



Universitas Negeri Yogyakarta  
Sustainably Excellent, Creative, and Innovative

# MONITORING AND EVALUATION REPORT AT THE END OF ODD SEMESTER OF THE ACADEMIC

**YEAR  
2021/2022**



**Quality Assurance Unit, Faculty of Engineering  
Yogyakarta State University**

**FINAL REPORT FOR THE END EMONEV IN ODD SEMESTER**  
**FACULTY OF ENGINEERING**  
**ACADEMIC YEAR 2021/2022**



**HOST TEAM**  
**FACULTY OF ENGINEERING**  
**YOGYAKARTA STATE UNIVERSITY**  
**2022**

## Table of Content

A.	Number of Respondents who Provide Instrumental Input .....	3
1.	Faculty of Engineering.....	3
2.	Department of Electrical Engineering Education.....	3
3.	Department of Electronics and Informatics Engineering Education.....	4
4.	Department of Mechanical Engineering Education.....	5
5.	Department of Automotive Engineering Education .....	5
6.	Department of Civil Engineering Education and Planning .....	6
7.	Department of Cullinary and Fashion Engineering Education.....	7
B.	Monitoring and Evaluation of Theory Courses .....	8
1.	Faculty of Engineering.....	8
2.	Information Technology Study Programme.....	10
3.	Electronic Engineering Education Study Programme .....	12
4.	Mechanical Engineering Education Study Programme.....	14
5.	Automotive Engineering Education Study Programme .....	15
6.	Civil Engineering Education and Planning Study Programme.....	17
C.	Monitoring and Evaluation of Lectures for Laboratory Practice Courses.....	18
1.	Faculty of Engineering (FE).....	19
2.	Information Technology Study Programme.....	23
3.	Electronics Engineering Education Study Programme.....	25
4.	Mechanical Engineering Education Study Programme.....	27
5.	Automotive Education Study Programme .....	29
6.	Civil Engineering and EducationPlanningStudy Programme.....	30
D.	LectureMonitoring and Evaluation of Practical Workshop Courses .....	32
1.	Faculty of Engineering.....	33
2.	Mechanical Engineering EducationStudy Programme.....	35
E.	Monitoring and Evaluation of Final ProjectCourse .....	37
1.	Faculty of Engineering.....	38
2.	Electronic Engineering Education Study Program .....	40
	Electronic Engineering Education Study Program .....	40

3.	Mechanical Engineering Education Study Program .....	42
	Mechanical Engineering Education Study Program .....	42
4.	Automotive Engineering Education Study Program .....	44
	Automotive Engineering Education .....	44
5.	Civil Engineering and Planning Study Program .....	46
F.	Recommendation.....	47

## FINAL REPORT FOR THE END EMONEV IN ODD SEMESTER ACADEMIC YEAR 2021/2022

### A. Number of Respondents who Provide Instrumental Input

#### 1. Faculty of Engineering

Instrument filling was carried out on January 17-23 2022 for students of the Faculty of Engineering, Yogyakarta State University. Instrument filling is done through the <https://survey.uny.ac.id/> system. The Faculty of Engineering has 6 Departments, namely JPTE, JPTEI, JPTM, JPTO, JPTSP, and JPTBB.

Table 1. Number of Completed Questionnaires in the Faculty of Engineering

Fill Percentage	93.26%
Not Filled Yet	6.74 %

Table 1 shows the number of entries in the FT UNY. Filling in the monitoring and evaluation questionnaire for the first week of lectures at FT UNY was 93.26% and 6.74% had not filled it out

#### 2. Department of Electrical Engineering Education

In the Department of Electrical Engineering Education (JPTE), there are 5 study programmes under their supervision, namely Electrical Engineering Education – Master Degree, Electrical Engineering Education – Bachelor Degree, Mechatronics Engineering Education – Bachelor Degree, Electrical Engineering – Bachelor Degree, and Electrical Engineering – Diploma Degree. The following are the results of the filled questionnaire obtained in Table 2 for the study programmes at JPTE.

Table 1. Number of Completed Questionnaires in the Department of Electrical Engineering Education

Number	Study programme	Entry	
		Fill in	Not Filled Yet
1.	Electrical Engineering Education – S2	83.71 %	16.29 %
2.	Electrical Engineering Education – S1	72.85 %	27.15 %
3.	Mechatronics Engineering Education – S1	97.08 %	2.92 %

Number	Study programme	Entry	
		Fill in	Not Filled Yet
4.	Electrical Engineering – S1	92.50 %	7.5 %
5.	Electrical Engineering – D4	91.46 %	8.54 %

Table 2 shows the number of questionnaire entries at JPTE FT UNY.

The questionnaire for monitoring and evaluation of lectures in the first week of the Electrical Engineering Education study programme - Bachelor Degree had the smallest number of respondents, namely 72.85%, while the highest for Mechatronics Engineering Education – Bachelor Degree was 97.08%.

### 3. Department of Electronics and Informatics Engineering Education

In the Department of Electronics and Informatics Engineering Education (JPTEI), there are 5 study programmes under its supervision, namely Electronics and Informatics Engineering Education (PTEI) – Master Degree, Electronics Engineering Education – Bachelor Degree, Informatics Engineering Education – Bachelor Degree, Information Technology – Bachelor Degree, and Electronics Engineering – Diploma Degree. The following are the results of the filled questionnaire obtained in Table 3 for the study programmes at JPTEI.

Table 3. Number of Completed Questionnaires at JPTEI

Number	Study Programme	Entry	
		Fill in	Not Filled Yet
1.	Electronics and Informatics Engineering Education – Master Degree	71.79 %	28.21 %
2.	Electronics Engineering Education – Bachelor Degree	60.75 %	39.25 %
3.	Informatics Engineering – Bachelor Degree	48.02 %	51.98 %
4.	Information Technology – Bachelor Degree	96.58 %	3.42 %
5.	Electrical engineering – Diploma Degree	94.28 %	5.72 %

Table 3 shows the number of questionnaire entries at JPTEI FT UNY. The lowest monitoring and evaluation questionnaire for the first week of lectures was obtained by the Informatics Engineering Education Study Programme - Bachelor's Degree at 48.02% and the highest for the Information Technology Study Programme - Bachelor's Degree at 96.58%.

#### 4. Department of Mechanical Engineering Education

In the Mechanical Engineering Education Department (JPTM), there are 4 study programmes under their supervision, namely Mechanical Engineering Education – Master Degree, Mechanical Engineering Education – Bachelor Degree, Manufacturing Engineering – Bachelor Degree, and Mechanical Engineering – Diploma Degree. The following are the results of the filled questionnaire obtained in Table 4 for the study programmes at JPTM.

Table 4. Number of Completed Questionnaires in the Mechanical Engineering Education Department

Number	Study Programme	Entry	
		Fill in	Not Filled Yet
1.	Mechanical engineering education – Master Degree	71.63 %	28.37 %
2.	Mechanical engineering education – Bachelor Degree	78.88 %	21.12 %
3.	Manufacturing Engineering – Bachelor Degree	96.46 %	3.54 %
4.	Mechanical Engineering – Diploma Degree	95.68 %	4.32 %

Table 4 shows the number of questionnaire entries at JPTM FT UNY. The lowest monitoring and evaluation questionnaire for the first week of lectures was obtained by the Mechanical Engineering Education Study Program – Master Degree by 71.63% and the highest by Manufacturing Engineering of Bachelors is 96.46%.

#### 5. Department of Automotive Engineering Education

In the Department of Automotive Engineering Education (JPTO), there are 2 study programmes under their supervision, namely Automotive

Engineering Education – Bachelor Degree and Automotive Engineering – Diploma Degree. The following are the results of the filled questionnaire obtained in Table 5 for the study programmes at JPTO.

Table 5. Number of Completed Questionnaires in the Department of Automotive Engineering Education

Number	Study Programme	Entry	
		Fill in	Not Filled Yet
1.	Automotive Engineering Education – Bachelor Degree	56.41 %	43.59 %
2.	Automotive Engineering – Diploma Degree	93.34 %	6.66 %

Table 5 shows the number of entries in the JPTO FT UNY. The lowest first week course monitoring and evaluation questionnaire was obtained by PT Automotive Bachelor Degree at 56.41% and the highest at Diploma Degree Automotive Engineering at 93.34%.

6. Department of Civil Engineering Education and Planning

In the Department of Civil Engineering Education and Planning (JPTSP), there are 3 study programmes under their supervision, namely Civil Engineering Education and Planning - Bachelor Degree, Civil Engineering - Bachelor Degree, and Civil Engineering - Diploma Degree. The following are the results of the filled questionnaire obtained in Table 6 for the study programmes at JPTSP.

Table 6. Number of Completed Questionnaires in the Department of Civil Engineering Education and Planning

Number	Study Programme	Entry	
		Fill in	Not Filled Yet
1.	Civil Engineering Education and Planning – Bachelor Degree	82.90 %	17.1 %
2.	Civil Engineering – Bachelor Degree	96.29 %	3.71 %
3.	Civil Engineering – Diploma Degree	93.90 %	6.1 %



Table 6 shows the number of questionnaire entries at JPTSP FT UNY. The monitoring and evaluation questionnaire for the first week of lectures had the lowest score in the PTSP Bachelor Degree study programme at 82.90% and the highest in the Civil Engineering – Bachelor Degree study programme at 96.29%.

7. Department of Cullinary and Fashion Engineering Education

In the Cullinary and Fashion Engineering Education Department (JPTBB), there are 6 study programmes under their supervision, namely Family Welfare Education (PKK) – Master Degree, Cullinary Engineering Education – Bachelor Degree, Fashion Engineering Education – Bachelor Degree, Cullinary Engineering – Diploma Degree, Fashion Engineering – Diploma Degree, and Cosmetology and Beauty – Diploma Degree. The following are the results of the filled questionnaire obtained in Table 7 for the study programmes at JPTBB.

Table 7. Number of Completed Questionnaires in the Department of Cullinary and Fashion Engineering Education

Number	Study Programme	Entry	
		Fill in	Not Filled Yet
1.	Family Welfare Education – Master Degree	66.79 %	33.21 %
2.	Cullinary Engineering Education – Bachelor Degree	82.04 %	17.96 %
3.	Fashion Engineering Education – Bachelor Degree	70.80 %	29.2 %
4.	Cullinary art – Diploma Degree	96.95 %	3.05 %
5.	Fashion – Diploma Degree	97.31 %	2.69 %
6.	Makeup and Beauty – Diploma Degree	93.84 %	6.16 %

Table 7 shows the number of questionnaire entries at JPTBB FT UNY. The lowest first week lecture monitoring and evaluation questionnaire contents were the PKK – Master Degree study programme at 66.79% and the highest the Fashion Design – Diploma Degree study programme at 97.31%.

## B. Monitoring and Evaluation of Theory Courses

Monitoring and evaluation of lectures is measured into 4 main indicators, namely monitoring and evaluation of theoretical lectures, monitoring and evaluation of practical laboratory lectures, monitoring and evaluation of practical workshop lectures, and monitoring and evaluation of lectures for the Final Project course.

Monitoring and evaluation of lectures at the end of the semester in theory courses is measured by several indicators. These indicators were assessed by respondents, namely students who took the course. These indicators include: (1) Conformity of learning with the Module Handbook (RPS); (2) Lecturer confusion in delivering material in courses; (3) the ability of lecturers to motivate students in courses; (4) Lecturer mastery of course material in general; (5) The meaningfulness of lecture material with the profession to be occupied; (6) the clarity of the lecturer in explaining course material; (7) The Effective use of time in courses; (8) suitability of media and tools used in courses; (9) Completeness of teaching materials used by courses; (10) Use of up to date technology in courses; (11) the lecturer's response in responding to student questions and opinions; (12) Appropriate feedback given by courses in learning; (13) Variations in giving assignments and assessments by courses; (14) Conformity of the exam with the material presented by the Lecturer; and (15) Lecturer's concern for students' difficulties.

### 1. Faculty of Engineering

The average results of monitoring and evaluation of theory lectures at the Faculty of Engineering UNY are shown in Table 8 and Figure 1.

