Chapter Four

Findings and Discussions

This chapter provides the findings and the discussions of the data analysis. The findings are the results of the data collected by the researcher and analyzed using SPSS. This research also provides discussions about the findings of the study. This research reveals whether the findings of the study prove the hypothesis or not.

Findings

The researcher used descriptive statistics method to identify the condition of teacher leadership at EED of UMY and the condition of students' learning achievement at EED of UMY. The researcher used inferential statistics to identify the correlation between teacher leadership and students learning achievement. The researcher collected the data through questionnaire from 62 respondents and analyzed the data using SPSS to obtain the findings. The findings of this study are divided into three parts:

The normality test. Before analyzed the data, the researcher did the normality test. The normality test was used to acknowledge the normality of the data on each variable. In normality test, if the sig value is greater than 0.05 (sig value > 0.05), it means that the data is normal. Based on the results of the research, the table shows that the significant value of this research was 0.088. It means that 0.088 is greater than 0.05 (0.088 > 0.05), so that all of the research variables was normally distributed.

The results of the normality test are presented below:

Table 7
One-Sample Kolmogorov-Smirnov Test

| | | Total |
|-----------------------------------|----------------|-------|
| N | | 62 |
| Normal Parameters ^{a,,b} | Mean | 61.44 |
| | Std. Deviation | 5.875 |
| Most Extreme | Absolute | .159 |
| Differences | Positive | .159 |
| | Negative | 097 |
| Kolmogorov-Smirnov Z | Z | 1.249 |
| Asymp. Sig. (2-tailed) | | .088 |

a. Test distribution is Normal.

b. Calculated from data.

Teacher Leadership at EED of UMY. Inorder to analyze the data about teacher leadership, the researcher makes the range score based on the mean value. The interval formulation is from Supranto (2000). The formula is presented below:

$$C = Xn - X_1$$
k

C = the range prediction

k = the number of class that research wants

Xn = the maximum score of variable

 X_1 = the minimum score of variable

| Table 8 | Table 8 | | | | | | |
|---------------|---|--|--|--|--|--|--|
| The range sco | The range score for teacher leadership | | | | | | |
| Value | Value Category | | | | | | |
| 3.01 – 4.00 | Good | | | | | | |
| | (Teachers fulfill all of the requirements of teacher leadership) | | | | | | |
| 2.01 – 3.00 | Average | | | | | | |
| | (Teachers almost fulfill all of the requirements of teacher leadership) | | | | | | |
| 1.00 - 2.00 | Poor | | | | | | |
| | (Teachers cannot fulfill the requirements of teacher leadership) | | | | | | |

Based on the data analysis using SPSS, the results showed that the mean score of the questionnaire items was 3.07. So based on the categories of teacher leadership, this score was included in "good" category. It means that teachers at EED of UMY already fulfill all of the requirements of teacher leadership.

The mean score of teacher leadership are presented below:

Table 9
Teacher Leadership

| N | Valid | 62 |
|---------|----------|--------|
| | Missing | 0 |
| Mean | | 3.0718 |
| Mediar | 1 | 3.0000 |
| Mode | | 3.00 |
| Std. De | eviation | .29374 |
| Minimu | ım | 2.50 |
| Maxim | um | 3.95 |

The total mean score of teacher leadership of each item in the questionnaire are presented in the table below:

