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Centre for Academic Development
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PUTRA COLLABORATIVE GLOBAL ONLINE LEARNING (PutraCGOL) AWARENESS

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Centre for Academic Development (CADe), UPM

26th April 2021

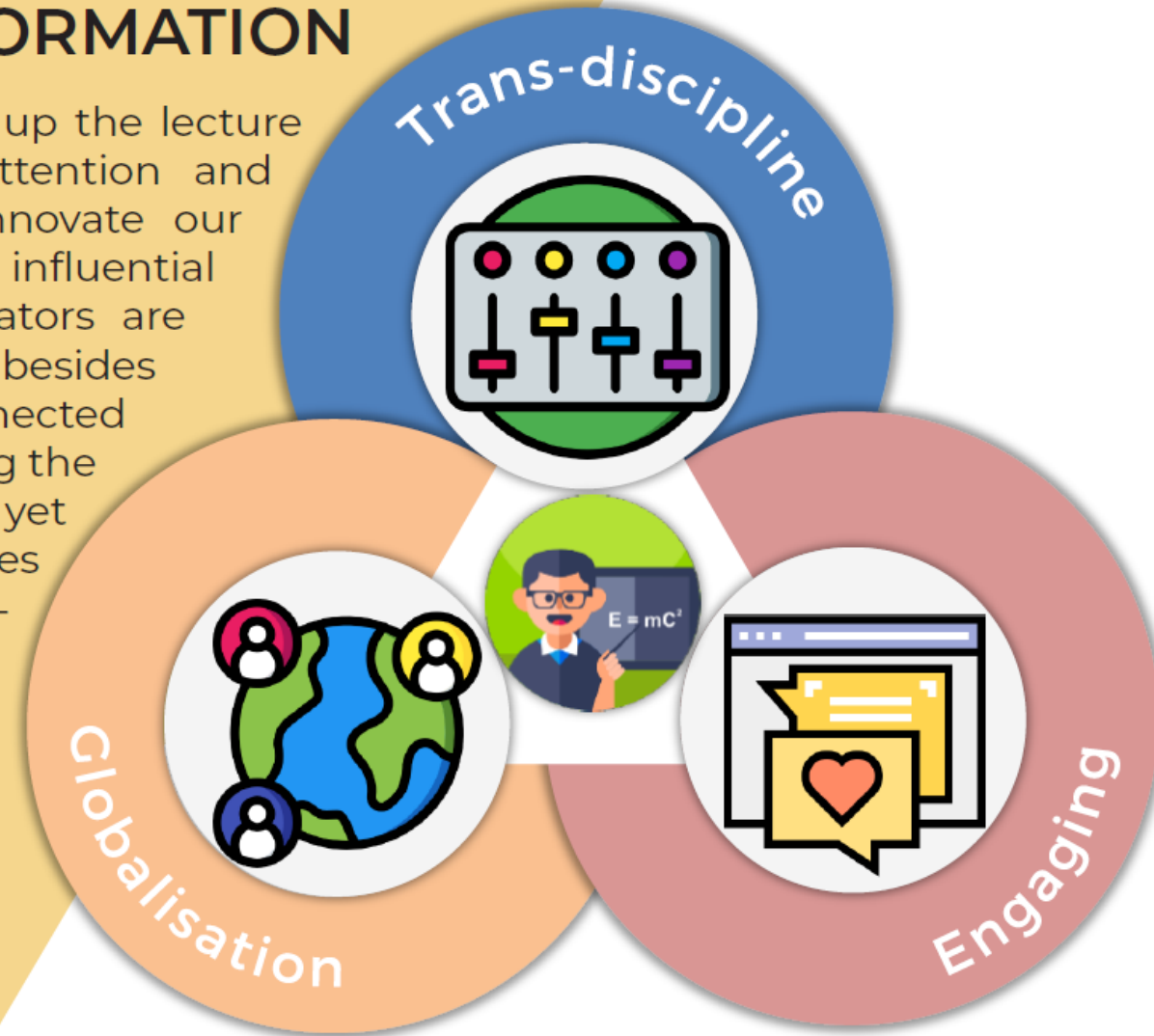


https://cade.upm.edu.my/transformatasi_akademik_upm/pride_penyampaian_putra_innocreative-12077



Principles of DELIVERY TRANSFORMATION

The millennials who are filling up the lecture benches demand different attention and require us to continuously innovate our teaching. Essentials to be influential lecturer to them mean educators are critically and digitally proficient besides communicative, creative, connected and compassionate in designing the course and program delivery yet ensuring the learning outcomes are met and they possess future-proof attributes.





<https://cade.upm.edu.my/transfor-masi-akademik-upm/pride-penya-mpaian-putra-innocreative-12077>



10 Initiatives in InnoCreative Teaching and Learning Delivery Transformation Suggestions and Recommendations

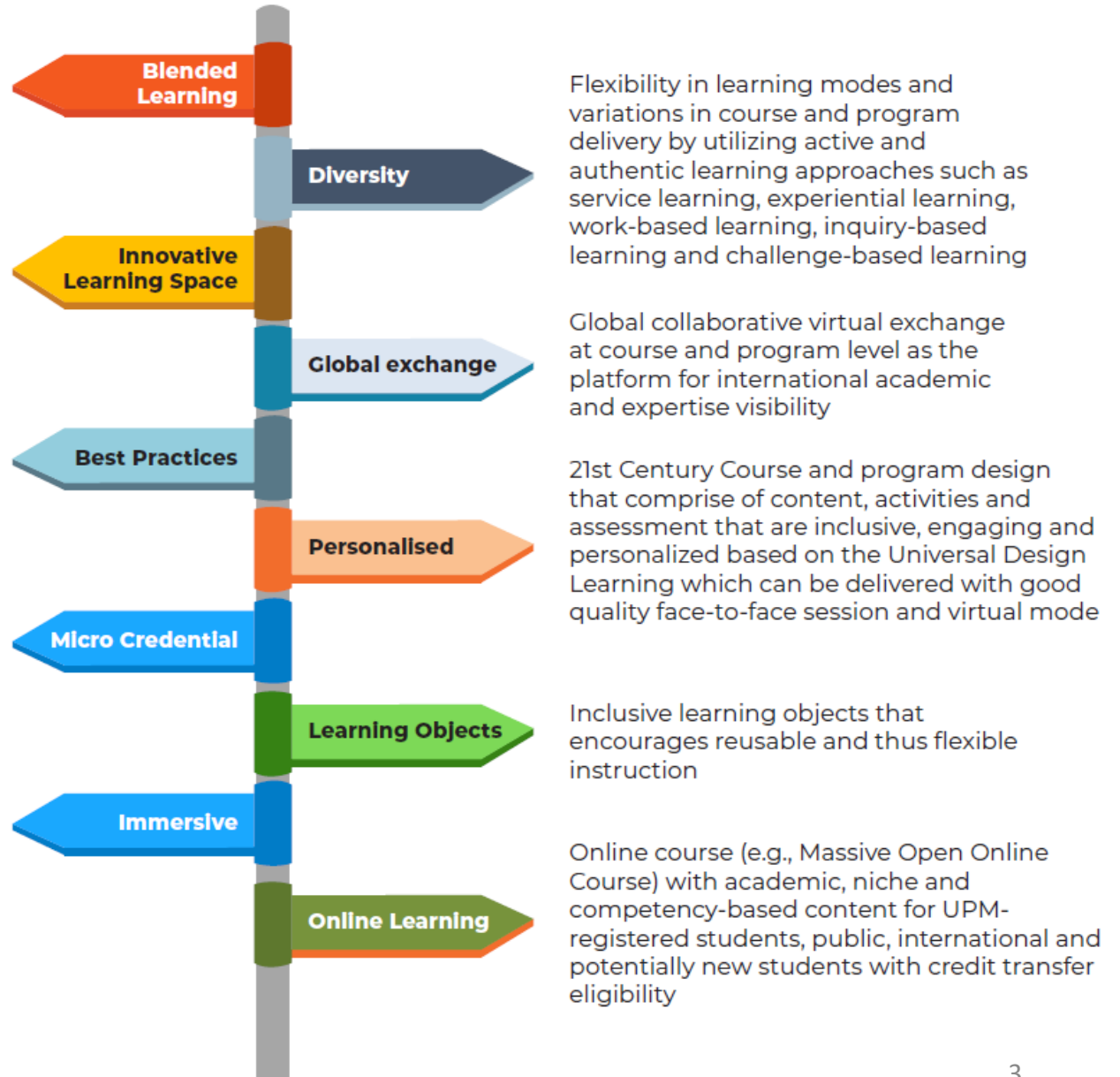
Blended learning pedagogy model as a staple pedagogy, and supporting virtual lessons

