Project Based Learning
Our Journey, Implementation & Challenges

Dr Termit Kaur Ranjit Singh
THE WHAT AND HOW OF PBL

WHAT

Benefits
The projects
The challenges

HOW

The design
The Implementation
BENEFITS OF PBL

1. PBL (+technology) enable students, teachers, and administrators to reach out beyond the school building.

2. Students become engaged builders of a new knowledge base and become active, lifelong learners.

3. Students take control of their learning:
   - reflect upon their own ideas
   - Make decisions that affect the learning process
Definition of PBL

a systematic teaching method that engages students in learning essential knowledge and life-enhancing skills through an extended, student-influenced inquiry process structured around complex, authentic questions and carefully designed products and tasks.
Groupwork / Teamwork
Teacher Educators have a big task – preparing teachers of the future. But How? Equipping teachers with 21st Century skills.

Through incorporation of technology in their teaching and learning, use of PBL and through telecollaboration.

Hence, in USM:
- we allocate training sessions for teacher educators on how to incorporate technology in their T&L.
- We use e-learning portals for teacher educators to upload their teaching materials for student access
- Run PBL workshops
Role of TEI to promote PBL

- Preservice teachers
- Inservice teachers
- Post Grad Students (In School of Educational Studies, USM)
Preservice Teachers and Post Grads

- Expose preservice Teachers to PBL and ICT integration in Teaching and Learning
- Expose Post grads full time on campus to ICT and PBL in teaching and learning process
Exposing Post grads to PBL....
To prepare pre-service teachers in integrating ICT into T&L,:

- Further Action:
  - Set-up of a Teaching with Technology Lab
  - Use of Peer Coaching Technique to encourage use of ICT
  - Ongoing Training of pre-service teachers
  - Curriculum with ICT component and ICT courses as well
  - Encourage pre-service teachers to participate in annual exhibitions such as MTE and ITEX as motivation
Series of Events conducted by TEI
Facilitating Effective ICT-Pedagogy Integration and PBL workshops 2010, 2011
Publish for awareness

Use new tools of the trade

By Dr. Termit Kaur Ranjit Singh

Traditions die hard in the teaching profession, but educators must face up to the fact that 21st century tools are needed to teach digital learners.

As an educator myself, I have many friends who are teachers and they often seem happy and comfortable teaching the way they have been taught when they were in school.

I often hear that teachers are reluctant to use technology to teach because they see it as a waste of time.

Are you one of those teachers?

If you are, then dip your toe into the 21st century, it may be cold at first, but it will warm up very quickly.

You’ll find that technology is a tool that not only engages and challenges the student, but the teacher as well.

This is the 21st century and our students are 21st century digital learners!

We may not always have all the resources, but we can still find a way to not only educate but to engage our students, digitally.

What is digital learning?

According to the Digital Learning Day webpage:

Digital Learning is any instructional practice that is effectively using technology to strengthen the student learning experience.

Digital learning encompasses a wide spectrum of tools and practices, including using online and formative assessment, increasing focus on the quality of teaching resources and tools, online content and courses, and applications of technology in the classroom and school building, as well as software for students with special needs.

Techno wizardry enlivens classes

By Dr. Termit Kaur Ranjit Singh

The clever use of technology in the classroom is a sure-fire way to increase interest in learning among today’s tech-savvy students.

As an educator, I have always been a great believer in John Dewey’s famous quote, “If we teach today as we taught yesterday, then we rob our children of tomorrow.”

So it is our duty to teach our students in such a way that we prepare them for a better tomorrow.

Our students have already beaten us when it comes to technology.

Like flipping on a switch in a dark room, the right use of technology in education can do wonders to produce great minds and holistic individuals.

OBSERVING a trainee teacher teaching during her practicum one day, got me thinking again on how schools and teaching have hardly changed. From the time I was in school many decades ago, till this day and age where everything is going “e”, teaching has yet to embark on real change.

