



Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Bachelor of Science Education Study Program

| Courses | | | CODE | | | C | ourse Fa | amily | | | Cred | it Weiç | ght | | SEMES | STER | Co | mpilation te |
|-------------------------------|--|---|----------------------------------|--------|---------|------------|-----------|----------|-------|---------|----------|-----------|-------------|----------|----------|-----------|--------|-----------------|
| Analysis of Sch | ool Science | | 842010200 | 5 | | | | | | | T=2 | P=0 | ECTS=3. | 18 | | 6 | Jul | y 18, 2024 |
| AUTHORIZATIO | N | | SP Develo | per | | | | | Co | ourse | Cluste | er Coo | rdinator | | Study | Progra | ım Cod | ordinator |
| | | | | | | | | | | | | | | | Pro | ıf. Dr. E | Erman, | M.Pd. |
| Learning model | Project Based Le | earnin | g | | | | | | 1 | | | | | <u> </u> | | | | |
| Program | PLO study prog | gram t | that is char | ged t | o the | course | | | | | | | | | | | | |
| Learning Outcomes (PLO) | PLO-5 | | onstrate scier ssional-relate | | | , and inn | ovative a | attitude | es in | integra | ated s | cience | learning, | labo | ratory a | activitie | s, and | |
| | PLO-9 | Work | effectively be | oth in | dividua | ally and i | n groups | , and I | nave | entrep | oreneu | ırial spi | irit and er | viro | nmenta | l aware | eness | |
| | PLO-10 | Desig | gn, implemen | t, and | evalu | ate scien | ce learn | ing usi | ing I | СТ | | | | | | | | |
| | Program Object | tives | (PO) | | | | | | | | | | | | | | | |
| | PO - 1 | Able t | to analyze va ulum. | rious | kinds | of natura | al pheno | mena | in ea | ach jur | nior hiç | gh scho | ool sciend | e to | pic acc | ording | to the | applicable |
| | PO - 2 | | to apply the ated manner | princi | ples/la | ws/theor | ies of v | arious | natu | ıral ph | enome | ena in | each jun | or h | igh sch | nool sc | ience | topic in ar |
| | PLO-PO Matrix | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | P.O | | PLC |)-5 | PL | .O-9 | | Р | LO-10 | | | | | | | |
| | | | PO-1 | | | | | | | | | | | | | | | |
| | | | PO-2 | | | | | | | | | | | | | | | |
| | | | | | | <u> </u> | | | | | | | | | | | | |
| | PO Matrix at the | e end | of each lea | rning | ı stag | e (Sub- | PO) | | | | | | | | | | | |
| | | _ | | 1 | | | | | | | | | | | | | | |
| | | | P.O | | | | | | | , | Wee | k | | | 1 | | | 1 |
| | | | | 1 | 2 | 3 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | PC | D-1 | | | | | | | | | | | | | | | |
| | | PC | D-2 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Short Course Description | Analysis of the Lectures are carri | | | | | | | | | ces (I | PA) C | ompet | encies, i | nclud | ding po | tential | misco | nceptions. |
| References | Main : | | | | | | | | | | | | | | | | | |
| | 2. Widodo, 3. Zubaidah 4. Zubaidah 5. Zubaidah 6. Zubaidah 7. Giancoli. 8. Giordano 9. Lucy T pr 10. Mc Graw | W., Rachmadiarti, F., Hidayati, S.N. 2016. Buku Siswa IPA Kelas VII. Jakarta: Kemdikbud. W., Rachmadiarti, F., Hidayati, S.N. 2016. Buku Guru IPA Kelas VII. Jakarta: Kemdikbud. , S. 2016. Buku Siswa IPA Kelas VIII. Jakarta: Kemdikbud. , S. 2016. Buku Guru IPA Kelas VIII. Jakarta: Kemdikbud. , S. 2016. Buku Siswa IPA Kelas IX. Jakarta: Kemdikbud. , S. 2016. Buku Guru IPA Kelas IX. Jakarta: Kemdikbud. C Douglas, 1998. Fisika Edisi Kelima Jilid 1. Jakarta: Erlangga , Nicholas J. 2010. College Physics: Reasoning and Relationship, First Edition. Canada: Nelson Education, Ltd ide. 2010. Environmental Chemistry an Introduction Cumming Publishing Company W Hill. 2005. The Nature Of Matter. Columbus: United States Of America g, M.S. 2006. Chemistry: The molecular Nature of Matter and Change fifth edition, Boston: McGrawaHill | | | | | | | | | | | | | | | | |
| | Supporters: | | | _ | _ | | _ | _ | | | _ | | | _ | | _ | | |
| | | | | | | | | | | | | | | | | | | |

