

**MODULE PORTFOLIO**  
**EVEN SEMESTER ACADEMIC YEAR 2019/2020**

MODULE NAME	: Philosophy of Mathematics Education	LECTURER:																
MODULE CODE	:																	
CLASS	: 2017																	
SEMESTER	: -																	
DATE	: 20 July 2020	Dr. Siti Khabibah, M.Pd.																
COURSE LEARNING OUTCOMES	<p><b>Programme Learning Outcomes (PLO)</b></p> <p><b>KNO-1</b> Able to demonstrate mathematical knowledge and insight.</p> <p><b>KNO-2</b> Able to demonstrate pedagogical knowledge in designing, implementing and evaluating Mathematics' learning.</p> <p><b>SKI-1</b> Able to design, implement and evaluate mathematics' teaching and learning by using ICT</p> <p><b>CLO-1</b> Understanding the important role and nature of mathematics, various views of mathematics, the truth and characteristics of mathematics.</p> <p><b>CLO-2</b> Understanding the important role of mathematical aesthetics, the position of mathematics in learning theory, and the basic principles in teaching and learning mathematics.</p> <p><b>CLO-3</b> Applying philosophical principles in learning and teaching mathematics.</p> <p style="text-align: center;"><b>Correlation Between PLO and CLO</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Philosophy of Mathematics Education</th> <th>KNO-1</th> <th>KNO-2</th> <th>SKI-1</th> </tr> </thead> <tbody> <tr> <td>CLO-1</td> <td style="text-align: center;">√</td> <td></td> <td></td> </tr> <tr> <td>CLO-2</td> <td></td> <td style="text-align: center;">√</td> <td></td> </tr> <tr> <td>CLO-3</td> <td></td> <td></td> <td style="text-align: center;">√</td> </tr> </tbody> </table>		Philosophy of Mathematics Education	KNO-1	KNO-2	SKI-1	CLO-1	√			CLO-2		√		CLO-3			√
Philosophy of Mathematics Education	KNO-1	KNO-2	SKI-1															
CLO-1	√																	
CLO-2		√																
CLO-3			√															
LEARNING STRATEGIES	: The Course is carried out by activating students with the following strategies: Lectures, Discussions, Presentations, and Individual Assignments																	

ASSESSMENT	<p>The assessment carried out during the course includes the following three components.</p> <ol style="list-style-type: none"> <li>1. Assignment</li> <li>2. Mid-term exam</li> <li>3. Final Exam</li> </ol> <p><b>1. Assignment</b></p> <ul style="list-style-type: none"> <li>✓ Assignments are given twice in one semester, before Mid-term Exam and after Mid-term Exam</li> <li>✓ The assignment before the Mid-term Exam is an independent / individual task in the form of a description of the materials that have been discussed before the Mid-term Exam as well as the quizzes after the Mid-term Exam related to the material studied after the Mid-term Exam</li> <li>✓ The quiz is held in the classroom for 100 minutes <ul style="list-style-type: none"> <li>✓ The presentation after the Mid-term Exam is an individual assignment in the form of a presentation about the materials in that semester.</li> <li>✓ The presentation after the Mid-term Exam is an individual assignment in the form of a presentation about the materials in that semester.</li> </ul> </li> <li>✓ Assessment of assignments is carried out to see the achievements of the PLO and CLO that are in accordance with the characteristics of the Philosophy of Mathematics Education course.</li> </ul> <p><b>2. Mid-term exam</b></p> <ul style="list-style-type: none"> <li>✓ Mid-term exam is held at the 8th meeting.</li> <li>✓ Mid-term exam is held in class with 100 minutes of implementation time according to the class schedule.</li> <li>✓ Mid-term exam is conducted to see the achievements of the PLO and CLO that correspond to the characteristics of Philosophy of Mathematics Education courses.</li> </ul>
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### 3. Final Exam

- ✓ The final exam is held at the 16th meeting.
- ✓ The final exam is carried out in the classroom in the form of presenting the results of the efforts made. Final exam is carried out following the UAS implementation schedule of the department and the assessment is based on an assessment rubric.
- ✓ The final exam is conducted to see the achievements of the PLO and CLO which correspond to the characteristics of Philosophy of Mathematics Education courses.