When my trainee teacher took out her laptop, connected it to the projector, and started her PowerPoint presentation, I was glad to see how she used a simple application and
# ICT Integration in Teaching and Learning
## 1 Day Workshop
### Programme

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>9:00 – 9:15</td>
<td>Registration</td>
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<tr>
<td>9:15 – 9:45</td>
<td>Opening and Welcome</td>
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<tr>
<td>9:45 – 10:00</td>
<td>Session 1: Welcome and Introductions</td>
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<tr>
<td>9:45 – 10:00</td>
<td>Activity 1: Introductions /Norm-setting/Parking Lots</td>
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<tr>
<td>10:00 – 10:15</td>
<td>Introduction to the Training Design, Objectives and Routines</td>
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<td>10:15 – 12:00</td>
<td>Session 2: eLearning Series on Information and Communication Technology (ICT) in Education – Module 1 – Essentials</td>
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<tr>
<td>12:00 – 12:30</td>
<td>Review Point</td>
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<tr>
<td>12:30 – 1:00</td>
<td>Session 3: Defining ICT (Part 1)</td>
</tr>
<tr>
<td>12:30 – 1:00</td>
<td>Activity 1: What is ICT? Why Integrate ICT in Teaching and Learning? (VISIT PARKING LOTS)</td>
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<td>1:00 – 2:00</td>
<td>Lunch Break</td>
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<tr>
<td>2:00 – 3:30</td>
<td>Session 4: eLearning Series on Information and Communication Technology (ICT) in Education – Module 2 – Decision-Making</td>
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<tr>
<td>3:30 – 3:45</td>
<td>Health Break</td>
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<tr>
<td>3:45 – 4:15</td>
<td>Module 2 – Review Point</td>
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<tr>
<td>4:15 – 4:45</td>
<td>Session 5: Defining ICT (Part 2)</td>
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<tr>
<td>4:15 – 4:45</td>
<td>Activity 1: Challenges to Integration</td>
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<tr>
<td>4:45 – 5:00</td>
<td>Presentation of Exemplary Videos</td>
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<tr>
<td>5:00 – 5:30</td>
<td>Closing Ceremonies and Awarding of Certificates</td>
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<td>5:30</td>
<td>End of Workshop</td>
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Professional Development of Teachers
PBL Workshops with Teachers
Workshop with Maldivian Teachers Peer Coaching 2011
Good practices

Good practices

Good practices
Environmental Sustainability

Culture

ICT

Awareness
PROJECT 1

Open burning

Global Warming
Projeck Lisan Tingkatan 2
PROJECT 2

PLASTIC DISPOSAL

Global Warming
Projek Lisan Tinokatan 2
Project 3

THE IMPLEMENTATION OF PBL IN A MALAYSIAN SCHOOL
MALAYSIAN HERBS MAKE GOOD SOAP
jan - june 2012
Designing and Implementing PBL
Inservice Teachers

ICT Integration in teaching and Learning Workshops

PBL Workshops Peer Coaching

Follow up with schools

SUPPORT FROM SCHOOL ADMINISTRATORS
Challenges of PBL

- Funding for projects
- Approvals for Teachers to attend Workshops in TEI
- Getting teachers to do projects that bring about learning and not just ‘do projects for the sake of doing projects’.
- Giving ongoing support as Teacher Educators are involved in various other work
Challenges

- Teachers planning projects that actually make learning happen and not just projects for the sake of having projects!
## Major Reasons for Teachers to Implement PBL

<table>
<thead>
<tr>
<th>Questionnaire Item</th>
<th>PBL-based Schools</th>
<th>Non-PBL based Schools</th>
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<tbody>
<tr>
<td>Matches my philosophy of teaching and learning</td>
<td>88.8%</td>
<td>100%</td>
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<tr>
<td>Administrators encourage teachers to implement PBL</td>
<td>80%</td>
<td>12.5%</td>
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<tr>
<td>Available funding for implementing PBL in teaching</td>
<td>9.9%</td>
<td>75%</td>
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Factors affecting the implementation of PBL in schools.

- resources
- student factor
- teaching conception of teachers
- Support from TEI
- Funding
- SUPPORT FROM SCHOOL ADMINISTRATORS
FUTURE PLAN in USM

- Continuous Teacher Dev and Peer Coaching Workshops
- March 2013
  - 1DAY Teachers’ SEMINAR (Bringing together Teachers from the Northern Region of Malaysia)
  - A Regional Meet – Bringing Together TEIs
    - To share our Journey - work done so far
    - Talks
    - Parallel Workshops for Teachers
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THANK YOU