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RESEARCH ARTICLE

CASE METHOD AND TEAM BASED LEARNING: APPROACHES IN ARCHITECTURAL EDUCATION ON ERA POST COVID-19 TO SUSTAINING HISTORY OF THE BANDUNG CITY

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Abstract

After pandemic covid-19, there are many more different physical and social condition in communities in the city. There are many new different or specific problems due to pressures from impact of pandemic covid-19 or many adaptations of communities toward after pandemic covid-19 situations. On history of education included in history of architectural education also to be needed many reformations on respond this condition. This research is using qualitative method by research and development approach by analysis several cases on 2 lectures: Housing and Settlement, Entrepreneurship. Research and experimental development which is comprise creative and systematic work undertaken in order to increase the stock of knowledge, including knowledge of history of architecture, humankind, culture and society, and to devise new applications of available knowledge. From this research and analysis can find conclusion that there are many different situations on the field due to after pandemic covid 19, there are also many developments of economical rate but there are still so many conflicts of stakeholders in which have background of social dynamics after hard situation of 3 years of the most difficult situations. From this research the students can learning by case method and team-based method to respond those of situations, as an exercise to handle the same situations after they have graduated from the university.

Keywords: Architecture Education; Bandung; Case Method-Team Based Learning; History.

INTRODUCTION

The sector of architecture is one of field which was getting hard effect in pandemic covid-19, which all of this is has significant impact to the history of human life. The change of first priority of the government as well as community in health sector and in the need of restriction of social mobility were also have effect on the sector of architecture was becoming stagnant, therefore many functions of public building were becoming no more active as usual, many sectors for example: public sector, commercial and recreation were getting decline. This phenomenon is still regarding as the most significant challenge although the unemployment rate has been decline, based on the data of Badan Pusat Statistik (BPS) on February 2023 the sum of unemployment is 7,99 million people, which has been decline 410 thousand people from February 2022. In fact, it is a unique phenomenon in the history of human life as well as history of development of architecture and the city which is therefore necessary to always develop many thought, strategy and concept application becoming relevant with the newest situations in the field to sustaining the history of the city as well as the communities on era post covid-19.

Bandung City is one of the most special city which has special function as educational city as well as the destination of tourism. The nature potential, the character of old historical many colonial buildings or many magnet of tourism destination in art and culture as well as in culinary activity in Bandung are always very attractive for the tourists to coming there. The tourists is not only from Indonesia but also from the other countries, for example from: America, Europe, Around of Asia, Australia, etc.



Picture 9.1 Bandung and around has many more attractive magnet in historical building, nature and also art and culture as well as culinary potential.

However the condition of Bandung City was deteriorated due to nearly 3 years of pandemic covid-19. The government can be develop the city without participation of the citizens. There is many more case in around us which can be as case of studies for analyzing and developing. The history of pandemic covid-19 is actually should be to be as the challenge of us to develop knowledge as well as application of city development to reach the best history of this again in the future.

On the other side, in architecture education in university there is also condition the decreased of student's motivation after pandemic covid-19 which caused by many factors for example the fatigue of students because of adaptation of normal situation after very long pandemic covid-19 or many social and economical challenge in around of their environment after pandemic covid-19. This condition is need many more innovation as well as creativity on architectural education to encourage the spirit of students as well as to connect architectural education with many problems in surroundings becoming to be more relevant and useful. Hardin et.al (2016) stated that sustainability challenges are multifaceted and complex as witnessed even in a cursory review of the dimensions of climate change, toxin loads in ecosystems, competing demands associated with food–water–energy security, ecological restoration, sustainable lifecycles of consumer durables, and long-term socio-ecological transformation. Within the field of sustainability studies, there is much promise in a problem-driven, solution-focused approach that emphasizes experiential learning in the best tradition of case-based teaching.