#### Assessmen Plan

Philosophy of Mathematics Education	KNO-1	KNO-2	SKI-1
CLO-1	Assignment, mid-term test, final test		
CLO-2		Assignment, mid-term test, final test	
CLO-3			Assignment, mid-term test, final test

#### Weight of Test Ability

Philosophy of Mathematics Education	KNO-1 (%)	KNO-2 (%)	SKI-1 (%)
Assignment	33.3	33.3	33.3
Mid-term test	40	60	0
Final test	20	40	40

#### The Calculation of PLO's Weight

	<b>P</b>	<b>T</b>	<b>UTS</b>	<b>UAS</b>	
<b>Bobot</b>	<b>0</b>	<b>0.3</b>	<b>0.2</b>	<b>0.3</b>	
KNO-1	0	0.099	0.08	0.06	<b>0.239</b>
KNO-2	0	0.099	0.12	0.12	<b>0.339</b>
SKI-1	0	0.102	0	0.12	<b>0.222</b>
	<b>0</b>	<b>0.3</b>	<b>0.2</b>	<b>0.3</b>	<b>0.8</b>

LEARNING  
OUTCOMES

The Calculation of PLO for each students

NO	NIM	STUDENT NAME	SCORE OF PLO		
			KNO-1	KNO-2	SKI-1
1	16030174054	SONIA HARI AGATHA	59.32	53.27	54.35
2	17030174001	NUR HIDAYATUL HIKMAH	73.03	69.42	67.16
3	17030174003	AMELIA SURYANINGSIH	77.12	73.84	71.78
4	17030174004	RIZCHA HANDINI SETIANI	64.68	60.05	59.84
5	17030174006	FIRDAUSIN NUZULA	73.69	69.59	68.00
6	17030174007	NUR MUFIDAH AN NURMA	71.69	67.59	66.00
7	17030174009	ELINA AGUSTIN	70.19	65.88	63.92
8	17030174011	MOKHAMMAD ABY HASAN	64.78	61.07	58.62
9	17030174012	NUR AINI	71.61	67.65	65.54
10	17030174014	MAYA FIRDAUSTITA HAWAI	80.81	78.50	75.11
11	17030174018	NITA ANDRIYANI	62.74	57.04	57.97
12	17030174020	HAQQI HIDAYATULLAH	66.59	61.28	59.05
13	17030174021	MUHAMMAD AMINUDDIN ZULFI	58.26	53.76	53.38
14	17030174023	GERIN SUKMA TAHARA	66.03	61.95	60.00
15	17030174025	AGUNG PRASETYO	89.16	88.23	84.59
16	17030174027	FRANSISCA RETNO GUSNIAWATI	73.95	70.42	68.70
17	17030174028	SITI MUNAWAROH	66.34	60.93	58.51
18	17030174029	DWI PERMATASARI	82.39	80.21	76.65

