



### Collaborative Teaching for Enhanced Students Learning Experience

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## COLLABORATIVE TEACHING CONCEPT



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#### What is Collaborative Teaching??

- Co-teaching or Collaborative Team Teaching
- Collaborative teaching, sometimes called cooperative teaching or team teaching, involves educators working in tandem to lead, instruct and mentor groups of students.
- Co-teaching is not one teacher maintaining all planning and instructions







#### What is Collaborative Teaching??

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#### **Co-Teaching Models**

- Team teaching. Both teachers plan lessons and work together to teach students.
- One teaches, one assists and/or observes. One teacher actively teaches while the other assists, gives individual help as needed, or observes.
- Station teaching. Teachers may be responsible for different parts of the lesson plan. This allows them to play to their teaching strengths.
- Parallel teaching. The class is split in half, and each teacher takes one group.
- Alternative/Differentiated teaching. One teacher teaches a larger group of students, while the other teacher works with a smaller group inside or outside of the classroom.
- Supplemental Teaching: This strategy allows one teacher to work with students at their expected grade level while the other teacher works with those students who need the information and/or materials re-taught, extended, or remediated.

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#### **Models for Co-teaching**





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### Team Teaching

- Both teacher are delivering the same instructions at the same time to 1 group.
- "One brain in two bodies"
- With the situation of pandemic this is the best solution - pair the teacher with someone who expert in the knowledge and also in using online learning tools.











#### One teaches, one assists and/or observes

- One teacher provides assistance during large group instruction, while the other teacher monitors.
- When to use:
  - When the lesson lends itself to delivery by one teacher
  - When one teacher has particular expertise for the lesson
  - When the partners of co-teaching involve senior vs junior academician
  - In new co-teaching situations to get to know each other
  - In lessons stressing a process in which student work needs close monitoring – e.g. teaching computer programming.



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#### **Station Teaching**

- Content & students are divided into 3 groups
- Two stations are teacher led, while the 3<sup>rd</sup> station is where the students works independently
- Groups rotate between stations
- By the end of the session, students will have completed all 3 stations
- Each teacher will have seen every student.











#### Parallel Teaching



	Operational Definition	Advantages		Disadvantages
•	Students are divided into 2 groups	<ul> <li>Lower students to teacher ratio</li> <li>Promotes participation</li> </ul>	•	Noisy & lot's of movement. More joint planning
•	Each teacher delivers same content at the same time	<ul> <li>Works well for drill and practice, review session</li> <li>Small group - Teacher can pay more attention to student's need</li> </ul>	•	Teachers must be comfortable with each other Possibility for confusion Not for new teachers



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### **Alternative Teaching**



Operational Definition	Advantages	Disadvantages
<ul> <li>Students are divided according to their performance – low vs high</li> <li>Each teacher delivers same content at the same time using different approach</li> </ul>	<ul> <li>Personalised learning can take place</li> <li>Works well for class that has diverse student's background – PG class.</li> <li>Instructions will tailor to student's need</li> <li>Motivate all students</li> <li>No one left behind</li> </ul>	<ul> <li>Need more preparation</li> <li>Challenges to find the suitable LnT approaches.</li> </ul>

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## **CO-TEACHING MODELS** ALTERNATIVE TEACHING



STUDENTS WHO HAVE MISSED ASSIGNMENTS HAVE THE CHANCE TO CATCH UP

FINDING SPACE CAN BE DIFFICULT



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### Parallel & Alternative Teaching through Online Synchronous Communication Tool

- Divide the student into two breakout rooms
- Each break-out room in charged by different teacher
- Group presentation will be conducted in main room
- To motivate students use challenge/competitionbased assessment method – e.g Hackathon.







### Supplemental Teaching

- Provides additional support for struggling student Lecture vs Tutorial
- Facilitates enrichment opportunities
- Offer absent students "catch up" time
- Offer time to develop missing skills
- Keep individuals and the class on pace







Why?

- improve student learning.
- combine strengths, share responsibilities,
- learn from each other
- sparks of innovation
- customize the pedagogical and technology experiences







### Key benefits of Collaborative Teaching

- a sense of "all being in it together"
- having a critical friend to support you
- trying new things and getting feedback from students and colleagues on their impact
- being part of an ongoing process on reflection.