Table 10

Descriptive statistics teacher leadership

| | N | Mean | Maximum | Minimum | Std. Deviation |
|-------|----|-------|---------|---------|----------------|
| Q1 | 62 | 2.77 | 4 | 2 | 0.525 |
| Q2 | 62 | 2.87 | 4 | 2 | 0.495 |
| Q3 | 62 | 3.26 | 4 | 2 | 0.477 |
| Q4 | 62 | 2.92 | 4 | 2 | 0.522 |
| Q5 | 62 | 2.97 | 4 | 2 | 0.511 |
| Q6 | 62 | 3.16 | 4 | 1 | 0.578 |
| Q7 | 62 | 3.37 | 4 | 2 | 0.520 |
| Q8 | 62 | 3.03 | 4 | 2 | 0.511 |
| Q9 | 62 | 2.98 | 4 | 2 | 0.528 |
| Q10 | 62 | 3.13 | 4 | 2 | 0.461 |
| Q11 | 62 | 2.92 | 4 | 2 | 0.609 |
| Q12 | 62 | 3.15 | 4 | 2 | 0.539 |
| Q13 | 62 | 3.13 | 4 | 2 | 0.495 |
| Q14 | 62 | 3.16 | 4 | 2 | 0.486 |
| Q15 | 62 | 3.05 | 4 | 2 | 0459 |
| Q16 | 62 | 3.15 | 4 | 2 | 0.474 |
| Q17 | 62 | 2.95 | 4 | 2 | 0.493 |
| Q18 | 62 | 3.23 | 4 | 3 | 0.422 |
| Q19 | 62 | 3.15 | 4 | 2 | 0.399 |
| Q20 | 62 | 3.10 | 4 | 2 | 0.469 |
| TOTAL | 62 | 61.44 | 79 | 50 | 5.875 |

The category of mean score from every item in the questionnaire is presented below:

Table 11

Descriptive statistics for teacher leadership

| | Mean | Category |
|-----|------|----------|
| Q1 | 2.77 | Average |
| Q2 | 2.87 | Average |
| Q3 | 3.26 | Good |
| Q4 | 2.92 | Average |
| Q5 | 2.97 | Average |
| Q6 | 3.16 | Good |
| Q7 | 3.37 | Good |
| Q8 | 3.03 | Good |
| Q9 | 2.98 | Average |
| Q10 | 3.13 | Good |
| Q11 | 2.92 | Average |
| Q12 | 3.15 | Good |
| Q13 | 3.13 | Good |
| Q14 | 3.16 | Good |
| Q15 | 3.05 | Good |
| Q16 | 3.15 | Good |
| Q17 | 2.95 | Average |
| Q18 | 3.23 | Good |
| Q19 | 3.15 | Good |
| Q20 | 3.10 | Good |

After discussing the mean score, the researcher describes the frequencies table of the entire questionnaire items. Every table was followed by a short explanation about the frequencies.

| Table | Table 12 | | | | | | | |
|--------|--|-----------|---------|---------------|------------|---------|--|--|
| Staten | Statement 1 | | | | | | | |
| Teach | Teachers understand of how students' learn | | | | | | | |
| | | Frequency | Percent | Valid Percent | Cumulative | Percent | | |
| Valid | Disagree | 17 | 27.4 | 27.4 | | 27.4 | | |
| | Agree | 42 | 67.7 | 67.7 | | 95.2 | | |
| | Strongly Agree | 3 | 4.8 | 4.8 | | 100.0 | | |
| | Total | 62 | 100.0 | 100.0 | | | | |

Based on the table, 17 respondents (27.4%) from the total 62 respondents disagree if teachers at EED UMY understand about how their students' learning. On the other hand, 42 respondents (67.7%) agree that teachers at EED UMY understand about it. Additionally, there were also 3 respondents (4.8%) who strongly believe that teachers at EED UMY really understand about how their students' learning. Then, the mean score of statement one is 2.77 and it was included in average category. It means that teachers almost fulfill the requirements of teacher leadership which is understand about how students' learning.