| | Support lecturer | Dr. Mohammad E Laily Rosdiana, S | Budiyanto, S.Pd., M.Pd. | | | | | |
|---|---------------------|-------------------------------------|-------------------------|-----------------|---------------------|---|-----------------------|--------------------------|
| | Week- | | | uation | Learn Student | o Learning, ing methods, t Assignments, imated time] | Learning materials | Assessment Weight (%) |
| | | (Sub-PO) | Indicator | Criteria & Form | Offline (offline) | Online (online) | [References] | 0 () |
| ſ | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |

| 1.Able to identify the applicable science curriculum in schools 2.Able to understand several components contained in the science curriculum at school 3.Able to communicate the results of applicable curriculum analysis | 1.1. Students can differentiate the concepts of measurement, assessment and evaluation in science learning. 2.2. Students can identify the science curriculum in schools that applies in Indonesia 3.3. Students understand the components contained in the science curriculum | Criteria: You will get a score of A if: The KD analysis report contains verb analysis of teaching materials. Analysis of teaching materials contains all the concepts covered in the KD. Every time the quality decreases, the score will decrease. Form of Assessment: Participatory Activities | Students discuss: (1) the science curriculum that applies at school and (2) the components contained in the science curriculum. Students analyze Learning Achievements and develop Learning Objectives and Flow of Middle School Science Learning Objectives. 2 X 50 | Asynchronous via LMS Vinesa/Sidia 2 x 50 | Material: KD analysis, explanation of material according to KD analysis, and misconceptions about school science material (other library sources are used in learning). References: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: KD analysis, explanation of material according to KD analysis, and misconceptions in school science material. Library: Widodo, W., Rachmadiarti, F., Hidayati, SN 2016. Class VII Science Student Book. Jakarta: Ministry of Education and Culture. Material: KD analysis, and misconceptions in school science material. Reference: Zubaidah, S. 2016. Class VIII Science Teacher's Book. Jakarta: Ministry of Education and Culture. Material: KD analysis, and misconceptions in school science material. Reference: Zubaidah, S. 2016. Class VIII Science Teacher's Book. Jakarta: Ministry of Education and Culture. Material: KD analysis, and misconceptions in school science material. Reference: Zubaidah, S. 2016. Class VIII Science Teacher's Book. Jakarta: Ministry of Education and Culture. Material: KD analysis, and misconceptions in school science material. Reference: Zubaidah, S. 2016. Class VIII Science Teacher's Book. Jakarta: Ministry of Education and Culture. Material: KD analysis, and misconceptions in science material. Reference: Zubaidah, S. 2016. Class VIII Science Teacher's Book. Jakarta: Ministry of Education and Culture. | 5% |
|---|--|---|--|--|--|----|
| | | | | | Zubaidah, S. 2016. Class IX Science | |

