

Development of Problem Based Learning Problems Based on Integrated Environmental Courses Basic Concepts Of Social Education

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Abstract: The primary studies targets are: 1) To produce a valid E-Module-Based Problem Based Learning product withinside the Basic Concepts of Social Sciences Department of Elementary School Teacher Education, Universitas Negeri Medan. 2) To take a look at the effectiveness of the Environmental Integrated Problem Based Learning-Based E-Module withinside the Social Sciences Basic Concepts Course, Department of Elementary School Teacher Education, Universitas Negeri Medan. The kind of studies accomplished is the kind of studies and improvement or Research and Development (R&D). This studies is a studies and improvement version the use of the ADDIE (Analysis, Design, Development, Implementation, and Evaluation) version. The place of the studies changed into carried out withinside the Department of Elementary School Teacher Education, Universitas Negeri Medan. The populace of this studies is all college students of Department of Elementary School Teacher Education, Universitas Negeri Medan Stambuk 2021 totaling 225 college students which includes 11 (A-K) ordinary and extension classes. The pattern of this studies changed into accomplished in a magnificence application and one magnificence changed into chosen, specifically the Regular J magnificence 2021, which consisted of 28 college students. Data series strategies on this take a look at the use of observation, interviews, questionnaires or questionnaires and documentation. The effects confirmed that the feasibility evaluation through media professionals scored 87 (87%) with the standards of very feasible, the evaluation through fabric professionals (lecturers) received a rating of 73 (91%) with the standards of very feasible. As for the effects of the effectiveness evaluation through magnificence J Reg 2021 college students, the extrade in pupil rankings has increased, the pre-take a look at effects received a price of 39.28% with the useless standards and the post-take a look at scored 85.35% with the very powerful standards.

Keywords: Development, E-Modules, Problem Based Learning, Environment, Social Science Basic Concepts

1. Introduction

This Basic Concept of Social Education course discusses the understanding of the basic concepts of Social Sciences, understanding of facts, the concept of generalizing basic skills of social sciences, individuals and society, humans and their environment, the influence of foreign culture on the Indonesian nation, the struggle of the Indonesian people towards economic independence. cooperatives and business in Indonesia and human rights. Democracy and law enforcement in Indonesia. Using an expository approach in the form of lectures and questions and answers equipped with a Developmentally Appropriate Practices

(DAP) approach and transparent, group discussions and assignments. Haspari's Developmentally Appropriate Practice (DAP) approach positions students as the main role holders in the learning process, where activities that will and are being carried out accommodate students' ideas, provide many opportunities for children to actively move and ask questions, explore and try [1]. Learning media is adapted to the character of student development, which is still a student who must be able to collect concrete and environmental data.

Social technology is an educational application that integrates decided on simple principles from the social sciences and humanities, for the motive of fostering true citizens. Through Social Education topics in basic schools, college students are anticipated to have know-how and perception approximately the simple principles of social technology and humanities, have sensitivity and cognizance of social issues in their environment, and feature the competencies to observe and resolve those social issues. Through social research topics, it's miles was hoping that scholars may be nurtured to emerge as true and accountable citizens. To be capable of train Social Education well, potential teachers/college students are anticipated to grasp the simple principles of social sciences.

In essence, lectures on Basic Concepts of Social Education are a mastering method that lets in college students both in my view and in corporations to actively seek, discover and find out ideas and ideas holistically and authentically. By mastering the Basic Concepts of Social Education, college students can advantage direct enjoy, so they can growth the strength to receive, shop and bring impressions approximately the things they learn. The manner teachers package deal lectures substantially influences the meaningfulness of the enjoy for college students. However, in its implementation, the Basic Concepts of Social Education which includes the fields of observe of history, economics.

Education this is capable of support improvement withinside the destiny is schooling this is capable of broaden the capability of college students, in order that the ones worried are capable of face and clear up the troubles of existence they face [2]. The lecture system could be greater thrilling and beneficial for college students whilst the use of the surroundings as a gaining knowledge of resource. Utilization of the surroundings is a gaining knowledge of technique that seeks to boom pupil involvement, via the usage of the surroundings as a gaining knowledge of resource, college students are anticipated to get direct enjoy of the problem being studied. This model assumes that gaining knowledge of sports will appeal to college students' interest if what they examine comes from the surroundings wherein they live, in order that what they examine is associated with their every day lives.