In fact, nowadays the concept of the development power is not only monopolized by the government, the society not only be the private sectors but also to be active participants with strategies of community participation which organizes the development plan. And the concept is also concept of sharing that is means not only one such as group from government sector but also with the role of young youth, housewives, and others so that all elements of society can become more empowered to improve, maintain physical and non-physical environment (Yosita et.al, 2019). All of these above should be being applied in architecture education world nowadays and should be being introduce to the architecture student's on their daily learning processes. Therefore the paradigm of student's can be more comprehensive as early as possible. In brief, from the description above formulation of the problems is as bellow :

- The condition of decreased motivation of architecture students after pandemic covid-19
- The condition of deterioration in quality of the city, human settlement and social-economy after pandemic covid-19. All of these is the big challenge toward the history of architecture in Bandung City.

- Architectural Education is necessary to getting reformation after pandemic covid-19 as early as possible to be more relevant with the condition of the city as well as motivation of architecture student to reach the goal history of sustainable city of Bandung.

METHOD

Research method of this research is using mix method, qualitative and quantitative by using evaluation approach to know how the planning has been reach the goals. This analysis is also analysis of the application teaching method by using these approach which to be focused on team based and case method learning. By this this evaluation research can be as consideration to develop the quality of the lectures mainly in about of history of architecture in the future. This research is also using approach of research and experimental development which is comprise creative and systematic work undertaken in order to increase the stock of knowledge, including knowledge of humankind, culture and society, and to devise new applications of available knowledge in era modern technology 5.0 artificial intelligent (AI).

RESULT AND DISCUSSION

1. Case Method and Team Based Learning as Integral Approach in Architectural Lecture that Focused on Community Development.

Basically, on the application of concept case method dan team based learning will be more develop aspect of competency besides of knowledge. Besides of that it will be more emerging continuity of respond toward the real problem in the field as long as the change of history and culture human life in around of us. Furthermore on the diagram bellow it also will be more develop adaptation ability as well as leadership on the respond toward the real problems. Besides of that by case method and team based learning is can be develop the competency as well as the performance of the architecture students based in the knowledge, because they will be more introduce the character of the case.

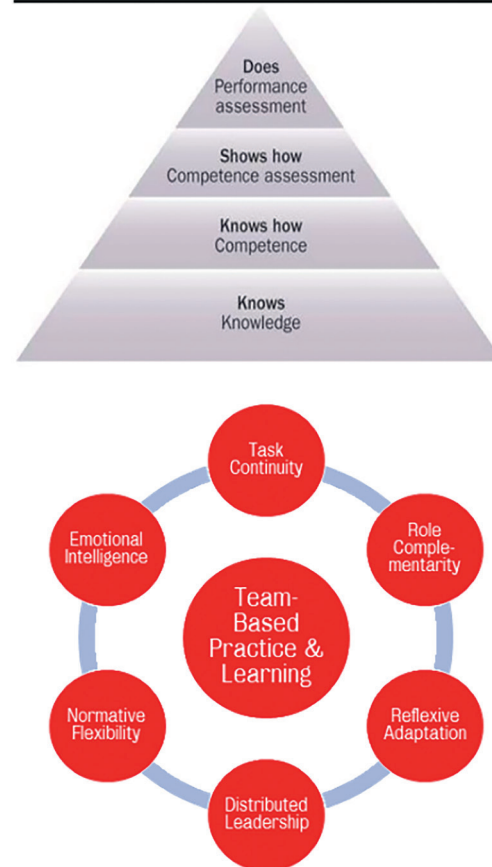
The aim of architectural education is principally to help the students to develop in-depth knowledge of theory and practice in the discipline as well as the breadth of knowledge provided by liberal studies (Anthony, 2002; Glasser, 2000; Back & Sanders, 1998) in Wang (2005). Meanwhile, Lee et. al (2007) in Arasti (2012) stated that the key to a successful entrepreneurship education is to find the most effective way to manage the teachable skills and identify the best match between student needs and teaching techniques. Basically,

educators and professionals attempt to fuse theory and practice (Kaufman et al., 2000; Finn, 2002) in the expectation that students will apply in their practices what they have learned about the larger demands of society.

Basically, entrepreneurship education includes all activities aiming to foster entrepreneurial mindsets, attitudes and skills and covering a range of aspects such as idea generation, start-up, growth and innovation (Fayolle, 2009). On the 2 lectures Housing and Settlement and Entrepreneurship are principally have the similar character in which has the goal to develop human life in their human settlement.

