

MODULE PORTOFOLIO

ODD SEMESTER JULY-DESEMBER 2019/2020

MODULE NAME	Mathematics Learning Media	LECTURER
MODULE CODE	MAT1.61.5201	Trysa Gustya Manda, M.Pd
CLASS	2017	
SEMESTER	V	
DATE	08 January 2020	
COURSE LEARNING OUTCOMES	<p>Programme Learning Outcome (PLO)</p> <p>PLO 2 : Able to design innovative learning based on the concept of mathematics education and learning</p> <p>PLO 3 : Able to design mathematics learning media, both manipulative learning media and ICT-based learning media Able to produce innovative work, in the fields of education and entrepreneurship</p> <p>PLO 6 :</p> <p>PLO 10 : Able to show a responsible attitude in their own work and can be given responsibility for the achievement of group works</p> <p>Course Learning Outcome (CO)</p> <p>CO 1 : Developing mathematics learning media concept about notion of learning media, the role and function of learning media, types of learning media, planning and selection of instructional media, presentation techniques for learning media, and evaluation of instructional media, which is specifically for learning mathematics</p> <p>CO 2 : Designing mathematics learning media for primary and secondary education by utilizing the environment and technology.</p> <p>CO 3 : Presenting mathematics learning media for primary and secondary education</p> <p>CO 4 : Creating mathematics learning media concept which includes activities to design, create, use and evaluate mathematics learning media for primary and secondary education by utilizing the environment and technology.</p> <p>CO 5 : Showing the responsibility attitude in own works</p> <p>CO 6 : Maintaining the responsibility attitude in team works.</p>	

Correlation Between PLO and CO

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CO 1		√									
CO 2		√									
CO 3			√								
CO 4						√					
CO 5										√	
CO 6										√	

LEARNING STRATEGIES

Lectures, Tutorial Assignment, Individual Study, and Practice

ASSESSMENT

The assessment carried out during the lecture includes the following four components.

(1) Assignment, (2) Presentation, (3) Creativity, (4) Attendance and Participation

1. Assignment

- ✓ Assignments are given early semester as individual and group task and it is in form paper and presentation and it is assessed by rubric assessment
- ✓ Assignments are assessed based on mathematics learning media are made in the form of manipulative media and ICT-based media that are adapted to the School Curriculum
- ✓ One of the task assessments based on midterm test (UTS) scores was carried out at the 9th meeting which was conducted to measure students' understanding of the concept of mathematics learning media.

2. Presentation

- ✓ Presentation assessment is based on students' ability to explain and understand the learning media made including how to make and how to work

3. Creativity

- ✓ Assessment of creativity based on the creativity of the media created, it is assessed related to the content or materials used

4. Attendance and Participation

- ✓ Attendance and participation is an affective assessment and held in every meeting by observing students' attitude in

classroom and daily interaction at campus.

✓ The assessment based on observation sheet and it was given score by affective rubric assessment

Assessment Plan

	PLO 2	PLO 3	PLO 6	PLO 10
CO 1	Rubric assessment			
CO 2	Rubric assessment			
CO 3		Rubric assessment		
CO 4			Rubric assessment	
CO 5				Affective Assessment
CO 6				Affective Assessment

Weight of Test Ability

	Weight Value	Weight of Test Ability					
		PLO 2		PLO 3	PLO 6	PLO 10	
		CO1	CO2	CO3	CO4	CO5	CO6
Assignment	0,4	0,20	0,20	0,30	0,30		
Presentation	0,25	0,20	0,20	0,30	0,30		
Creativity	0,2	0,30	0,30	0,20	0,20		
Attendance and participation	0,15					0,60	0,40

The Calculation of PLO's Weight

Total of PLO's Weight					
PLO 2		PLO 3	PLO 6	PLO 10	
CO1	CO2	CO3	CO4	CO5	CO6

0,06	0,06	0,09	0,09		
0,06	0,06	0,09	0,09		
0,08	0,08	0,05	0,05		
				0,09	0,06
0,20	0,20	0,23	0,23	0,09	0,06

