is More Important.
- **03** Everything New is Not For You Follow the 4i Algorithm
- Better to Adapt Early Than Being OutdatedSet Time Bound Sequential Goals



From inability to let well alone; from too much zeal for the new and contempt for what is old; from putting knowledge before wisdom, science before art and cleverness before common sense; from treating patients as cases; and from making the cure of the disease more grievous than the endurance of the same, Good Lord, deliver us.

— Sir Robert Hutchison —

AZ QUOTES

