

REPORT
MONITORING AND EVALUATION OF ASSESSMENT DOCUMENTS
MID-TERM EXAMINATION AND FINAL EXAMINATION
ODD SEMESTER 2024/2025

QUALITY ASSURANCE SUB-UNIT
BIOLOGY EDUCATION STUDY PROGRAM
FACULTY OF MATHEMATICS EDUCATION, NATURAL SCIENCES, AND INFORMATION
TECHNOLOGY
UNIVERSITAS PGRI SEMARANG
2025

REPORT
MONITORING AND EVALUATION OF ASSESSMENT DOCUMENTS
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Biology Education QA Subunit Team

1. Atip Nurwahyunanni, M.Pd
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PREFACE

Praise be to God Almighty for His blessings and grace, so that the Monitoring and Evaluation Report of Assessment Documents for the Mid-Term Examination and Final Examination in the Biology Education Study Program, Faculty of Mathematics Education, Natural Sciences, and Information Technology, Universitas PGRI Semarang, Academic Year 2024/2025, can be properly completed.

This monitoring and evaluation activity was conducted as part of the implementation of the Internal Quality Assurance System within the Biology Education Study Program. The activity aimed to ensure that the assessment documents prepared by course lecturers complied with the principles of quality assessment and were suitable to be used as instruments for measuring student learning achievement.

The assessment documents reviewed in this report consist of two separate components, namely Mid-Term Examination documents and Final Examination documents. The review of Mid-Term Examination documents was conducted from April 14 to April 26, 2025, while the review of Final Examination documents was conducted from June 16 to June 28, 2025. The two review processes were separated because the examinations were conducted at different times and had different assessment scopes.

The quality review indicators included the validity principle, educational principle, authentic principle, objective principle, and accountable principle. The review was conducted on assessment documents from 25 courses offered in the Biology Education Study Program during the Even Semester 2024/2025.

This report is expected to serve as a basis for reflection, evaluation, and follow-up actions in improving the quality of assessment documents. The results of this monitoring and evaluation also serve as supporting evidence for internal quality assurance and accreditation purposes.

Semarang, September 17, 2025

Quality Assurance Sub-Unit

Biology Education Study Program

1. Atip Nurwahyunanni, M.Pd

2. Dr. Eny Hartadiyati Wasikin H,

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A. INTRODUCTION

Assessment is an essential component of the teaching and learning process in higher education. Through assessment, lecturers can measure the extent to which students have achieved the intended learning outcomes. Therefore, assessment documents, including Mid-Term Examination and Final Examination question papers, need to be reviewed regularly to ensure that they meet academic quality standards.

In the Biology Education Study Program, assessment document monitoring and evaluation are conducted as part of the Internal Quality Assurance System. This activity is intended to ensure that examination documents prepared by course lecturers are aligned with course materials, the Semester Learning Plan, and the intended learning outcomes. In addition, the review also ensures that the assessment process is implemented in a valid, educational, authentic, objective, and accountable manner.

The Mid-Term Examination and Final Examination were reviewed separately because they were conducted at different stages of the semester. The Mid-Term Examination was used to evaluate students' learning achievement during the first half of the semester, while the Final Examination was used to evaluate students' learning achievement at the end of the semester. Therefore, the review results, findings, and follow-up recommendations for both examinations are presented separately in this report.

The monitoring and evaluation activity covered assessment documents from 20 courses in the Biology Education Study Program during the Even Semester 2024/2025. The reviewed documents included examination question papers, examination instructions, scoring guidelines, answer keys, and supporting assessment criteria submitted by course lecturers.

The legal and institutional bases for this monitoring and evaluation activity are Law Number 20 of 2003 concerning the National Education System, Law Number 12 of 2012 concerning Higher Education, Regulation of the Minister of Higher Education, Science, and Technology of the Republic of Indonesia Number 39 of 2025 concerning Quality Assurance in Higher Education, Internal Quality Assurance System documents of Universitas PGRI Semarang, Learning and Assessment Quality Standards of Universitas PGRI Semarang, and the academic guidelines of the Biology Education Study Program, FPMIPATI, Universitas PGRI Semarang.

B. OBJECTIVES OF MONITORING AND EVALUATION

The monitoring and evaluation of assessment documents were conducted to review the quality of Mid-Term Examination and Final Examination documents prepared by course lecturers. This activity aimed to ensure that examination questions were aligned with course materials, the Semester Learning Plan, and course learning outcomes.

