

**STA201 Assignment**

**Course Name:** ELEMENTS OF STATISTICS AND PROBABILITY

**Course Code:** STA 201

**Semester:** Fall 2018

**Submitted to:**

Dr. Md. Rafiqul Islam

Associate Professor,

Dept. of MNS

BRAC University

**Submitted by:**

|  |  |
| --- | --- |
| **Name** | **Student ID** |
| Md Shubiour Shiuvo | 17301132 |
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16 November 2018

Dr. Md. Rafiqul Islam

Associate Professor,

Dept. of MNS

BRAC University

**Subject: Letter of Transmittal**

Dear Sir,

It is our pleasure to submit the Assignment conducted on the students of BRAC University to know effect of few factor on their CGPA. The assignment covers all the areas that is relevant to the questions that have been asked and **we have successfully taken interviews from total 55 students which face to face.** Though we are learning in curve, this assignment has enabled us to gain insight into to know effect of few factor on CGPA and also, we have learned about why it is necessary to improve our communication skill. As per your direction, we have tried our best to highlight our findings through this write-up. We sincerely hope that this term paper will fulfill the requirements suggested by you for the course STA201.

Lastly, we would be thankful once again, if you please give your judicious advice on effort.

Thank You Sir.

Yours sincerely,

From section – 12,

|  |  |
| --- | --- |
| Name | ID |
| Md. Shubiour Shuvo | 17301132 |
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|  |  |
|  |  |

**Acknowledgement**

Our greatest gratitude goes to our honorable faculty Dr. Md. Rafiqul Islam.

Sir who gave us the opportunity to do our research work on to know effect of few factor on our CGPA. It was an honor for us to work under the guidance of such an excellent faculty from whom we have learned so many things, which will help us in every aspect of our life.

Finally, we want to show respect to our well-wishers and friends who helped us to get the necessary information. Without their spontaneous response, our teamwork would not have been done successfully.

Instructions:

1. SUMMARIZING DATA  
2. CORRELATION between CGPA with others  
3. Regression model of CGPA  
4. CONCLUSION

Interview taken from total 55 students

**1.Summarizing data:**

**Gender:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Gender** | **No of the students** | **Percentage 100%** | **Degree 360** |
| **Female** | 22 | 40 | 144 |
| **Male** | 33 | 60 | 216 |
|  | 55 |  | 360 |

**Comment:** 60% of the students are male and 40% are female student whom we have taken interview.

**Pie Chart of the gender:**

**Comment:** Maximum 60% of the students are male and minimum 40% are female student whom we have taken interview.

**Age:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Female | Male | Combine |
| Lowest age | 19 | 20 | 19 |
| Highest age | 24 | 25 | 25 |

**Female average:**

|  |  |  |
| --- | --- | --- |
| **Age x** | **No of students f** | **fx** |
| 19 | 1 | 19 |
| 20 | 6 | 120 |
| 21 | 5 | 105 |
| 22 | 4 | 88 |
| 23 | 3 | 69 |
| 24 | 3 | 72 |
|  | 22 | 473 |

Mean age of the female students is = = 21.5

**Comment:** The Average age of the female students is 21.5.

**Male average:**

|  |  |  |
| --- | --- | --- |
| **Age x** | **No of students f** | **fx** |
| 20 | 9 | 180 |
| 21 | 10 | 210 |
| 22 | 11 | 242 |
| 23 | 2 | 46 |
| 25 | 1 | 25 |
|  | 33 | 703 |