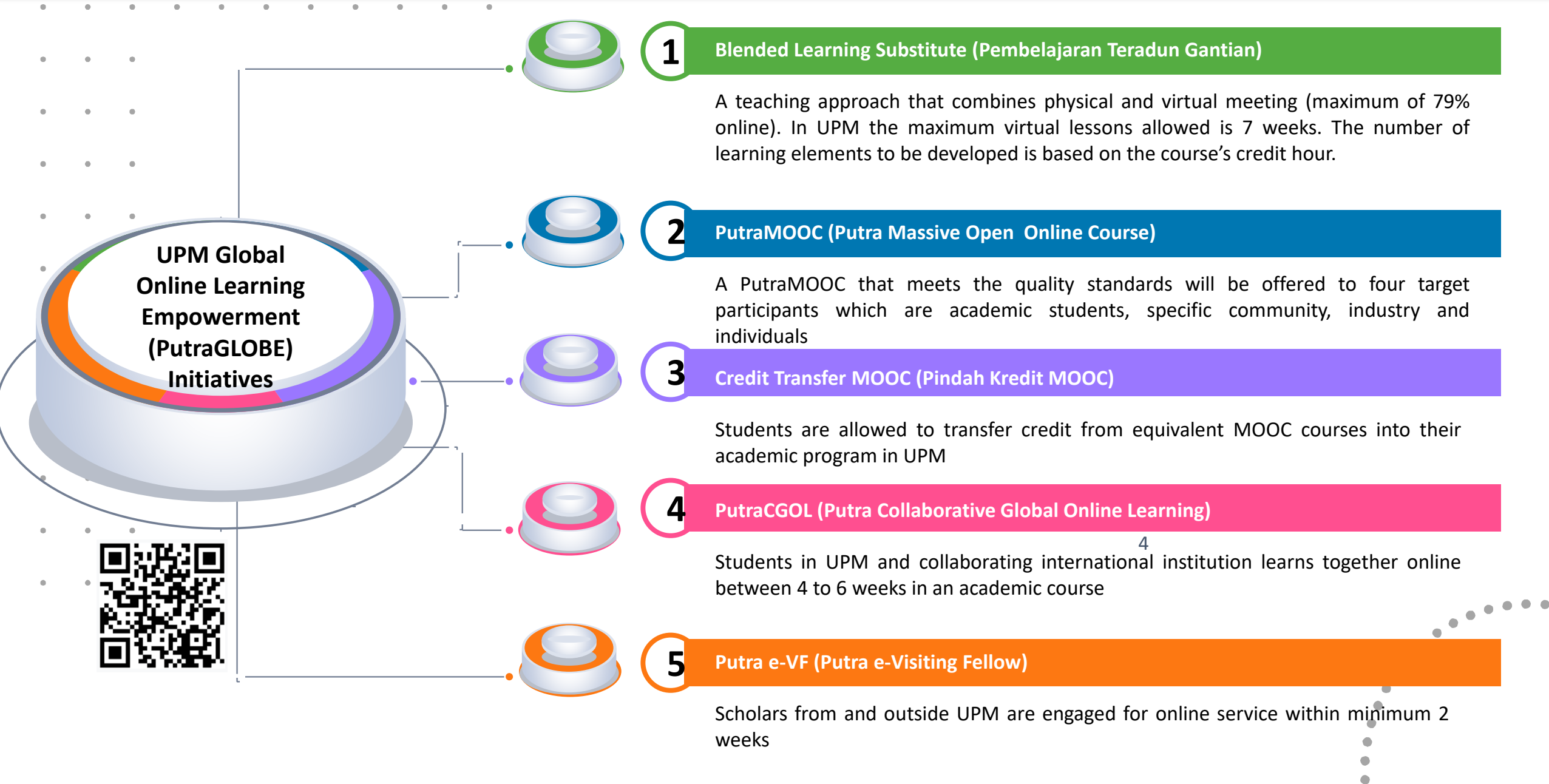
Innovative and flexible use of spaces, furniture and technology with greater collaboration and flexibility in relation to teaching and the curriculum

Celebrating InnoCreative teaching and learning inventions and best practices (e.g., using High Educational Practices in the Curriculum (HIEPS), mobile applications, gamification and artificial intelligence)

Micro-credential programs to showcase a learned or mastered skill

Learning environment that is interest-driven and students learn how to balance between virtual and real worlds, and acknowledges the potential of both methods in helping them develop appropriate skills in the digital era