In addition, this monitoring and evaluation aimed to ensure that the examination documents fulfilled the principles of validity, educational value, authenticity, objectivity, and accountability. Through this activity, the Quality Assurance Sub-Unit was able to identify aspects of assessment documents that

required improvement and provide follow-up recommendations for strengthening assessment quality in the following semester.

The review also served as evidence of quality assurance implementation in the assessment process. By reviewing Mid-Term Examination and Final Examination documents separately, the study program demonstrated that assessment quality was monitored continuously during the academic year.

C. METHOD OF MONITORING AND EVALUATION

The monitoring and evaluation of assessment documents were conducted using a document review method. The documents reviewed consisted of Mid-Term Examination and Final Examination question papers submitted by lecturers of 25 courses in the Biology Education Study Program.

The review was conducted by the Quality Assurance Sub-Unit of the Biology Education Study Program. The review process focused on the completeness, clarity, alignment, and quality of the examination documents based on predetermined indicators. The indicators included validity, educational value, authenticity, objectivity, and accountability.

The Mid-Term Examination document review was conducted from April 14 to April 26, 2025. This review focused on the examination documents used in the middle of the semester. The main emphasis was on the alignment of examination questions with the course materials covered during the first half of the semester, the clarity of question format, examination instructions, scoring guidelines, answer keys, and accountable assessment criteria.

The Final Examination document review was conducted from June 16 to June 28, 2025. This review focused on the examination documents used at the end of the semester. The main emphasis was on the alignment of questions with overall course learning outcomes, the authenticity of assessment, the objectivity of scoring criteria, and the accountability of examination procedures.

Table 1. List of Courses and Course Lecturers Reviewed

No.	Course	Course Lecturers
1	Basic Chemistry	Dr. Maria Ulfah, M.Pd
2	Learner Development	Rivanna Citraning Rachmawati, S.Si.; M.Pd; Reni Rakhmawati, S.Pd., M.Pd
3	Basic Biology	Ipah Budi Minarti, S.Pd, M.Pd.; Fibria Kaswinarni, S.Si, M.Si
4	Foundations of Education	Dr. Prasetyo, M.Pd
5	Laboratory Techniques	M. Anas Dzakiy, S.Si, M.Sc; Reni Rakhmawati, S.Pd, M.Pd
6	Biology Learning Strategies	Dr. Fenny Roshayanti, S.Pd M.Pd.; Atip Nurwahyunani, S.Si, S.Pd, M.Pd
7	Animal Physiology	Dr. Mei Sulistyoningsih, M.Si; Reni Rakhmawati, S.Pd, M.Pd
8	Cell Biology	Reni Rakhmawati, S.Pd, M.Pd.; Lussana Rosita Dewi, S.Si, M.Pd.
9	Development of Science Curriculum	Dr. Eny Hartadiyati, MSi, Med. ; Dr. Sumarno, M.Pd
10	Strategic and Marketing Analysis	Dr. Mei Sulistyowati, S.Si, M.Si.

11	Human Resource Management	Dr. Mei Sulistyowati, S.Si, M.Si.
12	Biology Learning Assessment	Dr. Prasetyo., M.Pd; Ipah Budi Minarti, S.Pd, M.Pd
13	Advanced Human Anatomy and Physiology	Dr. Fenny Roshayanti, S.Pd M.Pd.; Fibria Kaswinarni, S.Si, M.Si.
14	Evolution	Reni Rakhmawati, S.Pd, M.Pd; Praptining Rahayu, M.Pd
15	Microteaching	Eko Retno Mulyaningrum, M.Pd.; Dr. Syaipul Hayat, M.Pd
16	Environmental Science	Dr. Ling. Maria Ulfa, M.Pd; Fibria Kaswinarni, S.Si, M.Si
17	Fishery Cultivation	Praptining Rahayu, S.Si, M.Pd; Atip Nurwahyunani, M.Pd
18	Biotechnology	Prof. Dr. Endah Rita S.D., S.Si, M.Si; Atip Nurwahyunani, M.Pd.
19	Biology Seminar	Eko Retno Mulyaningrum S.Pd., M.Pd. dan Praptining Rahayu, S.Si., M.Pd
20	Scientific Publication	Lussana Rosita Dewi, S.Si, M.Pd.
21	Orchid Cultivation	Dr. Ling Maria Ulfa, M.Pd.; Rivanna Citraning Rachmawati, S.Si.,M.Pd
22	Microbiology	Atip Nur Wahyunani, M.Pd.; Prof. Dr. Endah Rita, M.Si

The scoring system used a percentage-based review result. The achievement percentage for each principle was calculated based on the level of indicator fulfillment in the reviewed examination documents. The category of achievement was determined using the criteria presented in Table 2.