Table 13 Statement 2 Teachers are able to accommodate the variety of students' learning Valid Percent Cumulative Percent Frequency Percent Valid 19.4 Disagree 12 19.4 19.4 Agree 46 74.2 74.2 93.5

| Strongly Agree | 4 | 6.5 | 6.5 | 100.0 |
|----------------|----|-------|-------|-------|
| Total | 62 | 100.0 | 100.0 | |

Based on the table 13, there were 46 respondents (74.2) from the total 62 respondents who agree that teachers at EED UMY can accommodate the variety of their students learn. Four respondents (6.5%) also strongly agree with that. On the other hand, there are 12 respondents (19.4%) who disagree with the statement which said that teachers can accommodate the variety of their students' learn. Then, the mean score of statement two is 2.87 and it was included in average category. It means that teachers almost fulfill the requirements of teacher leadership which is teachers are able to accommodate the variety of students' learning.

| Table | Table 14 | | | | | | |
|--------|----------------------|--------------|------------|---------|----------|------------|---------|
| Staten | Statement 3 | | | | | | |
| Teach | ers can facilitate a | students'-ce | entered cl | assroon | n enviro | nment | |
| | | Frequency | Percent | Valid | Percent | Cumulative | Percent |
| Valid | Disagree | 1 | 1.6 | | 1.6 | | 1.6 |
| | Agree | 44 | 71.0 | | 71.0 | | 72.6 |
| | Strongly Agree | 17 | 27.4 | | 27.4 | | 100.0 |
| | Total | 62 | 100.0 | | 100.0 | | |

Table14 shows that 44 out of 62 respondents (71%) agree that in teaching and learning process, teachers at EED of UMY always do some activities like discussion, role play or game which showsthe implementation of student-centered classroom activity. In addition, 17 respondents (27.4%) strongly agree with that statement but there is 1 respondent (1.6%) who disagree that teachers at EED

UMY already apply the student-centered activity in their teaching and learning process. Then, the mean score of statement three is 3.26 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers can facilitate a students'-centered classroom environment.

Table 15 Statement 4 Collect and analyze students' data regularly to make instructional decisions Valid Percent | Cumulative Percent Frequency Percent 17.7 Valid Disagree 11 17.7 17.7 Agree 72.6 72.6 90.3 45 9.7 Strongly Agree 9.7 100.0

100.0

62

Total

100.0

Based on table, there were 6 respondents (9.7%) who strongly agree that teachers at EED UMY always collect and analyze their students' learning achievement before they make instructional decisions. 45 respondents (72.6%) from the total 62 respondents also agree with that statement. On the other hand, there were 11 respondents (17.7%) who disagree if teachers at EED UMY always collect and analyze the data regularly before they make instructional decisions. Then, the mean score of statement four is 2.92 and it was included in average category. It means that teachers almost fulfill the requirements of teacher leadership which is teachers collect and analyze students' data regularly to make instructional decisions.

Table16 Statement 5 Teachers can accommodate students' individual learning need Percent Frequency Valid Percent Cumulative Percent Valid 9 14.5 Disagree 14.5 14.5 46 74.2 74.2 88.7 Agree

11.3

100.0

11.3

100.0

100.0

7

62

Strongly Agree

Total

learning need.

| Table 16 | shows that ther | e were 9 re | spondents | (14.5%) who di | sagree with the |
|------------|------------------|---------------|--------------|---------------------|-----------------------|
| statement | which said tha | t teachers a | nt EED UM | IY can make an | adjustment to |
| accommo | date students' | learning ne | ed. But, fro | om the 62 respon | ndents, there are 46 |
| responder | nts (74.2%) and | 7 responde | ents (11.3% | %) who agree an | d strongly agree |
| with the s | statement which | said that t | eacher at E | EED UMY accor | mmodate students' |
| individual | l need. Then, th | ne mean sco | ore of state | ment five is 2.9° | 7 and it was included |
| in average | e category. It m | neans that te | eachers alm | nost fulfill the re | equirements of |
| teacher le | eadership which | is teachers | can accor | mmodate student | s' individual |

| Table 17 | |
|--|--|
| tatement 6 | |
| eachers accommodate an interesting teaching and learning process and motivate students | |