Mean age of the male students is = = 21.3

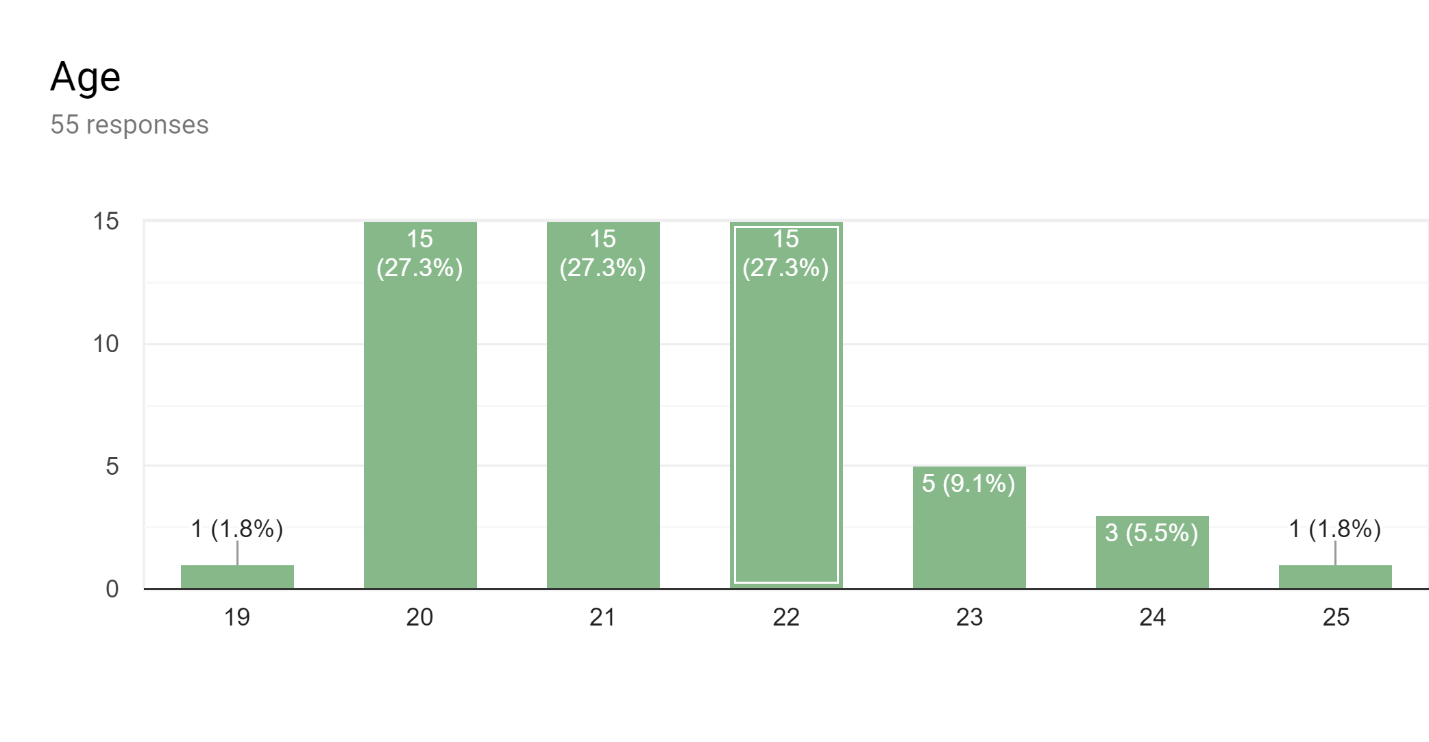
**Comment:** The Average age of the male students is 21.3.

**Combine average:**

|  |  |  |
| --- | --- | --- |
| **Age x** | **No of students f** | **fx** |
| 19 | 1 | 19 |
| 20 | 15 | 300 |
| 21 | 15 | 315 |
| 22 | 15 | 330 |
| 23 | 5 | 115 |
| 24 | 3 | 72 |
| 25 | 1 | 25 |
|  | 55 | 1176 |

Mean age of the students is = = 21

**Comment:** The Average age of the students is 21.



**Comments:** Maximum 15% of the student’s age is 20,21,22 years old and minimum 1% of the student’s age is 19 and 25 years old.