19	17030174032	MUHAMMAD NANANG FERDIANSYAH	80.79	77.61	73.78
20	17030174064	MAURA NOVERIENDA ARMELIA	64.18	59.82	58.92
21	17030174065	WINDA PUTRI AYU KUSUMA WURDANI	75.31	72.80	69.03
22	17030174066	CHYNTIA DEWI PUSPITA RINI	71.18	66.41	64.76
23	17030174067	KARTIKA CANDRA NUSA PUTRI SADEWA	64.68	60.05	59.84
24	17030174068	JULIA AYU WULANDARI	71.12	67.84	65.78
25	17030174069	ERINA APRILIA SUSANTI	76.39	74.21	70.65
26	17030174070	RIMA MAISYAH RIDWANAH	61.19	57.30	56.08
27	17030174071	PUSPITA ANGGRAINI S	77.79	74.55	71.78
28	17030174072	AIN PUTRI RUSTINI	70.69	66.30	61.84
29	17030174073	SETIA PUTRI AYU RAMADANI	72.45	68.72	66.62
30	17030174075	DWI NIKMATUL MASRUKHA	76.37	72.84	69.16
31	17030174076	RENOVA MI'ROJUL LAIL	59.77	55.53	54.46
32	17030174077	ANGGIETAS DAMANINGRUM	80.84	80.00	74.59
33	17030174078	ANGGA SETIAWAN ADI WIBOWO	68.34	62.99	59.51
34	17030174084	MUKHAMAD FARID	65.04	61.55	57.16
35	17030174033	HAMAM FAJAR NUR HARITS	72.26	72.83	72.70
36	17030174040	YAZID Wafa ASSALAFY	74.17	74.42	74.08
37	17030174041	VINA MILLAH MAZIYYAH	73.70	72.61	82.30
38	17030174056	MALIK ABDUL AZIS	74.46	72.96	79.59
39	17030174062	PRIZA TRI SETYA WICAKSANA	69.77	71.37	73.11
40	17030174080	SALSABILA SETIA INSANI	81.65	81.46	85.00
41	17030174086	LUTHFIA LAILI AYU NOVITASARI	83.72	82.92	87.30
42	17030174090	LIESKA MAULITA SHAMIMI	74.92	75.35	77.70
43	17030174092	LAILA TULJANNAH	79.34	80.19	81.32
44	17030174093	NABILAH KARTIKA SUKMAWATI	57.20	58.14	53.24
45	17030174094	MUHAMMAD FAISHAL 'AFWI RAMADHAN	69.33	68.58	65.68
46	17030174002	EKA ZULIA NINGTYAS	76.78	73.01	71.62
47	17030174005	TIGAS LAILA NURPRATIWI	86.67	85.58	80.51

48	17030174010	DYAH AYU KARINDRA OKTAVIANE	72.36	68.36	65.00
49	17030174013	ZUHADUR RA'IS ARIYONO PUTRA	86.08	84.88	79.97
50	17030174015	ILMUS SAMAWATI	76.80	74.03	70.95
51	17030174016	DYAH AYU PUSPITA ARDANI	83.74	82.04	77.81
52	17030174017	RATRI MURDY ANDARI	82.91	81.46	76.89
53	17030174022	YAFFI TIARA TRYMELYNDA	81.81	79.50	76.11
54	17030174024	SITI AISYAH NURLATIFAH	80.98	78.92	75.19
55	17030174026	ERLYANNA NUR RISQI	81.56	79.63	75.73
56	17030174030	ERISCA LUSY RUSDIANTI	87.34	87.12	82.84
57	17030174031	INTAN FATHIMAH AHMADAH	73.62	70.13	67.70
58	17030174034	ACHMAD LUTHFI ALVIANTO	61.90	55.97	56.89
59	17030174038	MUCHAMMAD KHAFITH OCTAFIAN PURNOMO	81.06	78.92	74.65
60	17030174039	FIRNANDA MUHARRIMA	70.02	65.88	65.00
61	17030174044	VICKY FIRDAUSI NUZULA	70.26	65.41	63.22
62	17030174046	MAR'ATUS SOLEHAH	76.71	73.55	71.32
63	17030174057	NURUL LAILI	77.64	75.09	72.03
64	17030174058	LAILI HIKMIYAH	39.12	35.84	33.78
65	17030174059	MAJIDATUL HIMMAH	82.15	80.63	79.43
66	17030174061	JIHAN NURILLA	70.69	66.59	65.00
67	17030174081	ANNISA NURUL HIDAYATI	86.99	85.75	83.51
68	17030174083	PARAMITA INTAN CAHYANI	70.69	66.59	65.00

NO	NIM	STUDENT NAME	PREDICATE OF PLO		
			KNO-1	KNO-2	SKI-1
1	16030174054	SONIA HARI AGATHA	S	F	F
2	17030174001	NUR HIDAYATUL HIKMAH	G	S	S
3	17030174003	AMELIA SURYANINGSIH	G	G	G
4	17030174004	RIZCHA HANDINI SETIANI	S	S	S
5	17030174006	FIRDAUSIN NUZULA	G	S	S