Therefore the skills which should be performed and to be developed on the process are as follows: (1). The ability to introduce the environment by SWOT analysis (2). The ability to study and review many theories and comparison studies which will be useful for their topic of analysis. (3). The ability to mapping the prospect of the environment and human life from the challenge and opportunity of the case study. (4). The ability to finding the best solution of the problem which is based on result of discussion of their team work.

PROCESS IN CASE METHOD



Picture 9.2 Diagram of Process and Cycle of Case Method and Team Base Learning as comprehensive approach.

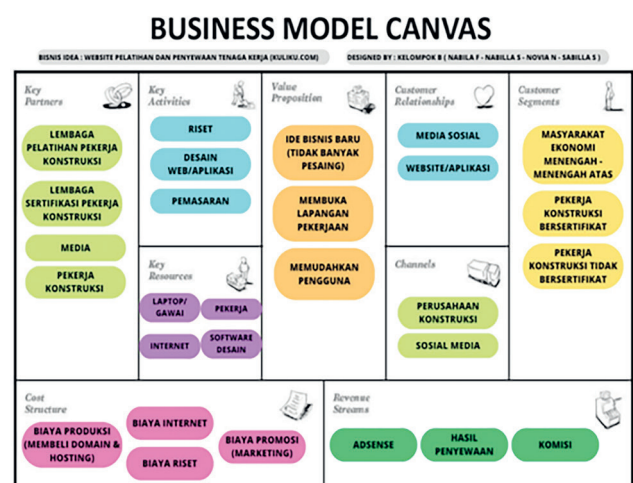
It is necessary to understanding Zahra Arasti statement that: The results indicate that teaching methods of “group project”, “case study”, “individual project”, “development of a new venture creation project”, and “problem-solving” are five most appropriate teaching methods in the course of “business planning”. There are five appropriate teaching methods are respectively “guidance of young entrepreneurs through support missions to help them in their project”, “training in an enterprise”, “problem-solving”, “group project”, and “guest speakers”. In “group project” students can learn better when they divided into groups and listen to others opinions. It enforces criticism thinking, because the students criticize others opinions, although in “individual project” they learn the strategies to deal with ambiguous and complex situation on history of the city as well as architecture as habitat for the people.

2. Application of Case Method and Team Based Learning in Entrepreneurship Lecture and Housing Settlement Lecture

This study is mainly focused on Housing Settlement Lecture and Entrepreneurship Lecture which the researchers have been teaching, because these lectures also have more opportunity to student to survey to the field and discuss in their group about the problem in the community in around of their location and also the real significant condition in context the change of history of Bandung City as the environment for students to analyse their case study. On Entrepreneurship lecture, the students were trained to planing business through 3 stages of assignments, the first stage is introduce about the figure of several entrepreneurs, then in the second assignments was planned about canvas business and as the third assignments was planned about proposal of Students Creativity Programme (Proposal Kreativitas Mahasiswa/ PKM).

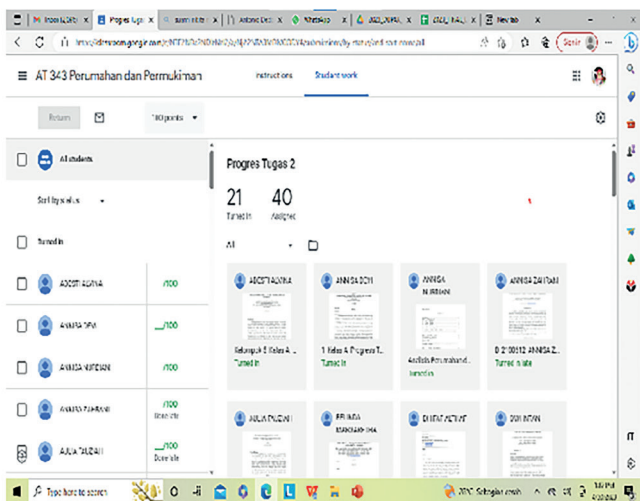
Meanwhile in Housing Settlement Lecture, students were to be trained by analysis about landed house which was developed by developer , therefore on the second assignment the student were learning about the case of informal housing which have function as recreation area in around of Bandung City. Several historical district were also becoming the part of object of their research because Bandung is as one of the destination for the tourists. On these exercises, the students were to trained to introduce about many stakeholders of housing and settlement, therefore could be more have comprehensive understanding about how to analysis by communicating and integrating with many processes of city development as early as possible. Many historical district are as follow : Jl Dago, Jl. RE Martadinata, and around of Jl. Braga or Pasar baru Bandung District.