Table 2. Achievement Category of Assessment Document Review

Percentage Range	Category	Description
85%–100%	Excellent	The assessment document fulfills almost all quality principles and is suitable for use.
70%–84%	Good	The assessment document generally fulfills the quality principles but requires improvement in several aspects.
55%–69%	Fair	The assessment document fulfills some quality principles but needs significant improvement.
40%–54%	Poor	The assessment document requires major revision.
< 40%	Very Poor	The assessment document is not suitable for use and requires comprehensive revision.

D. REVIEW INDICATORS AND SCORING RUBRIC

The review instrument used five main principles of assessment quality. These principles were applied to both Mid-Term Examination and Final Examination documents so that the review results could be analyzed separately and compared.

Table 3. Review Indicators of Assessment Documents

No.	Principle	Review Focus	Description
1	Validity Principle	Content validity and face validity	The examination questions are aligned with course materials, the Semester Learning Plan, and learning outcomes. The questions are also presented in a clear, neat, readable, and understandable format.
2	Educational Principle	Educational value of assessment	The examination questions encourage students to improve their learning planning, learning strategies, and achievement of learning outcomes.
3	Authentic Principle	Authenticity of assessment	The examination questions reflect students' actual competencies and are connected to the continuous learning process.
4	Objective Principle	Objectivity of assessment	The examination questions and scoring criteria are based on clear standards and minimize subjective bias.
5	Accountable Principle	Accountability of assessment	The examination documents include clear procedures, instructions, criteria, scoring guidelines, answer keys, and assessment rubrics.

The Validity Principle consists of content validity and face validity. Content validity refers to the alignment between examination questions, course materials, the Semester Learning Plan, and learning outcomes. Face validity refers to the clarity of the question format, layout, language, and readability.

The Educational Principle refers to the extent to which examination questions encourage students to improve their learning planning and learning strategies and support the achievement of learning outcomes. The Authentic Principle refers to the extent to which examination questions reflect students' competencies developed during the learning process and relate to meaningful academic or contextual tasks.

The Objective Principle refers to the extent to which assessment is based on clear standards and is free from subjective bias. Meanwhile, the Accountable Principle refers to the availability of clear examination procedures, instructions, scoring guidelines, answer keys, and assessment criteria that can be understood by students.

E. RESULTS OF MID-TERM EXAMINATION DOCUMENT REVIEW

1. General Recapitulation of Mid-Term Examination Review

The Mid-Term Examination document review was conducted from April 14 to April 26, 2025, on 25 examination documents submitted by course lecturers. The review was based on five assessment quality principles, namely validity, educational value, authenticity, objectivity, and accountability.

The overall achievement of the Mid-Term Examination document review was 91.00%, which was categorized as Excellent. This indicates that the Mid-Term Examination documents generally fulfilled the expected assessment quality principles.

The highest achievement in the Mid-Term Examination review was found in the Objective Principle, reaching 93%. The lowest achievement was found in the Accountable Principle, reaching 88%. This indicates that the main area for improvement in the Mid-Term Examination documents was the completeness of examination instructions, scoring guidelines, assessment rubrics, answer keys, and accountable assessment procedures.

2. Indicator Achievement of Mid-Term Examination Review

Table 4. Results of Mid-Term Examination Document Review

No.	Assessment Quality Principle	Achievement	Category
1	Validity Principle	92%	Excellent
2	Educational Principle	90%	Excellent
3	Authentic Principle	91%	Excellent
4	Objective Principle	93%	Excellent
5	Accountable Principle	88%	Excellent
	Average	91%	Excellent