The environmental-based lecture process provides opportunities for students to gain understanding and the expected competencies by means of students observing, interviewing and doing directly what exists and takes place in the surrounding environment, both at home and in the campus environment. With this learning model, students can conduct interviews with the community in the home environment where students live, so that students get something they want to know from other people who are considered to be able to provide the information needed in accordance with the material or topic being studied.

The environmental-primarily based totally lecture system in collaboration with trouble-primarily based totally studying (Problem-primarily based totally studying) can assist with lectures on Basic Concepts of Social Education inElementary School Teacher Education Faculty of Education, State University of Medan. Problem primarily based totally studying (Problem primarily based totally studying), is one of the modern studying fashions that may offer lively studying situations for students. PBL is likewise a studying version orientated to the theoretical framework of constructivism. In the Problem primarily based totally studying

version, the focal point of lectures is on the selected trouble so that scholars now no longer most effectively learn principles associated with the trouble however additionally the clinical approach to remedy the trouble.

According to Pasek [4] and Purnawan [5] medical attitudes and problem-fixing capabilities in college students may be grown by problem-primarily based totally learning. The Environmental Approach is an integrative of Social Education Education whose fields of examine can't be separated from history, economics, sociology and geography with a Problem base learning (PBL) approach that may be used as a car to enhance different capabilities except scholar learning outcomes, specifically developing medical paintings capabilities in college students.

The Environmental Integrated Problem Based Learning technique withinside the Basic Concepts of Social Education additionally shapes the man or woman of college students beginning from the world of knowledge, competencies, and attitudes approximately being concerned for the surroundings to humans. According to Barlia (2008, p.3), "environmental schooling ought to be capable of train those who are conscious of the tempo of technological development, apprehend troubles withinside the biosphere, and feature productive ready-to-use competencies to maintain and maintain nature". According to Sapriya [6] Social Education is a discipline of observe this is taught from standard school to excessive school. Learning the surroundings thru gaining knowledge of the Basic Concepts of Social Education may be finished with the aid of using analyzing international troubles. Global troubles in gaining knowledge of Social Education Sciences are "environmental troubles, especially the ones associated with the outcomes of exploitation of human sources and the management of the earth's wealth: land, forests and different factors" [6]. These international troubles together with waste troubles, floods, air pollution, international warming. Environmental troubles that arise right now are very pressing to be followed up immediately, and end up the obligation of all factors of society, it's far was hoping that with the aid of using integrating environmental schooling into the Basic Concepts of Social Education in standard schools, it's far was hoping that the more youthful generation of heirs of the earth could be capable of love surroundings for the sustainability of lifestyles on earth, and with environmental schooling is anticipated to create green schools.

Based at the current phenomenon, whilst going through the Corona pandemic, which does now no longer recognise whilst it will end. Researchers offer one manner that may be used to perform the offline and on-line mastering technique is to increase Development Environmentally Integrated Problem Based Learning-Based E-Module in Basic Concept Courses Social Education Science. In this observe, researchers designed a coaching module for the Basic Concept of Social Education Education that's legitimate to be used via way of means of teachers withinside the mastering technique in line with the traits of college students and increases issues withinside the surroundings wherein college students stay via way of means of designing lectures with instances that increase withinside the network if you want to boom creativity and results. pupil mastering. In this case, researchers increase coaching substances that may be used as tips for teachers in making coaching substances. The coaching substances evolved encompass mastering objectives, logical and systematic presentation of fabric and sentences which are smooth to recognize and recognize via way of means of teachers and college students. Based at the explanation above, the identify of this studies is "Development"Environmentally Integrated Problem Based Learning-Based E-Module in Basic Concept Courses Social Education Elementary School Teacher Education Faculty of Education, State University of Medan". Based at the historical past of the hassle above, the system of the hassle on this observe is 1) How is the professional check at the

product Environmentally Integrated Problem Based Learning-Based E-Module in Basic Concept Courses Social Education Elementary School Teacher Education Faculty of Education, State University of Medan? 2) How is the effectiveness of the Basic Concepts of Social Education via way of means of the use of the product Environmentally Integrated Problem Based Learning-Based E-Module in Basic Concept Courses Social Education Science Elementary School Teacher Education Faculty of Education, State University of Medan?