| 2 | 1.Able to identify and | 1.4. Students are | Criteria: You will get an A if | Discuss: (1) science | Asynchronous via LMS Vinesa/Sidia | Material: KD analysis, | 5% |
|---|--|---|---|---------------------------------------|--------------------------------------|---------------------------------|----|
| | relate science concepts according to | able to identify science concepts | your product includes: KD analysis results, | concepts in the curriculum, (2) | 2 x 60' | explanation of material | |
| | competency 2.Able to prepare | according to the | description of the material, and | possible misconceptions | | according to KD analysis, | |
| | material concept maps according to | competencies in class VII | misconceptions that may arise | that occur in these concepts | | and misconceptions | |
| | competencies in | 2.5. Students are | Form of Assessment | | | about school science | |
| | the curriculum 3.Able to | able to relate several | : Participatory Activities | research articles, (3) | | material (other library sources | |
| | communicate the results of | material concepts from | | inquiry ideas to resolve | | are used in learning). | |
| | applicable curriculum analysis | the identification | | misconceptions, and (4) | | References: Anggraena, Y., | |
| | | results in Class VII | | compose a concept map | | et al. 2022. Learning and | |
| | | 3.6. Students are able to analyze | | with the group 2 X 50 [°] | | Assessment Guide - | |
| | | misconceptions that may occur | | | | Merdeka Curriculum. | |
| | | regarding science topics | | | | BSNP Ministry of Education, | |
| | | at school in | | | | Culture, Research and | |
| | | class VII 4.7. Students are | | | | Technology, Republic of | |
| | | able to design material | | | | Indonesia: Jakarta. | |
| | | concept maps according to | | | | Material: KD | |
| | | the competencies | | | | analysis, explanation of | |
| | | in the curriculum in | | | | material according to | |
| | | Class VII | | | | KD analysis, and | |
| | | | | | | misconceptions in school | |
| | | | | | | science material. | |
| | | | | | | Library: Widodo, W., | |
| | | | | | | Rachmadiarti, F., Hidayati, | |
| | | | | | | SN 2016. Class VII Science | |
| | | | | | | Student Book. Jakarta: | |
| | | | | | | Ministry of Education and | |
| | | | | | | Culture. | |
| | | | | | | Material: KD analysis, | |
| | | | | | | explanation of material | |
| | | | | | | according to KD analysis, | |
| | | | | | | and misconceptions | |
| | | | | | | in school science | |
| | | | | | | material. Reference: | |
| | | | | | | Zubaidah, S. 2016. Class | |
| | | | | | | VIII Science Teacher's | |
| | | | | | | Book. Jakarta: Ministry of | |
| | | | | | | Education and Culture. | |
| | | | | | | Material: KD | |
| | | | | | | analysis, explanation of | |
| | | | | | | material according to | |
| | | | | | | KD analysis, and | |
| | | | | | | misconceptions in school | |
| | | | | | | science material. | |
| | | | | | | Reference: Zubaidah, S. | |
| | | | | | | 2016. Class IX Science | |
| | | | | | | Student Book. Jakarta: | |
| | | | | | | Ministry of Education and | |
| | | | | | | Culture. | |

| 2 Lottes to identify the control process of the tollowing such to flowing such to identify and the control process of the control process | applicable science curiculum in 2-droise pages concepts concepts from it compensates in class in the curriculum in concepts from it destification results in Class as a concept in it is to the major in it is the concept from it identification results in Class as a concept in it is in the concept from it identification results in Class as a concept in it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it is in the it is in the concept from it i |
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| Education and Culture. | Jakarta: Ministry of Education and |

| 4 | 1.Able to identify and | 1.8. Students are | Criteria: | Presentation of | Asynchronous via LMS | Material: KD | 5% |
|---|--|--|---|---|---|---|-----|
| | relate science concepts according to competency 2. Able to prepare material concept maps according to competencies in the curriculum | able to identify science concepts according to the competencies in class VIII 2.9. Students are able to relate several material concepts from the identification results in Class VIII 3.10. Students are able to analyze misconceptions that may occur regarding science topics at school in class VIII 4.11. Students are able to design material concept maps according to the competencies in the curriculum in Class VIII | You will get an A if your product includes: KD analysis results, explanation of material according to the scope of KD or more, and possible misconceptions Form of Assessment: Participatory Activities | discussion results regarding: (1) science concepts in the curriculum, (2) possible misconceptions that occur in these concepts based on relevant research articles, (3) inquiry ideas to resolve misconceptions, and (4) compiling a concept map with the group in Class VIII 2 X 50' | Vinesa/Sidia 2 x 60' | analysis, explanation of material according to KD analysis, and misconceptions in school science material. Reference: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: KD analysis, explanation of material according to KD analysis, and misconceptions in school science material. Reference: Zubaidah, S. 2016. Class VIII Science Teacher's Book. Jakarta: Ministry of Education and | |
| 5 | 1. Able to identify and relate science concepts according to competency 2. Able to prepare material concept maps according to competencies in the curriculum | 1.8. Students are able to identify science concepts according to the competencies in class VIII 2.9. Students are able to relate several material concepts from the identification results in Class VIII 3.10. Students are able to analyze misconceptions that may occur regarding science topics at school in class VIII 4.11. Students are able to design material concept maps according to the competencies in the curriculum in Class VIII | Criteria: You will get an A if your product includes: KD analysis results, explanation of material according to the scope of KD or more, and possible misconceptions Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment | Presentation of discussion results regarding: (1) science concepts in the curriculum, (2) possible misconceptions that occur in these concepts based on relevant research articles, (3) inquiry ideas to resolve misconceptions, and (4) compiling a concept map with the group in Class VIII 2 X 50' | Asynchronous via LMS Vinesa/Sidia 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, and misconceptions in school science material. Reference: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: KD analysis, explanation of material according to KD analysis, and misconceptions in school science material. Reference: Zubaidah, S. 2016. Class VIII Science Teacher's Book. Jakarta: Ministry of Education and Culture. | 10% |