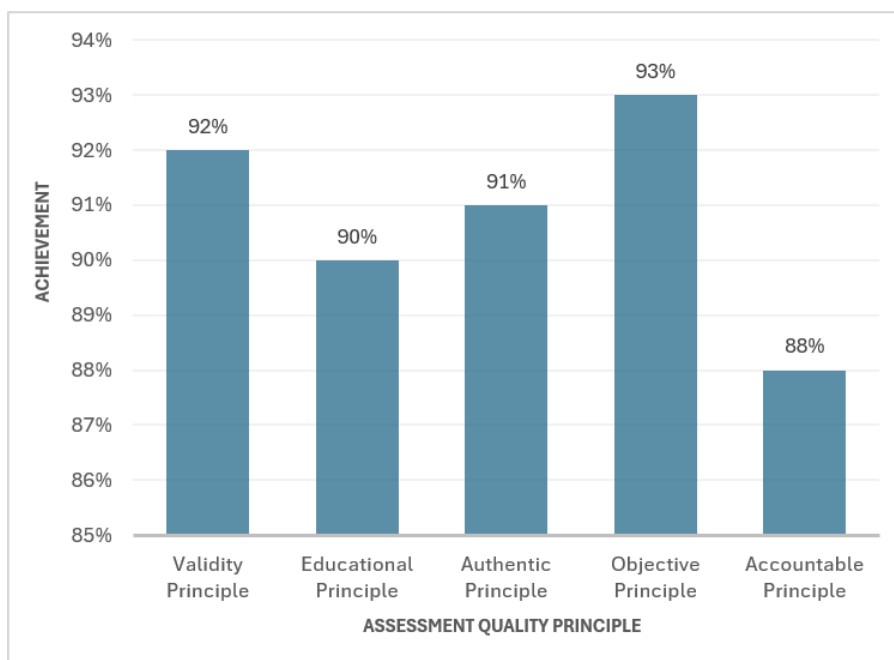


Figure 1. Achievement of Mid-Term Examination Review Indicators

3. Analysis of Mid-Term Examination Review Results

The Validity Principle achieved 92% and was categorized as Excellent. This result indicates that most Mid-Term Examination questions were aligned with the course materials, Semester Learning Plan, and learning outcomes. The questions were generally relevant to the topics taught during the first half of the semester.

The Educational Principle achieved 90% and was categorized as Excellent. This indicates that the Mid-Term Examination questions generally encouraged students to review, reflect on, and improve their learning strategies. However, several documents still needed stronger alignment between examination tasks and learning improvement orientation.

The Authentic Principle achieved 91% and was categorized as Excellent. This result shows that most Mid-Term Examination questions reflected students' competencies developed during the learning process. Some questions had already used contextual cases or problem-solving tasks, although not all documents showed strong authentic assessment characteristics.

The Objective Principle achieved 93% and was categorized as Excellent. This indicates that most Mid-Term Examination documents were based on clear assessment standards. The questions were generally structured to minimize subjective interpretation in scoring.

The Accountable Principle achieved 88% and was categorized as Good. This was the lowest achievement in the Mid-Term Examination review. The result indicates that some examination documents still needed improvement in terms of scoring guidelines, answer keys, assessment rubrics, and clear instructions for students.

4. Findings of Mid-Term Examination Review

The review results show that most Mid-Term Examination documents had good alignment with course materials and learning outcomes. Most examination questions were written clearly and presented in an understandable format.

Nevertheless, several Mid-Term Examination documents still needed improvement. Some documents required stronger authentic assessment elements, particularly in the use of contextual problems, case-based questions, and application-based tasks. In addition, several documents still needed clearer scoring guidelines, rubrics, answer keys, and instructions for students.

Based on these findings, the Accountable Principle became the main area for improvement in the Mid-Term Examination document review.

F. RESULTS OF FINAL EXAMINATION DOCUMENT REVIEW

1. General Recapitulation of Final Examination Review

The Final Examination document review was conducted from June 16 to June 28, 2025, on 22 examination documents submitted by course lecturers. The review was conducted separately from the Mid-Term Examination review because the Final Examination was conducted at the end of the semester and assessed broader course learning achievements.

The overall achievement of the Final Examination document review was 94.00%, which was categorized as Excellent. This result indicates an improvement compared to the Mid-Term Examination review.

The highest achievement in the Final Examination review was found in the Objective Principle, reaching 96%. The lowest achievement was found in the Accountable Principle, reaching 92%.

Although it remained the lowest indicator, the Accountable Principle improved significantly compared to the Mid-Term Examination review.