PUTRA COLLABORATIVE GLOBAL ONLINE LEARNING (PutraCGOL) Introduction

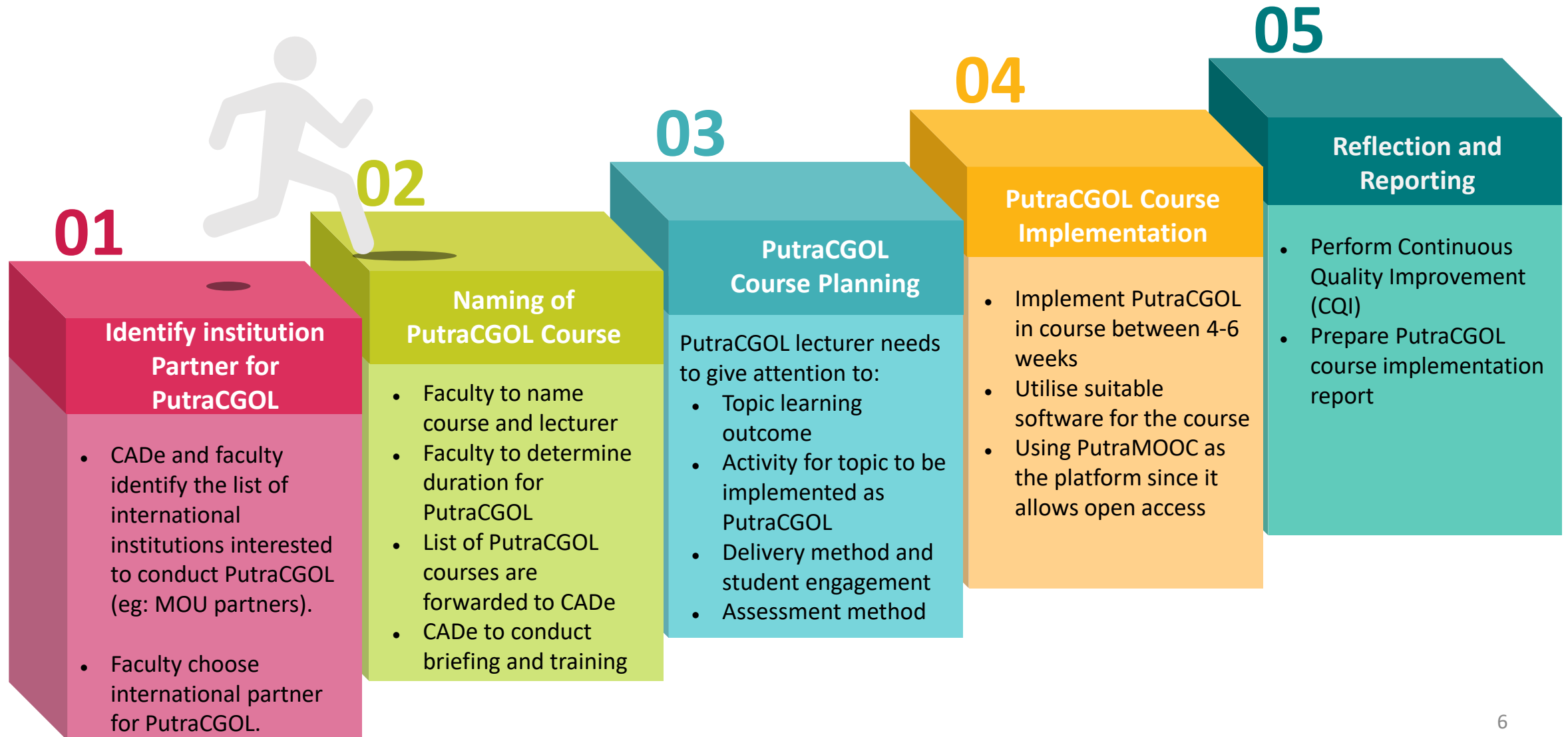


Putra Collaborative Global Online Learning (PutraCGOL) is an initiative to increase UPM excellence by exposing students to learning experience through cultural diversity and global exchange. It is also aimed to improve the course delivery quality and UPM's visibility globally in the niche and expertise areas.

PutraCGOL can be executed as an activity with MoU partners dan online mobility, where students from international institution learn together within 4 to 6 weeks. UPM lecturers dan international partners together deliver the course and complete learning outcomes.



Steps for PutraCGOL Implementation



Example for PutraCGOL Implementation

Steps 1-3 of PutraCGOL

Naming of PutraCGOL Course

Lecturer Appointment by Faculty

Course from Institution A: Data Mining (Bachelor of Computer Science)

Topics: (i) Data Mining Tasks, (ii) Data Pre Processing, (iii) Classification and Regression

Course from Institution B: Interior Design (Bachelor of Architecture)

Duration: 6 minggu

Identify institution Partner for PutraCGOL

Institution A: UPM

Institution B: University of Ohio, USA

01

02

03

04

05

PutraCGOL Course Planning

Topic Learning Outcome:

- Identify problems requiring data mining solutions (C3).
- Demonstrate steps for data pre-processing (P3).
- Identify techniques in classification and regression (C3).

Activity:

Group discussion about application of data mining for interior design business.

Task:

Data Mining students develop data mining application to assist Interior Design Business students to propose design that has potential big return.



Example for PutraCGOL Implementation

PutraCGOL Implementation

Steps 1-3 of PutraCGOL

First Week

- Ice-breaking between both courses students Students are given briefing about PutraCGOL.
- Lecturers in Course A and B deliver learning topics using online forum.
- Students use online forum to discuss about relevant topics.
- Students are given tasks according to the topic. Students develop groups across courses.

Second Week

- Students collaborate to complete assigned tasks and present work progress.
- Institution A students (Data Mining) introduce data mining and artificial intelligence technologies in business while students from Institution B (Interior Design) introduce interior design consultation methods according to a diverse of clients.
- Students collaborately discuss about the consultation aspects relating to business decision making.

Third Week

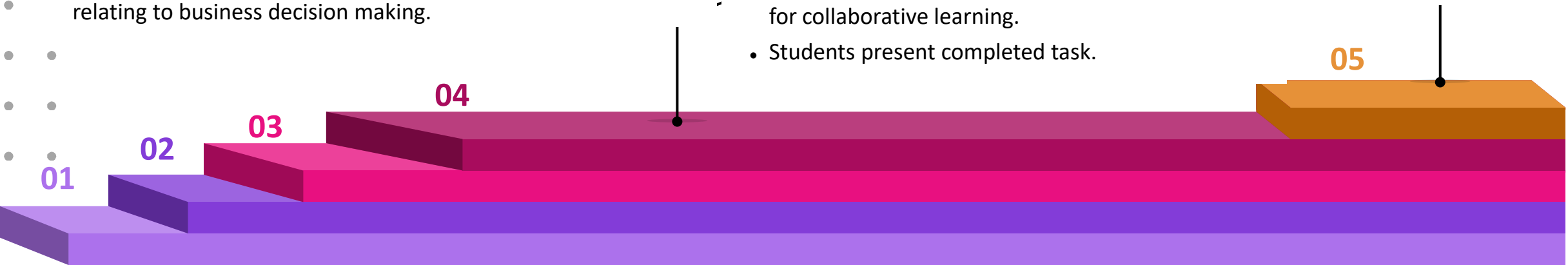
- Students collaborate to complete assigned tasks and present task progress status.
- Learning activity apply gamification and students continue with activities to complete group task.