Table 8. Monitoring and Evaluation of Lectures at the End of Odd Semester Theory Courses for Academic Year 2021/2022 FT UNY

Number	Elements/Items	JPTE	JPTEI	JPTM	JPTO	JPTSP	JPTBB	FT
1.	Compatibility of learning with the Module Handbook (RPS)	4.34	4.40	4.43	4.40	4.30	4.42	4.38
2.	Lecturer confusion in delivering material in courses	4.28	4.33	4.37	4.36	4.23	4.34	4.32
3.	The ability of lecturers to motivate students in courses	4.25	4.31	4.33	4.34	4.17	4.30	4.28

<b>Number</b>	<b>Elements/Items</b>	<b>JPTE</b>	<b>JPTEI</b>	<b>JPTM</b>	<b>JPTO</b>	<b>JPTSP</b>	<b>JPTBB</b>	<b>FT</b>
4.	Lecturer mastery of course material in general	4.32	4.37	4.40	4.39	4.28	4.38	4.36
5.	The meaningfulness of course material with the profession to be occupied	4.25	4.33	4.35	4.35	4.24	4.35	4.31
6.	The clarity of the lecturer in explaining the course material	4.19	4.26	4.30	4.32	4.16	4.29	4.25
7.	Effective use of time in courses	4.19	4.27	4.30	4.30	4.17	4.29	4.25
8.	The suitability of the media and tools used in courses	4.22	4.28	4.32	4.29	4.19	4.30	4.27
9.	Completeness of teaching materials used by lecturers	4.22	4.28	4.34	4.31	4.20	4.29	4.27
10.	Use of up to date technology in courses	4.22	4.29	4.33	4.30	4.19	4.29	4.27
11.	The lecturer's response in responding to student questions and opinions	4.29	4.36	4.39	4.37	4.23	4.35	4.33
12.	The suitability of the feedback given by the lecturer in learning	4.25	4.32	4.34	4.33	4.19	4.32	4.29
13.	Variations in giving assignments and assessments by lecturers	4.17	4.24	4.27	4.29	4.15	4.27	4.23
14.	Conformity of the exam with the material presented by the Lecturer	4.24	4.31	4.36	4.30	4.21	4.33	4.29
15.	Lecturer's concern for student difficulties	4.23	4.31	4.33	4.33	4.18	4.31	4.28
<b>Average</b>		4.24	4.31	4.34	4.33	4.21	4.32	4.29
<b>Category</b>		<b>Very good</b>	<b>Very good</b>	<b>Very good</b>	<b>Very good</b>	<b>Very good</b>	<b>Very good</b>	<b>Very good</b>

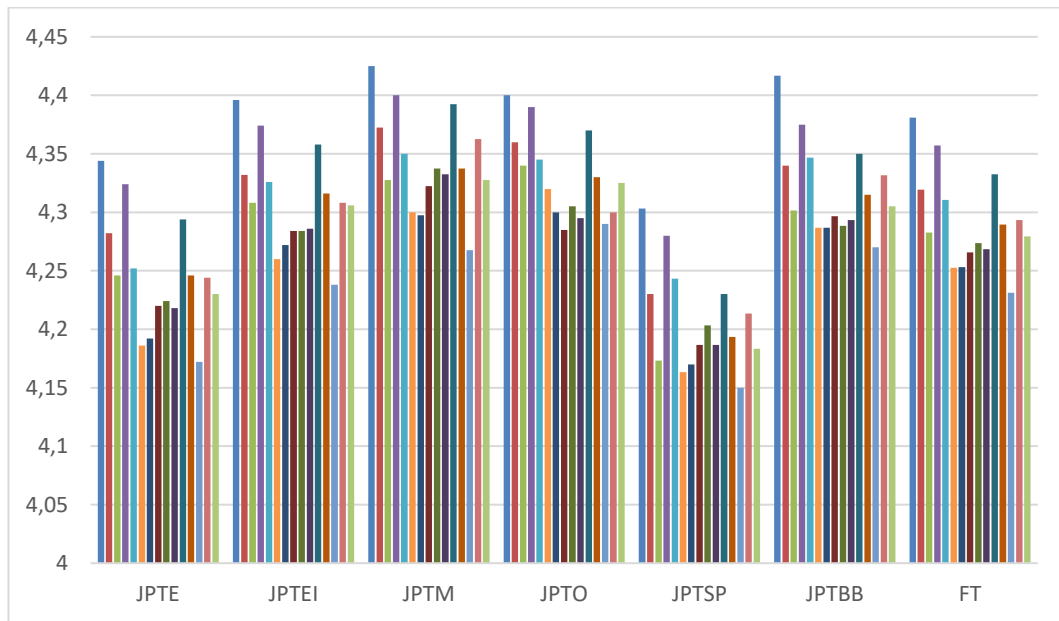


Figure 1. Monitoring and Evaluation of End of Odd Semester Theory Courses for Academic Year 2021/2022 FT UNY

Based on Table 8 and Figure 1, it is known that the results of the questionnaire monitoring and evaluation of courses at the end of the semester for odd semester theory courses for the 2021/2022 FT UNY Academic Year have an average of 4.29 in the Very Good category. This shows that the implementation of end-of-semester lectures at FT UNY is in the Very Good category.

## 2. Information Technology Study Programme

The average results of monitoring and evaluation of theoretical lectures in the Information Technology Study Program (IT) are shown in Table 10 and Figure 3.

Table 9. Monitoring and Evaluation of Lectures at the End of Semester for Odd Semester Theory Courses for 2021/2022 Academic Year IT Study Programme

Number	Elements/Items	Information Technology
1	Compatibility of learning with the Modul Handbook (RPS)	4.58
2	Lecturer confusion in delivering material in courses	4.5
3	The ability of lecturers to motivate students in courses	4.45

Number	Elements/Items	Information Technology
4	Lecturer mastery of course material in general	4.53
5	The meaningfulness of course material with the profession to be occupied	4.49
6	The clarity of the lecturer in explaining the course material	4.41
7	Effective use of time in courses	4.45
8	The suitability of the media and tools used in courses	4.47
9	Completeness of teaching materials used by lecturers	4.45
10	The use of up to date technology in courses	4.47
11	The lecturer's response in responding to student questions and opinions	4.52
12	The suitability of the feedback given by the lecturer in learning	4.47
13	Variations in giving assignments and assessments by lecturers	4.38
14	Conformity of the exam with the material presented by the Lecturer	4.49
15	Lecturer's concern for student difficulties	4.46
<b>Average</b>		<b>4.47</b>
<b>Category</b>		<b>Very Good</b>

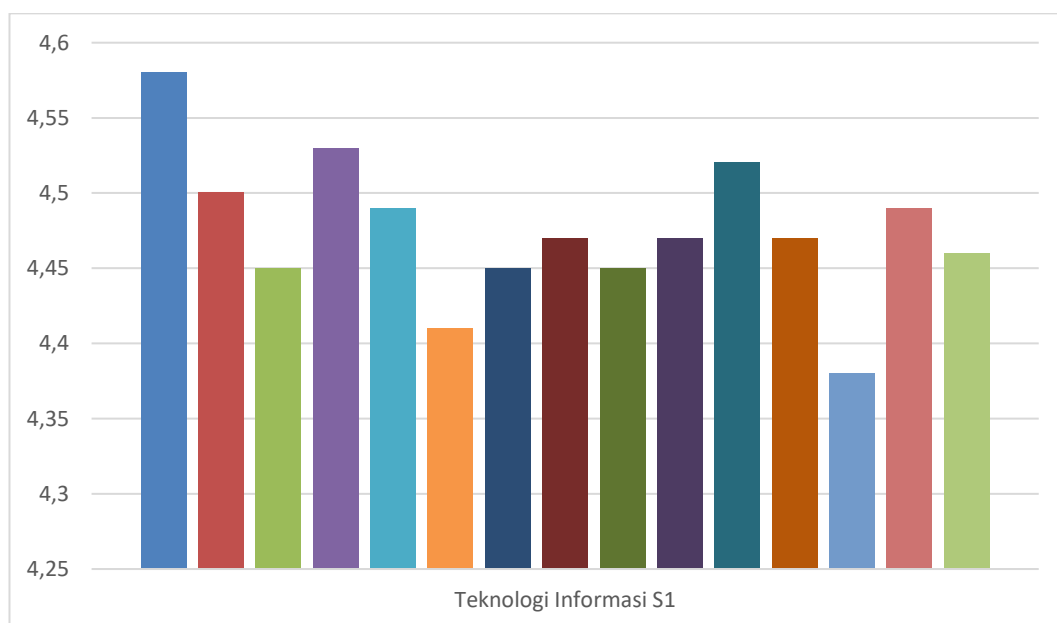


Figure 2. Monitoring and Evaluation of Lectures at the End of Semester for Odd Semester Theory Courses for 2021/2022 Academic Year IT Study Programme

Based on Table 9 and Figure 2, it is known that the results of the questionnaire monitoring and evaluation of lectures at the end of the semester for odd semester theoretical courses for the Academic Year 2021/2022 Information Technology study programme, Faculty of Engineering (FE), Yogyakarta State University have an average of 4.47 in the **Very Good** category. This shows that the implementation of end-of-semester lectures in the Information Technology study programme has fulfilled the elements of learning at the end of the semester. The highest element was obtained by the Information Technology study programme in the item Conformity of learning with the Module Handbook with a value of 4.58 in the **Very Good** category.

### 3. Electronic Engineering Education Study Programme

The average results of monitoring and evaluation of theoretical lectures in the Electronic Engineering Education Study Programme (EEE) are shown in Table 10 and Figure 3.

Table 10. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Theory Courses for the Academic Year of 2021/2022 Electronic Engineering Education Study Programme

No	Elements/Items	Electronics Engineering Education
1	Compatibility of learning with the Module Handbook	4.28
2	Lecturer confusion in delivering material in lectures	4.22
3	The ability of lecturers to motivate students in lectures	4.17
4	Lecturer mastery of lecture material in general	4.26
5	The meaningfulness of lecture material with the profession to be occupied	4.2
6	The clarity of the lecturer in explaining the lecture material	4.15
7	Effective use of time in lectures	4.14
8	The suitability of the media and tools used in lectures	4.17
9	Completeness of teaching materials used by lecturers	4.16
10	The use of up-to-date technology in lectures	4.16
11	The lecturer's response in responding to student questions and opinions	4.21
12	The suitability of the feedback given by the lecturer in learning	4.16
13	Variations in giving assignments and assessments by	4.12

No	Elements/Items	Electronics Engineering Education
	lecturers	
14	Conformity of the exam with the material presented by the Lecturer	4.18
15	Lecturer's concern for student difficulties	4.15
<b>Average</b>		<b>4.18</b>
<b>Category</b>		<b>Good</b>

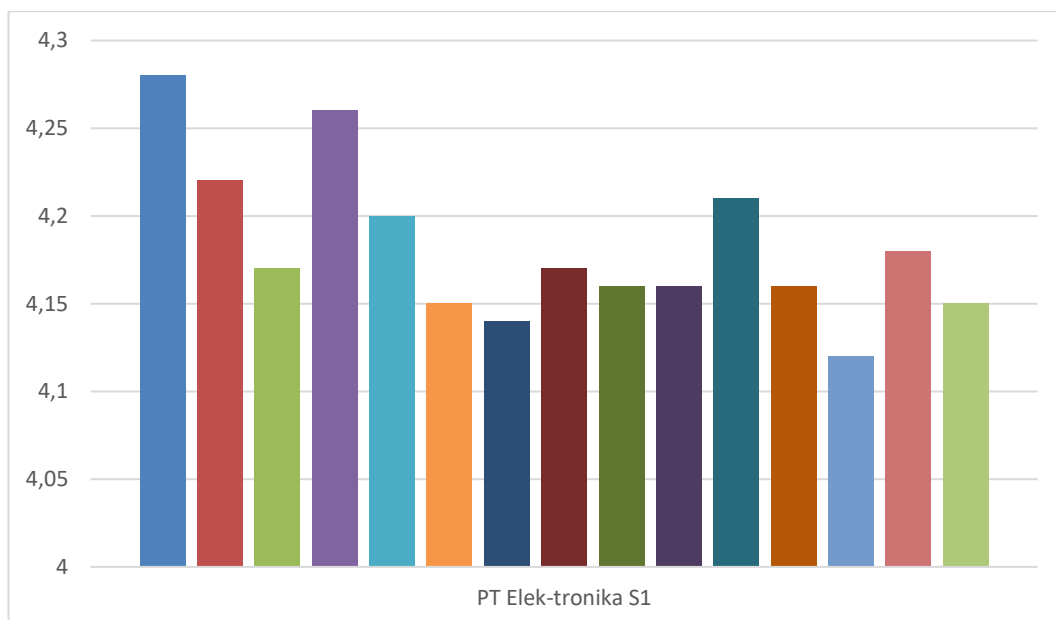


Figure 3. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Theory Courses for the Academic Year 2021/2022 Electronic Engineering Education Study Programme

Based on Table 10 and Figure 3, it is known that the results of the questionnaire monitoring and evaluation of lectures at the end of the semester for odd semester theory courses for the 2021/2022 Academic Year of Electronic Engineering Education Study Programme, Faculty of Engineering (FE), Yogyakarta State University have an average of 4.18. This shows that the implementation of end-of-semester lectures at the Mechanical Engineering Education Study Programme is in a **Good** category. The highest element obtained by the Mechanical Engineering Education Study Programme was the item Conformity of learning with the Module Handbook with a score of 4.28 in the **Very Good** category.