**Semester:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Male students:** | **Female students:** | **combine** |
| **Lowest semester** | 3th | 3th | 3th |
| **Highest semester** | 9th | 13th | 13th |

**Department:**

Female:

|  |  |  |  |
| --- | --- | --- | --- |
| **Departments** | **No of female students** | **Percentage** | **Degree** |
| CSE | 6 | 27.27 | 98 |
| BBA | 8 | 36.36 | 131 |
| EEE | 1 | 4.55 | 16 |
| PHARMACY | 2 | 9.09 | 33 |
| LLB | 3 | 13.64 | 49 |
| Architecture | 1 | 4.55 | 16 |
| ESS | 1 | 4.55 | 16 |
| Total | 22 |  | 360 |

**Pie chat of the department of the female students:**

**Comments:** Maximum 36% of the female students are from BBA department and minimum 4% of the students are from EEE department.

Male:

|  |  |  |  |
| --- | --- | --- | --- |
| **Departments** | **No of male students** | **Percentage** | **Degree** |
| CSE | 21 | 63.64 | 229 |
| BBA | 3 | 9.09 | 33 |
| EEE | 3 | 9.09 | 33 |
| PHARMACY | 2 | 6.06 | 22 |
| ENH | 2 | 6.06 | 22 |
| LLB | 1 | 3.03 | 11 |
| ESS | 1 | 3.03 | 11 |
| Total | 33 |  | 360 |

**Pie chat of the department of the male students:**

**Comments:** Maximum 64% of the male students are from CSE department and minimum 3% of the students are from ESS and LLB department.

Combine:

|  |  |  |  |
| --- | --- | --- | --- |
| **Departments** | **No of students** | **Percentage** | **Degree** |
| CSE | 27 | 49.09 | 177 |
| BBA | 11 | 20.00 | 72 |
| EEE | 4 | 7.27 | 26 |
| PHARMACY | 4 | 7.27 | 26 |
| ENH | 2 | 3.64 | 13 |
| LLB | 4 | 7.27 | 26 |
| Architecture | 1 | 1.82 | 7 |
| ESS | 2 | 3.64 | 13 |
| Total | 55 |  | 360 |

**Pie chat of the Departments:**

**Comments:** Maximum 49% of the students are from CSE department and minimum 1% of the students are from Architecture department.

**Daily study hour:**

**Female:**

|  |  |  |
| --- | --- | --- |
| **Daily study hour(hour) of the female( x)** | **No of students (f)** | **fx** |
| **0.5** | 3 | 1.5 |
| **0.75** | 3 | 2.25 |
| **1** | 6 | 6 |
| **2** | 5 | 10 |
| **3** | 2 | 6 |
| **4** | 3 | 12 |
|  | 22 | 37.75 |

**Average** daily study hour: = = 1.72 hour .

**Comment:** The Average daily study hour of the female students is 1.72 hour.

**Line Diagram of daily study hour:**

**Study hour----------🡪**

**Comment:** Most of female the student’s daily study hour is lower. (right tailed)

**Male:**

|  |  |  |
| --- | --- | --- |
| **Daily study hour(hour)v of the male( x)** | **No of students (f)** | **fx** |
| **0** | 1 | 0 |
| **0.01** | 1 | 0.01 |
| **0.25** | 3 | 0.75 |
| **0.5** | 6 | 3 |
| **0.75** | 3 | 2.25 |
| **1** | 3 | 3 |
| **2** | 10 | 20 |
| **3** | 2 | 6 |
| **4** | 2 | 8 |
| **5** | 2 | 10 |
|  | 33 | 53.01 |

