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175

The

Contextual Teaching: The Student Responses on
Application Teaching
Materials Using Linever (Lindo and Excel Solver 1)

Unoriginal text: 15 words
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Abstract

Lecturers apply various models or learning strategies to the students which causes different student responses in joining the teaching learning process. However, the student responses only focus on their cognitive. It means that the lecturers only assess on the students' achievement. Whereas the application different models or learning strategies have a purpose to achieve positive responses from the students. It is happened in learning linear program subject. In addition, there are also student responses on the teaching materials application for linear program subject based on contextual approach. Furthermore, the objective of the research is to describe student responses on the application of linear program teaching materials using contextual approach through Linever. Linever means that

an acronym for Lindo and Excel Solver software.

Moreover, textbook and student' worksheets (LKM) are the teaching materials which are developed. The technique of data collection uses student responses questionnaires. The result of the research is the student responses on the linear program materials using contextual approach through Linever got 96.6%. In conclusion, this research 2 had achieved the positive responses 3 from the students in learning linear program subject.

Keywords: Contextual Teaching, Student Response, Teaching Materials, Lindo and Excel Solver

1. Introduction

Learning activities are a series of activities 4 between stimulus from educators and then from the stimulus comes the response of learners. The stimulus provided by educators is of course different depending on the learning objectives to be achieved. Just like the learning process at universities, where the stimulus dimerikan by lecturers to students, in the hope of a good response from students. When the response 5 is given low or not in accordance with the expected then of course there are efforts of lecturers to provide another stimulus. One of the efforts of a lecturer in the improvement of learning process of course based on the existence of student problems in learning, either the problem 6 of learning outcomes or problems of motivation 7, liveliness, process skills etc. and in accordance with the objectives to be achieved. This is in line with the opinion of Uno Hamzah (2007) who said that the method in learning is the way used by educators, who in carrying out its function is a tool to achieve learning objectives.

The problem is the effect of the low response given by students in the learning process. Many aspects that affect the low 8 response given 9 by students in the implementation of learning. The low 10 response of the student not yet tentusumber of teaching material errors in the students themselves, the ability of lecturers to deliver materials that are less adequate can cause the class to be

Repetitive word: research
Repetitive word: responses

Repetitive word: activities

Repetitive word: response

Repetitive word: *problem*Repetitive word: *problems*

less interesting 11 and tend to boring 12 students. The lecturers 'lack of sound, lax lessons, improper learning methods, or lecturers' position while teaching a lot of sitting can bring an unattractive atmosphere, making students fearful and unhappy resulting in a decrease in response. Or teaching materials used lecturers are not in accordance with the learning objectives to be achieved. So in solving the problem a lecturer to improve the learning process in a way that varies depending on aspects that will be improved 13. One way can be to improve 14 the teaching materials used for the learning process in collaboration with a particular learning model.

Repetitive word: *low*Repetitive word: *given*

Repetitive word: low

Overused word: interesting Overused word: boring

The

Teaching materials play an important 16 role in the 15 learning process. In the manufacture of teaching materials was certainly 17 in accordance with the goal to be achieved. This is in line with Wardhana (2010: 29) added that teaching materials is a medium to achieve 18 the desire or goals 19 to be achieved 20 by learners. So from the teaching materials that have been in stacking themselves by a lecturer, is expected to properly 21 solve the problems to be achieved 22. No exception learning process linear 23 course program which is one of the many subjects applied in problems in industry, company or in everyday problems 24. The result of research from Mawarsari (2017) which implements linear program teaching materials with linever assisted contextual approach obtained the result 25 that the teaching material is effective 26 in learning process. Based on the research, there is a need for further research on the response of students from the application of linear program material with linever assisted approach. So the purpose of this study is to determine the response 27 of students in the application of teaching materials linear program with linear-assisted contextual approach.

Repetitive word: *improved*Repetitive word: *improve*

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Overused word: important

Overused word: certainly

Repetitive word: achieve
Repetitive word: goals

2. Methods

This research is a qualitative descriptive research. Subjects in this study are mathematics and statistics students of the Faculty of Mathematics and Natural Sciences (FMIPA) Muhammadiyah University of Semarang (UNIMUS). The variable that is measured is the student's response to the application of linear program teaching materials with linear-aided contextual approach. Data source in this research is questionnaire of student response in lecturing program of linear program applying linear 28 program teaching material with linear assisted linear approach 29. Questionnaire 30 is given after the lecture is completed. To confirm the results of the questionnaire 31 then the researchers also make observations during the lecture 32. Data analysis technique is done descriptively qualitative. There are three paths of qualitative data analysis, data reduction, data presentation, and the conclusion of Miles and Huberman (in Ivanovich Agusta, 2003). The indicators of student response questionnaire measured in this study are: (a) clarity of material content in teaching materials, (b) language used in teaching materials, (c) component of instructional materials, (d) lecturers' ability to use teaching materials, E) the ease of linever software, (f) the ability of lecturers to use linever software, (g) the usefulness of teaching materials for students, (h) the usefulne ss of linever software, (h) the students' aspect is happy in the application of teaching materials; (i) the continuity of the use of teaching materials Assisted linever software.

Repetitive word: achieved
Overused word: properly
Repetitive word: achieved
Unusual word pair

Repetitive word: problems

Repetitive word: result
Overused word: effective

Repetitive word: response

3. Results and Discussion

Results of research on student responses in the application of teaching materials linear program with linear-assisted contextual approach using the data analysis formula as follows.