| 6 | 1.Able to identify and relate science concepts according to competency 2.Able to prepare material concept maps according to competencies in the curriculum | 1.12. Students are able to identify science concepts according to the competencies in class IX 2.13. Students are able to relate several material concepts from the identification results in Class IX 3.14. Students are able to analyze misconceptions that may occur regarding science topics at school in class IX 4.15. Students are able to design material concept maps according to the competencies in the curriculum in Class IX | Criteria: You will get an A if your product includes: KD analysis results, explanation of material according to the scope of KD or more, and possible misconceptions Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment | Presentation of discussion results regarding: (1) science concepts in the curriculum, (2) possible misconceptions that occur in these concepts based on relevant research articles, (3) inquiry ideas to resolve misconceptions, and (4) compiling a concept map with the group in Class IX 2 X 50' | Asynchronous via LMS Vinesa/Sidia 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, and misconceptions in school science material. Reference: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: KD analysis, explanation of material according to KD analysis, and misconceptions in school science material. Reference: Zubaidah, S. 2016. Class IX Science Student Book. Jakarta: Ministry of Education and Culture. | 10% |
|---|--|--|---|---|---|---|-----|
| 7 | 1. Able to identify and relate science concepts according to competency 2. Able to prepare material concept maps according to competencies in the curriculum | 1.12. Students are able to identify science concepts according to the competencies in class IX 2.13. Students are able to relate several material concepts from the identification results in Class IX 3.14. Students are able to analyze misconceptions that may occur regarding science topics at school in class IX 4.15. Students are able to design material concept maps according to the competencies in the curriculum in Class IX | Criteria: You will get an A if your product includes: KD analysis results, explanation of material according to the scope of KD or more, and possible misconceptions Form of Assessment: Project Results Assessment / Product Assessment | Presentation of discussion results regarding: (1) science concepts in the curriculum, (2) possible misconceptions that occur in these concepts based on relevant research articles, (3) inquiry ideas to resolve misconceptions, and (4) compiling a concept map with the group in Class IX 2 X 50' | Asynchronous via LMS Vinesa/Sidia 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, and misconceptions in school science material. Reference: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: KD analysis, explanation of material according to KD analysis, and misconceptions in school science material. Reference: Zubaidah, S. 2016. Class IX Science Student Book. Jakarta: Ministry of Education and Culture. | 5% |

| | | Meetings 1 to 7 | Criteria: 1.That's right 100 2.Wrong, according to the degree of error. Form of Assessment : Test | Midterm Exam (UTS) 2 X 50' | | Library: | |
|---|--|--|---|---|---|--|----|
| 9 | Make strategic decisions based on data and information (including the results of input/ideas/ideas from colleagues/references) and provide ideas in selecting practicum activities that are relevant to the curriculum | 1.16. Students are able to utilize science and technology used in designing inquiry-based learning activities in junior high school 2.17. Students are able to identify inquiry-based learning activities that support competencies in the junior high school curriculum 3.18. Students are able to plan practicum activities that support competencies in the junior high school curriculum 4.19. Students are able to prepare worksheets (LKS/LKPD) according to the junior high school curriculum 4.19. Grunding to the junior high school curriculum | Criteria: Accuracy and mastery of knowledge/skills according to the assessment indicators in the assessment rubric Form of Assessment: Participatory Activities | Discuss inquiry-based science learning at junior high school level. Discuss learning activity ideas that can be applied in the form of inquiry-based Student Worksheets (LKPD) to overcome misconceptions in science learning in junior high schools. Students prepare inquiry-based LKPD/LKS individually. 2 X 50' | Asynchronous via LMS Vinesa/Sidia 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, misconceptions in school science material, and inquiry ideas in learning (other library sources are used in learning). References: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Giancoli. C Douglas, 1998. Physics Fifth Edition Volume 1. Jakarta: Erlangga Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reference: Giordano, Nicholas J. 2010. College Physics: Reasoning and Relationship, First Edition. Canada: Nelson Education, Ltd Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reference: Giordano, Nicholas J. 2010. College Physics: Reasoning and Relationship, First Edition. Canada: Nelson Education, Ltd Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Library: Mc Graww Hill. 2005. The Nature of Matter of Matterial: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Library: Mc Graww Hill. 2005. The Nature of Matter o | 5% |