#### 4. Mechanical Engineering Education Study Programme

The average results of monitoring and evaluating theoretical lectures of the Mechanical Engineering Education Study Programme (MEE) are shown in Table 11 and Figure 4.

Table 11. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Theory Courses for the Academic Year 2021/2022 Mechanical Engineering Education Study Programme

No	Elements/Items	Mechanical Engineering Education
1	Compatibility of learning with the Module Handbook	4.23
2	Lecturer confusion in delivering material in lectures	4.17
3	The ability of lecturers to motivate students in lectures	4.11
4	Lecturer mastery of lecture material in general	4.23
5	The meaningfulness of lecture material with the profession to be occupied	4.19
6	The clarity of the lecturer in explaining the lecture material	4.12
7	Effective use of time in lectures	4.07
8	The suitability of the media and tools used in lectures	4.1
9	Completeness of teaching materials used by lecturers	4.13
10	The use of up-to-date technology in lectures	4.11
11	The lecturer's response in responding to student questions and opinions	4.17
12	The suitability of the feedback given by the lecturer in learning	4.15
13	Variations in giving assignments and assessments by lecturers	4.07
14	Conformity of the exam with the material presented by the Lecturer	4.17
15	Lecturer's concern for student difficulties	4.11
<b>Average</b>		<b>4.14</b>
Category		<b>Good</b>



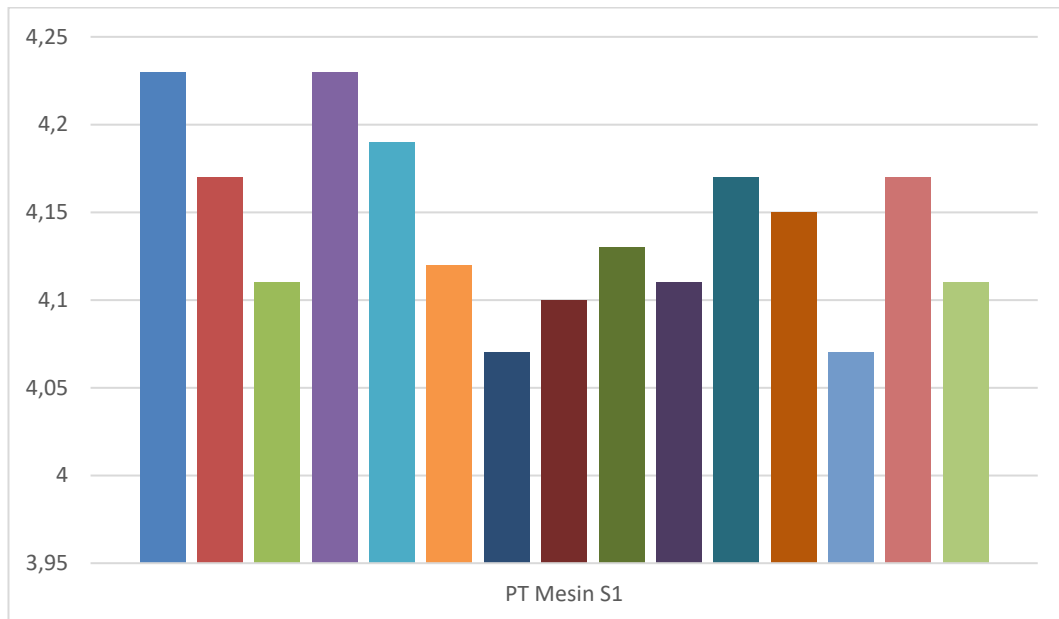


Figure 4. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Theory Courses for the Academic Year 2021/2022 Mechanical Engineering Education Study Programme

Based on Table 11 and Figure 4, it is known that the results of the questionnaire monitoring and evaluation of lectures at the end of the semester for odd semester theory courses for the 2021/2022 Academic Year of Mechanical Engineering Education Study Programme have an average of 4.14. This shows that the implementation of end-of-semester lectures in the Mechanical engineering Education Study Programme is a **Good** category. The element in the questionnaire that has the highest score is the item appropriateness of learning with the module handbook, with a value of 4.23 in the **Very Good** category.

#### 5. Automotive Engineering Education Study Programme

The average results of monitoring and evaluation of theoretical lectures in the Automotive Engineering Education Study Programme (AEE) are shown in Table 12 and Figure 5.

Table 12. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Theory Courses for the Academic Year 2021/2022 Automotive Engineering Education Study Programme

No	Elements/Items	Automotive Engineering Education
1	Compatibility of learning with the Module Handbook	4.43
2	Lecturer confusion in delivering material in lectures	4.38
3	The ability of lecturers to motivate students in lectures	4.35

No	Elements/Items	Automotive Engineering Education
4	Lecturer mastery of lecture material in general	4.41
5	The meaningfulness of lecture material with the profession to be occupied	4.37
6	The clarity of the lecturer in explaining the lecture material	4.33
7	Effective use of time in lectures	4.33
8	The suitability of the media and tools used in lectures	4.31
9	Completeness of teaching materials used by lecturers	4.33
10	The use of up-to-date technology in lectures	4.31
11	The lecturer's response in responding to student questions and opinions	4.4
12	The suitability of the feedback given by the lecturer in learning	4.36
13	Variations in giving assignments and assessments by lecturers	4.33
14	Conformity of the exam with the material presented by the Lecturer	4.33
15	Lecturer's concern for student difficulties	4.35
<b>Average</b>		<b>4.35</b>
<b>Category</b>		<b>Very Good</b>

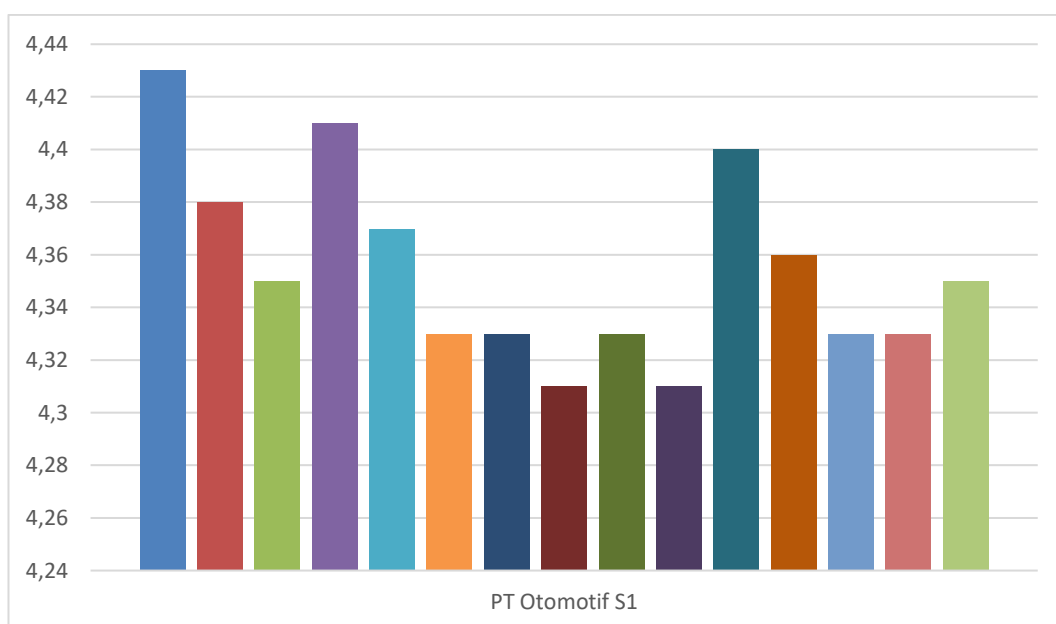


Figure 5. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Theory Courses for the Academic Year 2021/2022 Automotive Engineering Education Study Programme

Based on Table 12 and Figure 5, it is known that the results of the questionnaire monitoring and evaluation of lectures at the end of the semester for odd semester theory courses for the 2021/2022 Academic Year Automotive Engineering Education Study Programme, Faculty of Engineering (FE), Yogyakarta State University have an average of 4.35. This shows that the implementation of end-of-semester lectures in the Automotive Engineering Education Study Programme is in the **Very Good** category. The highest element was obtained by the Automotive Engineering Education study programme in the item Conformity of learning with the Module Handbook with a value of 4.43 in the **Very Good** category.

#### 6. Civil Engineering Education and Planning Study Programme

The average results of monitoring and evaluation of theory lectures of the Civil Engineering Education and Planning Study Programme (CEEP) are shown in Table 13 and Figure 6.

Table 13. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Theory Courses for the Academic Year 2021/2022 Civil Engineering Education and Planning Study Programme

No	Elements/Items	Civil Engineering Education and Planning
1	Compatibility of learning with the Module Handbook	4.35
2	Lecturer confusion in delivering material in lectures	4.28
3	The ability of lecturers to motivate students in lectures	4.21
4	Lecturer mastery of lecture material in general	4.33
5	The meaningfulness of lecture material with the profession to be occupied	4.27
6	The clarity of the lecturer in explaining the lecture material	4.19
7	Effective use of time in lectures	4.19
8	The suitability of the media and tools used in lectures	4.21
9	Completeness of teaching materials used by lecturers	4.23
10	The use of up-to-date technology in lectures	4.2
11	The lecturer's response in responding to student questions and opinions	4.25
12	The suitability of the feedback given by the lecturer in learning	4.21
13	Variations in giving assignments and assessments by	4.17

	lecturers	
14	Conformity of the exam with the material presented by the Lecturer	4.24
15	Lecturer's concern for student difficulties	4.2
<b>Average</b>		<b>4.24</b>
<b>Category</b>		<b>Very Good</b>

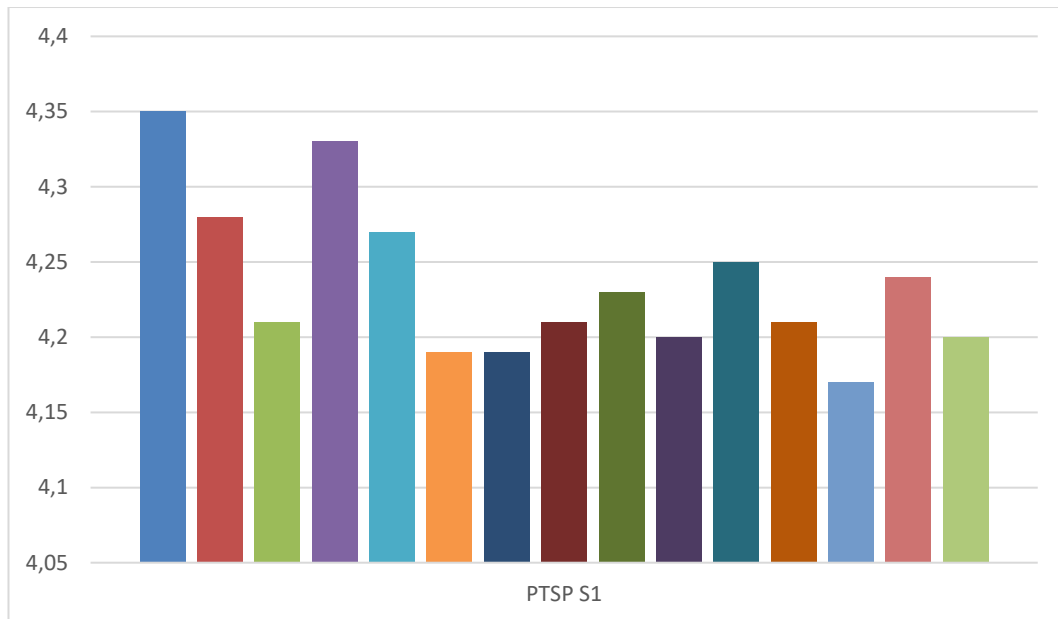


Figure 6. Monitoring and Evaluation of Lectures at the End of Semester for Odd Semester Theory Courses for the Academic Year 2021/2022 Civil Engineering Education and Planning Study Programme

Based on Table 13 and Figure 6, it is known that the results of the questionnaire monitoring and evaluation of lectures at the end of the semester for odd semester theory courses for the 2021/2022 Academic Year of the Civil Engineering Education and Planning Study Programme, Faculty of Engineering (FE), Yogyakarta State University have an average of 4.24. This shows that the implementation of end-of-semester lectures at the Civil Engineering and Planning Study Programme is in the **Very Good** category. The highest element was obtained by Civil Engineering and Planning Study Programme on the item Conformity of learning with the Module Handbook with a value of 4.35 in the **Very Good** category.