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------|-----------|---------|---------------|--------------------|
| Valid | Strongly Disagree | 1 | 1.6 | 1.6 | 1.6 |
| | Disagree | 3 | 4.8 | 4.8 | 6.5 |
| | Agree | 43 | 69.4 | 69.4 | 75.8 |
| | Strongly Agree | 15 | 24.2 | 24.2 | 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

Based on the table 17, from 62 respondents, there were 43 respondents (69.4%) who agreed and 15 respondents (24.2%) who strongly agreed with the statement that teachers at EED UMY can provide an interesting teaching and learning process. On the other hand, there are 3 respondents (4.8%) and 1 respondents (1.6%) who disagree and also strongly disagree with that statement. Then, the mean score of statement six is 3.16 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which teachers can accommodate an interesting teaching and learning process and teachers also can motivate their students.

Table 18
Statement 7
Teachers engage with technology to support instruction, make connections and locate resource.

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Disagree | 1 | 1.6 | 1.0 | 5 1.6 |
| | Agree | 37 | 59.7 | 59.7 | 61.3 |
| | Strongly Agree | 24 | 38.7 | 38.7 | 7 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

Table 18 shows that from 62 respondents only 1 respondent (1.6%) who disagree with the statement which said that teachers at EED of UMY engage with technology to support instruction, make connections and also locate resource. Meanwhile, 37 respondents (59.7%) agree and 24 respondents strongly agree with the statement which said that teachers at EED UMY engage with technology in the teaching and learning process. Then, the mean score of statement seven is 3.37 and it was in good category. It means that teachers fulfill all of the requirements

of teacher leadership which is teachers at EED of UMY engage with technology to support instruction, make connections and locate resource.

Table 19
Statement 8
Teachers uinderstand and apply current research on effective teaching practice

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Disagree | 7 | 11.3 | 11.3 | 11.3 |
| | Agree | 46 | 74.2 | 74.2 | 85.5 |
| | Strongly Agree | 9 | 14.5 | 14.5 | 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

Table 19 shows that there 46 respondents (74.2%) who agree if teacher at EED UMY can understand and apply current research on effective teaching practice. Then, there were also 9 respondents (14.5%) who strongly agree with that statement. While, there 7 respondents (11.3%) who disagree with the statement which said that teachers can understand andapply current research on effective teaching practice. Then, the mean score of statement eight is 3.03 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers understand and can apply current research on effective teaching practice.

Table 20 Statement 9 Teachers employ a variety of strategies to support authentic learning Percent Valid Percent Cumulative Percent Frequency 9 Valid 14.5 14.5 14.5 Disagree 45 72.6 72.6 87.1 Agree 12.9 12.9 100.0 Strongly Agree Total 62 100.0 100.0

Based on the table, there 45 respondents (72.6%) who agree that teachers at EED UMY can employ a lot of strategies to support teaching and learning process using authentic learning. Moreover, 8 respondents (12.9%) also strongly agree with that statement. On the other hand, there were 9 respondents (14.5%) who disagree with that statement. Then, the mean score of statement nine is 2.98 and it was included in average category. It means that teachers almost fulfill the requirements of teacher leadership which is teachers can employ a variety of strategies to support authentic learning.

| Table | Table 21 | | | | | | | | |
|--------|---------------------|---------------|-------------|------------|------|------------|---------|--|--|
| Staten | Statement 10 | | | | | | | | |
| Teach | ers employ a variet | y of strategi | ies of asse | essment | | | | | |
| | | Frequency | Percent | Valid Pero | cent | Cumulative | Percent | | |
| Valid | Disagree | 3 | 4.8 | | 4.8 | | 4.8 | | |
| | Agree | 48 | 77.4 | 7 | 77.4 | | 82.3 | | |
| | Strongly Agree | 11 | 17.7 | 1 | 17.7 | | 100.0 | | |
| | Total | 62 | 100.0 | 10 | 0.00 | | | | |

Table 21 shows that from 62 person there 48 respondents (77.4%) who agree and also 11 response (17.7%) who also strongly agree with the statement which said that teachers at EED UMY use a variety of assessment for their students' learning achievements. Then, the mean score of statement ten is 3.13 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers can employ a variety strategies of assessment.