| | | | | | school science learning. Reader: Silberberg, MS 2006. Chemistry: The molecular Nature of Matter and Change fifth edition, Boston: McGrawaHill Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Lucy T pride. 2010. Environmental Chemistry an Introduction Cumming Publishing Company | |
|-------------------------------------|--|--|--|---|--|----|
| (including) of input/ide from | based on information the results eas/ideas s/references) de ideas in oracticum hat are o the | assessment indicators in the assessment rubric Form of Assessment: Participatory Activities | Presentation of: (1) learning activity ideas that can be applied in the form of inquiry- based Student Worksheets (LKPD) to overcome misconceptions in science learning in junior high schools, and (2) LKPD/LKS that have been prepared 2 X 50' | Asynchronous via LMS Vinesa/Sidia 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, misconceptions in school science material, and inquiry ideas in learning (other library sources are used in learning). References: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Giancoli. C Douglas, 1998. Physics Fifth Edition Volume 1. Jakarta: Erlangga Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reference: Giordano, Nicholas J. 2010. College Physics: Reference: Giordano, Nicholas J. 2010. College Physics: Resoning and Relationship, First Edition. Canada: Nelson Education, Ltd Material: Preparation of inquiry-based | 5% |

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|----|--|---|--|--|---|--|----|
| 11 | Make strategic decisions based on data and information (including the results of input/ideas/ideas from colleagues/references) and provide ideas in selecting practicum activities that are relevant to the curriculum | 1.16. Students are able to utilize science and technology used in designing inquiry-based learning activities in Class VII 2.17. Students are able to identify inquiry-based learning activities that support competencies in the curriculum in Class VII 3.18. Students are able to plan practicum activities that support competencies in the curriculum in Class VII 4.19. Students are able to prepare worksheets (LKS/LKPD) according to the curriculum in Class VII 5.20. Students are able to carry out experiments according to the Class VII Worksheets (LKS/LKPD) created | Criteria: Accuracy and mastery of knowledge/skills according to the assessment indicators in the assessment rubric Form of Assessment: Participatory Activities | Presentation of: (1) learning activity ideas that can be applied in the form of inquiry- based Student Worksheets (LKPD) to overcome misconceptions in science learning in junior high schools, and (2) LKPD/LKS that have been prepared 2 X 50' | Asynchronous via LMS Vinesa/Sidia 2 x 60' | edition, Boston: McGrawaHill Material: KD analysis, explanation of material according to KD analysis, misconceptions in school science material, and inquiry ideas in learning (other library sources are used in learning). References: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Giancoli. C Douglas, 1998. Physics Fifth Edition Volume 1. Jakarta: Erlangga Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Giancoli. C Douglas, 1998. Physics Fifth Edition Volume 1. Jakarta: Erlangga | 5% |

