

INSTRUCTOR KIT: Pedagogical Use of G-Suite Applications for Online Synchronous Lessons



Compiled by: Fathimath Nasiha Abdul Muhaimin

The primary source for this compilation is Designing and organizing instructional material, Centre for Teaching and Learning website from Learning House Wiley.

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Moving from the familiar physical classroom environment to a mostly unfamiliar online virtual classroom setting can be a rather strange and at times a daunting experience. Having to sit in front of a computer typing and clicking at your keyboard and going "hello, can you hear me, did you understand", repeatedly to a group of faces on boxes on a screen does sound a bit tiresome. However, instructors who have gone "online" and experienced the online synchronous classes assure that once we figure out the pedagogical uses of the technologies on hand, the online class is not all that different from an in-person, physical classroom. They assure that with the right pedagogical use of the tools available allows for effective teaching and learning in online spaces too.

For successful online synchronous sessions, just like for F2F sessions, instructors must apply effective lesson planning strategies, appropriate instructional design, pedagogical models, feedback strategies, community building opportunities, synchronous course management skills and exploratory discussions to enhance student engagement in learning. **Our aim is to bring structure, cohesion and active engagement to the learning environment, keeping in mind that both Synchronous (online, Google Meet) and Asynchronous (online via Moodle) lessons work together for the whole subject.**

Lessons designed upon active learning strategies make online synchronous sessions successful and in this guide we will look at how this can be achieved using the G-Suite applications as we take our online live classes using Google Meet.

KNOWING YOUR TOOLS AT HAND

THE G-SUITE APPLICATIONS

There are several web-based applications that help instructors create interactive and engaging classroom atmosphere during synchronous, live, real-time, online sessions. Google provides us with some of the most easy to grasp and convenient applications for education.

Google Meet is a video conferencing application that is part of the Google Suite. The Google Meet is as the name suggests a platform to conduct online meetings. You are connected in real-time to a group of other people via audio and video, you can share your screen, and also chat. To learn more about the use of Google Meet refer <u>"Instructor's Guide to Google Meet"</u>.

Other G-Suite applications such as Google docs, Google slides, Google sheets and the Google Jamboard can be easily integrated into your Google Meet session. We will look at a sample online synchronous session with some of these tools in the next section of this guide. You can explore how to create and use the G-suite applications by referring to G-Suite Basics and G-Suite advance guides.

Google application/tool	Features	Pedagogical / classroom use
Google doc	Can be created, edited and stored online.	In our usual F2F classes, we normally pose questions to the whole class and move on when one or two students answer,
	Files can be accessed from any computer / device with an internet connection and a full-featured Web browser.	however, using the Google doc, we can get all the students in the class to answer our questions!
		We can have a single Google doc
	Multiple authors can work	for each lesson, with
	together in real-time from	STRUCTURED sections for
	geographically diverse	pre-lecture questions, during
	locations. All participants	lecture questions and post
	can see who made specific	lecture questions.
	document changes and	
	when those alterations were	
	made.	We can create collaborative
		group work docs, where students
	Con import prosto adit and	work together on a case-study or
	Undate documents and	solving a problem.
	spreadsheets in various	
	fonts and file formats,	We can aso guide individual

Taking a closer look at the G-suite applications and their pedagogic uses:

	combining texts with formulas, lists, tables and images. Compatible with most presentation software and word processor applications.	students to create Google docs and share with instructor
Google slides	Allows users to create and format presentations and work with other people. Works similar to Google docs	Can get students to work together in groups on solving a problem, presenting a particular topic. Can be used during the session or at the end of the session.
Google sheets	Looks and functions much like any other spreadsheet tool, works like Google docs	For teaching ideas with Google sheets look <u>here</u> .

(a) cete@mnu.edu.mv

Google Forms	Forms are among the internet's most versatile tools. Whether you need a contact form or a checkout page, a survey or a student directory, a form is all you need to easily gather that information. With Google Forms, it only takes a few minutes to make one for free.	We can use Google forms to create quizzes, from MCQs, short answers, ratings. We can use the quizzes at the beginning or at the end of the session. For teaching ideas with Google sheets look <u>here</u> .
Google Jamboard (white board)	Jamboard is one smart display, and works like a Whiteboard. Quickly pull in images from	You can create and share the Jamboard as the main teaching activity if you want to go for the 'chalk/marker and board' option of teaching.
	a Google search, save work to the cloud automatically, use the easy-to-read handwriting and shape recognition tool, and draw with a stylus but erase with your finger – just like a whiteboard.	To explore and learn more about Jamboard look <u>here</u> .

Cete@mnu.edu.mv

SAMPLE ONLINE SYNCHRONOUS LESSON PLAN

Topic: "Legislatures: Representing the People?"