**Average** daily study hour: = = 1.60 hour.

**Comment:** The Average daily study hour of the male students is 1.60 hour.

**Line Diagram of daily study hour:**

**Study hour----------🡪**

**Comment:** Most of male the student’s daily study hour is almost symmetric.

**Combine:**

|  |  |  |
| --- | --- | --- |
| **Daily study hour(hour)(x)** | **No of students (f)** | **fx** |
| **0** | 1 | 0 |
| **0.01** | 1 | 0.01 |
| **0.25** | 3 | 0.75 |
| **0.5** | 9 | 4.5 |
| **0.75** | 6 | 4.5 |
| **1** | 9 | 9 |
| **2** | 15 | 30 |
| **3** | 4 | 12 |
| **4** | 5 | 20 |
| **5** | 2 | 10 |
|  | 55 | 90.76 |

**Line Diagram of daily study hour:**

**No**

**Of**

**Students**

**Study hour----------🡪**

**Comment:** Most of the student’s daily study hour is higher. (Left tailed)

**Average** daily study hour: = = 1.65 hour = 99 minutes.

**Comment:** The Average daily study hour of the students is 1.65 hour.

**Frequency organizations of CGPA:**

**Female:**

Maximum CGPA = 3.97

Minimum CGPA = 2.70

Interview taken from total n = 22 female students

Interval =

=

= 0.3

**Frequency table for female students CGPA:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Class** | **Midpoint x** | **x^2** | **Frequency f** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** | **fx^2** |
| 2.5-2.8 | 2.65 | 7.02 | 2 | 2 | 0.09 | 9 | 14.045 |
| 2.8-3.1 | 2.95 | 8.70 | 1 | 3 | 0.05 | 5 | 8.7025 |
| 3.1-3.4 | 3.25 | 10.56 | 9 | 12 | 0.41 | 41 | 95.0625 |
| 3.4-3.7 | 3.55 | 12.60 | 6 | 18 | 0.27 | 27 | 75.615 |
| 3.7-4 | 3.85 | 14.82 | 4 | 22 | 0.18 | 18 | 59.29 |
|  |  |  | 22 |  |  |  | 252.715 |

**Comment:** Maximum 41% of the female students CGPA is between (3.10 – 3.40) and minimum 5% of the female students CGPA is between (2.80-3.10)

**Histogram for female student’s CGPA:**

**Comment:** Maximum 41% of the female students CGPA is between (3.10 – 3.40) and minimum 5% of the female students CGPA is between (2.80-3.10)

**Mean** CGPA, =

=

**Comment:** The average CGPA of the students is 3.36

**Median** CGPA =

Here , Lo =

n=

C.F =

I=

F=

= 3.1 +

= 3.36

**Comment**: all female student’s median CGPA is 3.36

**Mode** CGPA = L+

= 3.10 +

= 3.32

**Comment:** Majority of the female students CGPA is 3.32

**Variance:**  == 0.21

**Comment:** Average square difference among the male student’s CGPA is 0.21.

**Standard deviation:** s.d = =

**Comment:** Average difference among the male student’s CGPA is 0.46.

**Male:**

Maximum CGPA = 3.95

Minimum CGPA = 2.23

Interview taken from total n = 33 male students

Interval =

=

= 0.3

**Frequency table male for students CGPA:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Class** | **Midpoint x** | **x^2** | **Frequency f** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** | **f\*x^2** |
| 2.2-2.5 | 3.35 | 11.22 | 3 | 3 | 0.09 | 9 | 33.67 |
| 2.5-2.8 | 2.65 | 7.02 | 1 | 4 | 0.03 | 3 | 7.02 |
| 2.8-3.1 | 2.95 | 8.70 | 5 | 9 | 0.15 | 15 | 43.51 |
| 3.1-3.4 | 3.25 | 10.56 | 9 | 18 | 0.27 | 27 | 95.06 |
| 3.4-3.7 | 3.55 | 12.60 | 9 | 27 | 0.27 | 27 | 113.42 |
| 3.7-4 | 3.85 | 14.82 | 6 | 33 | 0.18 | 18 | 88.94 |
|  |  |  |  |  |  |  |  |
|  |  |  | **N=33** |  |  |  | **381.6225** |

**Comment:** Maximum 27% of the male students CGPA is between (3.10 – 3.40) & (3.40-4.70) and minimum 3% of the male students CGPA is between (2.50-2.80).