#### Benefits

- Increased Academic Effort
- Increased Understanding of Student Data
- More Creative Lesson Plans
- Less Teacher Isolation







### Benefits of active teacher collaboration

- Teachers take collective responsibility for the progress of all learners.
- Teachers who know how to collaborate effectively will model the skills of collaboration to their learners.
- Provide opportunities for teachers to learn from and with each other on an ongoing basis.
- Capitalise on each other's strengths, support each other's professional growth, debate ideas, and problem solve together.







#### Teacher collaboration involves:

- debating, planning, and problem-solving together
- inquiring together, using evidence and research to guide decision-making
- capitalising on each other's strengths and working with each other's weaknesses
- actively contributing to a respectful and supportive learning environment.



### Challenges

- Lack of a True Professional Learning Community
- Lack of Planning, Collaboration, or Reflection Time
- Personality Conflicts and Territoriality
- Time Management
- Teamworking Skill

THE PROBLEM WITH SMART PEOPLE IS THAT THEY LIKE TOBE RIGHT AND SOMETIMES WILL DEFEND IDEAS TO THE DEATH RATHER THAN ADMIT THEY'RE WRONG. "













#### Successful Co-Teaching

- getting to know each other's strengths, skills, and ways of working
- developing a shared understanding of the purpose and benefits of collaboration
- clarifying how to work together effectively
- identifying practices that could support them to collaborate effectively
- ensuring the team <u>charter</u> aligned with the school vision and values.







### Tips for successful co-teaching

- Change of mindsets Shifting from "my learners" to "our learners"
- Collaboration and inquiry
- Be professional
- Optimistic and making it works
- Mutual respect, understanding, and trust







## Key factors that can contribute to relational trust include:

- keeping learner needs at the centre of everything you do
- encouraging each other to try new things
- being familiar with people's strengths and suspending judgement about their weaknesses
- being open about your own mistakes and challenges
- accepting other teachers' "non-negotiables"

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- learning how to engage in difficult conversations
- having strategies in place for when things aren't going well.







#### WORDS TO PONDER...

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#### WORDS TO PONDER ...

They need to know that it is a team... You have to be flexible, you have to have good communication skills and you just really need to be able to work with somebody else. It is not all about you [laughing].

You have to learn to work well with somebody and it takes time to do that... I am not one who is afraid to ask any question, any time or make sure you know what is okay with the other lecturers-- "Is it okay if they put this in their book bag?"



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#### WORDS TO PONDER ...

Just to always be extra cautious. But flexibility and communication because it is a team, an inclusive setting is a team structure. That is very important, if you don't have that team or if you have two lecturers who don't/can't work as a team or can't be flexible, the students are going to pick up on that and it is not going to benefit the students.









### The Best Partners of Collaborative Teaching

- Beginning lecturers with an experienced lecturer, or
- Struggling lecturers with excellent lecturers, or
- A subject matter expert lecturer with a pedagogical expert lecturer or
- Equal strengths and teaching background lecturers or
- Voluntary and spontaneous







## COLLABORATIVE TEACHING – TECHNOLOGY TOOLS



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### Using Technology to facilitate Co-Teaching

- Facilitating communication
- Creating and sharing resources
- Sharing student data and tracking your work
- Co-planning in different physical spaces
- Scheduling







### Using Technology to facilitate Co-Teaching

- Write collaborative lesson plans in <u>Google Docs</u>
- Set up recurring, online meetings to lesson plan Google Calendar
- Use e-learning system of your university to create learning activities simultaneously.
- Divide tasks on who will take in charge in managing e-learning activities. E.g – Lecturer A will manage online discussion forum, Lecturer B will manage – online chat etc.







## COLLABORATIVE TEACHING – STUDENTS LEARNING EXPERIENCE



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### **LEARNING IS...**









### **LEARNING EVOLUTION**







#### Learning Design Framework Resources to Create Optimal Student Learning Experiences

#### **Content Sources**

- Open Educational Resources
- Institutional Resources
- Instructor created
- Student created/sourced
- Social Media

#### Web Collaboration Resources

- Wikis
- Blogs for content creation
- Apps for creating, sharing
- Video sharing & creating
- Document sharing & collaboration

#### **Human Resources**

- Instructors; internal or external to institution
- Subject matter experts
- Students
- Peers re. learning & support
- Learning support specialists