2. Indicator Achievement of Final Examination Review

Table 5. Results of Final Examination Document Review

No.	Assessment Quality Principle	Achievement	Category
1	Validity Principle	95%	Excellent
2	Educational Principle	94%	Excellent
3	Authentic Principle	94%	Excellent
4	Objective Principle	96%	Excellent
5	Accountable Principle	92%	Excellent
	Average	94%	Excellent

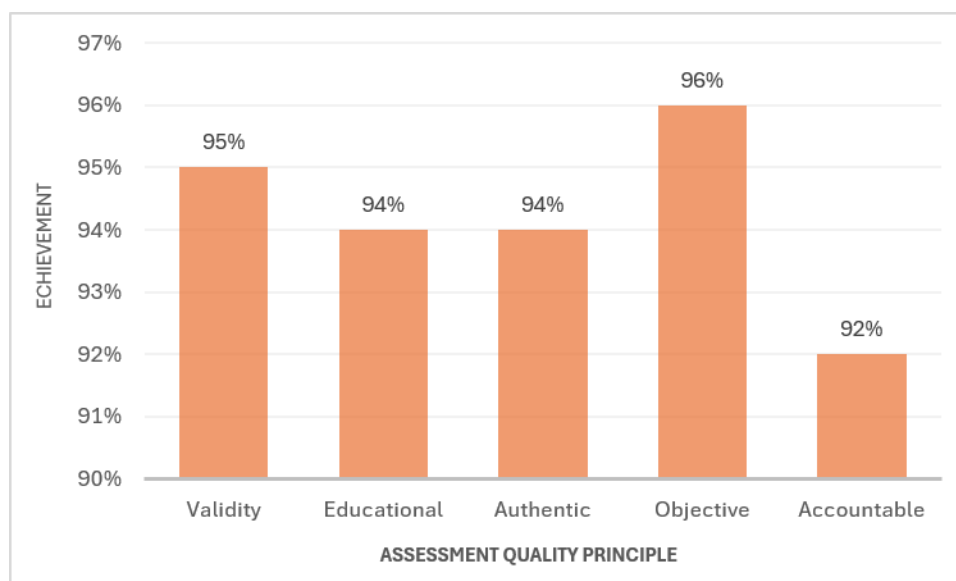


Figure 2. Achievement of Final Examination Review Indicators

3. Analysis of Final Examination Review Results

The Validity Principle achieved 95% and was categorized as Excellent. This indicates that the Final Examination questions were strongly aligned with the Semester Learning Plan, course materials, and learning outcomes. The increase from the Mid-Term Examination review shows that lecturers improved the alignment of examination questions with the overall course learning outcomes.

The Educational Principle achieved 94% and was categorized as Excellent. This indicates that the Final Examination questions supported students in demonstrating their learning achievement and encouraged deeper learning. The increase suggests that lecturers improved the educational function of assessment in the Final Examination documents.

The Authentic Principle achieved 94% and was categorized as Excellent. This shows that the Final Examination questions increasingly reflected authentic assessment characteristics, including contextual problems, application-based questions, analytical tasks, and problem-solving activities.

The Objective Principle achieved 96% and was categorized as Excellent. This was the highest achievement among all principles in the Final Examination review. The result indicates that the Final Examination documents had clearer assessment standards, better scoring criteria, and more objective evaluation structures.

The Accountable Principle achieved 92% and was categorized as Excellent. This result indicates improvement in the availability of instructions, procedures, scoring guidelines, answer keys, and assessment criteria. Although it still had the lowest achievement among the five principles, it showed significant progress compared to the Mid-Term Examination review.

4. Findings of Final Examination Review

The Final Examination documents showed stronger alignment with course learning outcomes compared to the Mid-Term Examination documents. The educational and authentic aspects of assessment also improved in the Final Examination documents.

Assessment objectivity improved through clearer question structure and scoring criteria. The accountable aspect also improved through better availability of instructions, scoring guidelines, answer keys, and assessment criteria. These findings indicate that lecturers followed several recommendations from the Mid-Term Examination review when preparing Final Examination documents.

G. COMPARISON BETWEEN MID-TERM AND FINAL EXAMINATION REVIEW RESULTS

The comparison between Mid-Term Examination and Final Examination review results shows an improvement in all assessment quality principles. The average achievement increased from 91.00% in the Mid-Term Examination review to 94.00% in the Final Examination review.

This improvement indicates that the feedback and recommendations from the Mid-Term Examination review were followed by course lecturers in preparing the Final Examination documents.