Percentage of each indicator = A / B \times 100% Information : A = number of students who answer an option B = all students who answered

Repetitive word: linear
Repetitive word: approach
Repetitive word: Questionnaire
Repetitive word: questionnaire
Repetitive word: lecture

Furthermore, the result of questionnaire of student response in the application of linear program material with linear assisted linear approach obtained response 33 as follows.

The

Table 1. Result of Student Response Questionnaire

No.

Result Of Students Response

OutComes

Result

Positive

Negative

Number Of percentage

Amount

Percentage

Number Of

Percentage

Amount of

Percentage

1.

clarity of material content in teaching materials

12

100

Repetitive word: response

0

0

2.

the language used in teaching materials

12

100

0

0

3. component of teaching material grain

11

91,67

1

8,33

4.

the ability of lecturers in the use of teaching materials.

11

91,67

1

8,33

5.

ease of linever software 12 100 0 0 6. ability of lecturer in using linever software 11 91,67 8,33 7. the benefits of teaching materials for students 12 100 0 0 8. the usefulness of linever software 12 100 0 0 9. aspects of student happy in the application of teaching materials

91,67

1

8,33

10.

Continuity of the use of teaching materials aided by linever software

12

100

0

0

Total

96,67

3,33

Based on the data analysis above can be said that the response given by students in the application of teaching materials linear program with contextual approach with positive linear 34 assistance, with percentage 96,67%, while giving 35 negative response 36 only 3,33%. So it can be interpreted that the application of teaching materials linear program with linever -assisted contextual approach can help students in terms of understanding the concept of

given by the students.

The

Diagram 1. Respons of Students

Repetitive word: linear
Repetitive word: giving
Repetitive word: response

positif

negatif

Repetitive word: linear

Repetitive word: concept
Repetitive word: linear

Based on the response given is of course another expectation, namely the achievement of competence or goals in the course 40 of the linear program. The positive response given 41 by the students in linear 42 program materials with linever-aided contextual approach, certainly 43 does not necessarily appear just like that. It exists because of the superiority of the teaching materials

used. The teaching materials used are: diktat and student worksheet (LKM). In the diktat has a feature that contains the material 44 or the concept of linear programming that contains 45 also the application in contextual problems. Contextual application 46 is also in accordance with the problems 47 in the industry and companies, so that when graduating students can apply the concept of linear programming on the work that is using the concept 48 of linear 49 programming. This is in line with the results of the study, et al (2013) concluded that learning with Contextual Teaching Learning approach (CTL) overcomes misconceptions in the learning process. In addition in the diktat also contains steps using software lindo and Excel Solver to solve problems related to linear programming. With the use diktat the students more easily learn the concept of linear 50 programming and the use of software lindo and Excel Solver make students easy in solving problems. Utilization of media in this case the use of softwaretentunya facilitate students, especially in linear program problems and is an alternative for students in the calculation process. In addition, the use of software lindo and Excel Solver can also motivate students in the lecture process, so they become active. This is in line with Hamalik's opinion (in Arsyad, 2004) the use of media in the learning process can generate new desires and interests and generate 51 motivation for students.

Other teaching materials used are Student Worksheets that contain linear programming related issues. The Student Worksheet is used to train students to hone their skills in understanding the concept of linear 52 programming.

4. Conclusions

The conclusions obtained from the results of research that has been done is the students give a positive response to the implementation of learning that apply linear program materials teaching with Linever assisted approaches Linever of 96.67%. This can be interpreted that the application of teaching materials linear program with Linever assisted 53 contextual approach to give influence to students in the lecture program linear program. (A) the

Repetitive word: course
Repetitive word: given
Repetitive word: linear
Overused word: certainly

Repetitive word: *material*Repetitive word: *contains*

Repetitive word: application
Repetitive word: problems

Repetitive word: concept
Repetitive word: linear

clarity of the material content in teaching materials, (b) the language used in teaching materials, (c) the component of instructional materials, (d) the ability of the lecturer in Use of teaching materials, (e) ease of software linever, (f) ability of lecturer in using linever software, (g) usefulness of teaching materials for students, (h) usefulness of linever software,

Repetitive word: linear

The

(h) student aspect happy in the application of teaching materials,) Continuity of use of instructional aided software linever.

Repetitive word: generate

5. References

Agusta, Ivanovich. 2003. "Teknik Pengumpulan Data dan Analisis Data Kualitatif". Makalah, Litbang Pertanian, 23 Februari 2003, Bogor.

Arsyad, Azhar. 2004. Media Pembelajaran. Jakarta : PT Raja Grafindo.

Ita, Viana, Dwi. 2013. Penerapan Pendekatan Contextual Teaching And Learning (CTL) untuk 54 Mengatasi Miskonsepsi Siswa SMP Pada Materi Fotosintesis. Jurnal Pendidikan Sains e Pensa. Volume 01 Nomor 02 Tahun 2013. hal21-29.

Uno, Hamzah. 2007. Model Pembelajaran Menciptakan Proses Belajar Mengajar yang kreatif dan efektif. Jakarta: Bumi Aksara.

Mawarsari, V.D. 2017. Implementasi bahan ajar program linear dengan pendekatan kontekstual berbantuan Linever. Prosiding Universty Research Coloquium Universitas Muhmmadiyah Semarang.

Wardhana, Yana. 2010. Teori Belajar dan Mengajar.

Bandung: Pribumi Mekar.

Repetitive word: linear

Repetitive word: assisted

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