2. Methods

The sort of studies performed is the sort of studies and improvement or Research and Development (R&D). Research and improvement is described as a studies approach that goals to broaden and convey excessive excellent merchandise that have long past via initial studies earlier than product improvement. According to Guy, Mills, and Erasian, the principle purpose of studies and improvement in education isn't to formulate or check theories, however to broaden powerful merchandise for education. Effective merchandise utilized in schools. The product because of this studies is withinside the shape of an E-Module Based on Integrated Environmental Problem Based Learning withinside the Basic Concepts of Social Education. This studies is a studies and improvement with the ADDIE version (Analysis, Design, Development, Implementation, and Evaluation). The researcher selected the ADDIE version since the primary ADDIE improvement version of designing and growing the maximum famous product for the glide of analytical questioning or clinical questioning is to apply the ADDIE Model.



Fig. 1. Stages of Research Using the ADDIE Model

Analysis

The evaluation degree is the degree wherein the researcher analyzes the want for the development of coaching substances and analyzes the feasibility and development requirements. The degrees of evaluation finished through the writer consist of three things, particularly wishes evaluation, curriculum evaluation, and scholar character evaluation. Broadly speaking, the degrees of evaluation finished through the writer are as follows.

Needs Analysis

Needs evaluation is carried out with the aid of using first reading the scenario as the principle facts in the lecture and the provision of coaching substances that assist the implementation of a learning. At this stage, the coaching substances that need to be evolved might be decided to assist college students within the lecture process.

Curriculum Analysis

In curriculum analysis, it's far accomplished via way of means of taking into consideration the traits of the curriculum Indonesia's National Qualifications Framework presently getting used within the Primary School Teacher Education Study Program. This is performed in order that the improvement accomplished may be according with the needs of the relevant curriculum. Then the researcher examines the Learning Outcomes of the Courses and Learning Outcomes of Graduates of the Basic Concepts of Social Education to formulate signs of studying achievement.

Student Character Analysis

Student analysis was conducted to determine the characteristics of students based on the cognitive, affective and psychomotor development of children based on interviews and observations of students Primary School Teacher Education, Faculty of Education, Unimed, so that later students can understand the materials in the form of Environmentally Integrated Problem Based Learning-Based E-Modules which will be designed by researchers in the Basic Concepts of Social Education. This analysis was conducted to see the attitude of students towards the lecture process. This was done so that the development carried out was in accordance with the character of the students.

Design

The second stage of the ADDIE model is the *design* planning. At this stage, the E-Module is designed to be developed according to the results of the previous analysis. Furthermore, the design stage is carried out by determining the elements needed in the form of an Environmentally Integrated Problem Based Learning-Based E-Module. Researchers also collect references that will be used in developing materials in the Basic Concepts of Social Education. At this stage, the researcher also developed an instrument that would be used to assess the form of an E-Module Based on Integrated Environmental Problem Based Learning that was developed.

Development

The development stage is the product realization stage. At this stage the development is in the form of E-Module-Based *Problem Based Learning* Integrated Environment is carried out according to the design. After that, in the form of an E-Module Based on Integrated Environmental Problem Based Learning, it will be validated by material expert lecturers and design experts. In the validation process, the validator uses the instruments that have been prepared in the previous stage. Validation is carried out to assess the feasibility of teaching materials, language, and content. Validators are asked to provide an assessment of the form of Environmentally Integrated Problem Based Learning-Based E-Module in the Social Education Basic Concepts course which is developed based on the feasibility aspect in the form of Environmentally Integrated Problem Based Learning-Based E-Modules and provide suggestions and comments related to the E content. -The module which will later be used as a benchmark for revision of improvements and refinements in the form of the Environmentally Integrated Problem Based Learning-Based E-Module. Validation was carried out until finally in the form of an Environmental Integrated Problem Based Learning-Based E-Module that was declared feasible to be implemented in lecture activities. At this stage, The researcher also analyzes the data on the results of the assessment in the form of an E-Module Based on

Integrated Environmental Problem Based Learning obtained from the validator. This is done to get the value of validity in the form of Environmentally Integrated Problem Based Learning-Based E-Module.