Table 6. Comparison of Mid-Term and Final Examination Review Results

No.	Assessment Quality Principle	Mid-Term Examination	Final Examination	Improvement
1	Validity Principle	92%	95%	+3%
2	Educational Principle	90%	94%	+4%
3	Authentic Principle	91%	94%	+3%
4	Objective Principle	93%	96%	+3%
5	Accountable Principle	88%	92%	+4%

	Average	91%	94%	+3%
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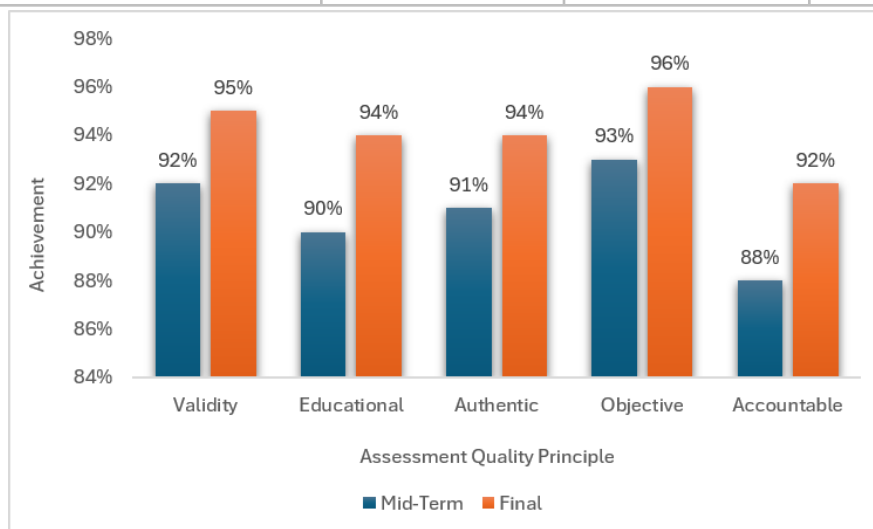


Figure 3. Comparison between Mid-Term and Final Examination Review Results

The highest improvement was found in the Accountable Principle, increasing by 3%. This improvement indicates better preparation of examination procedures, instructions, scoring guidelines, answer keys, and assessment criteria in the Final Examination documents.

The Educational Principle increased by 4%, indicating that the Final Examination questions were better designed to support students' learning achievement and reflection. The Authentic Principle increased by 3%, showing improvement in contextual, application-based, and problem-solving assessment tasks.

The Validity Principle 1% and Objective Principle each increased by 2%. These improvements indicate better alignment with learning outcomes and clearer assessment standards in the Final Examination documents.

H. CONCLUSION

Based on the monitoring and evaluation results, both Mid-Term Examination and Final Examination documents in the Biology Education Study Program for the Even Semester 2024/2025 were generally categorized as Excellent.

The Mid-Term Examination document review was conducted from Oct 14 to Oct 26, 2025, and achieved an average score of 91.00%. The highest achievement was found in the Objective Principle at 93%, while the lowest achievement was found in the Accountable Principle at 88%.

The Final Examination document review was conducted from Des 16 to Des 28, 2025, and achieved an average score of 94.00%. The highest achievement was found in the Objective Principle at 96%, while the lowest achievement was found in the Accountable Principle at 92%.

The review results showed improvement from the Mid-Term Examination to the Final Examination in all five assessment quality principles. The average achievement increased by 3.00%, from 91.00% to 94.00%. This improvement indicates that the recommendations from the Mid-Term Examination

review were followed by course lecturers in preparing the Final Examination documents, particularly in improving accountability, scoring guidelines, answer keys, and assessment criteria.

I. RECOMMENDATIONS

Course lecturers should maintain the alignment between examination questions, course materials, the Semester Learning Plan, and learning outcomes. The educational function of assessment should also be strengthened by designing examination questions that support students' learning reflection, learning improvement, and achievement of learning outcomes.

Course lecturers are encouraged to improve authentic assessment by incorporating contextual problems, case-based questions, application-based tasks, and problem-solving activities. Objectivity in assessment also needs to be maintained by providing clear question structures, assessment standards, answer keys, and scoring criteria.

The Accountable Principle needs continued attention. Examination documents should be completed with clear instructions, answer keys, scoring guidelines, assessment rubrics, and examination procedures. This is important to ensure that students understand the assessment criteria and that lecturers have clear references in conducting assessments.