Week 4 to 6

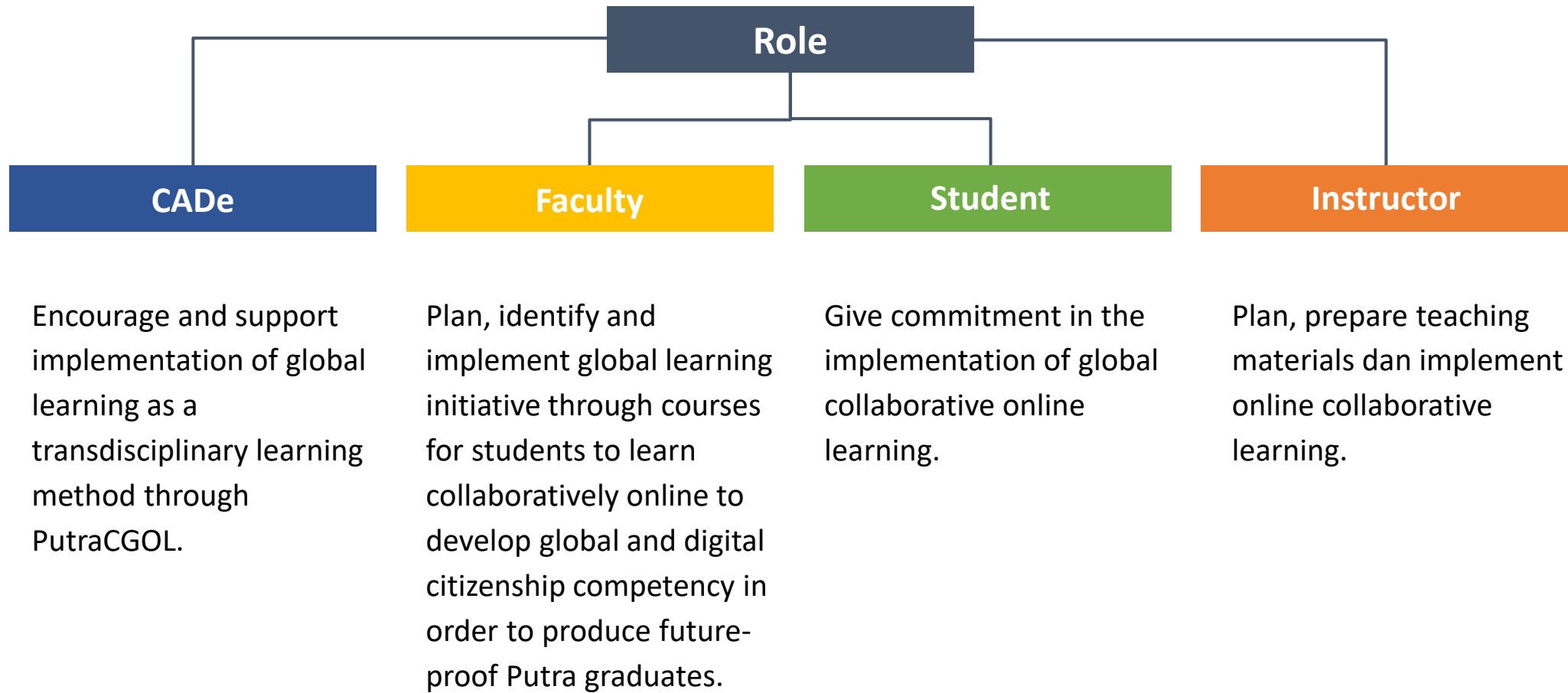
- Delivery of learning topics and activity conducted for collaborative learning.
- Students present completed task.

Reflection and Reporting

Instructor applied reflection technique to improvise the course and prepare report.



PutraCGOL Implementer Roles





Introduction to
Collaborative Online
International Learning

On 21st-24th October 2019 I represented UPM at the Collaborative Online International Learning (COIL) Symposium organized by Ohio University, United States





2019 International Virtual Exchange Conference 25-26 October Tacoma, Washington

- Partnership with Ohio University (OU) in:
 - Data Mining (from Faculty of Computer Science and Information Technology, UPM) with Interior Architecture (from OU)
 - Molecular Toxicology (from Faculty of Medicine and Health Sciences) with Nutrition (from OU)
- 2 Delegates from UPM attended COIL Symposium at Athens Campus, Ohio University, Ohio and IVEC2019 at Seattle, Washington

INTRODUCTION TO COIL

Globally networked learning and virtual exchange

A teaching and learning paradigm that promotes the development of intercultural competence across shared multicultural learning environments

Through Internet-based tools and innovative online pedagogies

Meaningful exchanges between university-level teachers and students with peers in geographically distant locations and from different linguacultural backgrounds





BENEFIT FOR STUDENTS

- Specifically designed to link students who have different cultural and geophysical perspectives and experiences.
- Engages students in learning course content both through their own unique cultural lens and also by exchanging their cultural and experiential lenses as they move through the learning material together.
- Students reflect with each other, partnering instructors will be facilitating a cross-cultural dialogue that brings a global dimension to course content.



COIL Plan between UPM (Data Mining course by Dr. Fadhlina) and OU (Interior Architecture by Dr. Daniel)

1. UPM and OU faculty design the implementation
2. OU students develop online survey on factors determining house design preferences, being assessed on their part in creating the survey and supporting data collection
3. OU faculty share, brief the survey and indicate expectations and wishlist for data analytics
4. UPM students create teams to conduct assignment based on the shared survey. Submission of assignment comprises proposal, dashboard file and presentation video
 1. proposal that indicates the objectives and purpose for data mining based on the survey, identify stakeholders and relevant data analytics tasks
 2. dashboard to present solution based on the data analytics
 3. presentation video to pitch the solution, demonstration of the dashboard, and discovered insights
5. OU faculty and students coach and respond to the questions/proposals put forth by UPM team
6. Reflections by UPM and OU faculty and students
7. Interaction and collaboration to be fully online





Navigation: Data Science series | Home | Learning Data Mining | **Data Mining @UPM2020-Sem1** | Data Mining @UPM2019 | Data Mining @UPM2018 | Contact

padlet

NURFADHLINA BINTI MOHD SHAREF /FSKTM + 48 • 1mo

Data Mining Sem 1-20202021

Made with fortitude

Lauren Tullos 5mo

Hey :D

Hi everyone (sorry I'm late lol) ! My name is Lauren Tullos, and I'm a sophomore at Ohio University. I'm apart of the school of Fine Arts Interior Design + Architecture program and I'm so excited to work with you all ! I'm a big fan of traveling, hiking, and love hanging out with my friends :) One of my favorite places that I've travelled so far has got to be Hawaii, the good vibes and amazing weather is unmatched and I'm looking forward to going again this summer (if Corona permits) ! I can't

Anonymous 5mo

Hi! :)

Hello everyone, my name is Spencer Caputo. I am a student at Ohio University. I study Interior Architecture. I have yet to travel outside of the United States, but I would love to travel many different places all around the world. If I had to choose, I would probably go choose Rome, Italy because my ancestors are Italian and I love Italian food. It was great to read where everyone has either traveled to or wants to travel to in the future. I look forward to collaborating, hope you all stay healthy

Anonymous 5mo

Hey Everyone

My name is Ben Brunswick, and I am a student at Ohio University. My major is Interior Architecture. This major allows me to use pursue my passion to create and think outside of the box. Another passion of mine is being outside, and spending time with my friends. Ohio University has many awesome hiking trails and paths which allows me and my friends to hangout outside! Another huge passion of mine is traveling. I enjoy meeting new people and seeing the different sights around the world. It

sj322715 5mo

Hi Everyone

I'm Sylas Johnson and a student at Ohio University where I study interior architecture. I love houseplants and caring for them, so my favorite place to visit, is botanical gardens, conservatories and any plant store where I can get new plants. I have a cat, who I adore on top of my plants. I look forward to learning about data mining and getting to know each one of you!

carmen ng 5mo

Sharing about DDA

After few weeks of time approach and discover about data mining, I found that I excited using power BI to make a nice visualization dashboard, work with numbers and make creative work. Before that i dont know where the source of data they get from and how to make analysis, but now i know it. The thing i want to know more about is how machine learning utilize the data.