Implementation

The fourth stage is implementation. Implementation is carried out in a limited manner to the designated class to test the product that has been developed. Lecturers conduct lectures with the help of -Based E-Modules *Problem Based Learning* Integrated Environment in the course of Basic Concepts of Social Education that has been developed.

Evaluation

At this stage, the researcher made a final revision of the form of a -Based E-Module *Problem Based Learning* Integrated Environment in the Basic Concepts of Social Education which was developed based on the results of product trials. It is intended that in the form of an E-Module Based on Integrated Environmental Problem Based Learning which is developed is truly appropriate and can be used by lecturers in the Basic Concepts of Social Education course.

The region of the studies became performed on the Elementary School Teacher Education Study Program, Faculty of Education, State University of Medan, which became placed on Jl. Willem Iskandar / Pasar V, Medan, North Sumatra – Indonesia Postal Box 1589, Postal Code 20221, Tel. (061) 6613365, Fax. (061) 6614002 / 6613319. The populace of this studies is all college students of PGSD Unimed2021 totaling 225 college students such as 11 (AK) ordinary and extension classes. The pattern of this studies became performed in a category software and one class became chosen, particularly Class J Regular 2021, totaling 28 college students. Data collection strategies on this have a look at the use of observation, interviews, questionnaires.

Instruments are used to collect data during the development process in the form of E-Module-Based Problem Based Learning Integrated Environment in the Basic Concepts of Social Education in the form of a questionnaire. Data collection in this study used instruments that were divided based on the source of data acquisition consisting of validation instruments from material experts and design experts. The expert validation sheet is one of the research instruments used to measure the feasibility of Environmental Integrated Problem Based Learning-Based E-Modules in the Basic Concepts of Social Education in the form of a questionnaire. The validation sheet is given to design experts and material experts on Basic Concepts of Social Education.

The information received then the researchers analyzed qualitatively and quantitatively. Qualitative information in this have a look at may be withinside the shape of grievance and guidelines recommend through fabric professionals and layout professionals. The information is then analyzed as a foundation for improving and understanding the feasibility of the ensuing product. This quantitative studies is the information from the evaluation the use of a scoring scale. This quantitative information may be received from the validation effects through media professionals, layout professionals and product wearers. The score scale makes use of a Likert scale with 5 choices (5 scale). Widoyoko [7] defined that the primary precept of the Likert scale is to decide the area of a person's function in a quantum of mind-set toward the item of mind-set starting from very bad to very positive. Determination of the area is accomplished through quantifying a person's reaction to the statements/questions provided. The effects of the validation of layout, fabric and usefulness professionals are finished through scoring, particularly a rating of one for a terrible evaluation, a rating of two for a terrible evaluation, a rating of three for a reasonably excellent evaluation, a rating of four for an excellent evaluation, and a rating of five for a excellent evaluation.

3. Results

This research is a research and development model using the ADDIE (Analysis, Design, Development, Implementation, and Evaluation) model. In this paper, the discussion is limited to only determining the results of the feasibility of the e-module in accordance with the opinions of media experts and material experts as well as testing the effectiveness of products that are already valid.