**LEARNING
OUTCOMES**

The Calculation PLO of Each Students

Students	PLO 2			PLO 3	PLO 6	PLO 10		
	CO1	CO2	Average	Average	Average	CO5	CO6	Average
A.D. Naila Fauziah	83.57	83.57	83.57	80.58	80.58	100.00	100.00	100.00
Ananda Putri	76.98	76.98	76.98	75.58	75.58	100.00	100.00	100.00
Annafi Sri Nanda	81.11	81.11	81.11	80.46	80.46	100.00	100.00	100.00
Della Frawidana	81.03	81.03	81.03	79.19	79.19	93.75	93.75	93.75
Fanny Elvi Mutiara Amri	79.92	79.92	79.92	77.56	77.56	100.00	100.00	100.00
Fintia Rahmi	79.84	79.84	79.84	78.61	78.61	93.75	93.75	93.75
Hazrina Hanifa	82.70	82.70	82.70	80.47	80.47	100.00	100.00	100.00
Kelly Angelly Hevardani	85.16	85.16	85.16	82.91	82.91	100.00	100.00	100.00
Latifa Redha Andriani	86.90	86.90	86.90	85.47	85.47	100.00	100.00	100.00
Mawaddah	82.30	82.30	82.30	82.21	82.21	100.00	100.00	100.00
Monalisa Pratiwi	87.30	87.30	87.30	84.88	84.88	100.00	100.00	100.00
Nur` Alawia	84.52	84.52	84.52	81.98	81.98	100.00	100.00	100.00

Rahmad Ramadhan	55.48	55.48	55.48	48.72	48.72	81.25	81.25	81.25
Resa Perlia Anjalina Sirait	79.68	79.68	79.68	79.53	79.53	100.00	100.00	100.00
Sovia Nada	82.70	82.70	82.70	80.47	80.47	93.75	93.75	93.75
Yuli Anggraini	85.95	85.95	85.95	84.07	84.07	87.50	87.50	87.50
ANISA YANTI EFENDI	86.90	86.90	86.90	85.47	85.47	93.75	93.75	93.75
FADILA EL HUSNA	86.11	86.11	86.11	83.14	83.14	100.00	100.00	100.00
MILA ASTARI	82.30	82.30	82.30	79.88	79.88	100.00	100.00	100.00
NELLA DWI PUTRI	84.76	84.76	84.76	82.33	82.33	93.75	93.75	93.75
ZAHARA ERMANDA PUTRI	82.14	82.14	82.14	80.81	80.81	87.50	87.50	87.50
AGNESA HANRAVIA	78.18	78.18	78.18	77.33	77.33	93.75	93.75	93.75
AULIA ADYTIA PUTRI	84.05	84.05	84.05	83.60	83.60	100.00	100.00	100.00
DESRI ELVIRA	75.63	75.63	75.63	73.60	73.60	100.00	100.00	100.00
HERFINDA OKTAVANI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NEVIN BELVIANDA	83.57	83.57	83.57	80.58	80.58	93.75	93.75	93.75
RAHMA YULVIRA	80.95	80.95	80.95	77.91	77.91	100.00	100.00	100.00
TRIA MAYA SARI	83.73	83.73	83.73	81.98	81.98	100.00	100.00	100.00
WAHYUNI AGUSTIN	84.68	84.68	84.68	83.37	83.37	100.00	100.00	100.00
ZAHID HAMIDI	83.33	83.33	83.33	82.56	82.56	93.75	93.75	93.75

ZEA ZISMAN USMAN	79.05	79.05	79.05	78.60	78.60	100.00	100.00	100.00
DEVA MARTHA	83.57	83.57	83.57	80.58	80.58	100.00	100.00	100.00
FADHLI ILHAM	85.87	85.87	85.87	83.95	83.95	93.75	93.75	93.75
FADLINA RUHAMA	84.92	84.92	84.92	83.72	83.72	93.75	93.75	93.75
M. IKBAL KHALID	84.68	84.68	84.68	82.21	82.21	87.50	87.50	87.50
MUTIA HANIFAH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RESSY FADHILA LERISMA	79.52	79.52	79.52	76.98	76.98	100.00	100.00	100.00
URI PUTRI RIANI	83.73	83.73	83.73	83.14	83.14	100.00	100.00	100.00
WENNY KURNIA	82.22	82.22	82.22	80.93	80.93	100.00	100.00	100.00
WINDRI AFELLA	83.57	83.57	83.57	80.58	80.58	100.00	100.00	100.00
YUDILA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZULFADLI TAMIMI SIREGAR	82.30	82.30	82.30	79.88	79.88	93.75	93.75	93.75
			76.21	74.42	74.42			89.88

