

Dear all,

This message is to inform you about the next step for the PBL MOOC production: to review the final draft MOOC materials (deadline, September 30, 2021).

How to do the review? An explanation is given below, and if you get stuck: please respond to this email with your question so we can help fix the problem.

1. Kindly go to the Google Classroom environment for the PBL MOOC (you will need a Gmail account for this): <https://classroom.google.com/c/MzE2NDY5MzU5Mzg1?cjc=ckvntx7>
2. Click on the tab 'Classwork' that is presented at the top of your screen:

The screenshot shows the Google Classroom interface for a course titled "PBL MOOC - Draft". The "Classwork" tab is active. The left sidebar lists 8 topics, with "0. What is PBL" selected. The main content area displays a "Welcome to the MOOC!" post with a green icon, followed by "Dear learner!" and "General Comments" posts. Below that, there is a section titled "0. What is PBL" with three items: "Reading Material: Article", "Video Module 0: Learning Methods (lecture 1)", and "Video Module 0: What is PBL?". Each item has a green icon and a timestamp.

3. Then follow the order of the green icons to go through the MOOC.
4. For each module please give your feedback in the table below:

Review comments from Kausik Bhattacharya

Date of Review: 15-09-2021

Module 0. What is PBL?

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... I liked the In-class videos as they were created thoughtfully and nicely explain the learning methodologies and benefits of PBL

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: (a) The videos can be little more concise. There are repetitive contents between them, which might be eliminated. (b) Should the Quiz come after In-class videos?

Top: In-class videos are good, they helped me to understand what PBL is. Also the roadmap image explains the overall flow.

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ...The difference between Active (or Student centric) and Passive learning (Teacher centric) was explained in this module.

Do you feel activated by this module to do the assignment with your (hypothetical) team? YES/NO, please explain why or why not:Yes

If you have any other suggestions, praise, or other comments for this module, please feel free to share: ... Few additional things I would like to point out (a) The quality (color, font etc) of the roadmap image can be improved (b) I found the "Overview of Problem based learning" document under Prepare for Class is too detailed. Given that the basic concepts are explained again in In-Class videos, is this document necessary, can there be a short summary and add this document as additional reading reference (c) For students, this module might be too detailed. Most of the content tries to explain what PBL is as opposed to 'what's in it for me?' for the students. What a student has to take away from this module is not very obvious.

Module 1. Build a Team and Teamwork

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... I liked the videos as they were created thoughtfully and nicely explain the importance of Team Building and how to do it.

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: I found the journal article under 'Prepare for Class' is very detailed and may not be necessary as there is another video too. Instead, plan for having a short one paragraph description and add this journal article as additional reading reference.

Top: In-class videos for their content and presentation. It makes them very easy to understand and follow as well. But I liked most the "Type of Teamwork" video under 'Prepare for Class' section. It is very effective in communicating the message.

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ... (a) The significance of a team in problem solving and what it takes to build a team. (b) Also the Lesson-3 video on Team Building stages is a very good one, as it explains the whole lifecycle of a team

Do you feel activated by this module to do the assignment with your (hypothetical) team? YES/NO, please explain why or why not:Yes

If you have any other suggestions, praise, or other comments for this module, please feel free to share: ... (a) Why 'Co-creation' video is at the end? Does this video need to come after Team Assignment? If so, there is a mismatch with the sequence given in the 'Introduction (b) The transition from Team building related topics to Co-Creation is not seamless and the connection is not obvious. (c) The co-creation video says it is Module 7, whereas we are in Module 1.

Module 2. Choose and Frame a Global Problem

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... I liked the videos as they were created thoughtfully and nicely explain the concepts and shares relevant information on Sustainable Development Goals of UN.

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: The link or connection between Co-creation and Framing global problem can be more explicitly explained.

Top: How to frame a global problem using the Sustainable Development Goals of UN.

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ...The 17 Sustainable Development Goals of UN

Do you feel activated by this module to do the assignment with your (hypothetical) team? YES/NO, please explain why or why not: Yes. However, Problem Framing is not a straight forward work and often needs multiple iterations. This might be highlighted in the course materials.

If you have any other suggestions, praise, or other comments for this module, please feel free to share: ... Additional reading references that shows case studies or examples related to problem framing and how co-creation was useful.

Module 3. Do Problem Analysis

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... I liked the videos as they were created thoughtfully and nicely explain the concepts though there is an opportunity for them to be more concise

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: May consider the In-class videos to be more concise. Can we have one video instead of two?

Top: The Delft design guide on WWWWWH. In one page it articulates the main concept. Among the In-class videos, the TU Delft video on 5-why was relevant and explain the essence of problem analysis

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ...

Do you feel activated by this module to do the assignment with your (hypothetical) team? YES/NO, please explain why or why not:Yes

If you have any other suggestions, praise, or other comments for this module, please feel free to share: ... (a) Under Prepare for Class, it very clearly mentioned to read the one pager first, before going into the videos. (b) Why is the TU Delft video on 5-why placed under Team Assignment and not under In-class videos? (c) Why there is no Team Assignment materials/instructions?