Media Expert

The validity of the media professional turned into performed as soon as through a lecturer who turned into an professional withinside the multimedia field, namely Natalia Silalahi, M.Kom. as a laptop lecturer on the Elementary School Teacher Education Study Program, Faculty of Education, State University of Medan. Media validity turned into performed on August 29, 2022. Validity turned into carried out the use of a media professional validity questionnaire. The consequences of the instrument may be visible withinside the desk below:

Table 1. Media Validity Data Results

Validator	Total Score	Average	Percentage	Eligibility Level
Natalia Silalahi, M. Kom.	87	4.35	87%	Very Valid

Based at the consequences of the validity data achieved with the aid of using media professionals, it may be concluded that media professionals gave an evaluation of the Environmental Integrated Problem Based Learning-Based E-Module withinside the Basic Concepts of Social Education Science situation to a score of 87 (87%) with the standards of "Very Valid". Media professionals state that this media is appropriate to be used with out revision.

Material Expert

The validity of the cloth professional changed into finished two times through teachers who have been specialists in the thematic cloth, particularly Mr. Husna P. Tambunan, S.Pd., M.Pd. as a lecturer in Social Education for Elementary School Teacher Education, Faculty of Education, State University of Medan. Phase I validity changed into finished on August 30, 2022. Validity changed into finished the use of a cloth professional validity questionnaire. The consequences of the primary tool may be visible withinside the table below:

Table 2.Results of Material Validity Data Phase I

Validator	Total Score	Average	Percentage	Eligibility Level
Husna P. Tambunan, S.Pd., M.Pd.	62	3.87	77.5%	Valid

Based on the results of the data validity phase I conducted by the material expert, it can be concluded that the material expert gave an assessment of the Environmentally Integrated Problem Based Learning-Based E-Module in the Basic Concepts of Social Education Course and obtained a score of 62 (77.5%) with the criteria " Valid". The material expert stated that the Environmentally Integrated Problem Based Learning-Based E-Modul in the Basic Concepts of Social Education Course was appropriate to be used with revisions according to suggestions. Furthermore, after making revisions in accordance with suggestions from material experts, the validity of the second stage was carried out on September 5, 2022. The results of the second stage of the instrument can be seen in the table below:

Table 3. Results of Phase II Material Validity Data

Validator	Total Score	Average	Percentage	Eligibility Level
Husna P. Tambunan, S.Pd., M.Pd.	73	4.56	91%	Very Valid

Based at the consequences of the information validity section II carried out through fabric professionals, it could be concluded that the fabric professionals gave an evaluation of the Environmentally Integrated Problem Based Learning-Based E-Module within the Basic Concepts of Social Education and obtained a rating of 73 (91%) with the criteria "Very Valid " The fabric professional said that this media become appropriate to be used with out revision. Both consequences of fabric validity from Mr. Husna P. Tambunan, S.Pd., M.Pd. get one of a kind percentages. Each level of validity indicates an development to the advanced module. By acquiring consequences from media and fabric professionals, the subsequent level is the implementation of product development.

In this implementation phase, the researchers carried out a discipline trial in the actual magnificence J 2021. Field trials have been achieved on 28 college students of sophistication J 2021 of the Elementary School Teacher Education Study Program. Data collection of scholar getting to know consequences is accomplished with the aid of using giving pre-check and post-check. The pre-check changed into carried out to look an preliminary photograph of the capacity and know-how of the scholars studied earlier than receiving getting to know the use of the Environmentally Integrated Problem Based Learning-Based E-Module within the advanced Social Education Basic Concepts Course. Then a post-check trial changed into carried out to look the very last description of the scholars' competencies and understandings studied after receiving getting to know the use of the Environmentally Integrated Problem Based Learning-Based E-Module within the advanced Social Education Basic Concepts Course. The pre-check and post-check rankings are supplied within the desk below:

Table 4. Pre-test and Post-test results

No	Name	Pre-Test Score	Post-Test Score	Information
1	Arif Adriansyah	40	80	Increase
2	Aurelia Alfani	40	80	Increase