### C. Monitoring and Evaluation of Lectures for Laboratory Practice Courses

The Laboratory Practice course have its questionnaire instrument for monitoring and evaluating lectures at the end of the semester for laboratory courses. The instruments used in this laboratory course are specifically used to

monitor and evaluate laboratory class lectures. This questionnaire instrument consists of 15 items, including: (1) Conformity of practicum topics with Module Handbook; (2) Mastery of the lecturer according to the teaching materials practiced; (3) Clarity of assistance or demonstration before the implementation of practicum topics; (4) The significance of practicum teaching materials with the profession to be occupied; (5) Checking student attendance at each practicum implementation; (6) Compatibility of pre-test questions with practicum implementation; (7) Lecturer presence during practicum; (8) Clarity of practicum instructions/work sheets; (9) The intensity of lecturer guidance during practicum activities; (10) Lecturers pay special attention to students who experience difficulties in practicum; (11) Time effectiveness during curriculum implementation; (12) Discussion of the results of each practicum implementation; (13) Giving the opportunity to repeat the practicum for students who fail; (14) The ability of lecturers to increase students' active participation in practicums; and (15) Periodicity/phasing in conducting assessments during practicum continuously.

#### 1. Faculty of Engineering (FE)

The average results of monitoring and evaluation of lectures at the end of the semester for laboratory courses at Yogyakarta State University Faculty of Engineering can be seen in Table 14 and Figure 7.

Table 14. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Laboratory Courses for the Academic Year 2021/2022

No	Elements/Items	(BoEE E)	(BoEIE E)	(BoME E)	(BoA E)	(BoCE EP)	(BoCC E)	(FE )
1	The suitability of practicum topics with Module Handbook	4.40	4.39	4.14	4.38	4.32	4.36	<b>4.33</b>
2	Mastery of the lecturer according to the teaching materials practiced	4.37	4.36	4.08	4.36	4.30	4.31	<b>4.29</b>
3	Clarity of assistance or	4.27	4.25	3.93	4.13	4.17	4.21	<b>4.16</b>

No	Elements/Items	(BoEE E)	(BoEIE E)	(BoME E)	(BoA E)	(BoCE EP)	(BoCC E)	(FE )
	demonstration before the implementation of practicum topics							
4	The significance of practicum teaching materials with the profession to be occupied	4.34	4.32	4.09	4.32	4.27	4.34	<b>4.28</b>
5	Checking student attendance/attendance at each practicum implementation	4.31	4.29	4.07	4.33	4.26	4.26	<b>4.25</b>
6	Conformity of pre-test questions with practical implementation	4.28	4.25	4.02	4.30	4.17	4.24	<b>4.21</b>
7	Lecturer presence during practicum	4.29	4.26	3.96	4.34	4.17	4.24	<b>4.21</b>
8	Clarity of practicum instructions/work sheets	4.25	4.26	3.98	4.14	4.17	4.21	<b>4.17</b>
9	Intensity of lecturer guidance during	4.25	4.24	3.94	4.19	4.12	4.19	<b>4.16</b>

No	Elements/Items	(BoEE E)	(BoEIE E)	(BoME E)	(BoA E)	(BoCE EP)	(BoCC E)	(FE )
	practicum activities							
10	The lecturer pays special attention to students who experience difficulties in practicum	4.23	4.26	3.94	4.17	4.13	4.20	<b>4.16</b>
11	Effectiveness of time during the implementation of the curriculum	4.25	4.26	3.99	4.23	4.17	4.22	<b>4.19</b>
12	Discussion of the results of each practicum implementation	4.21	4.24	3.98	4.14	4.16	4.18	<b>4.15</b>
13	Giving the opportunity to repeat the practicum for students who fail	4.26	4.26	3.98	4.17	4.17	4.20	<b>4.17</b>
14	The ability of lecturers to increase students' active participation in practicum	4.26	4.24	3.98	4.23	4.16	4.20	<b>4.18</b>
15	Periodicity / phasing in	4.26	4.24	3.94	4.21	4.18	4.21	<b>4.17</b>

No	Elements/Items	(BoEE E)	(BoEIE E)	(BoME E)	(BoA E)	(BoCE EP)	(BoCC E)	(FE )
	conducting assessments during practicum continuously							
<b>Average</b>		<b>4.28</b>	<b>4.27</b>	<b>4.00</b>	<b>4.24</b>	<b>4.19</b>	<b>4.24</b>	<b>4.20</b>
<b>Category</b>		<b>Very Good</b>	<b>Very Good</b>	<b>Good</b>	<b>Very Good</b>	<b>Good</b>	<b>Very Good</b>	<b>Good</b>

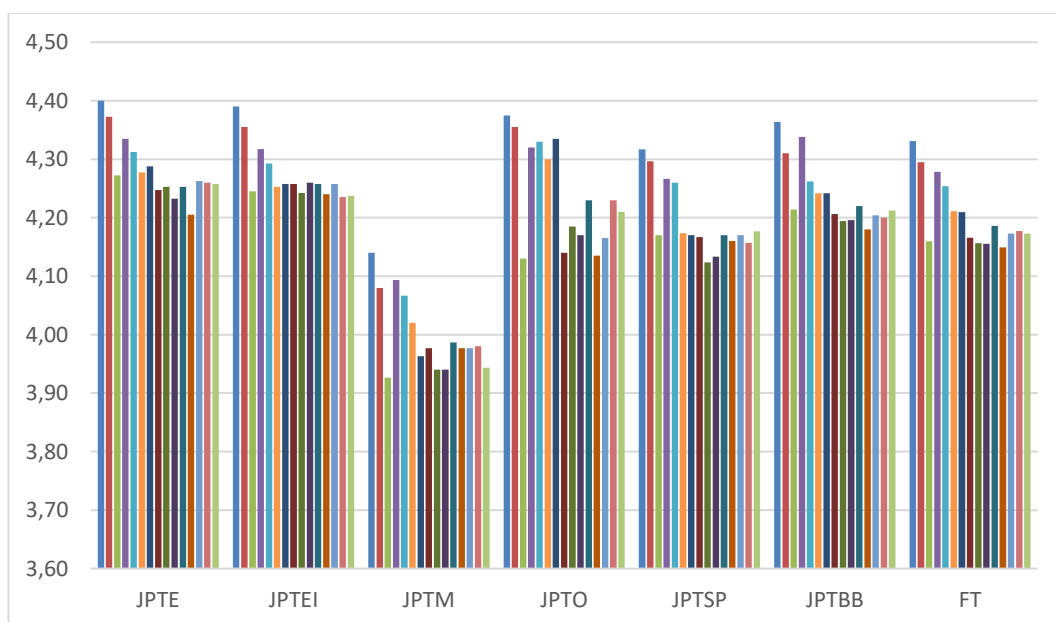


Figure 7. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Laboratory Courses for the Academic Year 2021/2022 Faculty of Engineering (FE)

Based on Table 14 and Figure 7, it is known that the results of the questionnaire monitoring and evaluation of lectures at the end of the semester for odd semester Laboratory courses for the Academic Year 2021/2022 Faculty of Engineering (FE) Yogyakarta State University have an average of 4.20 in the **Good** category. This shows that the implementation of lectures for laboratory



courses at the end of the semester at the Faculty of Engineering Yogyakarta State University is in a **Good** category.

## 2. Information Technology Study Programme

The average results of monitoring and evaluation of lectures at the end of the semester for Information Technology (IT) laboratory courses can be seen in Table 15 and Figure 8.

Table 15. Monitoring and Evaluation of Lectures at the End of the Semester for Odd Semester Laboratory Courses for the Academic Year 2021/2022.

No	Elements/Items	Information Technology
1	The suitability of practicum topics with Module Handbook	4.53
2	Mastery of the lecturer according to the teaching materials practiced	4.50
3	Clarity of assistance or demonstration before the implementation of practicum topics	4.37
4	The significance of practicum teaching materials with the profession to be occupied	4.47
5	Checking student attendance at each practicum implementation	4.41
6	Compatibility of pre-test questions with practical implementation	4.40
7	Lecturer presence during practicum	4.39
8	Clarity of practical instructions/worksheets	4.41
9	Intensity of lecturer guidance during practicum activities	4.36
10	The lecturer pays special attention to students who experience difficulties in practicum	4.43
11	Effectiveness of time during the implementation of the curriculum	4.39
12	Discussion of the results of each practicum implementation	4.37

No	Elements/Items	Information Technology
13	Giving the opportunity to repeat the practicum for students who fail	4.41
14	The ability of lecturers to increase students' active participation in practicum	4.34
15	Periodicity / phasing in conducting assessments during practicum continuously	4.38
<b>Average</b>		<b>4.41</b>
<b>Category</b>		<b>Very Good</b>

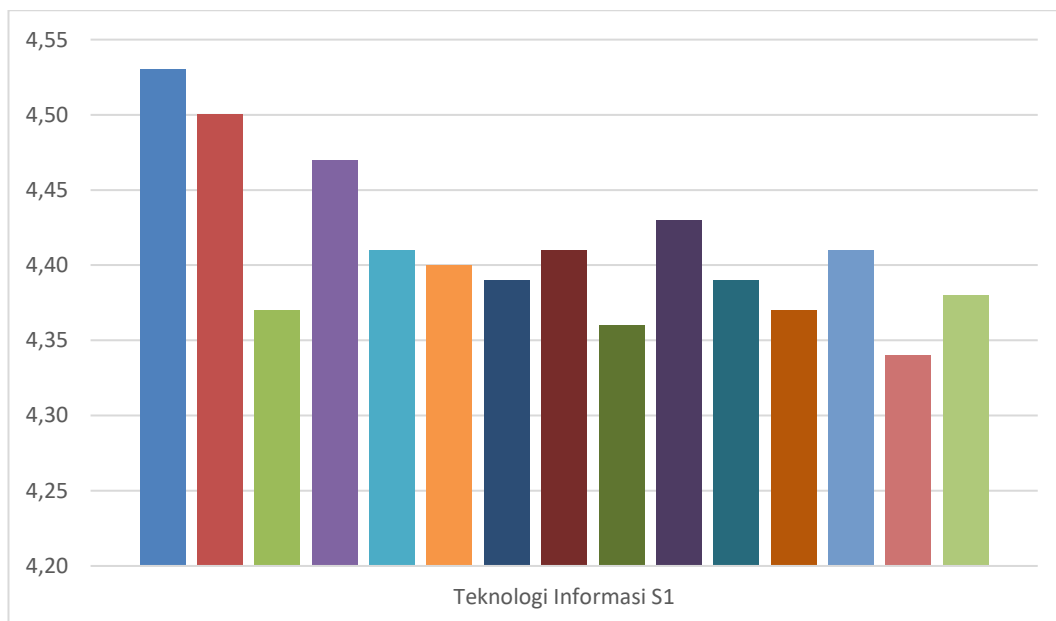


Figure 1. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022 IT

Based on Table 15 and Figure 8, it is known that the results of the questionnaire lecture monitoring and evaluation at the end of the semester for odd semester laboratory courses for the Academic Year 2021/2022 IT study programme Faculty of Engineering (FE) Yogyakarta State University have an average of 4.41. This shows that the implementation of lectures for laboratory courses at the end of the semester in the IT Study Programme is in **excellent**

category. The highest element was gained by the IT study programme in the item The compatibility of practicum topics with module handbook with a score of 4.53 in **excellent** category.

### 3. Electronics Engineering Education Study Programme

The average results of lecture monitoring and evaluation at the end of the semester for laboratory courses at EEE study programme can be seen in Table 15 and Figure 8.

Table 16. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022.