Table 22 Statement 11 Teachers support the other teachers to identify strengths and weaknesses in fostering students' learning Frequency Percent Valid Percent Cumulative Percent Valid 22.6 Disagree 14 22.6 22.6 Agree 39 62.9 62.9 85.5 Strongly Agree 14.5 14.5 100.0

100.0

100.0

62

Total

Based on the table, there were 39 respondents (62.9%) who agree that teacher at EED UMY support each other when they identify the strengths and the weaknesses in improving students' learning. Then there were also 9 respondents (14.5) who strongly agree with statement. Meanwhile, there 14 respondents (22.6%) who disagree with the statement which said that teachers at EED UMY can support each other in improving students' learning. Then, the mean score of statement eleven is 2.92 and it was included in average category. It means that teachers almost fulfill the requirements of teacher leadership which is teachers support the other teachers to identify the strengths and weaknesses in fostering students' learning.

Table 23
Statement 12
Teachers demonstrate interpersonal effectiveness including empathy, warmth and humility that leads to effective collaboration

| | | Frequency | Percent | Valid Percent | Cumulative F | Percent |
|-------|----------------|-----------|---------|---------------|--------------|---------|
| Valid | Disagree | 5 | 8.1 | 8.1 | | 8.1 |
| | Agree | 43 | 69.4 | 69.4 | | 77.4 |
| | Strongly Agree | 14 | 22.6 | 22.6 | | 100.0 |
| | Total | 62 | 100.0 | 100.0 | | |

Table 23 shows that 43 respondents (69.4%) and 14 respondents (22.6%) were agree and strongly agree with the statement. On the other hand, there were 5 respondents (8.1%) who disagree with the statement which said that teachers at EED UMY can demonstrate interpersonal effectiveness to make an effective collaboration. Then, the mean score of statement twelve is 3.15and it was included in good category. It means that teachers almost fulfill the requirements of teacher leadership which is teachers demonstrate interpersonal effectiveness including empathy, warmth, and humility that leads to effective collaboration.

Table 24
Statement 13
Teachers develop trusting and reciprocal relationship

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Disagree | 4 | 6.5 | 6.5 | 6.5 |
| | Agree | 46 | 74.2 | 74.2 | 80.6 |
| | Strongly Agree | 12 | 19.4 | 19.4 | 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

Based on the table 24, there were 4 respondents (6.5%) who disagree with the statements which said that teachers of EED of UMY can develop trusting and reciprocal relationship. Meanwhile, 46 respondents (72%) agree with the statement and 12 respondents (19.4) strongly agree that teachers at EED can develop trusting and reciprocal relationship with their students. Then, the mean score of statement thirteen is 3.13and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers can develop trusting and reciprocal relationship with the other teachers and their students.

Table 25
Statement 14
Teachers collect, analyze and use data to support improvement of teacher practice

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Disagree | 3 | 4.8 | 4.8 | 4.8 |
| | Agree | 46 | 74.2 | 74.2 | 79.0 |
| | Strongly Agree | 13 | 21.0 | 21.0 | 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

Based on the table, there were 13 respondents (21%) who agree with the statement which said that teachers at EED UMY always collect, analyze and use data to support improvement of teaching practice and 46 respondents (64.2%) also agree with that statement. Even though, there are a lot of respondent who agree with the statement but there were 3 respondents (4.8%) who disagree with it. Then, the mean score of statement fourteen is 3.16 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers can collect, analyze, and use data to support improvement of teacher practice.