3	Bawi	40	70	Increase
4	God	60	90	Increase
5	Dira Afifah	50	90	Increase
6	Faris Maulana	30	80	Increase
7	Fitri Aulia Ramadhani	40	90	Increase
8	M Al Firza	50	90	Increase
9	M Chairul Nizam	50	80	Increase
10	Maymuna Syafitri	40	90	Increase
11	Meilinda	60	100	Increase
12	Micrisfal	30	80	Increase
13	Muhammad Naufal	20	80	Increase
14	Naya Al Zahira	50	80	Increase
15	Nazwa Huwaida	60	80	Increase
16	Raka Febrian	40	90	Increase
17	Ranga	30	80	Increase
18	Natasa Refa	40	100	Increase
19	Regina	20	90	Increase
20	Rehan	40	70	Increase
21	Riska Permatasari	20	90	Increase
22	Saskia Nur Fadilah	30	80	Increase
23	Knight	30	90	Increase
24	Syahpira Agustina	30	90	Increase
25	Viola Arsinta	50	100	Increase
26	Wahyuda	50	80	Increase
27	Yudha Mahardika	30	90	Increase
28	Zuna Putra	30	80	Increase
Amount		1100	2390	
Effectiveness Percentage		39.28	85.35	

From the table of pre-test and post-test results above, it can be concluded that the student learning outcomes that the researchers tested have increased after using the Environmentally Integrated Problem Based Learning-Based E-Module. Based on the pre-test and post-test results regarding the results of the pre-test, it shows that the effectiveness reaches 39.28% which is included in the "Ineffective" level of achievement. Meanwhile, the results of the post-test showed that the effectiveness reached 85.35% which was included in the level of achievement of "Very Effective".

4. Discussion

In this evaluation stage, the researcher draws conclusions from field trials. This evaluation is carried out to draw conclusions regarding the feasibility and effectiveness of the Environmentally Integrated Problem Based Learning-Based E-Module.

Validity Assessment (Media Expert)

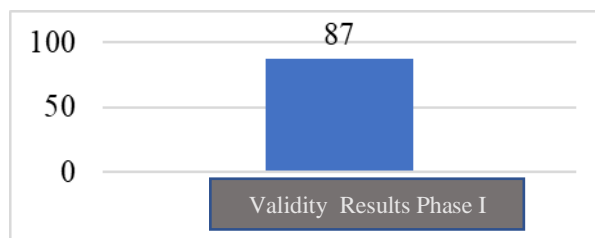


Fig.2. Media Expert Validity Assessment Results Phase I

Based on the diagram above, it can be concluded that the validation phase I was carried out by media experts, namely Mrs. Natalia Silalahi, M.Kom. as a computer lecturer at the Department of Elementary School Teacher Education, State University of Medan, that media experts gave an assessment of the Environmentally Integrated Problem Based Learning-Based E-Modul obtaining a score of 87 (87%) with the criteria of "Very Valid". Media experts stated that this media is suitable for use without revision only. In line with the opinion of Sugiyono [8] that development is a method used to obtain product results and test the effectiveness of the developed product. Meanwhile, according to Gagne and Bring development is a learning system whose purpose is to help students in the learning process.

Validity Assessment (Material Expert)

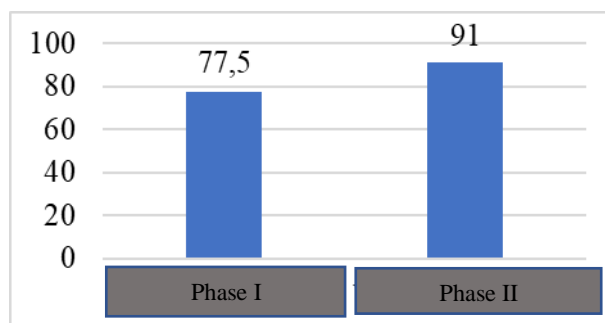


Fig. 3. Results of the Material Expert Validity Assessment Phase I and Phase II

Based on the diagram above, it can be concluded that the phase I validation was carried out by a material expert, namely Mr. Husna P. Tambunan, S.Pd., M.Pd. as a lecturer in Elementary School Teacher Education, Faculty of Education, State University of Medan, that the material expert gave an assessment of the Environmental Integrated Problem Based Learning-Based E-Modul obtaining a score of 62 (77.5%) with the "Valid" criteria. The material expert stated that this media was suitable for use with revisions according to suggestions. The suggestions given are: add photos according to the subject, recheck typing, adjust learning objectives, pay attention to neatness. Furthermore, after making revisions in accordance with the advice of material experts in stage II validation, they obtained a score of 73 (91%) with the "Very Valid" criteria. The material expert stated that this Environmentally Integrated Problem Based Learning-Based E-Module was feasible to use without revision. In line with the opinion of Salim and Haidir [9] stated that research and development is also called Research and Development (R&D) is a strategy or research method which is a series of processes or steps in order to develop a new product or improve existing products in order to accountable.