No	Elements/Items	Electronics Engineering Education
1	The compatibility of practicum topics with module handbook	4.33
2	The lecturer mastery with the practised teaching materials	4.31
3	The assistance clarity or demonstration before the implementation of practicum topics	4.18
4	The significance of practicum teaching materials with the profession to be pursued	4.24
5	Checking student attendance in every practicum implementation	4.27
6	Compatibility of pre-test questions with practicum implementation	4.17
7	Lecturer attendance during practicum	4.25
8	The clarity of practicum instructions and worksheets	4.21
9	Lecturer guidance intensity during practicum activities	4.20
10	The lecturer pays particular attention to students who face difficulties in practicum	4.17
11	Keefektifan waktu selama pelaksanaan kurikulum	4.22

No	Elements/Items	Electronics Engineering Education
	Time effectiveness during curriculum implementation	
12	Discussion of the results of every practicum implementation	4.18
13	Allowing retaking the practicum for students who failed	4.18
14	Lecturers' capability to increase students' active participation in practicum	4.18
15	Periodicity/sequencing in conducting assessments during practicum continuously	4.17
<b>Average</b>		<b>4.22</b>
<b>Category</b>		<b>Excellent</b>

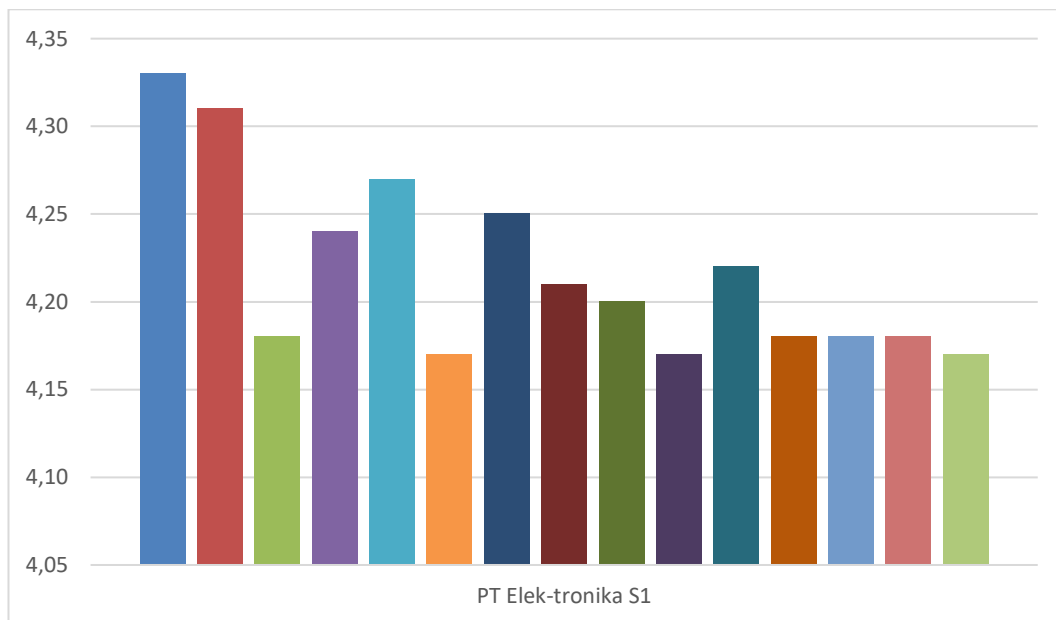


Figure 9. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022 EIEE

Based on Table 16 and Figure 9, it is known that the results of the questionnaire lecture monitoring and evaluation at the end of the semester for odd semester laboratory courses for the Academic Year 2021/2022 EEE study programme Faculty of Engineering (FE) Yogyakarta State University have an average of 4.22. This shows that the implementation of lectures for laboratory courses at the end of the semester in the EEE study programme is in **excellent** category. The highest element was gained in item The compatibility of practicum topics with semester learning plans with a score of 4,33 in **excellent** category.

#### 4. Mechanical Engineering Education Study Programme

The average results of lecture monitoring and evaluation at the end of the semester for laboratory courses at Mechanical Engineering Education (MEE) study programme can be seen in Table 17 and Figure 10.

Table 2. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022.

No	Elements/Items	Mechanical Engineering Education
1	The compatibility of practicum topics with module handbook	4.38
2	The lecturer mastery with the practised teaching materials	4.29
3	The assistance clarity or demonstration before the implementation of practicum topics	4.19
4	The significance of practicum teaching materials with the profession to be pursued	4.32
5	Checking student attendance in every practicum implementation	4.28
6	Compatibility of pre-test questions with practicum implementation	4.24
7	Lecturer attendance during practicum	4.30
8	The clarity of practicum instructions/worksheets	4.24
9	Lecturer guidance intensity during practicum activities	4.20
10	The lecturer pays particular attention to students who face difficulties in practicum	4.22
11	Time effectiveness during curriculum implementation	4.19
12	Discussion of the results of every practicum	4.29

No	Elements/Items	Mechanical Engineering Education
	implementation	
13	Allowing retaking the practicum for students who failed	4.29
14	Lecturers' capability to increase students' active participation in practicum	4.16
15	Periodicity/sequencing in conducting assessments during practicum continuously	4.21
<b>Average</b>		<b>4.25</b>
<b>Category</b>		<b>Excellent</b>

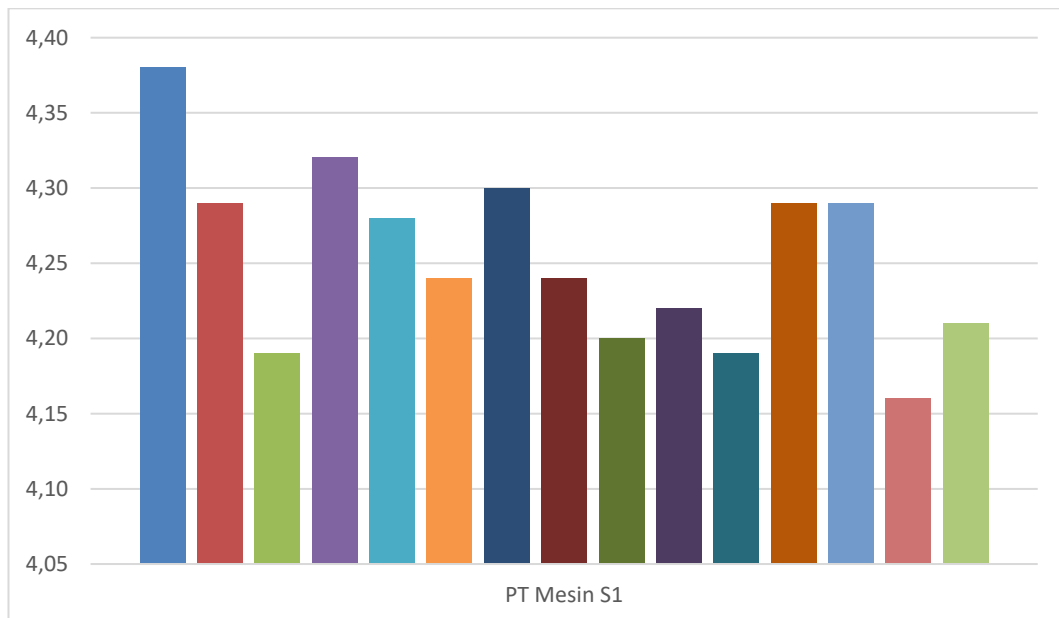


Figure 2. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022 MEE

Based on Table 17 and Figure 10, it is known that the results of the questionnaire lecture monitoring and evaluation at the end of the semester for odd semester laboratory courses for the Academic Year 2021/2022 MEE study programme Faculty of Engineering (FE) Yogyakarta State University have an average of 4.25. This shows that the implementation of lectures for laboratory courses at the end of the semester in the MEE study programme is in **excellent** category. The highest element was gained in item The compatibility of practicum topics with module handbook with a score of 4.59 in **excellent** category.

## 5. Automotive Education Study Programme

The mean results of lecture monitoring and evaluation at the end of the semester for laboratory courses at Automotive Education(AE) study programme can be seen in Table 18 and Figure 11.

Table 3. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022.

No	Elements/Items	Automotive Education
1	The compatibility of practicum topics with module handbook	4.35
2	The lecturer mastery with the practised teaching materials	4.37
3	The assistance clarity or demonstration before the implementation of practicum topics	4.25
4	The significance of practicum teaching materials with the profession to be pursued	4.37
5	Checking student attendance in every practicum implementation	4.33
6	Compatibility of pre-test questions with practicum implementation	4.31
7	Lecturer attendance during practicum	4.30
8	The clarity of practicum instructions/worksheets	4.25
9	Lecturer guidance intensity during practicum activities	4.25
10	The lecturer pays particular attention to students who face difficulties in practicum	4.23
11	Time effectiveness during curriculum implementation	4.25
12	Discussion of the results of every practicum implementation	4.17
13	Allowing retaking the practicum for students who failed	4.23
14	Lecturers' capability to increase students' active participation in practicum	4.25
15	Periodicity/sequencing in conducting assessments during practicum continuously	4.28
<b>Average</b>		<b>4.28</b>
<b>Category</b>		<b>Excellent</b>

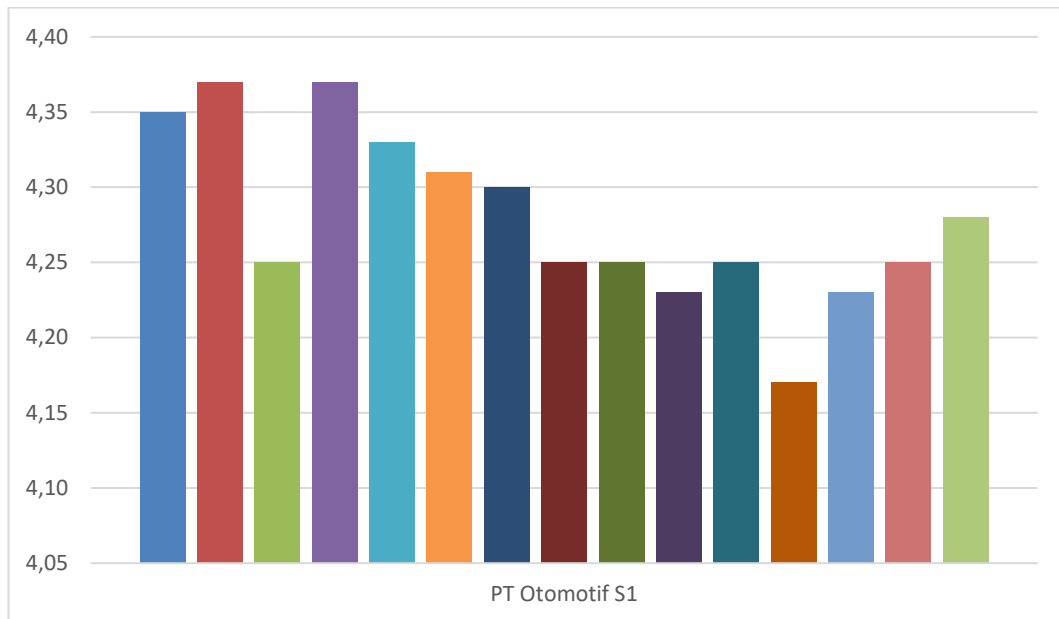


Figure 3. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022 AE

Based on Table 18 and Figure 11, it is known that the results of the questionnaire lecture monitoring and evaluation at the end of the semester for odd semester laboratory courses for the Academic Year 2021/2022 AE study programme Faculty of Engineering (FE) Yogyakarta State University have an average of 4.28. This shows that the implementation of lectures for laboratory courses at the end of the semester in the AE study programme is in **excellent** category. The highest element was gained in item The lecturer mastery with the practised teaching materials and The significance of practicum teaching materials with the profession to be pursued with a score of 3.37 in **excellent** category.

#### 6. Civil Engineering and Education Planning Study Programme

The average results of lecture monitoring and evaluation at the end of the semester for laboratory courses at Civil Engineering Education and Planning (CEEP) study programme can be seen in Table 19 and Figure 12.



Table4. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022.