The Predicate of PLO for Each Students

Students	PLO 2	PLO 3	PLO 6	PLO 10
A.D. Naila Fauziah	E	E	E	E
Ananda Putri	G	G	G	E
Annafi Sri Nanda	E	E	E	E
Della Frawidana	E	G	G	E
Fanny Elvi Mutiara Amri	G	G	G	E

Fintia Rahmi	G	G	G	E
Hazrina Hanifa	E	E	E	E
Kelly Angelly Hevardani	E	E	E	E
Latifa Redha Andriani	E	E	E	E
Mawaddah	E	E	E	E
Monalisa Pratiwi	E	E	E	E
Nur` Alawia	E	E	E	E
Rahmad Ramadhan	S	F	F	E
Resa Perlia Anjalina Sirait	G	G	G	E
Sovia Nada	E	E	E	E
Yuli Anggraini	E	E	E	E
ANISA YANTI EFENDI	E	E	E	E
FADILA EL HUSNA	E	E	E	E
MILA ASTARI	E	G	G	E
NELLA DWI PUTRI	E	E	E	E
ZAHARA ERMANDA PUTRI	E	E	E	E
AGNES HANRAVIA	G	G	G	E
AULIA ADYTIA PUTRI	E	E	E	E
DESRI ELVIRA	G	G	G	E
HERFINDA OKTAVANI	F	F	F	F
NEVIN BELVIANDA	E	E	E	E
RAHMA YULVIRA	E	G	G	E
TRIA MAYA SARI	E	E	E	E

WAHYUNI AGUSTIN	E	E	E	E
ZAHID HAMIDI	E	E	E	E
ZEA ZISMAN USMAN	G	G	G	E
DEVA MARTHA	E	E	E	E
FADHLI ILHAM	E	E	E	E
FADLINA RUHAMA	E	E	E	E
M. IKBAL KHALID	E	E	E	E
MUTIA HANIFAH	F	F	F	F
RESSY FADHILA LERISMA	G	G	G	E
URI PUTRI RIANI	E	E	E	E
WENNY KURNIA	E	E	E	E
WINDRI AFELLA	E	E	E	E
YUDILA	F	F	F	F
ZULFADLI TAMIMI SIREGAR	E	G	G	E

**LEARNING
OUTCOMES
ANALYSIS**

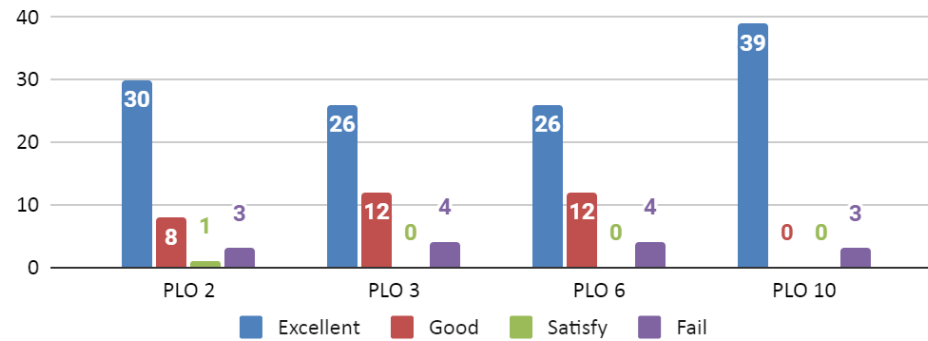
PLO Assessment Rubric

PLO	Description	Excellent	Good	Satisfy	Fail
2	Able to design innovative learning based on the concept of mathematics education and learning	Students can state and apply concepts, analyze and evaluate problems related to education & learning and design a mathematics lesson with an error rate of	Students can state and apply concepts, analyze and evaluate problems related to education & learning and design a mathematics lesson with an error rate of	Students can state and apply concepts, analyze and evaluate problems related to education & learning and design a mathematics lesson with an error rate of	Students can state and apply concepts, analyze and evaluate problems related to education & learning and design a mathematics lesson with an error rate