In the Picture 9.2 bellow is an example students activity which are plan and compose about business canvas in group to initiate business proposal. The students on their group becoming more excited because can discuss each other to compose their canvas together. The medias which to be needed in this assignment are print of a paper as canvas, and sticky notes. The result of this assignment are for example: Re-Project as web of searching building worker, Refill of soap and shampoo - Business, Catering of Healthy Food - Business, and Instant Fresh Vegetable-Business, etc. In the lecture-14 of Entrepreneurship was also to be given guest lecture about “Media on Development of Entrepreneurship” from Mr. Abdullaah. Respon of the students is good, the students got new knowledge and active on the discussion. Guest lecture is very important to giving another point of view to the students therefore their can be find the more critical solution beside of as refreshing of our daily lectures.



Picture 9.3 Case Method and Team Based Learning in Entrepreneurship Lecture Assignment 2 – Designing Business Model Canvas

Meanwhile below is example of process of Assignment 2 – Housing and Settlement Lecture in which the students were been doing survey, analysis and comprehensive study to housing settlement which have function as recreation area. The students were very exited in doing study to the field due to they were rarely to going survey in more than 2 years of pandemic covid-19. The most important thing is how to giving the right paradigm of research to students, besides of that it is regarded important to do: (1). Directing students in all processes of their research, (2). Giving comprehensive understanding about the research benefit and (3). Guiding the students to completing their research to be relevant with the goal of the research. The picture below is example of students when presenting their process of study and evaluation to their processes in the google classroom.



Picture 9.4 Application of Case Method and Team Based Learning in Lecture Housing and Settlement and the Way to Evaluation Progress

As long as the condition of post covid-19, motivation of students are look volatility, sometime increase significantly, but sometime decrease significantly. Based on interview to several students, they are sometimes getting tired due to many activities which should do out of home. On the other side there is also many complex situation in around of us is still not normal enough. There are still many challenge of social and economical condition in around, can be called as transition situation of after covid-19. Actually it is the similar condition with the history of Revolution of Industry or situation of after World War 2, when it were the same situation of social problem, but they were struggling so hard including in developing knowledge and technology. From this history, we learn that it is necessary to giving the students an understanding of how to face many complex situation, giving of knowledge of macro and micro economy, and also about social engineering. In brief, the most important focus of learning process nowadays is about how the best strategy of knowledge and technology to facing many complex situation of the city as well as the community after covid-19.

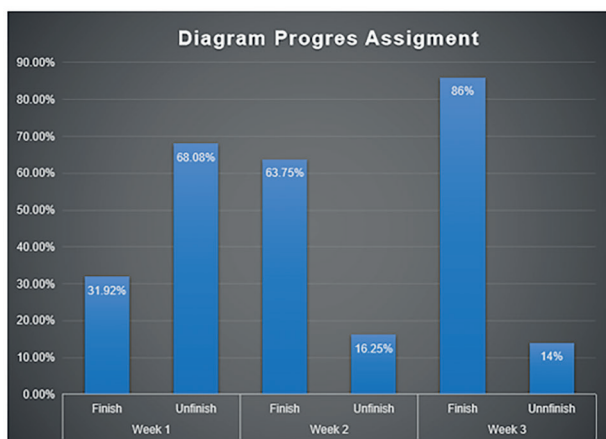
Referring to Taxonomi Bloom, the high level analysis has become a level that is harder to realize by the student. Anderson et al. (2001) dan Hwang et al. (2018) describe a suitable learning method is required to increase the high level analysis. Analyzing level thought process consists of characterization, separation and summarisation the history content knowledge (Malaysia Education Ministry, 2014). The student is required to be able to distinguish the difference and critique the history knowledge. So the context of history and the its summary is always necessary on many knowledge about community development. Purwanto (2019) also stated that culture is not only can be conceived as noble value of the people in the past, but also as the way of thinking strategy and intellectual transformation of the holding communities as the respon of the change of values which is keep happening by the time.