Table 26
Statement 15
Teachers incorporate coaching models that emphasize inquiry to guide teachers in improving both their practice and students' outcome

| | | Frequency | Percent | Valid Percent | Cumulative | Percent |
|-------|----------------|-----------|---------|---------------|------------|---------|
| Valid | Disagree | 5 | 8.1 | 8.1 | | 8.1 |
| | Agree | 49 | 79.0 | 79.0 | | 87.1 |
| | Strongly Agree | 8 | 12.9 | 12.9 | | 100.0 |
| | Total | 62 | 100.0 | 100.0 | | |

Based on the table, there were 49 respondents (79%) from the total 62 respondents who agree with the statements which said that teachers at EED UMY can incorporate coaching models to guide teachers in improving both their practice and also students' outcome. Then, 8 respondents (12.9%) also strongly agree with it. Moreover, there were 5 respondents (8.1%) who disagree with the statement which said that teachers can incorporate coaching models to improve teaching practice and students' achievement. Then, the mean score of statement fifteen is 3.05 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers can incorporate coaching models that emphasize inquiry to guide teachers in improving both their practice and students' outcome.

Table 27
Statement 16
Teachers can model and promote reflective practice

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Disagree | 3 | 4.8 | 4.8 | 4.8 |
| | Agree | 47 | 75.8 | 75.8 | 80.6 |
| | Strongly Agree | 12 | 19.4 | 19.4 | 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

Table 27 indicates that there were 75.8 % respondents who said that teachers at EED UMY can model and promote reflective practice and 19.4% respondents strongly agree with that statement. Moreover there are 4.8% respondents disagree with that statement. Then, the mean score of statement sixteen is 3.15 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers can model and promote reflective practice.

Table 28
Statement 17
Statement draw on research protocol and resources

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Disagree | 9 | 14.5 | 14.5 | 14.5 |
| | Agree | 47 | 75.8 | 75.8 | 90.3 |
| | Strongly Agree | 6 | 9.7 | 9.7 | 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

Based on the table, there were 75.8% respondents who agree that teachers at EED of UMY can draw on research protocol and resource and 9.7% respondents strongly agree with that statement. But, there were 14.5% respondents who disagree with that statement. Then, the mean score of statement seventeen is 2.95 and it was included in average category. It means that teachers almost fulfill the

requirements of teacher leadership which is teachers draw on research protocol and resources.

Table 29

Statement 18

Teachers build and use norms when facilitating groups

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Agree | 48 | 77.4 | 77.4 | 77.4 |
| | Strongly Agree | 14 | 22.6 | 22.6 | 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

The table shows that 77.4% respondents agree that teachers can build and use collaboration norms when facilitating groups and 22.6% respondents strongly agree with that statement. Then, the mean score of statement eighteen is 3.23 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers can build and use norms when facilitating groups.

Table 30

Statement 19

Teachers can manage diverse view and resolve conflict in a classroom

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Disagree | 1 | 1.6 | 1.6 | 1.6 |
| | Agree | 51 | 82.3 | 82.3 | 83.9 |
| | Strongly Agree | 10 | 16.1 | 16.1 | 16.1 |
| | Total | 62 | 100.0 | 100.0 | 100.0 |

Based on the table, the researcher indicates that 82.3% respondents agree that teachers at EED UMY can manage diverse view and resolve conflict. 16.1%

respondents also strongly agree with that statement, but there were 1.6% respondent who disagrees if teachers at EED UMY can manage diverse view and resolve conflict. Then, the mean score of statement nineteen is 3.15 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers can manage diverse view and resolve conflict in a classroom.

Table 31
Statement 20
Teachers share responsibility and leadership, serving as catalyst of others leadership and inspire students to get a good future

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------------|-----------|---------|---------------|--------------------|
| Valid | Disagree | 4 | 6.5 | 6.5 | 6.5 |
| | Agree | 48 | 77.4 | 77.4 | 83.9 |
| | Strongly Agree | 10 | 16.1 | 16.1 | 100.0 |
| | Total | 62 | 100.0 | 100.0 | |

The table shows that 77.4% respondents agree with the statement which are teachers at EED UMY can share responsibility and leadership to the others and 16.1% respondents strongly agree with that statement. On the other hand there were 6.5% respondents who disagree if teachers at EED UMY can share responsibility and leadership to the others. Then, the mean score of statement twenty is 3.10 and it was included in good category. It means that teachers fulfill all of the requirements of teacher leadership which is teachers at EED of UMY share responsibility and leadership, serving as catalyst of others leadership and inspire students to get a good future.