The Quality Assurance Sub-Unit should continue reviewing Mid-Term Examination and Final Examination documents separately to ensure that each examination stage is properly monitored. The study program may also provide assistance or workshops related to assessment design, authentic assessment, scoring rubrics, and accountable examination procedures.

Follow-up actions from the Mid-Term Examination review should be documented and used as a basis for improving Final Examination documents. This practice is important to demonstrate continuous improvement in assessment quality assurance.

J. CLOSING

This Monitoring and Evaluation Report of Assessment Documents for Mid-Term Examination and Final Examination was prepared as part of the Internal Quality Assurance System of the Biology Education Study Program, Faculty of Mathematics Education, Natural Sciences, and Information Technology, Universitas PGRI Semarang.

The results of this monitoring and evaluation show that assessment documents in the Even Semester 2024/2025 were generally well prepared and suitable for use. The improvement from Mid-Term Examination to Final Examination indicates that assessment quality assurance was implemented as a continuous improvement process.

This report is expected to serve as a basis for academic reflection, quality improvement, and accreditation evidence related to assessment implementation in the Biology Education Study Program.

Semarang, September 17, 2025

Quality Assurance Sub-Unit

Biology Education Study Program

1. Atip NurWahyunani, M.Pd.
2. Dr. Eny Hartadiyati Wasikin H, M.Si.Med

APPENDICES

Appendix 1. Mid-Term Examination Document Review Instrument

Table 7. Mid-Term Examination Document Review Instrument

No.	Principle	Review Indicator	Evidence Reviewed
1	Validity Principle	The questions are aligned with course materials, the Semester Learning Plan, and learning outcomes.	Question paper, Semester Learning Plan, course learning outcomes
2	Educational Principle	The questions encourage students to improve learning planning and achievement.	Question structure, learning task orientation
3	Authentic Principle	The questions reflect students' actual competencies and learning process.	Contextual problems, case-based tasks, application questions
4	Objective Principle	The questions and scoring criteria are based on clear standards.	Scoring criteria, answer guidelines, marking scheme
5	Accountable Principle	The examination document includes clear instructions, procedures, and assessment criteria.	Examination instructions, scoring rubrics, procedures

Appendix 2. Mid-Term Examination Review Results by Course

Table 8. Mid-Term Examination Review Results by Course

No.	Course	Validity	Educational	Authentic	Objective	Accountable	Category
1	Basic Chemistry	88%	86%	87%	89%	85%	Excellent
2	Learner Development	93%	91%	92%	94%	90%	Excellent
3	Basic Biology	95%	93%	94%	96%	91%	Excellent
4	Foundations of Education	94%	92%	93%	95%	90%	Excellent
5	Laboratory Techniques	92%	90%	91%	93%	89%	Excellent
6	Biology Learning Strategies	91%	89%	90%	92%	88%	Excellent
7	Animal Physiology	96%	93%	94%	97%	92%	Excellent
8	Cell Biology	94%	92%	93%	95%	91%	Excellent
9	Development of Science Curriculum	89%	87%	88%	90%	86%	Excellent
10	Strategic and Marketing Analysis	93%	91%	92%	94%	90%	Excellent
11	Human Resource Management	83%	81%	82%	84%	78%	Good
12	Biology Learning Assessment	92%	90%	91%	93%	89%	Excellent

13	Advanced Human Anatomy and Physiology	95%	93%	94%	96%	91%	Excellent
14	Evolution	82%	80%	81%	83%	77%	Good
15	Microteaching	96%	93%	94%	97%	92%	Excellent
16	Environmental Science	94%	92%	93%	95%	90%	Excellent
17	Fishery Cultivation	83%	81%	82%	84%	78%	Good
18	Biotechnology	92%	90%	91%	93%	89%	Excellent
19	Biology Seminar	95%	93%	94%	96%	91%	Excellent
20	Scientific Publication	91%	89%	90%	92%	88%	Excellent
21	Orchid Cultivation	93%	91%	92%	94%	90%	Excellent
22	Microbiology	92%	90%	91%	93%	89%	Excellent
	Average	92%	90%	91%	93%	88%	Excellent

Appendix 3. Sample of Mid-Term Examination Validation Sheet

Table 9. Sample of Mid-Term Examination Validation Sheet

Component	Description
Course	Development of Science Curriculum
Course Lecturer	Dr. Eny Hartadiyati W.H., M.Si.Med
Examination Type	Mid-Term Examination
Academic Year	2024/2025
Review Period	November 14–26, 2025
Review Result	Needs minor improvement
Main Note	Scoring guidelines and accountable assessment criteria need to be clarified.
Reviewer	Quality Assurance Sub-Unit
Validation Status	Valid with minor revision