6	17030174007	NUR MUFIDAH AN NURMA	G	S	S
7	17030174009	ELINA AGUSTIN	G	S	S
8	17030174011	MOKHAMMAD ABY HASAN	S	S	S
9	17030174012	NUR AINI	G	S	S
10	17030174014	MAYA FIRDAUSTITA HAWAI	E	G	G
11	17030174018	NITA ANDRIYANI	S	S	S
12	17030174020	HAQQI HIDAYATULLAH	S	S	S
13	17030174021	MUHAMMAD AMINUDDIN ZULFI	S	F	F
14	17030174023	GERIN SUKMA TAHARA	S	S	S
15	17030174025	AGUNG PRASETYO	E	E	E
16	17030174027	FRANSISCA RETNO GUSNIAWATI	G	G	S
17	17030174028	SITI MUNAWAROH	S	S	S
18	17030174029	DWI PERMATASARI	E	E	G
19	17030174032	MUHAMMAD NANANG FERDIANSYAH	E	G	G
20	17030174064	MAURA NOVERIENDA ARMELIA	S	S	S
21	17030174065	WINDA PUTRI AYU KUSUMA WURDANI	G	G	S
22	17030174066	CHYNTIA DEWI PUSPITA RINI	G	S	S
23	17030174067	KARTIKA CANDRA NUSA PUTRI SADEWA	S	S	S
24	17030174068	JULIA AYU WULANDARI	G	S	S
25	17030174069	ERINA APRILIA SUSANTI	G	G	G
26	17030174070	RIMA MAISYAH RIDWANAH	S	S	S
27	17030174071	PUSPITA ANGGRAINIS	G	G	G
28	17030174072	AIN PUTRI RUSTINI	G	S	S
29	17030174073	SETIA PUTRI AYU RAMADANI	G	S	S
30	17030174075	DWI NIKMATUL MASRUKHA	G	G	S
31	17030174076	RENOVA MI'ROJUL LAIL	S	S	F
32	17030174077	ANGGIETIAS DAMANINGRUM	E	E	G
33	17030174078	ANGGA SETIAWAN ADI WIBOWO	S	S	S
34	17030174084	MUKHAMAD FARID	S	S	S

35	17030174033	HAMAM FAJAR NUR HARITS	G	G	G
36	17030174040	YAZID WAFA ASSALAFY	G	G	G
37	17030174041	VINA MILLAH MAZIYYAH	G	G	E
38	17030174056	MALIK ABDUL AZIS	G	G	G
39	17030174062	PRIZA TRI SETYA WICAKSANA	S	G	G
40	17030174080	SALSABILA SETIA INSANI	E	E	E
41	17030174086	LUTHFIA LAILI AYU NOVITASARI	E	E	E
42	17030174090	LIESKA MAULITA SHAMIMI	G	G	G
43	17030174092	LAILA TULJANNAH	G	E	E
44	17030174093	NABILAH KARTIKA SUKMAWATI	S	S	F
45	17030174094	MUHAMMAD FAISHAL 'AFWI RAMADHAN	S	S	S
46	17030174002	EKA ZULIA NINGTYAS	G	G	G
47	17030174005	TIGAS LAILA NURPRATIWI	E	E	E
48	17030174010	DYAH AYU KARINDRA OKTAVIANE	G	S	S
49	17030174013	ZUHADUR RA'IS ARIYONO PUTRA	E	E	G
50	17030174015	ILMUS SAMAWATI	G	G	G
51	17030174016	DYAH AYU PUSPITA ARDANI	E	E	G
52	17030174017	RATRI MURDY ANDARI	E	E	G
53	17030174022	YAFFI TIARA TRYMELYNDA	E	G	G
54	17030174024	SITI AISYAH NURLATIFAH	E	G	G
55	17030174026	ERLYANNA NUR RISQI	E	G	G
56	17030174030	ERISCA LUSY RUSDIANTI	E	E	E
57	17030174031	INTAN FATHIMAH AHMADAH	G	G	S
58	17030174034	ACHMAD LUTHFI ALVIANTO	S	S	S
59	17030174038	MUCHAMMAD KHAFITH OCTAFIAN PURNOMO	E	G	G
60	17030174039	FIRNANDA MUHARRIMA	G	S	S
61	17030174044	VICKY FIRDAUSI NUZULA	G	S	S
62	17030174046	MAR'ATUS SOLEHAH	G	G	G
63	17030174057	NURUL LAILI	G	G	G