Students' Achievement at EED of UMY. In order to answer the research question about the condition of students' learning achievement at EED of UMY, the researcher find the mean score of the students' GPA and use the level of cumulative grade point average (GPA) at Universitas Muhammadiyah Yogyakarta based on "Keputusan Mendiknas Nomor 232/U/2000." below:

1. Excellent : 3.51 – above

2. Good : 2.76 - 3.50

3. Satisfactory : 2.00 - 2.75

Based on the analysis using SPSS, the researcher provides the students' learning achievement of EED' students' batch 2014 in the following table

Table 32
Students' Learning Achievement

| | N | Minimum | Maximum | Mean |
|---------|----|---------|---------|------|
| GPA | 62 | 1.76 | 3.94 | 3.30 |
| Valid N | 62 | | | |

The majority of the students' EED UMY had a very good achievement. This is shown on the GPA of students who reached the maximum scores 3.94 and the minimum scores 1.76. Then the mean score of students' learning achievement was 3.30 and based on the level of cumulative grade point average (GPA) at UniversitasMuhammadiyahYogyakartathat score means that learning achievement EED of UMY of students' at EED of UMY batch 2014 was included in good level.

The correlation between teacher leadership and students'

achievement. In order to identify the correlation between teacher leadership and students' learning achievement, the researcher analyzed the data using Pearson Product Moment Correlation. After the researcher analyzed the data using SPSS, the results of product moment correlation are presented below:

Table 33

The correlation between teacher leadership and students' learning achievement

| | | GPA | Teacher Leadership |
|------------|---------------------|--------|--------------------|
| GPA | Pearson Correlation | 1 | .379** |
| | Sig. (2-tailed) | | .002 |
| | N | 62 | 62 |
| Teacher | Pearson Correlation | .379** | 1 |
| Leadership | Sig. (2-tailed) | .002 | |
| | N | 62 | 62 |

^{**.} Correlation is significant at the 0.01 level (2-tailed).

In this research, Pearson Product Moment Correlation was used to check the relationship between teacher leadership and students' learning achievement. The variables correlate to each other when the significant value is less than 0.05 (sig value < 0.05). The results of this study show that the significance value was 0.002, it means that the hypothesis which state that there is a correlation between teacher leadership and students learning achievement at English Education Department (Ha) was accepted because of the significance value was 0.002 (sig value < 0.05). Meanwhile, there was a relationship in a moderate level based on the standard guideline of the association between two variables because of the pearson correlation value was 0.379. The results of the research also show a positive

correlation that was proven by the positive significant value. This positive correlation means that if the X variable increase, Y variable will also increase. Hence, when teacher leadership level increase, students' learning achievement level will also increase.

Discussions

This study was conducted to find out the condition of teacher leadership at EED of UMY, the condition of students' learning achievement at EED of UMY and also to figure out the correlation between teacher leadership and students' learning achievement at EED of UMY. Based on the results of the data analysis, the discussions about the results are presented below.

Teacher leadership at EED of UMY. Based on the results of the descriptive statistics, the data from 62 respondents presented that teacher leadership at EED of UMY included in good level. Good level means that teachers at EED of UMY did all of the requirements of teacher leadership. It shows that teachers can apply all of leadership roles for teachers.