Appendix 4. Final Examination Document Review Instrument

Table 10. Final Examination Document Review Instrument

No.	Principle	Review Indicator	Evidence Reviewed
1	Validity Principle	The questions are aligned with overall course materials, the Semester Learning Plan, and learning outcomes.	Question paper, Semester Learning Plan, course learning outcomes
2	Educational Principle	The questions encourage students to demonstrate achievement of learning outcomes.	Question structure, learning achievement orientation
3	Authentic Principle	The questions reflect actual competencies and meaningful learning tasks.	Contextual problems, case-based tasks, application questions
4	Objective Principle	The questions and scoring criteria are based on clear and objective standards.	Scoring criteria, answer guidelines, marking scheme
5	Accountable Principle	The examination document includes clear procedures, instructions, rubrics, and scoring guidelines.	Examination instructions, scoring rubrics, procedures

Appendix 5. Final Examination Review Results by Course

Table 11. Final Examination Review Results by Course

No.	Course	Validity	Educational	Authentic	Objective	Accountable	Category
1	Basic Chemistry	92%	91%	92%	93%	89%	Excellent
2	Learner Development	95%	94%	95%	96%	92%	Excellent
3	Basic Biology	97%	96%	96%	98%	94%	Excellent
4	Foundations of Education	96%	95%	95%	97%	93%	Excellent
5	Laboratory Techniques	95%	94%	94%	96%	92%	Excellent
6	Biology Learning Strategies	94%	93%	93%	95%	91%	Excellent
7	Animal Physiology	98%	97%	97%	99%	95%	Excellent
8	Cell Biology	96%	95%	95%	97%	93%	Excellent
9	Development of Science Curriculum	93%	92%	93%	94%	90%	Excellent
10	Strategic and Marketing Analysis	96%	95%	95%	97%	93%	Excellent
11	Human Resource Management	88%	87%	88%	89%	86%	Excellent
12	Biology Learning Assessment	95%	94%	94%	96%	92%	Excellent

13	Advanced Human Anatomy and Physiology	97%	96%	96%	98%	94%	Excellent
14	Evolution	88%	87%	88%	89%	86%	Excellent
15	Microteaching	98%	97%	97%	99%	95%	Excellent
16	Environmental Science	96%	95%	95%	97%	93%	Excellent
17	Fishery Cultivation	88%	87%	88%	89%	86%	Excellent
18	Biotechnology	95%	94%	94%	96%	92%	Excellent
19	Biology Seminar	97%	96%	96%	98%	94%	Excellent
20	Scientific Publication	94%	93%	93%	95%	91%	Excellent
21	Orchid Cultivation	96%	95%	95%	97%	93%	
22	Microbiology	95%	94%	94%	96%	92%	
	Average	95%	94%	94%	96%	92%	Excellent

6. Appendix 6. Follow-Up Plan for Assessment Document Review

Table 12. Follow-Up Plan for Assessment Document Review

No.	Aspect	Finding	Follow-Up Plan	Person in Charge
1	Validity Principle	Some Mid-Term Examination questions needed stronger alignment with learning outcomes.	Review the alignment between questions, Semester Learning Plan, and learning outcomes before examination implementation.	Course Lecturers and Quality Assurance Sub-Unit
2	Educational Principle	Some questions needed stronger learning improvement orientation.	Provide guidance on constructing questions that support student reflection and learning achievement.	Study Program
3	Authentic Principle	Some questions needed more contextual and application-based tasks.	Conduct workshops on authentic assessment, case-based questions, and project-based assessment.	Study Program
4	Objective Principle	Some scoring criteria needed more detailed descriptions.	Require scoring guidelines or marking schemes for all examination documents.	Course Lecturers
5	Accountable Principle	Several Mid-Term Examination documents lacked complete rubrics and clear scoring procedures.	Standardize examination document templates including instructions, rubrics, answer keys, and scoring guidelines.	Quality Assurance Sub-Unit
6	Continuous Improvement	Final Examination documents improved after Mid-Term Examination review.	Document the follow-up actions from Mid-Term Examination review as evidence of quality improvement.	Quality Assurance Sub-Unit and Head of Study Program