| | | | | | | school science learning. Reference: Giordano, Nicholas J. 2010. College Physics: Reasoning and Relationship, First Edition. Canada: Nelson Education, Ltd Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Lucy T pride. 2010. Environmental Chemistry an Introduction Cumming Publishing Company Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Library: Mc Graww Hill. 2005. The Nature of Matter. Columbus: United States Of America Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Library: Mc Graww Hill. 2005. The Nature of Matter. Columbus: United States Of America Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Silberberg, MS 2006. Chemistry: The molecular Nature of Matter and Change fifth edition, Boston: McGrawaHill | |
|----|--|--|---|---|---|---|-----|
| 12 | Make strategic decisions based on data and information (including the results of input/ideas/ideas from colleagues/references) and provide ideas in selecting practicum activities that are relevant to the curriculum | 1.16. Students are able to utilize science and technology used in designing inquiry-based learning activities in Class VII 2.17. Students are able to identify inquiry-based learning activities that support competencies in the curriculum in Class VII 3.18. Students are able to plan practicum activities that support competencies in the curriculum in Class VII 3.18. Students are able to plan practicum activities that support competencies in the curriculum in Class VII 4.19. Students are able to prepare | Criteria: Accuracy and mastery of knowledge/skills according to the assessment indicators in the assessment rubric Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment | Students revise inquiry-based worksheets (LKPD/LKS) for science subjects according to the Independent Curriculum for Middle School Level. Students discuss with the lecturer regarding LKPD/LKS which have been prepared and revised according to the results of the discussion. Students try out the revised LKPD/LKS. 2 X 50' | Asynchronous via LMS Vinesa/Sidia 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, misconceptions in school science material, and inquiry ideas in learning (other library sources are used in learning). References: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. Material: Preparation of | 10% |

| | | worksheets (LKS/LKPD) according to the curriculum in Class VII 5.20. Students are able to carry out experiments according to the Class VII Worksheets (LKS/LKPD) created | | | | inquiry-based LKPD/LKS in junior high school science learning. Reader: Giancoli. C Douglas, 1998. Physics Fifth Edition Volume 1. Jakarta: Erlangga Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Lucy T pride. 2010. Environmental Chemistry an Introduction Cumming Publishing Company | |
|----|--|---|--|--|---|--|-----|
| | | | | | | Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reference: Giordano, Nicholas J. 2010. College Physics: Reasoning and Relationship, First Edition. Canada: Nelson Education, Ltd | |
| | | | | | | Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Library: Mc Graww Hill. 2005. The Nature of Matter. Columbus: United States Of America | |
| | | | | | | Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reader: Silberberg, MS 2006. Chemistry: The molecular Nature of Matter and Change fifth edition, Boston: McGrawaHill | |
| 13 | Make strategic decisions based on data and information (including the results of input/ideas/ideas from colleagues/references) and provide ideas in selecting practicum activities that are relevant to the curriculum | 1.16. Students are able to utilize science and technology used in designing inquiry-based learning activities in Class VII 2.17. Students are able to identify inquiry-based learning | Criteria: Accuracy and mastery of knowledge/skills according to the assessment indicators in the assessment rubric Form of Assessment : Project Results Assessment / Product Assessment | Students revise inquiry-based worksheets (LKPD/LKS) for science subjects according to the Independent Curriculum for Middle School Level. Students discuss with the lecturer regarding | Asynchronous via LMS Vinesa/Sidia 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, misconceptions in school science material, and inquiry ideas in learning (other library sources are used in learning). | 10% |

| activities that |
|-----------------------------|
| support |
| competencies |
| in the |
| curriculum in |
| Class VII |
| 3.18. Students |
| are able to plan |
| practicum |
| activities that |
| support |
| competencies |
| in the |
| curriculum in |
| Class VII 4.19. Students |
| are able to |
| prepare |
| worksheets |
| (LKS/LKPD) |
| according to |
| the curriculum |
| in Class VII |
| 5.20. Students |
| are able to |
| carry out |
| experiments |
| according to |
| the Class VII |
| Worksheets |
| (LKS/LKPD) |
| created |
| |
| |
| |
| |

LKPD/LKS which have been prepared and revised according to the results of the discussion. Students try out the revised LKPD/LKS. 2 X 50' References:
Anggraena, Y.,
et al. 2022.
Learning and
Assessment
Guide Merdeka
Curriculum.
BSNP Ministry
of Education,
Culture,
Research and
Technology,
Republic of
Indonesia:
Jakarta.