It was the largest class i had in my experience teaching course but I was blessed for the commitment and dedication by the students. Many engaging online learning activities took place, but the best recipe is the continuous peer learning by the students.

Not available (hidden) unless any of:

You belong to **COIL-UPM-OU**

You belong to **UPMDM202021-1**

Hello everyone!

As you have been briefed previously, among the activities to be conducted in this course is a program called Collaborative Online International Learning where UPM and Ohio University, United States partner to implement global learning approach. Pls view the following video to understand further. Then, check out the forum to listen to the briefing and interact with our OU counterparts.



 Forum - Lets interact with OU team!



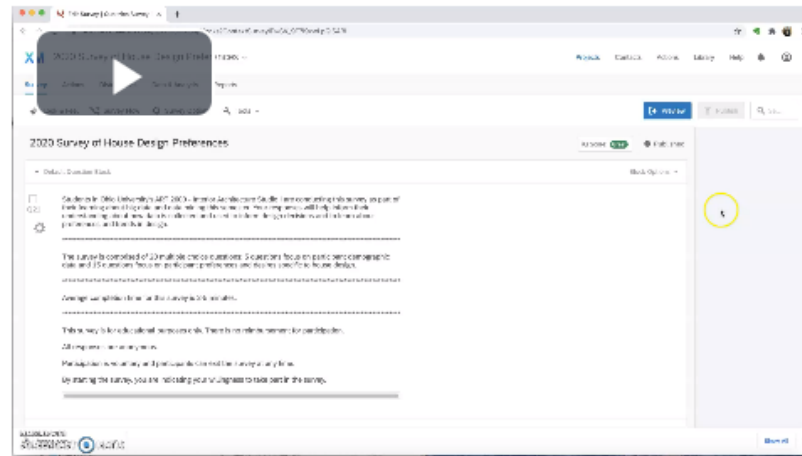
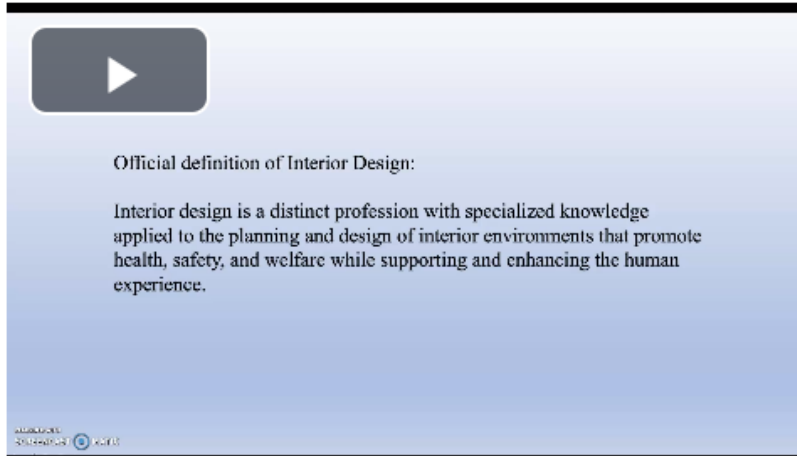
 Forum-learning reflection



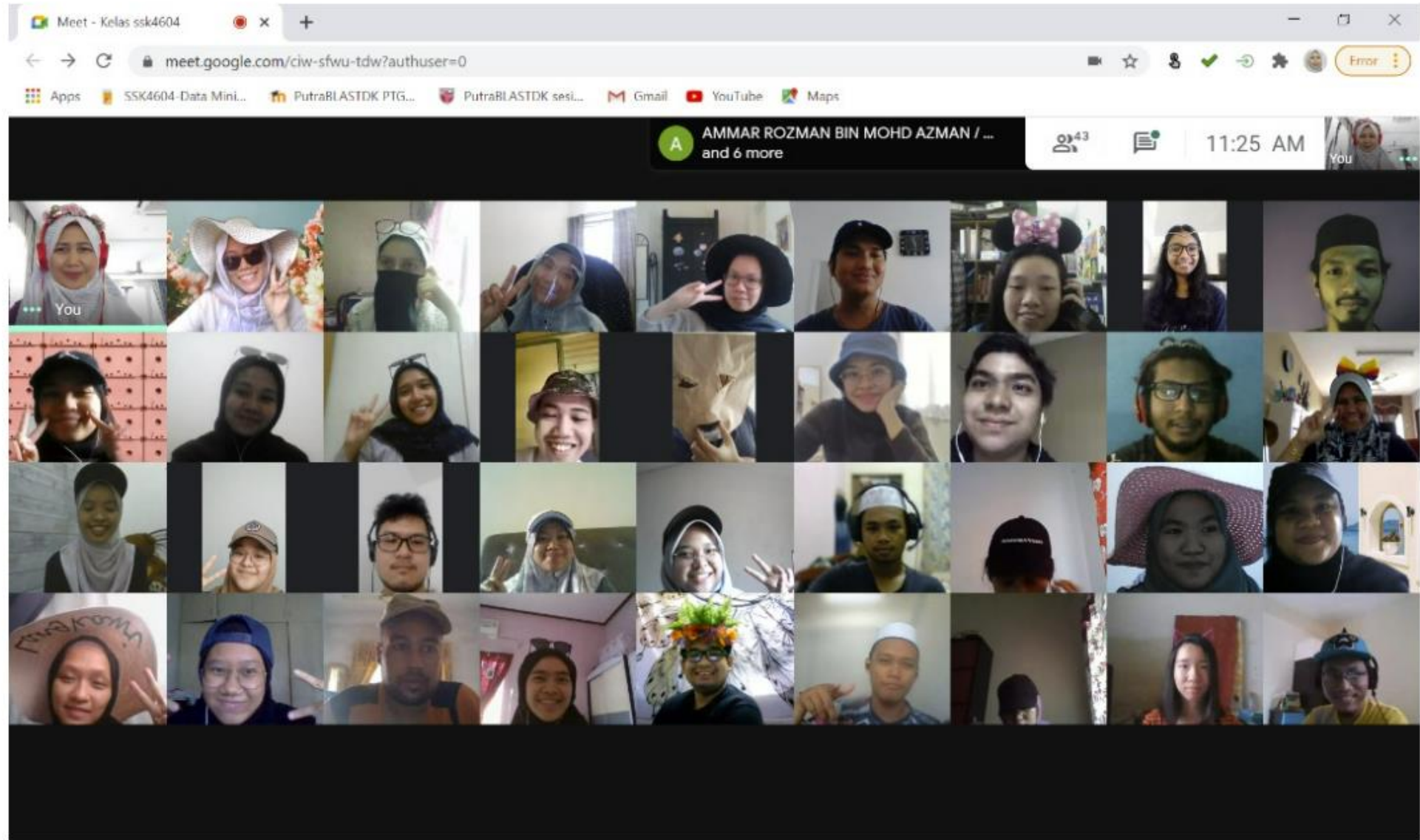
Forum - Lets interact with OU team!