No	Elements/Items	Civil Engineering and Education Planning
1	The compatibility of practicum topics with module handbook	4.46
2	The lecturer mastery with the practised teaching materials	4.40
3	The assistance clarity or demonstration before the implementation of practicum topics	4.28
4	The significance of practicum teaching materials with the profession to be pursued	4.38
5	Checking student attendance in every practicum implementation	4.36
6	Compatibility of pre-test questions with practicum implementation	4.27
7	Lecturer attendance during practicum	4.26
8	The clarity of practicum instructions/worksheets	4.31
9	Lecturer guidance intensity during practicum activities	4.26
10	The lecturer pays particular attention to students who face difficulties in practicum	4.27
11	Time effectiveness during curriculum implementation	4.29
12	Discussion of the results of every practicum implementation	4.28
13	Allowing retaking the practicum for students who failed	4.28
14	Lecturers' capability to increase students' active participation in practicum	4.27
15	Periodicity/sequencing in conducting assessments during practicum continuously	4.31
<b>Average</b>		<b>4.31</b>
<b>Category</b>		<b>Excellent</b>

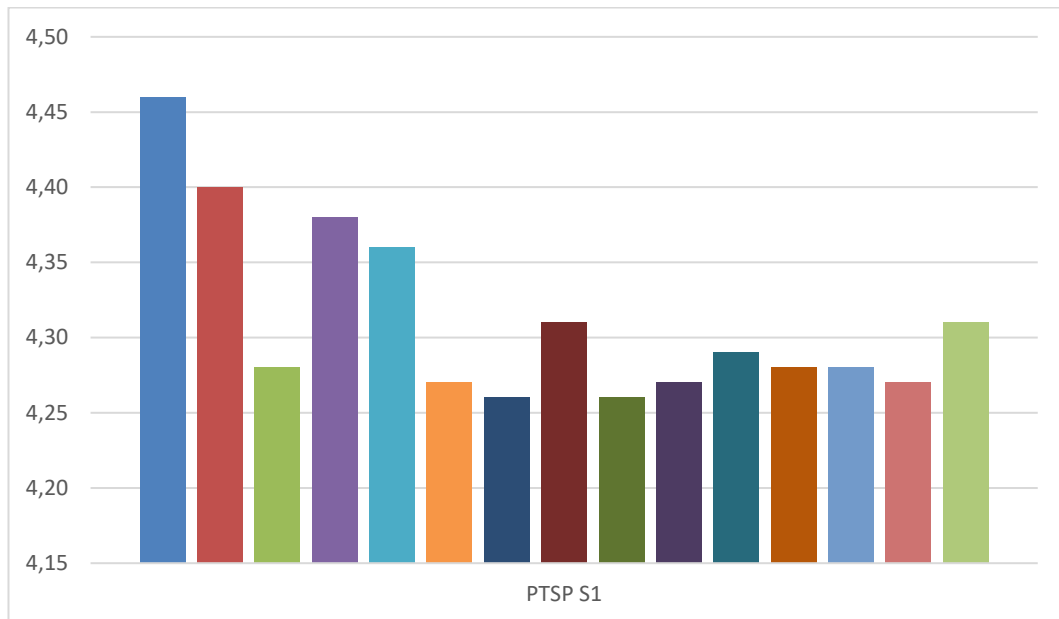


Figure 4. Lecture Monitoring and Evaluation at the End of Semester Laboratory Courses for Odd Semester Academic Year 2021/2022 CEEP

Based on Table 19 and Figure 12, it is known that the results of the questionnaire lecture monitoring and evaluation at the end of the semester for odd semester laboratory courses for the Academic Year 2021/2022 Civil Engineering Education and Planning (CEEP) study programme Faculty of Engineering (FE) Yogyakarta State University have an average of 4.31. This shows that the implementation of lectures for laboratory courses at the end of the semester in the CEEP study programme is in **excellent** category. The highest element was gained in item The compatibility of practicum topics with module handbook with a score of 4,46 in **excellent** category.

#### D. Lecture Monitoring and Evaluation of Practical Workshop Courses

The Workshop Practice course has its own questionnaire instrument for lectures monitoring and evaluating at the end of the workshop course semester. The instruments used in this workshop course are used specifically to monitor and evaluate workshop class lectures. This questionnaire instrument consists of 16 items, including: (1) The compatibility of workshop practice teaching materials on every meeting with the module handbook; (2) The significance of

workshop practice teaching materials with the profession to be pursued; (3)The compatibility ofworkshop practise teaching materials with teaching materials in theory; (4) Lecturer mastery of workshop practice teaching materials; (5) Clarity of lecturers in presenting workshop practice teaching materials; (6) Presentation of Occupational Safety & Health (K3) at the beginning of every meeting;(7) Effective use of time during workshop practice;(8) The lecturer's accuracy in selecting the method to present workshop practise teaching materials in the job sheet; (9) The lecturer's capability to demonstrate example in the job sheet; (10) Lecturer guidance intensity during workshop practise;(11)The lecturer's sincerity in assisting students who face difficulties in workshop practice; (12) The lecturer's capability in motivating students to succeed in working on job sheets;(13) Lecturers' capability to increase students' active participation in working on job sheets;(14) Lecturers' capability to respond to questions and student opinions; (15) The compatibility of the teaching materials tested with the workshop practise teaching materials studied; and (16) Discussion of assignment and midterm exam results for practical courses.

#### 1. Faculty of Engineering

The average results of lecture monitoring and evaluation at the end of the semester for workshop courses study programme Faculty of Engineering (FE) Yogyakarta State University have an average at can be seen in Table 20 and Figure 13.

Table 5. Lecture Monitoring and Evaluation at the End of Semester Workshop Courses for Odd Semester Academic Year 2021/2022.

No	Elements/items	EEE	MEE	CCE	FE
1	The compatibility of workshop practice teaching materials on every meeting with the module handbook	4.04	4.36	4.42	<b>4.37</b>
2	The significance of workshop practice teaching materials with the profession to be pursued	3.95	4.34	4.39	<b>4.25</b>
3	The compatibility ofworkshop practise teaching materials with teaching materials in theory	4.08	4.32	4.37	<b>4.27</b>

No	Elements/items	EEE	MEE	CCE	FE
4	Lecturer mastery of workshop practice teaching materials	4.03	4.33	4.37	<b>4.35</b>
5	Clarity of lecturers in presenting workshop practice teaching materials	3.77	4.27	4.34	<b>4.18</b>
6	Presentation of Occupational Safety & Health (K3) at the beginning of every meeting	3.87	4.30	4.30	<b>4.20</b>
7	Effective use of time during workshop practice	4.02	4.26	4.31	<b>4.23</b>
8	The lecturer's accuracy in selecting the method to present workshop practise teaching materials in the job sheet	3.93	4.27	4.34	<b>4.30</b>
9	The lecturer's capability to demonstrate example in the job sheet	4.05	4.27	4.33	<b>4.24</b>
10	Lecturer guidance intensity during workshop practise	3.98	4.20	4.30	<b>4.29</b>
11	The lecturer's sincerity in assisting students who face difficulties in workshop practice	3.99	4.26	4.34	<b>4.23</b>
12	The lecturer's capability in motivating students to succeed in working on job sheet	3.85	4.25	4.34	<b>4.19</b>
13	The lecturers' capability to increase students' active participation in working on job sheet	3.97	4.25	4.31	<b>4.30</b>
14	The lecturers' capability to respond to questions and student opinions	4.06	4.31	4.35	<b>4.35</b>
15	The compatibility of the teaching materials tested with the workshop practise teaching materials studied	3.96	4.30	4.36	<b>4.23</b>
16	Discussion of assignment and midterm exam results for practical courses	3.89	4.19	4.31	<b>4.18</b>
<b>Average</b>		<b>3.96</b>	<b>4.28</b>	<b>4.34</b>	<b>4.26</b>
<b>Category</b>		<b>Good</b>	<b>Excellent</b>	<b>Excellent</b>	<b>Excellent</b>

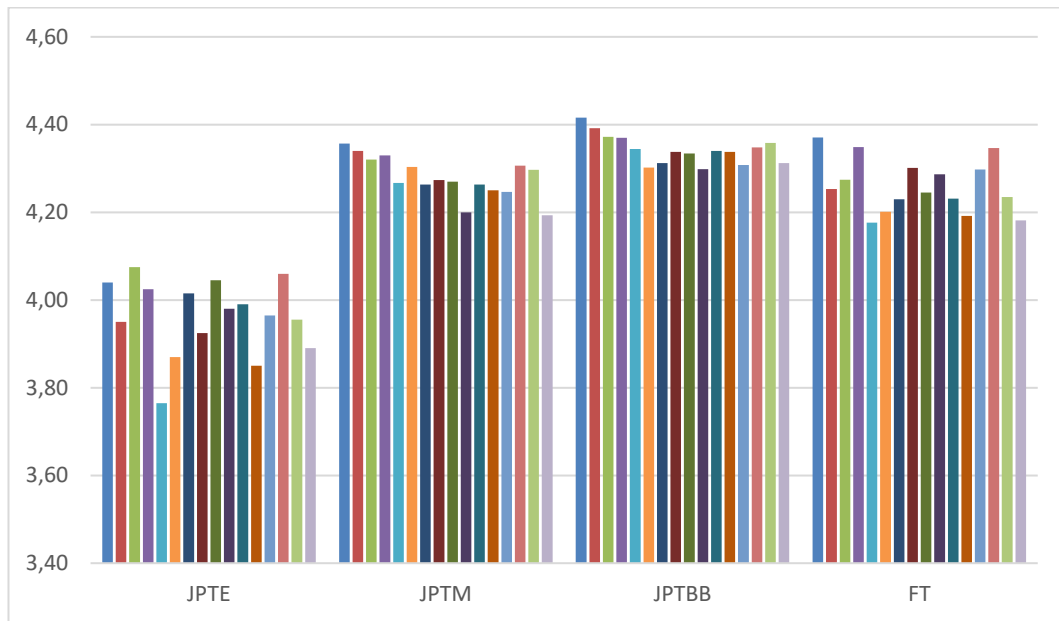


Figure 5. Lecture Monitoring and Evaluation at the End of Semester Workshop Courses for Odd Semester Academic Year 2021/2022 Faculty of Engineering (FE)

Based on Table 20 and Figure 13, it is known that the results of the questionnaire lecture monitoring and evaluation at the end of the semester for odd semester Workshop courses for the Academic Year 2021/2022 Faculty of Engineering (FE) Yogyakarta State University have an average of 4,26 in **excellent** category. This shows that the implementation of lectures for laboratory courses at the end of the semester is performing well. EIEE, AE and CEEP did not fill out a monitoring and evaluation questionnaire for workshop courses because in the Odd Semester Academic Year 2021/2022 there were no workshop courses conducted.

## 2. Mechanical Engineering Education Study Programme

The average results of lecture monitoring and evaluation at the end of the semester for workshop courses Mechanical Engineering Education (MEE) study programme at can be seen in Table 21 and Figure 14.

Table 6. Lecture Monitoring and Evaluation at the End of Semester Workshop Courses for Odd Semester Academic Year 2021/2022.

Table 7. Lecturers' Monitoring and Evaluation at the End of Odd Semester for Workshop Courses for the Academic Year 2021/2022.

No	Elements/Items	Mechanical Engineering Education
1	The suitability of the workshop practice teaching materials for each meeting with the Module Handbook	4.35
2	The significance of workshop practice teaching materials with the profession to be occupied	4.30
3	Conformity of workshop practice teaching materials with teaching materials in theory	4.29
4	Lecturer mastery of workshop practice teaching materials	4.31
5	Lecturer clarity in delivering workshop practice teaching materials	4.23
6	Submission of Occupational Safety & Health (K3) at the beginning of each meeting	4.29
7	Effective use of time during workshop practice	4.25
8	The accuracy of the lecturer in choosing the method of delivering workshop practice teaching materials in a job sheet	4.26
9	The lecturer's ability to demonstrate examples according to the job sheet	4.27
10	Intensity of lecturer guidance during workshop practice	4.16
11	The sincerity of the lecturers in helping students who have difficulty practicing workshops	4.23
12	The ability of lecturers to motivate students to succeed in working on job sheets	4.25
13	The ability of lecturers to increase the active participation of students in working on job sheets	4.23
14	The ability of lecturers to respond to questions and student opinions	4.28
15	The suitability of the teaching materials tested with the workshop practice teaching materials studied	4.28
16	Discussion of assignment results and midterm exam results for practical courses	4.14
<b>Average</b>		<b>4.26</b>
<b>Category</b>		<b>Very good</b>

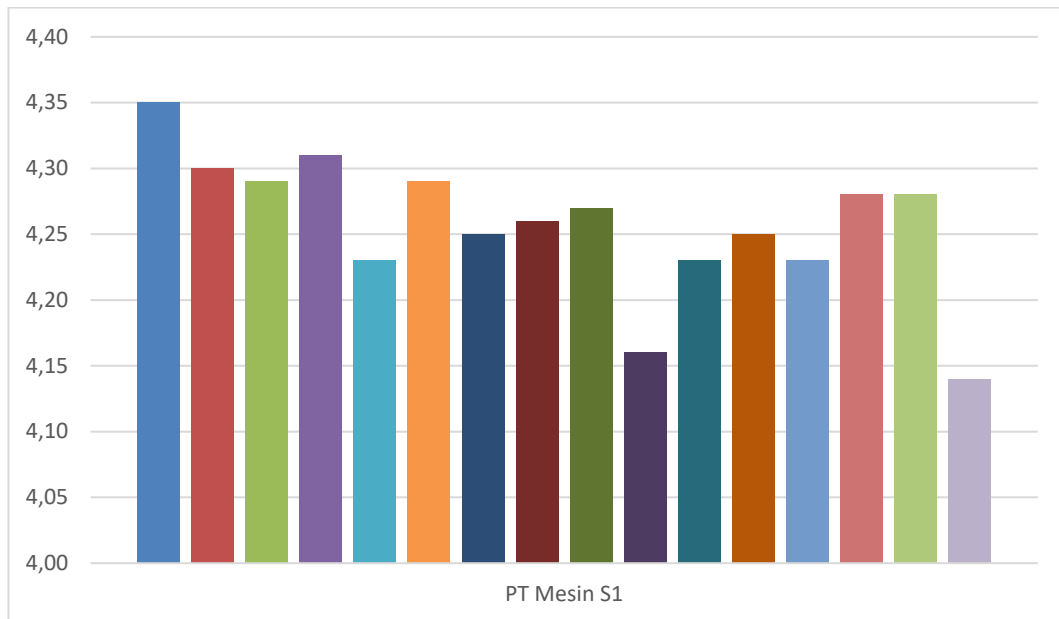


Figure 6. Lectures' Monitoring and Evaluation at the End of Odd Semester for Workshop Courses for Academic Year 2021/2022 JPTM

Based on Table 21 and Figure 14, it is known that the results of the questionnaire lectures' monitoring and evaluation at the end of the semester for odd semester of workshop courses for the academic year 2021/2022, the PTM FT UNY Study Program, obtains an average score of 4.26. It shows that the implementation of workshop courses at the end of the semester in the PTM Study Program is running very well. The highest element is found in the item of the suitability of the workshop practice teaching materials for each meeting with the Module Handbook with a value of 4.35 in the very good category.