Material:
Preparation of inquiry-based LKPD/LKS in junior high school science learning.
Reader:
Giancoli. C Douglas, 1998.
Physics Fifth Edition Volume 1. Jakarta:
Erlangga

Material:
Preparation of inquiry-based LKPD/LKS in junior high school science learning.
Reader: Lucy T pride. 2010. Environmental Chemistry an Introduction Cumming Publishing

Company

Material: Preparation of inquiry-based LKPD/LKS in junior high school science learning. Reference: Giordano, Nicholas J. 2010. College Physics: Reasoning and Relationship, First Edition. Canada: Nelson Education, Ltd

Material:
Preparation of inquiry-based LKPD/LKS in junior high school science learning.
Reader:
Silberberg, MS 2006.
Chemistry: The molecular Nature of Matter and Change fifth edition, Boston:
McGrawaHill

Material:
Preparation of inquiny-based LKPD/LKS in junior high school science learning.
Library: Mc Graww Hill. 2005. The Nature of Matter.
Columbus:

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| | | | | | | Of America | |
| 14 | Make strategic decisions based on data and information (including the results of input/ideas/ideas from colleagues/references) and provide ideas in selecting practicum activities that are relevant to the curriculum | 1.16. Students are able to utilize science and technology used in designing inquiry-based learning activities in junior high school 2.17. Students are able to identify inquiry-based learning activities that support competencies in the S curriculum 3.18. Students are able to plan practicum activities that support competencies in the S curriculum in Class VII 4.19. Students are able to prepare worksheets (LKS/LKPD) according to the curriculum in Class VII 5.20. Students are able to carry out experiments according to the Class VII Worksheets (LKS/LKPD) created | Criteria: Accuracy and mastery of knowledge/skills according to the assessment indicators in the assessment rubric Form of Assessment: Project Results Assessment / Product Assessment | Presentation about LKPD/LKS that has been prepared and created. 2 X 50' | Asynchronous via LMS Vinesa/Sidia: Students provide comments and suggestions on LKPD/LKS created by their classmates in the Discussion feature available on Week 14. 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, misconceptions in school science material, and inquiry ideas in learning (other library sources are used in learning). References: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. | 10% |

| 15 | Make strategic decisions based on data and information (including the results of input/ideas/ideas from colleagues/references) and provide ideas in selecting practicum activities that are relevant to the curriculum | 1.16. Students are able to utilize science and technology used in designing inquiry-based learning activities in Class VII 2.17. Students are able to identify inquiry-based learning activities that support competencies in the curriculum in Class VII 3.18. Students are able to plan practicum activities that support competencies in the curriculum in Class VII 4.19. Students are able to plan practicum in Class VII 4.19. Students are able to prepare worksheets (LKS/LKPD) according to the curriculum in Class VII 5.20. Students are able to carry out experiments according to the Class VII Worksheets (LKS/LKPD) created | Criteria: Accuracy and mastery of knowledge/skills according to the assessment indicators in the assessment rubric Form of Assessment: Project Results Assessment / Product Assessment | Presentation about LKPD/LKS that has been prepared and created. 2 X 50' | Asynchronous via LMS Vinesa/Sidia: Students provide comments and suggestions on LKPD/LKS created by their classmates in the Discussion feature available on Week 14. 2 x 60' | Material: KD analysis, explanation of material according to KD analysis, misconceptions in school science material, and inquiry ideas in learning (other library sources are used in learning). References: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. | 10% |
|----|--|--|---|---|--|--|-----|
| 16 | | SubCPMK Meetings 1 to 15 | Criteria: Accuracy and mastery according to the UAS assessment indicators (assessment rubric). Form of Assessment : Test | Final Exam Semester 2 x 50 minutes | | Material: Meeting material 1 to 15 References: Anggraena, Y., et al. 2022. Learning and Assessment Guide - Merdeka Curriculum. BSNP Ministry of Education, Culture, Research and Technology, Republic of Indonesia: Jakarta. | 0% |

Evaluation Percentage Recap: Project Based Learning

| Evaluation Fercentage Recap. Froject Based Learning | | | | |
|---|---|------------|--|--|
| No | Evaluation | Percentage | | |
| 1. | Participatory Activities | 50% | | |
| 2. | Project Results Assessment / Product Assessment | 50% | | |
| | | 100% | | |

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program
 graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program
 obtained through the learning process.
- 2. The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on

predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.

- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- 9. Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and subtopics.
- The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
 TM=Face to face, PT=Structured assignments, BM=Independent study.