Hi everyone!

In the briefing video, you have been informed about the survey and the assignment. Dr Daniel Harper has prepared two videos, (i) to introduce about Design and (ii) as a briefing and expectation on the survey.



Welcoming OU team! Cheers to a fruitful COIL experience ahead 🙌



UPM students, please form your team and list the members. Pls also provide some general info on your plan of data analytics and what data mining task is suitable for the provided dataset. The submission deadline is 30th November 2020.

Lets use this forum to discuss with Dr Daniel Harper and students from OU. Feel free to voice any concerns and lets interact!



Data Mining-Interior Architecture COIL Plan

by [Nurfadhlina Mohd Sharef](#) - Tuesday, 10 November 2020, 2:10 AM

The collaboration plan is as follows:

1. UPM and OU faculty design the implementation
2. OU students develop online survey on factors determining house design preferences, being assessed on their part in creating the survey and supporting data collection
3. OU faculty share, brief the survey and indicate expectations and wishlist for data analytics
4. UPM students create teams to conduct assignment based on the shared survey. Submission of assignment comprises proposal, dashboard file and presentation video
 1. proposal that indicates the objectives and purpose for data mining based on the survey, identify stakeholders and relevant data analytics tasks
 2. dashboard to present solution based on the data analytics
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5. OU faculty and students coach and respond to the questions/proposals put forth by UPM team
6. Reflections by UPM and OU faculty and students
7. Interaction and collaboration to be fully online

Feel free to ask any questions/concern here. Pls also provide information on your group members and your initial data analytics plan.

 [2020 Survey of House Design Preferences_October 31, 2020_09.04.xlsx](#)

[Permalink](#) | [Edit](#) | [Delete](#) | [Reply](#)



Re: Data Mining-Interior Architecture COIL Plan

by [Daniel Harper](#) - Tuesday, 10 November 2020, 7:54 AM

We are excited to be partnering with you and look forward to working together!

As Dr. Fadh suggested, please feel free to ask questions and I'll be monitoring and responding to questions as well and offering suggestions.

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Forum-learning reflection

Display replies in nested form ▾

Forum-learning reflection

Thursday, 19 November 2020, 12:48 AM

Pls use this forum to identify the Facts-Ideas-Learning issues-action plan (FILA) of Assignment 1.

In the Assignment 1, you and team are required to play the role as data scientist and analysts to propose a solution to identify the house design preferences according to a survey collected by interior design course participants at Ohio University. The dataset contains many variables, which may relate to their house design preferences. Your task is to analyze the data, and present a dashboard that may fit to your stakeholders' needs. A video has been provided by Dr. Harper which comprises his expectations. You may identify further requirements by the Ohio University's students in your interaction with them through the forum. Reply this forum by uploading a FILA developed either using slide and saved as jpeg, or based on your hand sketches. Each student is required to reply to at least 1 other person to suggest for solutions to solve the learning issues. You may also give any related comments. Pls complete this by 19th Nov 2020, 12PM.

Facts	Ideas	Learning issues	Action plan
List the facts in the problem.	List as many ideas as you can generate to manage the problem.	List the topics that you need to learn in order to manage the problem.	List a plan to show how, what and where you intend to seek new information.

Fact

- Various age, status and gender will have different preferences of house design.
- Data analytic can be used to help finding the best preference for various group of people.

Ideas

- Clustered bar chart can be use to identifying what is preference dine space that suits for each status.
- 100% stacked column chart can be used to analyze either pet will affect for the owner to choose floor material or not.

Learning Issues

- We clean the dataset by using filter at provided by Excel.
- We separated the data that have multiple choice.

Action Plan

- We distribute tasks to each other. But still discuss it in Zoom so that we each know what is going on in each task and this will help us understand more and maybe come up with better ideas and solutions.
- We are using Power BI for the visualization. And will be using Rapid Miner.

Facts-Ideas-Learning issues-action plan (FILA) *assignment 1*

FACTS	IDEAS	LEARNING ISSUES	ACTION PLAN
There are variety selection of house style	Select attributes that might affects by age and gender	There many missing data, blanks and outliers that requires data cleaning.	Needs to observe and plans the suitable visualization (use PowerBi)
Data exploration will uncover the patterns of selection	Use pie chart to show the shows the selection rate for selected attributes.	The questions needs to carefully develop so that it reflects the objectives and purpose of the survey.	Produce suitable insight and analysis that satisfy purpose of survey and the stakeholder.
The most preferred house design can be identified from the result	Graph or bar chart can be used to show the relation of 2 different attributes.		



Exploratory Data Analysis Plan for Housing Design Preferences

by [Nurfadhlina Mohd Sharef](#) - Tuesday, 17 November 2020, 2:57 PM

Hi all!

Lets use this forum to discuss about your plan for exploratory data analysis assignment (Assignment 1). Prepare and upload a max 2 minutes video to pitch (post in the forum before 17th Nov 2020, 11.59PM). The video should contain information on your group intro, data analytics objectives and proposed analytics and planned insights (mention your tools, provide some initial drafts). In the forum post, pls provide the name of your group members and the questions that you plan to address.

It would be appreciative if OU team could respond to the videos so we could then discuss on assigning UPM team to OU's.

The following is the plan for our COIL:

16-20nov: ideas pitching and group forming

23-27nov: develop solution and complete assignment

23nov-4dec: presentation

13 dec: submit assignment 1

Looking forward to your kind cooperation.


















Thank you and see you around!

[Permalink](#) | [Edit](#) | [Delete](#) | [Reply](#)

UPM students, please form your team and list the members. Pls also provide some general info on your plan of data analytics and what data mining task is suitable for the provided dataset. The submission deadline is 30th November 2020.

Lets use this forum to discuss with Dr Daniel Harper and students from OU. Feel free to voice any concerns and lets interact!

Add a new discussion topic

Discussion	Started by	Replies	Unread ✓	Last post
Hi Everyone!	 Nur Ismah Syakirah Ishafari	3	0	Nurfadhlina Mohd Sharef Tue, 17 Nov 2020, 8:58 PM 
Hello everyone!	 Jaffrina Umaira Jafni	5	0	Nurfadhlina Mohd Sharef Tue, 17 Nov 2020, 10:21 PM 
Our Group Introduction	 Izzuddin Muhammad	4	0	Nurfadhlina Mohd Sharef Tue, 17 Nov 2020, 10:16 PM 
Pitching Video From Makciks Group	 Noor Azura Abdul Aziz	1	0	Nurfadhlina Mohd Sharef Wed, 16 Dec 2020, 12:01 AM 
Our Introduction Video	 Noor Azura Abdul Aziz	3	0	Nurfadhlina Mohd Sharef Tue, 17 Nov 2020, 5:22 PM 
Pikior IT Team Pitching	 Muhammad Syahmi Khairol Anuar	3	0	Muhammad Ikhwan Roslan Tue, 17 Nov 2020, 10:55 PM •
Introducing the "Cool" Group	 Jun Yi Khor	5	0	Jun Yi Khor Tue, 17 Nov 2020, 10:39 PM •
Introduction from us :)	 Nik Najwani	4	0	Gibson Laing Tue, 17 Nov 2020, 9:42 PM •
Introduction to Our Team	 Niventhiraan Rajaratnam	6	0	Dinesh Vijayan Tue, 17 Nov 2020, 10:44 PM •
Nice to meet you	 Carmen Ng	5	0	Carmen Ng Tue, 17 Nov 2020, 9:30 PM 
Introduction Irfan's Group	 Syahmi Hanafiah	3	0	Daniel Harper Tue, 17 Nov 2020, 10:31 PM •

Hey guys, nice to meet you all !

we are really pleasure that Dr Fadh willing to let us experience working through our classes with an international exposure !
So here it is, the idea pitching on what our team has to offer for your data sets.