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	OVERALL	CHANGE	TOOL	CATEGORY	PL100	WL100	ED100	
NI	RANKING	FROM						
		2019						
	1	SAME	YouTube	web resource (videos)	1	4	1	email
	2	UP 8	Zoom	video meeting platform	5	1	3	
	3	DOWN 1	Google Search	search engine	2	3	6	
	4	DOWN 1	PowerPoint	office tool / suite	9	5	2	• •••
	5	UP 6	Microsoft Teams	collaboration platform	15	2	8	ıks 🦉
	6	UP 1	Word	office tool / suite	10	6	5	9 😨
	7	DOWN 1	Google Docs & Drive	office suite   file sharing platform	11	10	4	в
	8	DOWN 3	LinkedIn	social network / community	3	8		
	9	DOWN 5	Twitter	social network / community	4	28	25	by Jane Hart nologies
	10	UP 4	WhatsApp	chat tool	6	9	10	vey





### What challenges have you encountered in teaching online?







#### Engagement in Online Learning

- Online Learning without engagement is like a car without an engine.
- Engagement behavioral, cognitive, and affective (emotion, motivation)
- How to engage learners in online learning??
- Learning activities and environment must be interesting.







#### Online Learning Tasks

- Challenge the students to solve real world problems
- Set collaborative learning environment (chat & forum)
   give marks
- Set self-reflection channel to catch student's thinking – metacognitive
- Provides learning resources youtube video, articles, extra notes in slideshare
  - Self-paced learning Powerpoint with narration.



### Filming, Recording and Editing your Online Course

- Using iPhone
- Camtasia
- Facebook Live
- Powerpoint
- Skype
- Google Video hangouts
- Zoom
- Webex
- Streamyard
- Loom











#### Self-Learning Material Characteristics

- Self-contained
- Self-explanatory
- Self-directed
- Self-motivating
- Self-evaluating
- Self-learning







#### Self-Learning Material

- Powerpoint slides with narration
- Self-reading/learning materials .pdf, .ppt, online books, youtube etc.
- Any Additional OER, MOOCs etc.
- Self-assessment on assignment, test, quiz etc.
- Chatbot chat robot







### The invisible's teacher built in the learning materials facilitates the learners in their studies in the same way as the classroom teacher does within the face-to-face classes









### **Class Agenda**

#### 25 October 2020

10 minutes – Class Attendance QR Code Scan

20 minutes – Educational Technology vs Instructional Technology vs Digital Technology vs Digital Literacy – *Notes 1* 

15 minutes – TPACK & TPACK Forum – Notes 2

10 minutes – Game on TPACK

10 minutes - BREAK

20 minutes - Technology vs Theory - Notes 3

10 minutes - Forum: Product & Process of Edu. Tech.

15 minutes – Emerging Technology – Notes 4

10:25 - 11:00 pm - Closure Activity

Homework:

- 1. Forum Professional Associations/Organisations related to ICT in Education and Edu Tech.
- 2. Forum: Research Trends and The Impact of Emerging Technologies
- 3. Forum: Top 200 Tools for Learning 2020
- 4. Forum: Your comments on our class today...



## Quizizz

### Gimkit

Kahoot!



### **Class Agenda**

#### 22 November 2020

10 minutes – Class Attendance QR Code Scan

#### Part I – 30 minutes – LMS vs CMS vs LCMS

- 30 minutes Break-out Room: Notes 3
  - $\circ~$  Set a group leader, a writer, a presenter.
  - What are the differences among those applications?
  - Create one slide to differentiate those three applications
  - $\circ$   $\,$  Online Presentation by a group presenter.

#### Part II – 30 minutes – Heutagogy Learning Activity

30 minutes – Break-out Room –

#### Heutagogy Learning Activity: Let's do some reflections on this issue:

- a. Have you experienced in **DESIGNING AND DEVELOPING** any learning and teaching aids such as websites, mobile apps, learning activities etc. for students/trainees?
- b. How do you prepare the LnT aids?
- c. What steps that you used in preparing them?
- d. Have you experienced this situation?
  - The learning activities/apss are not attractive enough
  - The learning activities/apps failed to engage student's learning
  - Students unable to understand the apps or websites
  - Did not know where to start in designing LnT aids.
  - Did not have any systematic steps/procedures in developing LnT aids.