#### E. Monitoring and Evaluation of Final Project Course

The final project course has its own questionnaire instrument for lectures' monitoring and evaluating at the end of the semester. The instruments used in this final project course are used specifically to monitor and evaluate lectures for final project courses. This questionnaire instrument consists of 12 items, including: (1) adequacy of study programs in organizing pre-proposal training; (2) conformity of the final project with the lecturer's umbrella research; (3) scheduling by lecturers for the process of guiding the

completion of the final project; (4) the use of guidance books/cards in the final project is monitored by using guidance books/cards; (5) the quality of the validation process in completing the final project; (6) ease of communicating with supervisors; (7) lecturer support in providing solutions to problems in completing the final project; (8) lecturer's accuracy of the revision results in the process of writing the final project; (9) support from supervising lecturers in assisting students to obtain appropriate and up-to-date library resources; (10) adequacy of meeting intensity with supervising lecturers in completing the final project; (11) guiding lecturers to students to avoid plagiarism in writing their final project; and (12) study program monitoring of the progress of completing the final project (for example, there are meetings involving students and supervisors and study programs). (10) adequacy of meeting intensity with supervising lecturers in completing the final project; (11) guiding lecturers to students to avoid plagiarism in writing their final project; and (12) study program monitoring of the progress of completing the final project (for example, there are meetings involving students and supervisors and study programs); (10) adequacy of meeting intensity with supervising lecturers in completing the final project; (11) guiding lecturers to students to avoid plagiarism in writing their final project; and (12) study program monitoring of the progress of completing the final project (for example, there are meetings involving students and supervisors and study programs).

#### 1. Faculty of Engineering

The average results of lectures' monitoring and evaluation of lectures at the end of the semester for the final project course at UNY Faculty of Engineering can be seen on Table 8 and Figure 7.

Table 8. Lectures' Monitoring and Evaluation at the End of Odd Semester on Final Project Course of the Academic Year 2021/2022.

No	Elements/Items	JPTE	JPTEI	JPTM	JPTO	JPTSP	JPTBB	FT
1	Adequacy of study programs in organizing pre-proposal training.	3.93	4.08	4.14	4.08	4.14	4.11	<b>4.08</b>
2	Conformity of the final project with the lecturer's umbrella research.	4.25	4.11	4.11	4.14	4.62	4.23	<b>4.24</b>



<b>No</b>	<b>Elements/Items</b>	<b>JPTE</b>	<b>JPTEI</b>	<b>JPTM</b>	<b>JPTO</b>	<b>JPTSP</b>	<b>JPTBB</b>	<b>FT</b>
3	Scheduling by the lecturer on the process of guiding the completion of the final project.	4.27	4.14	4.12	4.1	4,595	4.14	<b>4.23</b>
4	The use of guidance books/cards in the final project is monitored using guidance books/cards.	4.11	3.97	4.10	4.03	4,345	3.94	<b>4.08</b>
5	The quality of the validation process in completing the final project.	4.24	4.20	4.12	4.22	4.33	4.17	<b>4.21</b>
6	Ease of communicating with supervisors.	4.30	4.18	4.13	4.3	4.67	4.27	<b>4.31</b>
7	Lecturer support in providing solutions to problems in completing the final project.	4.29	4.27	4.16	4.23	4.68	4.24	<b>4.31</b>
8	Lecturer's attention to revision results in the process of writing the final project.	4.27	4.25	4.11	4.26	4,655	4.26	<b>4.30</b>
9	Supervising lecturer support in helping students to obtain appropriate and up-to-date library resources.	4.26	4.25	4.16	4.25	4,625	4.19	<b>4.29</b>
10	Adequacy of the intensity of meetings with supervisors in completing the final project.	4.19	4.12	4.15	4.16	4.65	4.15	<b>4.24</b>
11	Guidance of supervising lecturers to students to avoid plagiarism in writing the final project.	4.25	4.20	4.18	4.29	4.64	4.17	<b>4.29</b>
12	Study program monitoring of the progress of completing the final project (for example there are meetings involving students and supervisors and study programs).	3.97	4.09	4.08	4.17	4,355	4.13	<b>4.13</b>
<b>Average</b>		<b>4.19</b>	<b>4.15</b>	<b>4.13</b>	<b>4.19</b>	<b>4.53</b>	<b>4.17</b>	<b>4.23</b>
<b>Category</b>		<b>Good</b>	<b>Good</b>	<b>Good</b>	<b>Good</b>	<b>Very good</b>	<b>Good</b>	<b>Very good</b>

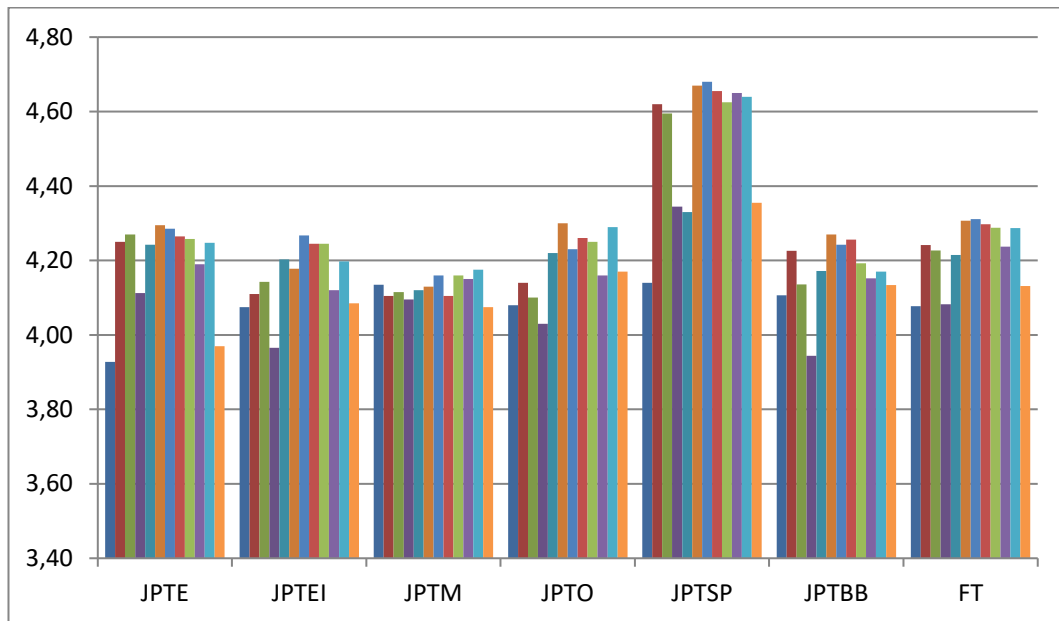


Figure 7. Lecturers' Monitoring and Evaluation in the End of Odd Semester for Final Project Course for the Academic Year 2021/2022 FT UNY

Based on Table 8 and Figure 7, it is known that the results of the lectures' monitoring and evaluation questionnaire filling at the end of the odd semester on final project course for academic year 2021/2022 FT UNY have an average of 4.23 in the very good category. It shows that the implementation of lectures for project courses at the end of the semester at FT UNY is in a very good category.

## 2. Electronic Engineering Education Study Program

The average results of lectures' monitoring and evaluation at the end of the semester for the final project of the Electronic Engineering Education Study Program (PTE) can be seen on Table 9 and Figure 8.

Table 9. Lecturers' Monitoring and Evaluation at the End of Odd Semester on Final Project Courses for the Academic Year 2021/2022.

No	Elements/Items	Electronic Engineering Education Study Program
1	Adequacy of study programs in organizing pre-proposal training.	3.70
2	Conformity of the final project with the lecturer's	3.67

No	Elements/Items	Electronic Engineering Education Study Program
	umbrella research.	
3	Scheduling by the lecturer on the process of guiding the completion of the final project.	3.67
4	The use of guidance books/cards in the final project is monitored using guidance books/cards.	3.70
5	The quality of the validation process in completing the final project.	3.81
6	Ease of communicating with supervisors.	3.67
7	Lecturer's support in providing solutions to problems in completing the final project.	3.81
8	Lecturer's attention to revision results in the process of writing the final project.	3.85
9	Supervising lecturer support in helping students to obtain appropriate and up-to-date library resources.	3.70
10	Adequacy of the intensity of meetings with supervisors in completing the final project.	3.59
11	Guidance of supervising lecturers to students to avoid plagiarism in writing the final project.	3.67
12	Study program monitoring of the progress of completing the final project (for example there are meetings involving students and supervisors and study programs).	3.59
<b>Average</b>		<b>3.70</b>
<b>Category</b>		<b>Good</b>

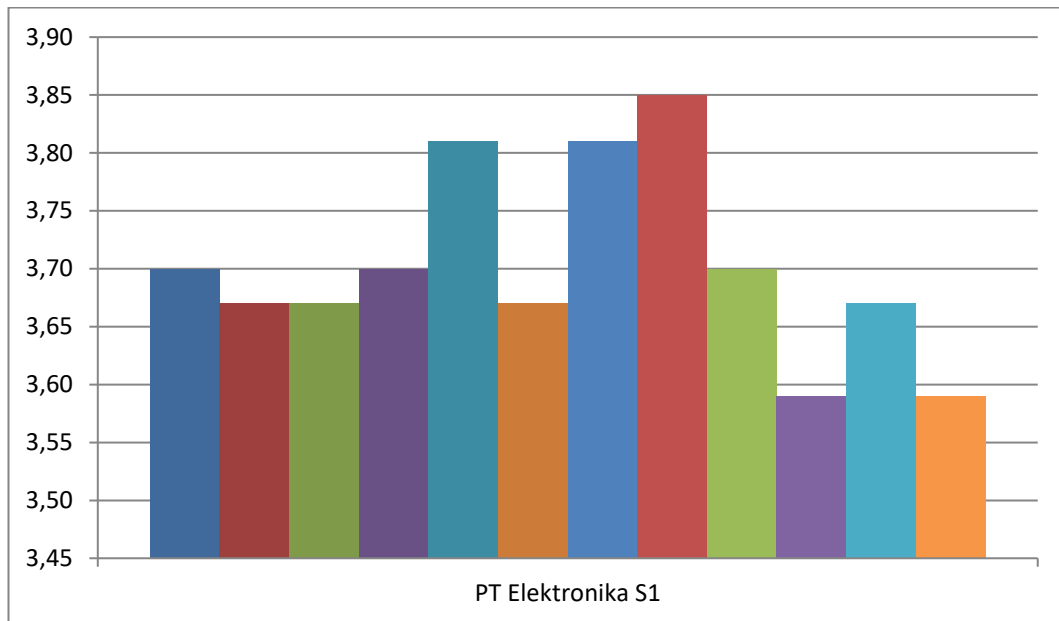


Figure 8. Lectures' Monitoring and Evaluation at the End of Odd Semester on Laboratory Courses for Academic Year 2021/2022 JPTEI

Based on Table 9 and Figure 8, it is known that the results of the questionnaire lectures' monitoring and evaluation in the end of odd semester on final project for the Academic Year 2021/2022 of PTE FT UNY Study Program have an average 3.7. It shows that the implementation of lectures for final project courses at the end of the semester in Electronic Engineering Education is in a good category.

### 3. Mechanical Engineering Education Study Program

The average results of monitoring and evaluation of lectures at the end of the semester for the Final Project of the Mechanical Engineering Education (PTM) study program can be seen on Table 10 and Figure 9.

