

CHAPTER V CONCLUSION AND SUGGESTION

5.1. Conclusion

Based on the research that has been done, it can be concluded that:

1. The results of the needs analysis in the define stage are divided into:
 - Preliminary analysis is the result of an initial analysis based on interviews with chemistry teachers in the form of learning limitations due to the covid-19 pandemic, limited teaching materials in the learning process and electronic modules that have not been used as teaching materials in chemistry learning.
 - Curriculum analysis is the use of the 2013 curriculum as a reference in the product design stage and in the components of teaching materials.
 - Material analysis is from the 2 books that are used as source books where the books cover aspects of literacy such as the knowledge of science, sciences as a way of thinking, and interaction of science, technology and society. But it is still rare to find other aspects of scientific literacy, namely the investigative nature of science.
 - Formulating objectives, namely the development of scientific literacy-based electronic modules on colloidal material to overcome the limitations of teaching materials, increase students' interest in learning and develop students' scientific literacy skills.
2. The developed e-module of colloidal topic based on scientific literacy can be <https://drive.google.com/file/d/16C3IXoVz88sjQUI3AOI8Ab4W2vrWfz1C/view?usp=sharing> .
3. The level of validity of the scientific literacy-based electronic module on Colloidal material as teaching material for SMA/MA class XI students was

declared "very feasible" by material experts getting a score of 3.67 with a percentage of validity of 91.75% and declared "very feasible" by media experts with a value of 3.56 with a percentage of validity of 89%.

4. The student's respond regarding the electronic module based on scientific literacy on colloidal material as teaching material obtained a percentage of assessment that was stated to be "strongly agree" with a response percentage of 91.29%.

5.2. Suggestion

Based on the conclusions of the results of this study, several suggestions were obtained including:

1. Electronic module based on scientific literacy on colloidal topic for SMA/MA class XI need to be extensively tested in chemistry learning to find out the strengths and weaknesses of the products developed and should be carried out by teachers to get an assessment of the module.
2. Electronic module based on scientific literacy on colloidal topic need similar research with different materials so that it is hoped that new products with better quality will be obtained to enrich scientific literacy-based teaching materials.
3. Electronic module based on scientific literacy on colloidal topic has a drawback, when used offline, learning videos from YouTube cannot be played. Therefore, it is hoped that further researchers can develop electronic module facilities such as learning videos that can be available offline as well.