Module 4. Do Needs Assessment

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... The article on the Fundamental Needs for Human-Centered Design is very good overview of human needs.

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: How to conduct Need assessment part is not very elaborate. Hence additional reading materials or videos can be given at the end as optional study materials.

Top: Short and Simple module, not overcrowded with too many materials.

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ...Maslow's model for Human need pyramid

Do you feel activated by this module to do the assignment with your (hypothetical) team? YES/NO, please explain why or why not:Yes

If you have any other suggestions, praise, or other comments for this module, please feel free to share: ... (a) In the Module 4 Lesson 1 video, calling out 'History Student' vs 'Design Student' may not be appropriate, as such comparison may invite disagreement. Since the main intention is to explain the differences in need between people, we can simply call out as Student-A and Student-B.

Module 5. Ideate for Solutions

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... The techniques of 'Ideate Solutions' were described and presented in a way that they are easy to understand and implement

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: In the lesson 1 video, add few more slides to explain the concepts. For e.g. add slides to accompany the verbal explanations on topics like (a) Idea Generation and Idea Analysis, (b) important characteristics of problem statement like 'Solution Neutral' etc

Top: Ideate Solutions techniques are explained using real life example

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ... (a) Brain storming technique details (b) Morphological chart

Do you feel activated by this module to do the assignment with your (hypothetical) team? YES/NO, please explain why or why not: Yes

If you have any other suggestions, praise, or other comments for this module, please feel free to share: ... (a) Prep for Class is empty (b) Further reading materials at the end is a good idea (c) Question: why Lesson 3 video is after Team assignments?

Module 6. Prototype a Solution

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... All 3 lesson videos are neatly done and flowing seamlessly from one to another

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: Additional reading materials as optional study materials can be recommended

Top: All the lesson videos

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ...The role of Prototyping in various stages of designing

Do you feel activated by this module to do the assignment with your (hypothetical) team?

YES/NO, please explain why or why not:Yes

If you have any other suggestions, praise, or other comments for this module, please feel free to share: ... (a) Prepare for Class is empty (b) Lesson 1 has two videos (ver.2 is the better one)

Module 7. Ensure Sustainable Impact

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... Videos convey important and useful information. Has references to wider sets of materials including industry

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: These videos may be considered as Additional Reference: What is Sustainability, Why we need to think differently, The earth is full, Anand Giridharadas, 3 ways to plan for the (very) long term

Top: Lesson 1, 2 & 3 videos

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ... Causes and Root Causes, Causal Pathway

Do you feel activated by this module to do the assignment with your (hypothetical) team? YES/NO, please explain why or why not:Yes

If you have any other suggestions, praise, or other comments for this module, please feel free to share: ... The long Youtube and TedEx videos can be optional ones. Focus should be on the 3 lesson videos of Module 7

Module 8. Implement and Communicate your Solution

Which aspects of this module did you like (the most)? Please explain.

- Introduction
- Prepare for class
- In-class videos
- Team work assignment

Explanation: ... I liked the videos as they were created thoughtfully and nicely explain the concepts of this module

State an overall top and a tip for this module (what did you like (top) and what would you recommend to improve (tip))

Tip: **Nothing specific**

Top: **Lesson 1 & 2 videos**

What do you consider the most valuable thing you (should) have learned in this module? (max 1 sentence) ...

*Do you feel activated by this module to do the assignment with your (hypothetical) team?
YES/NO, please explain why or why not:*

*If you have any other suggestions, praise, or other comments for this module, please feel free to share: ...**Quiz was posted under Prep for Class section.***

OVERALL.

On a scale from 1 to 10, what overall grade would you give this course? (1: very poor, 10: excellent): 8

Explanation for the grade: I would like to give a grade of 8, as I see there are rooms for further improvement. I am listing a summary of things which I found very good and things which may need consideration:

(a) Good:

- a. A clear Roadmap at the beginning, which explains the path to follow in PBL
- b. A very well-defined structure which was used consistently for all the modules
- c. The content and relevance of the In-Class videos in every module. I find this is the best thing in this course
- d. Good mix of materials from academia and industry. Incorporated important aspects that enable project success

(b) Need consideration

- a. It is not obvious who is the intended audience of this PBL MOOC course – Students or Teachers? Certain contents might be too detailed for a student and more relevant for teachers or instructors
- b. In some cases, there are too much content for Prep for Class or In-class Videos. Perhaps, we can categorize content as ‘mandatory’ vs ‘optional’ references. We can create a separate section for these Optional or Study References
- c. Following topics might be considered, as additional learning topics:
 - i. Systems Thinking as part of Ensure Sustainable Impact
 - ii. Change Management as part of Implement and Communicate Solution
 - iii. Measurable Success criteria as part of Implement and Communicate Solution