Table 10. Lectures' Monitoring and Evaluation at the End of Odd Semester on Final Project Courses for the Academic Year 2021/2022.

No	Elements/Items	Mechanical Engineering Education Study Program
1	Adequacy of study programs in organizing pre-proposal	3.81

No	Elements/Items	Mechanical Engineering Education Study Program
	training.	
2	Conformity of the final project with the lecturer's umbrella research	3.82
3	Scheduling by the lecturer on the process of guiding the completion of the final project.	3.80
4	The use of guidance books/cards in the final project is monitored using guidance books/cards.	3.76
5	The quality of the validation process in completing the final project.	3.81
6	Ease of communicating with supervisors.	3.87
7	Lecturer support in providing solutions to problems in completing the final project.	3.86
8	Lecturer's attention to revision results in the process of writing the final project.	3.82
9	Supervising lecturer support in helping students to obtain appropriate and up-to-date library resources.	3.86
10	Adequacy of the intensity of meetings with supervisors in completing the final project.	3.87
11	Guidance of supervising lecturers to students to avoid plagiarism in writing the final project.	3.89
12	Study program monitoring of the progress of completing the final project (for example there are meetings involving students and supervisors and study programs).	3.79
	<b>Average</b>	<b>3.83</b>
	<b>Category</b>	<b>Good</b>

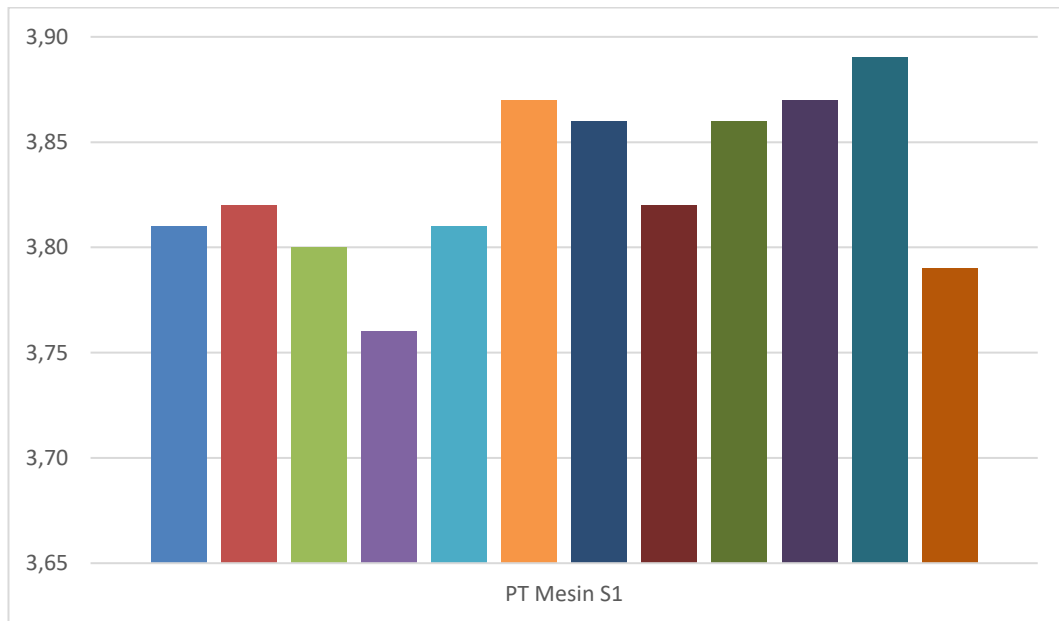


Figure 9. Lectures' Monitoring and Evaluation in the end of Odd Semester Lectures for Final Project Courses for Academic Year 2021/2022 JPTM

Based on Table 10 and Figure 9, it is known that the results of the lectures' monitoring and evaluation questionnaire filling in the end of odd semester lectures for final project courses for academic year 2021/2022 of the PTM FT UNY Study Program have an average of 3.83. It shows that the implementation of lectures for final project courses at the end of the semester in the PTM Study Program is in a good category.

#### 4. Automotive Engineering Education Study Program

The average results of lectures' monitoring and evaluation of lectures at the end of the semester for the Final Project of the Automotive Engineering Education (PTO) study program can be seen on Table 11 and Figure 10.

Table 11. Lectures' Monitoring and Evaluation of Lectures at the End of the Odd Semester for Final Project Courses for the Academic Year 2021/2022.

No	Elements/Items	Automotive Engineering Education
1	Adequacy of study programs in organizing pre-proposal training.	4.08
2	Conformity of the final project with the lecturer's umbrella research.	4.14

No	Elements/Items	Automotive Engineering Education
3	Scheduling by the lecturer on the process of guiding the completion of the final project.	4.10
4	The use of guidance books/cards in the final project is monitored using guidance books/cards.	4.03
5	The quality of the validation process in completing the final project.	4.22
6	Ease of communicating with supervisors.	4.30
7	Lecturer support in providing solutions to problems in completing the final project.	4.23
8	Lecturer's attention to revision results in the process of writing the final project.	4.26
9	Supervising lecturer support in helping students to obtain appropriate and up-to-date library resources.	4.25
10	Adequacy of the intensity of meetings with supervisors in completing the final project.	4.16
11	Guidance of supervising lecturers to students to avoid plagiarism in writing the final project.	4.29
12	Study program monitoring of the progress of completing the final project (for example there are meetings involving students and supervisors and study programs).	4.17
<b>Average</b>		<b>4.19</b>
<b>Category</b>		<b>Good</b>

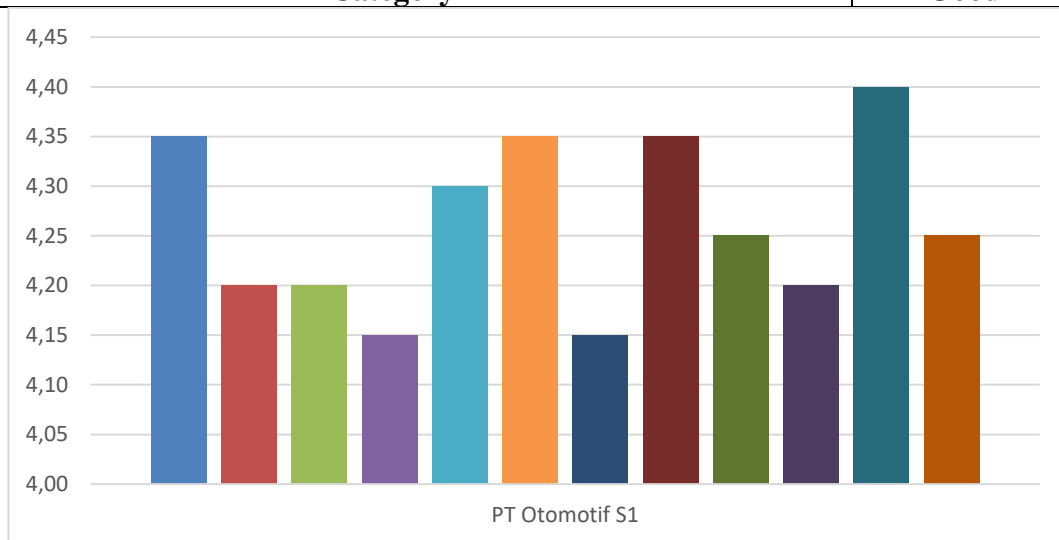


Figure 10. Lectures' Monitoring and Evaluation in the End of Odd Semester for Final Project Courses for Academic Year 2021/2022 PTO

Based on Table 11 and Figure 10, it is known that the results of the lectures' monitoring and evaluation questionnaire filling at the end of the odd

semester for Final project course for the Academic Year 2021/2022 PTO FT UNY Study Program have an average of 4.19. This shows that the implementation of lectures for final project courses at the end of the semester in the PTO Study Program is in a good category.

#### 5. Civil Engineering and Planning Study Program

The average results of lectures' monitoring and evaluation at the end of the semester for the Final project Study Program of Civil Engineering and Planning (PTSP) can be seen on Table 12 and Figure 11.

Table 12. Lectures' Monitoring and Evaluation at the End of Odd Semester on Final Project Courses for the Academic Year 2021/2022.

No	Elements/Items	Civil Engineering and Planning
1	Adequacy of study programs in organizing pre-proposal training.	4.28
2	Conformity of the final project with the lecturer's umbrella research.	4.24
3	Scheduling by the lecturer on the process of guiding the completion of the final project.	4.19
4	The use of guidance books/cards in the final project is monitored using guidance books/cards.	4.19
5	The quality of the validation process in completing the final project.	4.16
6	Ease of communicating with supervisors.	4.34
7	Lecturer support in providing solutions to problems in completing the final project.	4.36
8	Lecturer's attention to revision results in the process of writing the final project.	4.31
9	Supervising lecturer support in helping students to obtain appropriate and up-to-date library resources.	4.25
10	Adequacy of the intensity of meetings with supervisors in completing the final project.	4.30
11	Guidance of supervising lecturers to students to avoid plagiarism in writing the final project.	4.28
12	Study program monitoring of the progress of completing the final project (for example there are meetings involving students and supervisors and study programs).	4.21
<b>Average</b>		<b>4.26</b>
<b>Category</b>		<b>Very good</b>



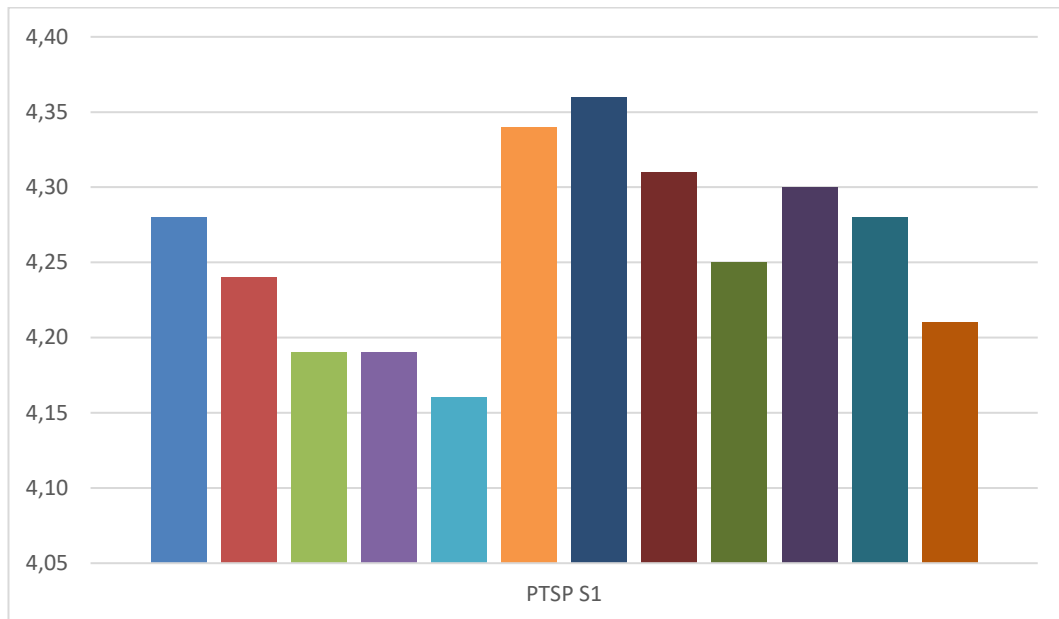


Figure 11. Lectures' Monitoring and Evaluation in the End of Odd Semester for Final Project Courses for the Academic Year 2021/2022 JPTSP

Based on Table 12 and Figure 11, it is known that the results of the questionnaire lectures' monitoring and evaluation the End of Odd Semester for Final Project Courses for the Academic Year 2020/2019 of the PTSP FT UNY Study Program have an average of 4.26. It shows that the implementation of lectures for final project courses at the end of the semester in the PTSP Study Program is in a very good category.

## F. Recommendation

Based on the results that have been described, the following recommendations can be offered:

1. Implementation of lectures in theory courses in the Very Good category for all FT UNY, this result must be maintained.
2. Implementation of lectures for laboratory courses in the Good category for all FT UNY, these results must be improved.
3. Implementation of workshop courses in the Very Good category for all FT UNY, this result must be maintained.

4. Implementation of lectures for Final Project courses in the Very Good category for all FT UNY, this result must be maintained.
5. It is necessary to involve students in completing learning monitoring and evaluation, especially for students taking the Final Project course.

Yogyakarta, 16 February 2022

FT UNY Audit and Money Division  
Team



**Quality Assurance Unit  
Faculty of Engineering  
Yogyakarta State University**