#### 10 minutes – BREAK

#### Part IV – 30 minutes – Instructional Design Model

- 20 minutes ID Model Article ID
- 10 minutes Assignment 01

Homework:

1. Online Learning Survey

2. Assignment 01

3. Forum: Heutagogy Learning Activity











#### "Heutagogy applies a holistic approach to develop learner's capabilities, with learning as a proactive process where learners serves purpose of the agent in their own learning, which occurs as a result of personal experiences" - Hase and Kenyon (2000)













### Heutagogy Learning Activities/Tasks - Enablers



and Facebook

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tablets

### **Components of Online Heutagogy Environment**





Self-determined





Don't overload students...let them learn from YouTube, an FAQ, or linking to an expert





#### Peeragogy

- Howard Rheingold coined the term "Peeragogy" in 2012.
- He combined social media with paragogy to describe peeragogy as the
  - "future of high-end online learning in which motivated self-learners collaborate via a variety of social media to create, deliver, and learn an agreed curriculum."
- Each learner serves in the "instructor" role and creates the syllabus and strategy to promote critical thinking and thoughtful discussions.





### Why Peeragogy?





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To empower the worldwide population of self-motivated learners who use digital media to connect with each other, to co-construct knowledge, to co-learn.

Learning is a social, active, and ongoing process.

Co-learning is ancient; the capacity for learning by imitation and more, to teach others what we know, is the essence of human culture. We are human because we learn together.

It is becoming clear that with today's tools and some understanding of how to go about it, groups of selfdirected learners can organize their own courses online.



## Peeragogy – Group Work

#### The group needs to:

01

establish a group consensus for expectations, learning objectives, media technology, and the social contract of the course.

#### 02

formulate a process for communicating with one another, how to respond to questions, give feedback in a timely manner, and evaluate performance at the completion of the course.

#### 03

be a process to translate changes to the learning environment to be implemented in the next cycle.

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04

Peers have different but equal perspectives

> Realize the dream (if you can), then move

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Meta-learning as a source of knowledge

#### Learning is distributed, not linear

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#### Peeragogical Technology Tools



#### Use Google Slides to identify Student's Learning

![](_page_56_Picture_1.jpeg)

57

![](_page_57_Picture_0.jpeg)

## WHAT IS COOPERATIVE LEARNING?

![](_page_57_Picture_2.jpeg)

- CL is team-based
- A team is "a small number of people with complementary skills who are committed to:
  - a common purpose,
  - performance goals, and
  - approach for which they hold themselves mutually accountable"

(Katzenbach & Smith, 1993)

![](_page_57_Picture_9.jpeg)

![](_page_58_Picture_0.jpeg)

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### COOPERATIVE LEARNING (CL)

![](_page_58_Figure_3.jpeg)

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#### Cooperative Learning Structures:

- Informal CL Structure
- Formal CL Structure
- Informal CL Structure involve very little structure (typically small, short term, ad hoc groups); commonly used in predominately lecture classes
- Formal CL Structure can be used in content intensive classes where the mastery of conceptual or procedural material is essential; however, many faculty find it easier to start in recitation or laboratory sections or design project courses.

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Group Activities:

- Brainstorm
- Opening Question
- Introductory think pair share
- Note taking pairs
- In-class Teams
- Think Pair Share
- Note-checking
- Guided Reciprocal Peer Questioning
- TAPPS (Thinking Aloud Pair Problem-Solving)
- Pair Composition
- Pair Testing

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- Individual & Pair Testing
- Question and Answer Pairs

Individual Activities (Intracooperative)

- Focused Listing
- Reflection
- Two-minute paper
- One Final Question

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#### Various forms of formal cooperative learning:

- THE JIGSAW METHODS (Aronson et al 1978)
- JIGSAW II (Slavin)
- WITHIN-TEAM JIGSAW
- CONSTRUCTIVE CONTROVERSY (Johnson & Johnson)
- STUDENT TEAM ACHIEVEMENT DIVISIONS (STAD) (Slavin 1980)
- TEAMS GAMES TOURNAMENTS (TGT) (DeVries & Slavin 1978)
- TEAM ASSISTED INDIVIDUALIZATION or TEAM ACCELERATED LEARNING (TAI) (Slavin 1985)
- GROUP INVESTIGATION (GI) (Sharan et al 1984)

![](_page_61_Picture_11.jpeg)

#### FORMAL CL - JIGSAW METHODS

Students become "experts" on a concept and are responsible for teaching it to the other group members

# Puzzle-Method (JigSaw) (Home groups) (expert groups)

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#### The Jigsaw Method

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