Learning Outcome:

• Students will be able to identify the differences and similarities between the two main types of legislatures and describe how these impact the representation of voters.

Pre-session Set up:

Create Moodle Announcement explaining what will be the focus of the session, links to readings students need to have completed, relevant media articles.

Set up a Google Meet schedule in advance. Make sure any relevant Google docs or resources are shared with students prior to the start of the session.

Important: set your Google sharing options to your desired permissions. Have relevant Google docs, images, and videos ready on computer for desktop share and discussion.

Online Synchronous Session: The LIVE class:

Time (Duration)	Activity	Resource
0-5 mins	Welcome students to	Google Meet Chat
Introduction	class, ensure video and	
	audio are working, and	Google doc made for the
	remind about netiquette.	session with
	Share Google doc with	pre-discussion questions.
	pre-lecture questions,	
	paste links in chat and tell	
	students to open the doc,	
	answer any immediate	
	questions.	

	Let students know the session will be recorded	
	and shared on Moodle.	
6 -15 mins Reinforcing concepts from readings	and shared on Moodle. Review objectives from Moodle announcement. Let students know they can ask questions via chat for now while you explain new concepts. Share your screen via 'Present' on Google Meet. Share the Google doc w/ pre-discussion questions; summarize student responses. (This is your feedback to student responses to the questions). Bring up Kreppel's 'Types of Legislatures' Chart on desktop, analyze in-depth with aid of sharing tools (highlighter, spotlight) or	Google Meet Screen sharing Google doc made for the session with pre-discussion questions. Google Jamboard: Kreppel's 'Types of Legislatures' chart on Google Jam board.
	you can even open the chart on Google Jamboard	
16 – 26 mins Checking comprehension of new concepts	Review student questions in chat and let students know they can now indicate on the chat and ask verbal questions, answer any questions. Use prepared Quiz questions (Can be made using Google forms) to confirm comprehension of key ideas, knowledge and concepts processed by students. Pose question in the chat	Google form: Review Quiz

	system do you think best	
	represents the populace?')	
	and tell students to type	
	their responses while you	
	set up Google docs for	
	collaborative group task	
27-47 mins	Share Group Work Google	Google doc for group task
Student Group Discussion:	Doc in chat.	
Active Learning Exercise	Google doc will have clear	
	instructions: each group	
	represents one 'Type' of	
	Legislature from Kreppel's	
	Chart	
	They have to make case	
	that their Type of	
	l egislature truly represents	
	the people and that each	
	other type does not	
	successfully represent the	
	people They should	
	complete the Groupwork	
	doc as they make their	
	Give 10 mins to discuss	
	Go over the chat log from	
	earlier look over it and	
	notice any trends	
	misconceptions etc	
	By the 10-minute mark if	
	not oprior chock the work	
	of each group by opening	
	the respective Coords dee	
	the respective Google doc	
	deside whether they need	
	avtra time	
12.62 mino	Exild lille.	
43-03 MINS	Each group has to present	Google doc for group task
Student presentations	uneir key points from the	
	worksneet via desktop	
	share for 2 minutes. Each	
	other group has to make 1	
	reputtal point for 30	
	seconds.	

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63-70 mins	Students complete google	Google form for lesson
Lesson wrap up	doc form responding to	evaluation / assessment
	one key point they learned	
	in the session, and one	
	question they still have.	
	Consider using a form to	
	gauge comprehension so	
	students can individually	
	respond without being	
	influenced by their	
	classmates' insights	
Post session reflection	Review Google Meet	
	recording of session and	
	real-time student response	
	data to locate any	
	misconceptions that	
	should be addressed or	
	particularly incisive points	
	that should be highlighted.	
	Add the most impactful	
	moments of the session	
	(e.g., edited elements from	
	the video and responses to	
	relevant questions from	
	the questions to a Moodle	
	forum discussion board	
	post	
	Provide guidance	
	addressing residual	
	questions and highlight	
	important student	
	contributions. Be sure to	
	clearly contextualizing how	
	students can draw from	
	these elements for their	
	final assignment	

(a) cete@mnu.edu.mv

ADDITIONAL RESOURCES

Information and ideas for this compilation have been taken from the resources presented by the Centre for Teaching and Learning, Wiley Education Services and Google Education website and RRU Open Educational Resources.

- To learn more about specific Google education tools please visit the Google Education site <u>here</u>.
- 2. To read about collaboration-based pedagogy and G-suite applications click here.
- To learn more about how to teach online please take a look at 'Teaching from Home - Quick Start Guide' by Andrew Ng, Coursera, document in our resources section.
- To explore more on how additional resources can be used in online classes please explore the resources from Centre for Teaching and Learning, Wiley Education Services <u>here</u>.