University of Essex

Computing Department - MSc Computer Science programme Research Methods and Professional Practice

Research Proposal

Transcript

Hung-Wei Lin 2022

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Front page

Hello, my name is Hung Wei Lin. I'm the student from the University of Essex. I'm currently studying in the module research method and professional practice. And this is a presentation of my research proposal.

Project Title

Here is the title of my project.

The learning outcome among higher education in relation to pedagogical model for the online courses.

Introduction and background

Introduction and background.

Online education has significantly grown in decade. It has become one of the most popular options for students who intended to pursue a higher education. And here we have some relevant literature to support the fact that online courses have become a trend nowadays.

On the left-hand side, the first chart you'll be able to see, the percentage of the grow of the students in global scale, they are taking one or more online undergraduate classes. The percentage growth from 15.6% to 43.1% from 2004 to 2016 and the information is provided from Snyder (Snyder, Brey, & Dillow, 2018, as cited in Imed, 2022)

And in the United States, there are 8.6 million students enrolled in online education courses through postsecondary institution. And in the information from (Erin, 2022).

On the right-hand side, we also have the chart showing that the individual in the EU that are using the Internet for doing an online course. And the percentage has grown from 5% to 19% from 2013 to 2021. And this information is provided by (Eurostat, n.d.). And you will be able to see from the chart there is significant growth from 2019 to 2021.

All the charts had shown online courses are becoming more and more popular. Therefore, I think it is important to research into this field deeper and provide useful information and insight to optimize the learning outcome of the online courses.

Significance of the study

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From the literature review for this research. students receive both positive and negative learning experience from the online education.

The differences of the learning experience can result from different pedagogical model provided for the online courses and I think it is important to identify the existing pedagogical model and the outcome related to it.

There are several research focusing on the convenience that the online courses benefit the students, but little research focus on the online pedagogy.

By understanding the difference, pedagogies and their corresponding learning experience, the research could provide information to help the teachers or educational institution to enhance their online pedagogical model. I think the research can be done by understanding the relationship between the learning outcome and the pedagogy.

I think that the online education is a valuable approach to extend the possibility to those who want to participate in a higher education, and it is important.

Research Question

And here is my research question. I have 3 research questions.

The first one is, how the different online pedagogical models impact on the learning experience?

The second, how to optimize learning outcome by enhancing the pedagogical models?

Third, how to mitigate negative learning experience by adjusting the pedagogical model?

Aims and Objective

Aim an objective.

The first, to collect the data about the following item.

- Online pedagogical model which are commonly used.
- Learning experience from the students who complete the higher education online.
- Suggestion of potential improvement provided by the student of the online courses.

And the second, to study and categorize the collective learning experience and evaluate the relevant pedagogy. The collected data is also expected to be analyzed compared. The goal is to identify both way relationship between the learning experience and the pedagogical model.

And third, to identify and determine the efficient pedagogical model for online learning. Or evaluate which kind of the pedagogical model will be suitable for certain learning situation.

And finally, to present the research result and provide useful information for the educator and all the finding and conclusion will be shared.

Key literature related to the project

This is the page for the key literature related to the project.

For the first section, this is the factor of the learning experience. One of the learning factor is knowledge transfer, and knowledge transfer is a critical factor to determine the learning quality.

The approach of selecting, accessing, and presenting information have an implication on the learning experience (Entwistle et al., 2002).

And on the right-hand side, we also have the learning experience of the online learning. They can be divided into positive and negative learning experience.

For the positive. We have achievement and satisfaction. The students obtained satisfaction and achievement from the online learning platform by fulfilling the requirement of the learning material (Zembylas et al., 2008).

And regarding the negative experienced, there will be stress and anxiety. Some students experienced anxiety in the process of adapting unfamiliar online Pedagogies (Zembylas et al., 2008)

Methodology & Research Design

And, here's the page of the methodology we use for the research and also the research design.

For the research method, I choose the quantity research. And in the quantity research, descriptive research will be used for the project. The descriptive research will be used to understand the situation of the online education and the learning experienced, and this design will also be used to identify the characteristics of each teaching approach. The research for the study should be done through the secondary research. So, it means there will be no primary research involved in this research. With the collected data, the numerical value is expected to be presented to identify the characteristics of the research object.

And on the right-hand side, we have the research design. I choose the Research design as exploratory research. The exploratory research is selected as my research design to investigate the online learning experience, which is not clearly defined.

And the work will include literature research, online research, and also case study.

Ethical considerations and risk assessment

Ethical considerations and risk assessment.

For the ethical consideration, on the left-hand side we have the table of the ethical consideration.

- First, to ensure the accuracy of the data analyzed.
- Second, to avoid the BR of the data selection.
- Thirrd, to ensure the data is collected illegally.
- And finally, to ensure citation of literature is in is included correctly to avoid plagiarism.

And on the right-hand side, we have the table of risk assessment.

First, to research the existing health and safety risk assessment template.

Second, to study existing risk assessment guideline.

Third, to make a checklist of the risk assessment for the research project

And finally, to complete the risk assessment before starting the research. It means, once the research proposal is approved, the research specific risk assessment should be carried out before the project starts.

Artefact

And here is a list of the artifact. It is expected to have these artifacts at the end of the research which will be included.

- A list of the collected data
- The visualization of the collected data
- The analysis of findings
- and Risk Assessment Report

Timeline of proposed activities

And here we have the timeline of the proposed activities.

At the beginning it was highlighted we have the risk assessment and the background research which will last for 4 weeks.

And later on, we have the extended research together with the data collection. The data collection will last for also 4 weeks, and it will be ended at Week 8.

Start from week 8, we will also start the analyze of the data. And it will last for six weeks and it will also be conducted together with the extended research.

And week 14, both extended research and data analyze will be ended and we will start to summarize the result with the extended research, which will last for four weeks from Week 14 to week 18.

And at the end, from Week 18 to week 20, we have two weeks to for the revision on the research.

Reference

And this is the page of the reference including in this proposal.

End page

And this is the end of my presentation. Again, my name is Hung Wei Ling. And thank you very much for your time.

Reference

Erin, D. (2022) *Number of college students enrolled in distance education courses U.S. 2020, Statista*. Available at: https://www.statista.com/statistics/987887/number-college-students-enrolled-distance-education-courses/#statisticContainer (Accessed: November 23, 2022).

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