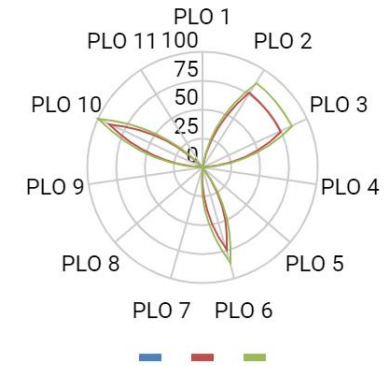
		<20%	<35%	<50%	of> 50%
3	Able to design mathematics learning media, both manipulative learning media and ICT-based learning media	Students can state and apply concepts about media, analyze and evaluate media-related problems and design manipulative media and ICT with an error rate of <20%	Students can state and apply concepts about media, analyze and evaluate media-related problems and design manipulative media and ICT with an error rate of <35%	Students can state and apply concepts about media, analyze and evaluate media-related problems and design manipulative media and ICT with an error rate of <50%	Students can state and apply concepts about media, analyze and evaluate media-related problems and design manipulative media and ICT with an error rate of > 50%
6	Able to produce innovative work, in the fields of education and entrepreneurship (KU1)	Students are able to produce innovative work, in the field of education and entrepreneurship Students can choose, use and imitate the creation of a work then construct ideas and materials, adapt and revise a work so that innovative work will be created with an appropriate level of use KU1 is at a percentage $80\% \leq KU1 \leq 100\%$	Students can choose, use and imitate the making of a work then construct ideas and materials, adapt and revise a work so that innovative work will be created with an appropriate level of use KU1 is on the percentage $65\% \leq KU1 < 80\%$	Students can choose, use and imitate the making of a work then construct ideas and materials, adapt and revise a work so that innovative work will be created with an appropriate level of use KU1 is on the percentage $50\% \leq KU1 < 65\%$	Students can choose, use and imitate the making of a work then construct ideas and materials, adapt and revise a work so that innovative work will be created with an appropriate level of use KU1 is on the percentage KU1 <50%
10	Able to show a responsible attitude in their own work and can be given responsibility for the achievement of group	Students are able to meet / show the PLO 10 (S1) indicator with a percentage	Students are able to meet / show the PLO 10 (S1) indicator with a percentage	Students are able to meet / show the PLO 10 (S1) indicator with a percentage	Students are able to meet / show the PLO 10 (S1) indicator with a percentage

	works (S1)	80% ≤ S1 ≤ 100%	65% ≤ S1 <80%	50% ≤ S1 <65%	S1 <50%
	Classical Value of PLO				
	PLO 2	PLO 3	PLO 6	PLO 10	
Max	87.30	85.47	85.47	100.00	
Average	76.21	74.42	74.42	89.88	
Min	0.00	0.00	0.00	0.00	
	Achievement Number of PLO				
E	30	26	26	39	
G	8	12	12	0	
S	1	0	0	0	
F	3	4	4	3	
	Achievement Percentage of PLO (%)				
E	71.43	61.90	61.90	92.86	
G	19.05	28.57	28.57	0.00	
S	2.38	0.00	0.00	0.00	
F	7.14	9.52	9.52	7.14	
	100	100	100	100	

Achievement PLO



Classical Value of PLO



**STUDENTS’
LEARNING
PERFORMANCE
ANALYSIS**

Based on PLO analysis of each students in Mathematics Learning Media course shows that students can master the material in the course. From 42 students, it obtained that the average value of PLO 2 is 75,72, the average value of PLO 3 and PLO 6 is 74,3, and the average value of PLO 10 is 91,58.
Students’ achievement in this course can be seen based on percentage of PLO achievement criteria, that is 38,1% Excellent, 54,76% Good, 4,76% Satisfy and 2,38% Failed for PLO 2, 23,81% Excellent, 64,29% Good,9,52% Satisfy, and 2,38% Failed for PLO 3 and 6, and in PLO 10 90,48% Excellent, 7,14% Good, 0% Satisfy, and 2,38% Failed .

**RECOMMENDATION
FOR FUTURE
LEARNING**

There are several things that are recommended for improvement for the next lecture, namely:
Maintain a learning pattern that activates students through group discussions and presentations so that students are better prepared to learn any material given

**RECOMENDATIO
FOR INSTITUTION**

No recommendation

INDIVIDUAL ASSIGNMENT

Instructions :

Tentukan sebuah kompetensi dasar (KD) pembelajaran matematika di SMP atau SMA (yang belum di buat medianya sebelumnya di kelas). Selanjutnya lakukanlah hal berikut dengan cermat dan teliti!