64	17030174058	LAILI HIKMIYAH	F	F	F
65	17030174059	MAJIDATUL HIMMAH	E	E	G
66	17030174061	JIHAN NURILLA	G	S	S
67	17030174081	ANNISA NURUL HIDAYATI	E	E	E
68	17030174083	PARAMITA INTAN CAHYANI	G	S	S

E = Excellent, jika  $x \geq 80$   
G = Good, jika  $60 \leq x < 80$   
S = Satisfy, jika  $40 \leq x < 60$   
F = Fail, jika  $x < 40$

Dengan x adalah skor mahasiswa untuk setiap PLO

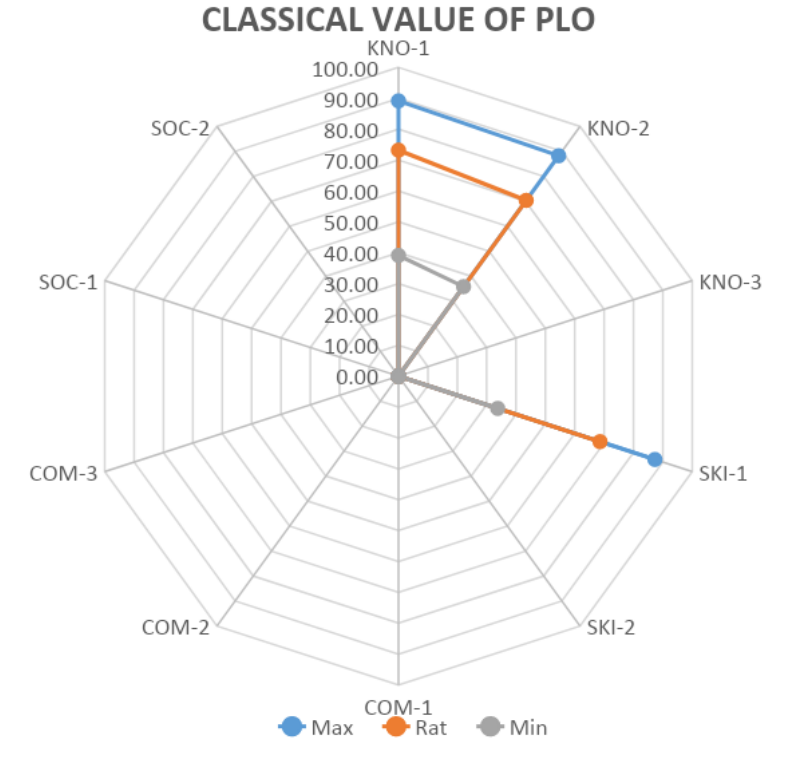
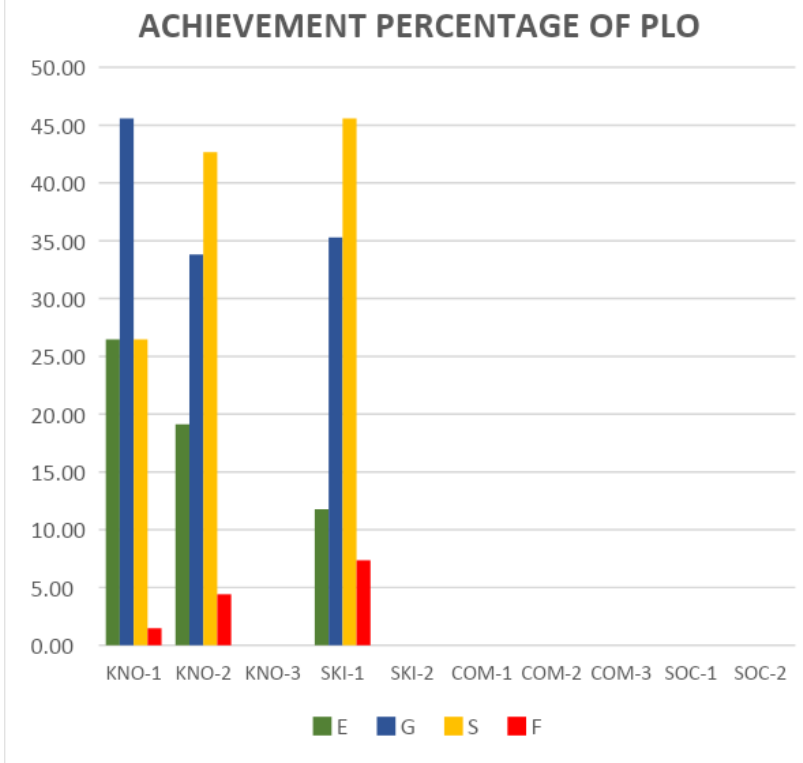
LEARNING  
OUTCOMES  
ANALYSIS