This is take us to refer on the thinking paradigm from Umar Kayam and Kuntowijoyo. Umar Kayam which stated that culture transformation is an inevitability on the community which are always changing (Kayam, 1989). On the other side, by the growth of technology there is also the change of condition in which the human life more fast, dynamic and there is appear the need of multi stake holders-team, multi tasking-system and also by more flexible place and time in using technology (Yosita, 2021).

On Housing and Settlement Lecture is has 2 assignment, there are Analyze of Formal Landed Housing which was built by developer as Assignment 1 and then Analyze of Informal Housing in several around of Tourism Area as Assignment 2.

The choice of location is in around of Bandung City which has many historical district in many locations. Several location of historical district which were to be analyzed by students as follow: Jl. Braga, Jl. RE Martadinata, Jl. Dago, Jl. Cihampelas, etc. On final assignment, the students were directed to analyzing of prospect of sustainability of many tourism area in Bandung. In brief, the result of all process of Assignment 2 of Housing Settlement as the final assignment in the Semester 2 2022/2023 is can be seen as the table and diagram as bellow:

	Week 1		Week 2		Week 3	
	Finish	Unfinish	Finish	Unfinish	Finish	Unnfinish
Group 1	35%	65%	58%	42%	82%	18%
Group 2	32%	68%	62%	38%	78%	22%
Group 3	25%	75%	55%	45%	85%	15%
Group 4	38%	62%	60%	40%	90%	10%
Group 5	40%	60%	72%	38%	88%	12%
Group 6	28%	72%	58%	42%	92%	8%
Group 7	39%	61%	65%	35%	88%	12%
Group 8	36%	64%	62%	38%	83%	17%
Group 9	32%	68%	63%	37%	90%	10%
Group 10	38%	62%	70%	30%	85%	15%
Group 11	40%	60%	72%	28%	88%	12%
Group 12	42%	58%	68%	32%	83%	17%
R	383%	765%	1032%			
	31.92%	18.08%	63.75%	16.25%	86%	14%



Picture 9.5 Table and Diagram of Progress of Housing and Settlement Assignment 2 Review and Analysis of Tourism Area in around of Bandung. From this ssignment, therefore selected papers will be submitted to several journals by intensive mentoring process.

By all processes which was to be described above can be concluded that along of process of final assignment the students have been fulfilling the target gradually. The process of case method which was focus on one special selected case and the process of team based learning which was available on enhance the group discussion process, has significant effect on increase the motivation of architectural students in era post covid-19. Many competency or student's character therefore could be appear significantly, for example : (1). Leadership (2). Performance, (3). Adaptation ability. (4). Team work ability, and also (5). Responsibility.

CONCLUSION

After pandemic covid-19 it is very necessary to introduce the character of the students as well as the situation in surroundings, from this the teacher can be design method of teaching which relevant with the condition on this strategy as well as on detail approaches. Pandemic covid-19 is a great case that change the history of the global world and its human life. Therefore from this, we should have the best strategy to sustaining the history of our environment or mainly history of our city including by strategy in teaching and learning method. By using case method and team based learning was actually could be found that it is very necessary and efficient strategy in the complex situation after pandemic covid-19.

In brief, from the discussion above the conclusion of this research is can be resume as following points: - It is necessary to more apply case method and team based learning in architecture education based on the newest problems in architecture and city planning nowadays in context Bandung as Historical Sustainable City. - Its is necessary to applying about many concept participatory planning to more introduce the students many stakeholders of city development - It is must adaptive policy of the government toward many problems of the real conditions nowadays about city planning and architecture. - It is necessary to applying many public lectures in several lectures that encourages spirit of students entrepreneurship. - It is necessary to motivating spirit of architecture student about many activities in out of the campus therefore more useful to respond the real conditions in the field nowadays to sustaining Bandung City and the communities.

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