1. Rumuskan hal berikut secara individu!
 - a. Indikator pencapaian kompetensi
 - b. Tujuan pembelajaran
 - c. Materi Pembelajaran yang meliputi fakta, konsep, prinsip, dan prosedur.

2. Ambil sebuah topik pada KD tersebut untuk **didesain, dibuat, dan dipresentasikan medianya secara individu**. Media yang dihasilkan terdiri dari :
 - a. Slide berbasis saintifik dengan aplikasi macromedia flash
 - b. Media manipulatif berbasis saintifik yang bahannya dapat diambil di labor pembelajaran matematika.
 - c. Lembar Kegiatan Peserta Didik (LKPD) berbasis saintifik.

GROUP ASSIGNMENT

(CO 4)

Instructions :

Buatlah media MOLAT sekreatif mungkin beserta makalah, kemudian presentasikan cara kerja MOLAT yang anda buat

Instructions :

Tentukan sebuah kompetensi dasar (KD) pembelajaran Geometri di SMP. Selanjutnya lakukanlah hal berikut dengan cermat dan teliti!

1. Rumuskan hal berikut **melalui diskusi dalam kelompok** yang sudah ditetapkan!
 - a. Indikator pencapaian kompetensi
 - b. Tujuan pembelajaran serta atur alokasi waktu/pertemuan dalam mengajarkannya
 - c. Materi Pembelajaran yang meliputi fakta, konsep, prinsip, dan prosedur.

2. Bagi topik-topik dalam pertemuan-pertemuan yang ada untuk **didesain, dibuat, dan dipresentasikan medianya secara individu**. Media yang dihasilkan terdiri dari :
 - a. Slide berbasis saintifik dengan aplikasi macromedia flash
 - b. Media manipulatif berbasis saintifik yang bahannya dapat diambil di labor pembelajaran matematika.
 - c. Lembar Kegiatan Peserta Didik (LKPD) berbasis saintifik.

INSTRUMEN PENILAIAN MEDIA PEMBELAJARAN MATEMATIKA

Nama Mahasiswa : Materi :
 NIM : Kelas/Smt. :
 Nama Media :
 Tujuan Pembelajaran :

PETUNJUK:

Berilah skor pada butir-butir pernyataan dengan cara **melingkari** angka yang ada pada kolom skor (1, 2, 3, 4, 5) sesuai dengan kriteria sebagai berikut:
 1 = sangat tidak baik, 2 = tidak baik, 3 = kurang baik, 4 = baik, atau 5 = sangat baik

No	Indikator / Aspek yang dinilai	Skor				
A	Tanggung jawab					
1	Menyelesaikan media tepat waktu	1	2	3	4	5
2	Keterlibatan dalam pembuatan media	1	2	3	4	5
3	Kecukupan dan susunan media	1	2	3	4	5
B	Kemampuan mendesain, membuat dan menggunakan media					
1	Menunjukkan keterampilan dalam mendesain media pembelajaran	1	2	3	4	5
2	Menunjukkan keterampilan dalam membuat media pembelajaran	1	2	3	4	5
3	Menunjukkan keterampilan dalam menggunakan media pembelajaran	1	2	3	4	5
C	Konsep Media Pembelajaran Matematika					
1	Sesuai dengan karakteristik peserta didik.	1	2	3	4	5
2	Menunjang pembelajaran matematika yang konstruktivisme	1	2	3	4	5
3	Menunjang pembelajaran matematika yang menarik dan menyenangkan	1	2	3	4	5
4	Menunjang ketercapaian tujuan pembelajaran matematika	1	2	3	4	5
5	Memberi kemudahan untuk memahami materi pelajaran matematika	1	2	3	4	5
6	Memperjelas penyajian pesan yang bersifat verbalistis	1	2	3	4	5
7	Kemudahan dalam menggunakan media	1	2	3	4	5
	Jumlah skor					
	Nilai					

Padang, 2020

Catatan:

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AFFECTIVE/ATTITUDE ASSESSMENT FORMAT

Section :
 Course Name :
 Course Code :
 Lecturer :
 Students :
 NIM :

Instructions :

- a) This assessment is carried out based on observations / observations of students carried out while attending lectures in 1 semester .
- b) The assessment is carried out by giving a checklist (√) in the appropriate column.