The results of the questionnaire show that the mean score of statement 13 which is teachers can develop trusting and reciprocal relationship was 3.13 and it was included in good level. It means that teachers at EED of UMY can fulfill all of the requirements of teacher leadership. This results also was in line with the theory from Timperley(2005) who said that teacher leadership is an essential part and one person cannot work alone to make changes needed to meet ever-changing campus and district needs. This means that teachers cannot work alone, teachers need to build a reciprocal relationship and collaborate with students and the other teachers to make changes in school and improve students' learning achievement.

Then, teachers at EED of UMY already did it like conduct a discussion with students and also the other teachers inside and outside the classroom.

Teachers at EED of UMY already do their role in teacher leadership. The researcher said that because the results of the questionnaire shows that 77.4% students' at EED of UMY agree that teachers can share responsibility and leadership and serve as catalyst of others' leadership to inspire their students to get a good future. Therefore, teachers at EED of UMY always look for a better way to make an improvement to increase their students' achievement. Moreover the mean score of this statement was also 3.10 and it was included in good category and it means that teachers at EED of UMY fulfill the requirements of teacher leadership. It is in line with the theory from Harisson and Killion (2007) who talk about the types of leadership roles for teachers, one of the roles that teachers should have is teachers should become a catalyst for change and they who take a catalyst role always have commitment for always make a continual improvement.

The condition of teacher leadership at EED of UMY was catagorized in good level because in every item in the questionnaire that used to measure the condition of teacher leadership, most students agree that their teachers already did their roles in teacher leadership and already have the characteristics as teachers in teacher leadership.

Students' Learning Achievement.Based on the academic guideline at UniversitasMuhammadiyah Yogyakarta, the condition of students' learning achievement at EED of UMY was categorized in good level. It is shown by the average of students' GPA which is 3.30.

Hsiang (2013) said that learning achievement is the results of students learning to see how far their ability during the process of teaching and learning in their study. Based on Syah (2008) students' achievement in learning process can be measured by score or point. Grade Point Average (GPA) can be an instrument to measure the condition of students' learning achievement. Universitas Muhammadiyah Yogyakarta also assesses students' achievement by GPA. In this study, the researcher also used GPA to measure the condition of students' achievement at EED of UMY.

The results of this research indicates that teachers become one of the factor that improve students' learning achievement, and they makes the condition of students' achievement at EED of UMY in a that level. This is in line with the theory from Wong (2014) who said that improving students' learning achievement is based on the teachers. It is about what teachers know and what teachers do in a classroom.

Achievements. The result of the study shows that the significant value 0.002 (sig value < 0.05) points out a correlation between teacher leadership and students' learning achievement. The pearson correlation value 0.379 shows that the relationship between teacher leadership and students' learning achievement at EED of UMY was in moderate level. The results of the research also show a positive correlation that was proven by the positive significant value. This positive correlation means that if the X variable increase, Y variable will also increase. Hence, when teacher leadership level increase, students' learning achievement level will also increase.

The results of the study prove that the statement from York-Barr and Dark (2004) who said that teacher leadership is a process when teachers influence the others in teaching and learning process to increase students' learning achievement was true. This statement was true because based on that statement from the expert, the purpose of teacher leadership was to increase students' learning achievement, then the results of the study shows that teacher leadership have a positive correlation with students' learning achievement. The results showed a positive correlation because "X" increases so does "Y" or "X" decreases so does "Y" and it means when teacher leadership at EED of UMY was good, it also can increase the students' learning achievements at EED of UMY.

Then, the condition of teacher leadership at EED of UMY was catagorized in good level which means that teachers at EED of UMY did all of the requirements of teacher leadership. Teacher leadership in good level also means that teachers at EED of UMY have academic competencies and also leadership skill. The researcher indicates that it also becomes one factor that makes students' learning achievement at EED of UMY was good. It is in line with the theory from Teacher Leadership Exploratory Consortium (2011) which explained that leadership by teachers is essential to serving the students' need, school, and teaching profession. Teachers who have leadership skill serve the students' need in teaching and learning process so it helps their students to increase students' learning achievement.