The questions proposed are :

1. Does relationship status, current living situation, and number of pets determine housing type ?
2. How does age and gender affect the preference for housing type
3. Does no. of bedroom, bathroom and accessory space affect the preference for house type?
4. What does the primary considerations have to do with interior planning preference
5. With this, how does this affect every single preference in terms of color, flooring, dine in.
6. What is percentage of people who prefer a certain type of house based on their choice of accessory spaces.
7. Can gender help us predict their preference in wall coverings and color?
8. Can age help us predict their preference in types of light source and acoustics?

Kindly let us know if you would have any questions that you want to add on or for us to amend :)

Video link : <https://youtu.be/UuSViV2n-BE>



p/s : Apologize we went abit overboard, it was supposed to be a 2 minutes video, we had fun talking and explaining hahahaha



Re: Introducing the "Cool" Group

by [Daniel Harper](#) - Thursday, 19 November 2020, 10:13 AM

Hello Qunoot, Jason, and Jun Yi! (the "cool" group)

Thanks for sharing your proposal with us. I think you are right on track and you did an especially nice job of thinking about who the potential stakeholders might be! Indeed, many different groups of people will have an interest in this data, not just us as interior designers.

I also think it's great that you are thinking about trends. I would really like to conduct the survey again next year, the year after, and so on to begin to understand trends and specifically how someone's preference might change as they age. That's a bigger project, right?

You have pointed out through your questions that we assume things like age, gender, marital status, pet ownership, having children or not, might all affect our preferences, the big reveal will be to what extent and how. Good questions!

You are right on track with understand and direction!

Best of luck to your as you move forward,

Dr. Harper

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Re: Introducing the "Cool" Group

by [Jun Yi Khor](#) - Saturday, 21 November 2020, 12:48 PM

Nice to meet you Dr Harper !

Thank you for the feedback ! My team really appreciates it that you took the time to go through what we pitched.

We are looking forward to discover interesting insights from the questions too!

[Permalink](#) | [Show parent](#) | [Edit](#) | [Split](#) | [Delete](#) | [Reply](#)

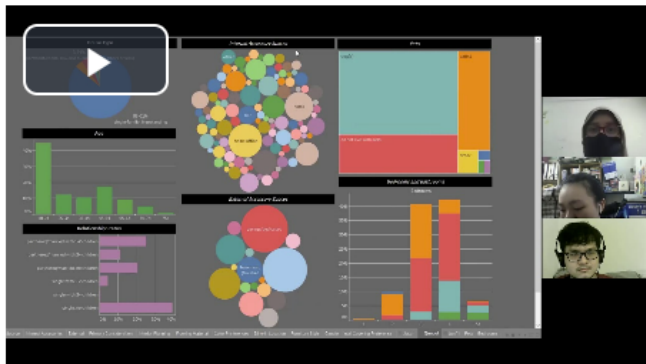


Re: Introducing the "Cool" Group

by [Ben Brunswick](#) - Tuesday, 24 November 2020, 3:57 AM

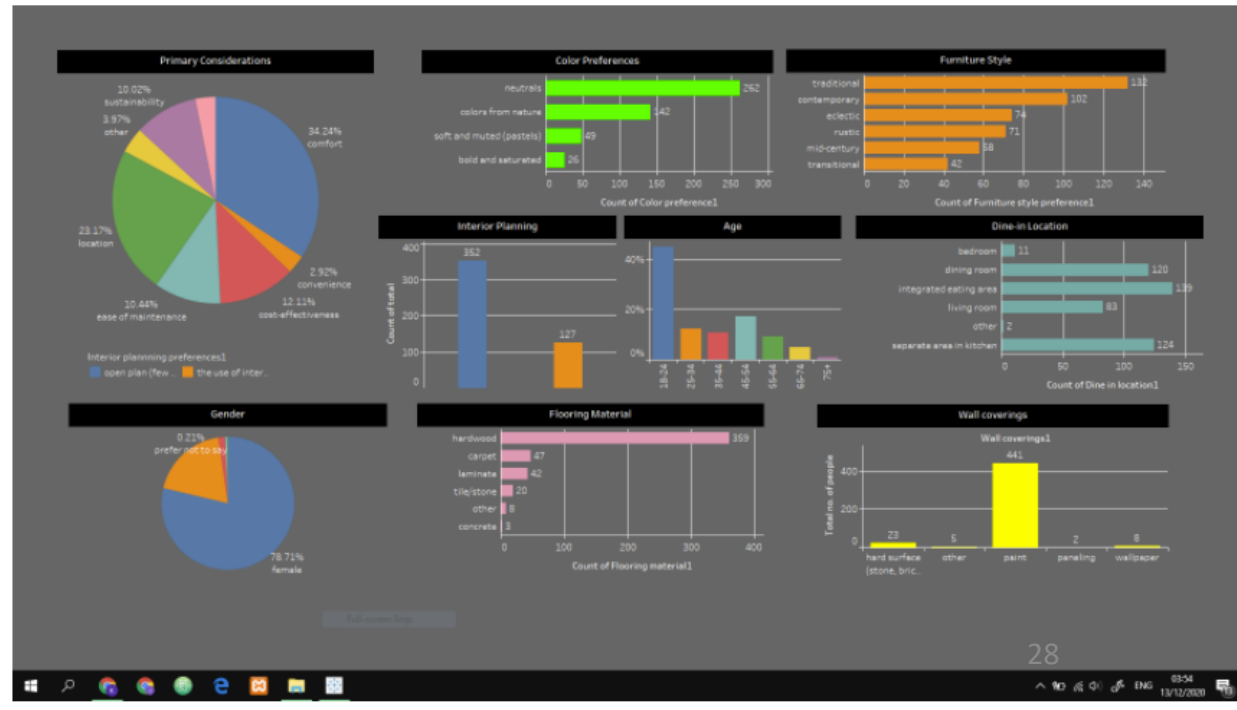
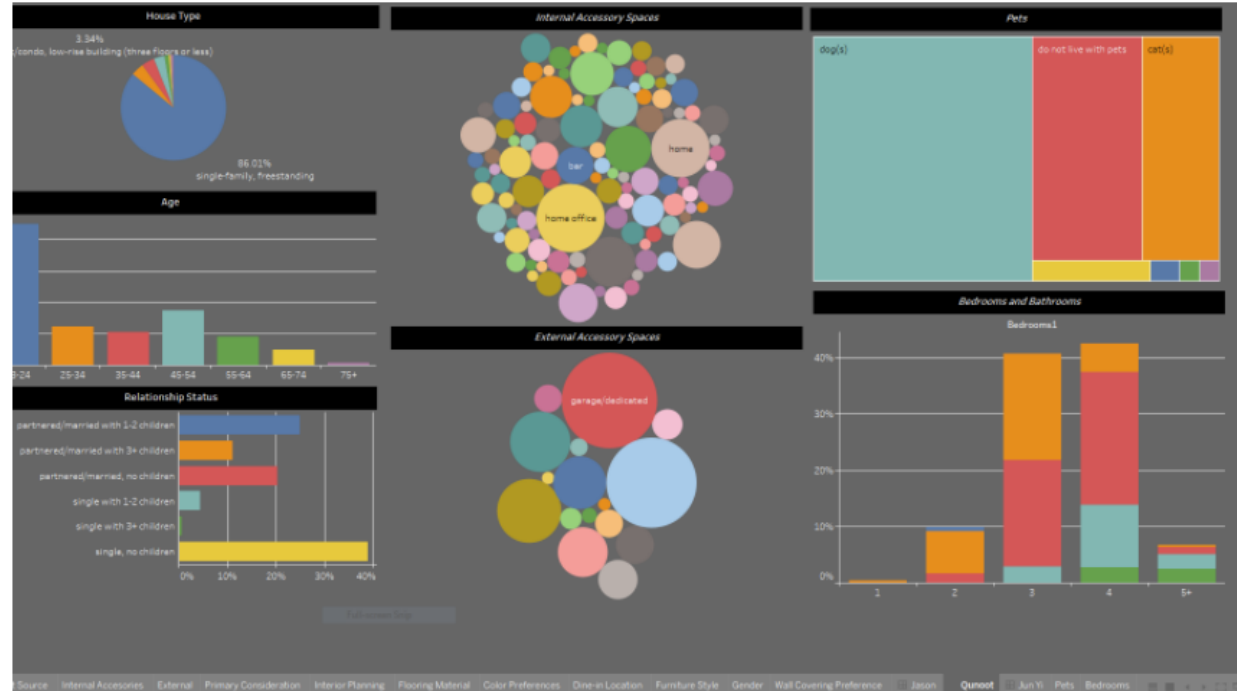
It is nice to meet all of you in the "Cool Group", and I love the name! If any of you did not see my introduction my name is Benjamin Brunswick and I am a sophomore in the Interior Architecture Program at Ohio University. I think that you all put a lot of time and consideration into coming up with your questions. All of your questions are very well thought out and they all have answers that are