No.	Attitude Assessment Indicators	4	3	2	1	0	Score
1.	Students follow the instructions given by the lecturer						
2.	Students participate in class discussions						
3.	Students complete each assignment given by the lecturer						
4.	Students maintain attendance rates above 80% in 1 semester						
5.	Students demonstrate punctuality when attending lectures						
6.	Students demonstrate punctuality when submitting each personal assignment						
7.	Students follow the instructions given in group work						
8.	Students participate in group discussions						
9.	Students fulfill / complete the assignments / responsibilities given by the group						
10.	Students organize tasks for each group member (leadership)						
11.	Students demonstrate punctuality when collecting each group assignment						
SCORE TOTAL							
AVERAGE SCORE							

AFFECTIVE ASSESSMENT ANALYSIS

Assessment of the Affective Value / Attitude of Subjects

$$AffectiveValue = \frac{ScoreTotal \times 100}{44}$$

Percentage of Achievement PLO 10 (Affective / Attitude) (symbolized by S1)

$$S1 = \frac{ScoreTotal}{44} \times 100\%$$

Conclusion on the PLO 10 Achievement Assessment (affective) can use the interval from the Mean Affective Score (RS1) or the interval from the percentage of achievement of PLO 10 (S1)

Range/Interval	Percentage	Conclusion
$0 \leq RS1 < 1,5$	$0\% \leq S1 < 37,5\%$	Fail
$1,5 \leq RS1 < 2,5$	$37,5\% \leq S1 < 62,5\%$	Satisfy
$2,5 \leq RS1 < 3,5$	$62,5\% \leq S1 < 87,5\%$	Good
$3,5 \leq RS1 \leq 4$	$87,5\% \leq S1 \leq 100\%$	Excellent

RUBRIC TO DETERMINE AFFECTIVE ASSESSMENT SCORES

No.	Affective Indicators	Score 4	Score 3	Score 2	Score 1	Score 0
1.	Students follow the instructions given by the lecturer	Students follow instructions given by the lecturer, both in class and outside the classroom with a relatively fast response (direct instruction is carried out)	Students follow instructions given by the lecturer, both in class and outside the classroom with a fairly fast response (instructions are carried out but with a time lag)	Students follow the instructions given by the lecturer, both in class and outside the class, but the response is carried out after the instructions are reminded again to the students.	Students follow the instructions given by the lecturer, but only instructions are given in the classroom. Instructions outside the classroom, are not carried out.	Students never follow instructions given by lecturers, both inside and outside the classroom.
2.	Students participate in class discussions	Students participate in class discussions, by showing 4 attitudes: 1) Pay attention to class discussions well 2) Participate in submitting suggestions / comments / ideas 3) Do not do other things that have nothing to do with the discussion 4) Participate in maintaining class conditions so that it is conducive to discussion	Students participate in class discussions, by showing 3 attitudes from: 1) Pay attention to class discussions well 2) Participate in submitting suggestions / comments / ideas 3) Do not do other things that have nothing to do with the discussion 4) Participate in maintaining class conditions so that it is conducive to	Students participate in class discussions, by showing 2 attitudes: 1) Pay close attention to class discussions 2) Participate in submitting suggestions / comments / ideas 3) Do not do other things that have nothing to do with the discussion 4) Participate in maintaining class conditions so that it is conducive to discussion	Students participate in class discussions, by showing 1 attitude: 1) Pay close attention to class discussions 2) Participate in submitting suggestions / comments / ideas 3) Do not do other things that have nothing to do with the discussion 4) Participate in maintaining class conditions so that it is conducive to discussion	Students do not participate in class discussions, by not showing these four attitudes.