Effectiveness of Using E-Modules

Field trials were conducted on 28 students of Class J 2021, Department of Elementary School Teacher Education, Faculty of Education, State University of Medan. Data collection of student learning outcomes is done by giving pre-test and post-test. The following are student learning outcomes before using the Environmentally Integrated Problem Based Learning-Based E-Module and after using the Environmentally Integrated Problem Based Learning-Based E-Module.

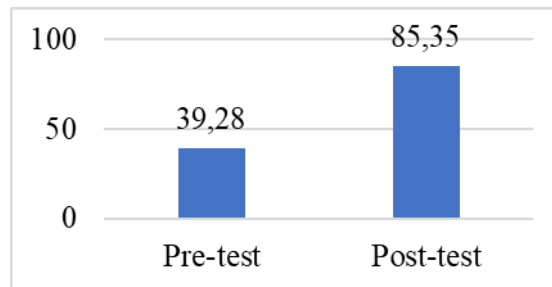


Fig. 4. Student Effectiveness Assessment Results

Based at the diagram above, it may be concluded that the pupil studying effects that the researchers tested multiplied after the usage of the Environmentally Integrated Problem Based Learning-Based E-Module. Based at the pre-take a look at and post-take a look at consequences regarding the consequences of the pre-take a look at, it indicates that the effectiveness reaches 39.28% that's blanketed withinside the "Ineffective" degree of success. Meanwhile, the consequences of the post-take a look at confirmed that the effectiveness reached 85.35% which changed into blanketed withinside the degree of success of "Very Effective". In line with the opinion of the Ministry of National Education (2008), it's far defined that the module is a ee-e book written with the purpose that college students can research independently with or without trainer guidance. Learning with modules permits a pupil who has a excessive pace in studying to finish one or extra Basic Competencies quicker than different college students. Furthermore, Environmental Education is an academic application to foster kids or college students to have rational and accountable understanding, awareness, attitudes, and behaviors concerning the mutual affect among citizens and the surroundings in numerous factors of human life [10]. According to Glazer states that Problem Based Learning emphasizes studying as a system that entails problem fixing and essential questioning in an real context. Glazer in addition argues that Problem Based Learning presents possibilities for college students to analyze broader matters that target making ready college students to end up energetic and accountable citizens [11]. Through Problem Based Learning college students benefit revel in in coping with practical problems, and emphasize using communication, collaboration, and current assets to formulate thoughts and expand reasoning skills.

5. Conclusion

From the consequences and dialogue above, it may be concluded that first, the feasibility stage of the getting to know media evolved is decided via way of means of an evaluation via way of means of 2 professional academics, particularly media professional academics and fabric professional academics thru a media feasibility validation sheet with a scale of 1-5. The media professional lecturer gave a complete rating of 87 with an eligibility percent of 87% withinside the "Very Eligible" category. The fabric professional lecturer gave a complete rating of seventy three with an eligibility percent of 91% withinside the "Very Eligible" category. Second, Effectiveness stage Environmentally Integrated Problem Based Learning-Based E-Module which become evolved become finished with tests, particularly pre-take a look at and post-take a look at. Based at the consequences of the pre-take a look at and post-take a look at, the consequences of the pre-take a look at confirmed that the effectiveness

reached 39.28% which become covered withinside the "Ineffective" stage of success. Meanwhile, the consequences of the post-take a look at confirmed that the effectiveness reached 85.35% which become covered withinside the stage of success of "Very Effective".

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