PLO Assessment Rubric					
PLO	Description	Excellent	Good	Satisfy	Fail
KNO-1	Able to demonstrate mathematical knowledge and insight.	Understand the important role and nature of mathematics, various views of mathematics, the truth and characteristics of mathematics with a minimum score of 80	Understand the important role and nature of mathematics, various views of mathematics, the truth and characteristics of mathematics with a score of at least 70 and less than 80	Understand the important role and nature of mathematics, various views of mathematics, the truth and characteristics of mathematics with a score of at least 55 and less than 70	Understand the important role and nature of mathematics, various views of mathematics, the truth and characteristics of mathematics with a score of less than 55

<b>KNO-2</b>	Able to demonstrate pedagogical knowledge in designing, implementing and evaluating Mathematics' learning.	Understand the important role of mathematical aesthetics, the position of mathematics in learning theory, and the basic principles in teaching and learning mathematics with a minimum score of 80	Understand the important role of mathematical aesthetics, the position of mathematics in learning theory, and the basic principles in teaching and learning mathematics with a score of at least 70 and less than 80	Understand the important role of mathematical aesthetics, the position of mathematics in learning theory, and the basic principles in teaching and learning mathematics with a score of at least 55 and less than 70	Understand the important role of mathematical aesthetics, the position of mathematics in learning theory, and the basic principles in teaching and learning mathematics with a score of less than 55
<b>SKI-1</b>	Able to design, implement and evaluate mathematics' teaching and learning by using ICT	Applying philosophical principles in learning and teaching mathematics with a minimum score of 80	Applying philosophical principles in learning and teaching mathematics with a score of at least 70 and less than 80	Applying philosophical principles in learning and teaching mathematics with a score of at least 55 and less than 70	Applying philosophical principles in learning and teaching mathematics with a score of less than 55

	CLASSICAL VALUE OF PLO		
	KNO-1	KNO-2	SKI-1
<b>Max</b>	89.16	88.23	87.30
<b>Rat</b>	73.19	70.37	68.61
<b>Min</b>	39.12	35.84	33.78
	ACHIEVEMENT NUMBER OF PLO		
<b>E</b>	18.00	13.00	8.00

<b>G</b>	31.00	23.00	24.00
<b>S</b>	18.00	29.00	31.00
<b>F</b>	1.00	3.00	5.00
	68.00	68.00	68.00
	<b>ACHIEVEMENT PERCENTAGE OF PLO (%)</b>		
<b>E</b>	26.47	19.12	11.76
<b>G</b>	45.59	33.82	35.29
<b>S</b>	26.47	42.65	45.59
<b>F</b>	1.47	4.41	7.35
	100.00	100.00	100.00



STUDENT'S LEARNING PERFORMANCE ANALYSIS :

From the table, it appears that the highest percentage of failure is achieved by PLO 3, namely Able to design, implement and evaluate mathematics' teaching and learning by using ICT (SKI-1). This shows that students master the material or theories given in the Philosophy of Mathematics Education course, but they are less able to apply the theories obtained in learning mathematics. This is probably because the material content in the Philosophy of Mathematics Education course has too many theories and lacks application.

RECOMMENDATION FOR FUTURE LEARNING :

- There are several things that are recommended for improvement for the next lecture, namely:
1. Reducing theoretical material, if possible, if not, it is necessary to find new strategies to be more efficient in lectures
  2. Adding material content which is the application of philosophical theory
  3. Increase the credit load for the Philosophy of Mathematics Education course

RECOMMENDATION FOR INSTITUTION	:	Recommendations given to institutions are to provide clear rules for the percentage of theoretical and applied / practical tuition loads
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