			discussion			
3.	Students complete each assignment given by the lecturer	Students complete each assignment given by the lecturer with a 100% percentage of complete files / assignments	Students complete each assignment given by the lecturer with the percentage of completeness of files / assignments > 90%	Students complete each assignment given by the lecturer with the percentage of completeness of files / assignments > 80%	Students complete each assignment given by the lecturer with the percentage of completeness of files / assignments > 70%	Students complete each assignment given by the lecturer with a percentage of completeness of files / assignments < 70%
4.	Students maintain attendance rates above 80% in 1 semester	Students maintain class attendance rates for 1 semester with a percentage of 100%	Students maintain class attendance rates for 1 semester with a percentage of > 90%	Students maintain class attendance rates for 1 semester with a percentage of > 85%	Students maintain class attendance rates for 1 semester with a percentage of > 80%	Students maintain class attendance rates for 1 semester with a percentage of < 80%
5.	Students demonstrate punctuality when attending lectures	Students have been present in class before the lecturer arrives.	Students attend class at the same time as the lecturer.	Students attend class when the lecturer is already in class but is preparing for college.	Students attend class when the lecturer has stood in front of the class but has not delivered a lecture.	Students are present in class when the lecturer has lectured in front of the class.
6.	Students demonstrate punctuality when submitting each personal assignment	The percentage of personal assignments submitted by students before the deadline is 100%.	The percentage of personal assignments submitted by students before the deadline is > 90%.	The percentage of personal assignments submitted by students before the deadline is > 80%.	The percentage of personal assignments submitted by students before the deadline is > 70%.	The percentage of personal assignments submitted by students before the deadline is < 70%.
7.	Students follow the instructions given in group work	Students follow instructions given during group work, both inside and outside the classroom with a relatively fast response	Students follow the instructions given during group work, both in class and outside the classroom with a fairly fast response	Students follow the instructions given during group work, both in class and outside the classroom, but the response is carried out	Students follow the instructions given during group work, but only instructions are given in class. Instructions outside the classroom, are not	Students never follow the instructions given during group work, both inside and outside the classroom.

		(direct instructions are carried out)	(instructions are carried out but with time lag)	after the instructions are reminded again to the students.	carried out.	
8.	Students participate in group discussions	Students participate in group discussions, by showing 4 attitudes: 1) Pay close attention to group discussions 2) Participate in submitting suggestions / comments / ideas 3) Do not do other things that have nothing to do with the discussion 4) Participate in work according to their role in the group	Students participate in group discussions, by showing 3 attitudes: 1) Pay close attention to group discussions 2) Participate in submitting suggestions / comments / ideas 3) Do not do other things that have nothing to do with the discussion 4) Participate in work according to their role in the group	Students participate in group discussions, by showing 2 attitudes: 1) Pay close attention to group discussions 2) Participate in submitting suggestions / comments / ideas 3) Do not do other things that have nothing to do with the discussion 4) Participate in work according to their role in the group	Students participate in group discussions, by showing 1 attitude: 1) Pay close attention to group discussions 2) Participate in submitting suggestions / comments / ideas 3) Do not do other things that have nothing to do with the discussion 4) Participate in work according to their role in the group	Students do not participate in group discussions, by not showing these four attitudes.
9.	Students fulfill / complete the assignments / responsibilities given by the group	Tasks / responsibilities given by the group can be completed properly and help in completing the tasks / responsibilities of other members of the group.	The tasks / responsibilities given by the group cannot be completed properly but they help to complete the tasks / responsibilities of other members of the group.	Tasks / responsibilities given by the group, can be completed properly but do not contribute to completing the tasks / responsibilities of other members of the group.	Tasks / responsibilities given by the group cannot be completed properly and do not contribute to completing the tasks / responsibilities of other members.	Students do not do assignments that are the responsibility of the group.
10.	Students organize	Students show roles such	Students show a role like	Students show a role as	Students show a role as	Students do not show a

	tasks for each group member (leadership)	as group leaders, who have the initiative to act, lead discussions, divide roles / tasks among members & maintain group cohesiveness	group leaders, but have not been able to fulfill all of the following attitudes, namely those who have the initiative to act, lead discussions, divide roles / tasks among members & maintain group cohesiveness	members who actively provide responses and ideas in discussions and contribute to the completion of group assignments.	members who are less active in providing responses and ideas in discussions but contributing to the completion of group assignments.	role like chairman and do not show a role as members who contribute to group work
11.	Students demonstrate punctuality when collecting each group assignment	The percentage of group assignments submitted by students before the deadline is 100%.	The percentage of group assignments submitted by students before the deadline is > 90%.	The percentage of group assignments collected by students before the deadline is > 80%.	The percentage of group assignments collected by students before the deadline is > 70%.	The percentage of group assignments collected by students before the deadline is <70%.