You may take a tour with the video link here : <https://youtu.be/A0oFJTxHI5I>



p/s: Sorry again our video took an extra 2 mins, I did my best to cut it superrrr short.

Attached below are the images on the dashboard :



9

How does the connection with the COIL partner influence you to understand a **transdisciplinary area** brought by the partner?

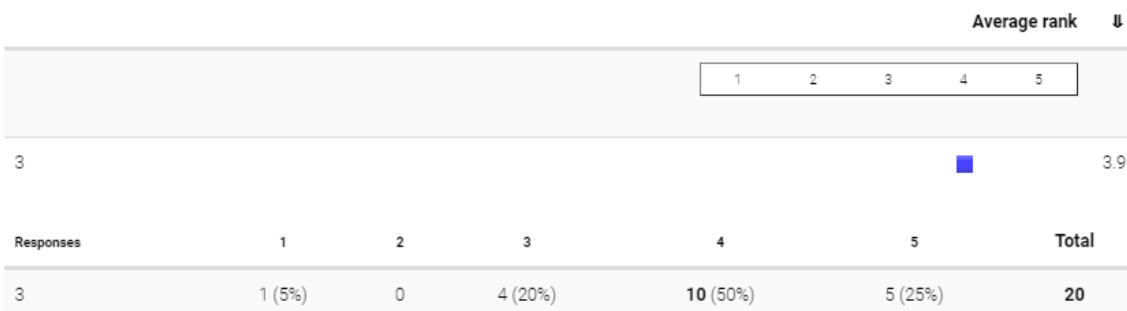
[1: Very Low, 5: Very High]



10

How does the connection with the COIL partner **influence your team's motivation to complete Assignment1 and share the outcome** with the COIL partner?

[1: Very Low, 5: Very High]



11

Please write a reflection on your experience participating in the COIL program. Discuss how it has impacted you and suggest how it can be further improved.

Respondent	Response
	Before this I only learn the theory, but in this activity we used what we learn to come out with some idea, some insights and prediction model and also the interesting dashboard.
	I was expecting that we will work in groups with OU students but the time difference was big issue. however, it was great experience and motivation to perform well.
	I was able to know their far different point of views from us. I was hoping we could meet and learn together in class that enable us to share and exchange a lot of ideas.

The coil program gives me a real-life work situation that gives me experience in exploring real datasets in daily life.

This current pandemic situation make us cannot enjoy this program. But, this program still can done virtually and I enjoy it!

It's good but I think we need more integration

I think it was fun to participate in the COIL program because we did not only learn about data analytics, but we also learned something about design which are not related to our studies. I noticed all of us work harder to complete the assignment and most of us tried our best to show the best performance to Ohio students. Seems like everyone feels responsible to show a good outcome for UPM's name. I would love if the program would involve both parties via zoom or google meet so it will be easier to change ideas and opinions. however, due to the time zone, it was harder than expected.

It is best to interact each other in different countries. I love it!! But it seems ended prematurely, i hope more of this will come.

I wish there could be more interaction with the students of Ohio University. I know due to the time difference it is quite difficult but I believe with technology we could make it possible for us to connect better.

it was a new experience for me for both assignment and also the collaboration. it was quite hard at first to do the task but with help of my team members and Dr, i could understand the task even more. i hope one day could experience physical class so that we could interact directly easier.

It's very interesting in the beginning as we informed that we are going to collaborates with students from Ohio University, however due to some constraints we unable to communicate well with them. It caused us a bit sad because we are very excited to communicate with students from other countries. On the other hand, we very happy and enthusiast in the whole process of completing our assignment. It's very interesting and a very good task to be completed.

It is interesting to get know new friends from other university, hope that it still have these program in future

It was new experience, but prefer to communicate more with the students abroad to understand more better.

It was a new and good experience as we can interact and make use of their findings and dataset as well as helping them to visualize the data. The program make me want to do my best as the result is not only my course mate can view but also them. I hope that we can interact more in thorough as we have some question on the spot to ask. Anyway, everything is good and well done.

better communication

This is a very valuable experience, as we are able to analyze the data of other countries. Due to different time zones, we can only communicate through forum but it does not affect our interest in exploring data.

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Trainer
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Nurfadhlina Mohd Sharef
Centre for Academic Development (CADe) /
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11.30 am

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Online Learning For All

This event hosted by Centre for Academic Development (CADe), UPM in its webinar series on online learning for all. The event is specially conducted to support our readiness for online learning.