**Histogram for male student’s CGPA:**

**Comment:** Maximum 27% of the male students CGPA is between (3.10 – 3.40) & (3.40-4.70) and minimum 3% of the students CGPA is between (2.50-2.80).

**Mean** CGPA, =

=

**Comment:** The average CGPA of the male students is 3.32

**Median** CGPA =

Here , Lo =

n=

C.F =

I=

F=

= 3.1 +

= 3.35

**Comment**: all male student’s median CGPA is 3.35

**Mode** CGPA = L+

= 3.10 +

= 3.40

**Comment:** Majority of the male students CGPA is 3.40

**Variance:**  == 0.56

**Comment:** Average square difference among the male student’s CGPA is 0.56.

**Standard deviation:** s.d = =

**Comment:** Average difference among the male student’s CGPA is 0.75.

**Combine:**

Maximum CGPA = 3.97

Minimum CGPA = 2.23

Interview taken from total 55 students

Interval =

=

= 0.20

**Frequency table for students CGPA:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Class** | **Frequency** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** |
| 2.20-2.40 | 1 | 1 | 0.02 | 2 |
| 2.40-2.60 | 3 | 4 | 0.05 | 5 |
| 2.60-2.80 | 1 | 5 | 0.02 | 2 |
| 2.80-3.00 | 4 | 9 | 0.07 | 7 |
| 3.00-3.20 | 7 | 16 | 0.13 | 13 |
| 3.20-3.40 | 14 | 30 | 0.25 | 25 |
| 3.40-3.60 | 9 | 39 | 0.16 | 16 |
| 3.60-3.80 | 10 | 49 | 0.18 | 18 |
| 3.80-4.00 | 6 | 55 | 0.11 | 11 |
| n= | 55 |  |  |  |

**Comment:** Maximum 25% of the female students CGPA is between (3.20 – 3.40) and minimum 2% of the students CGPA is between (2.20-2.40) & (2.60-2.80).

**Histogram for student’s CGPA:**

Mean CGPA =

=

**Comment:** The average CGPA of the students is 3.33

Median CGPA =

Here , Lo =

n=

C.F =

I=

F=

= 3 +

= 3.52

**Comment**:

Mode CGPA = L+

= 3.20 +

= 3.32

**Comment:** Majority of the students CGPA is 3.32

**Frequency organizations of Credits:**

**Female:**

Maximum credits:120

Minimum credits: 15

Interval , i =

= = 22.39 = 23

**Frequency table for female student’s credits:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Class** | **Mid-point x** | **x^2** | **Frequency f** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** | **fx^2** |
| 8-31 | 19.50 | 380.25 | 3 | 3 | 0.14 | 14 | 1140.75 |
| 31-54 | 42.50 | 1806.25 | 9 | 12 | 0.41 | 41 | 16256.25 |
| 54-77 | 65.50 | 4290.25 | 1 | 12 | 0.05 | 5 | 4290.25 |
| 77-100 | 88.50 | 7832.25 | 5 | 18 | 0.23 | 23 | 39161.25 |
| 100-123 | 111.50 | 12432.25 | 4 | 22 | 0.18 | 18 | 49729 |
|  |  |  | 22 |  |  |  | 110577.5 |

**Comment:** Maximum 41% of the female student’s credits is between (31 – 54) and minimum 5% of the female student’s credits is between (54-77).

**Histogram for female student’s credits:**

**Comment:** Maximum 41% of the female student’s credits is between (31 – 54) and minimum 5% of the female student’s credits is between (54-77).

**Mean** credits=

=

**Comment:** The average credits of the female students is 62.

Median =

Here, Lo =

n=

C.F =

I=

F=

= 54 +

= 31

**Comment**: Median of the female students’ credit is 31.

**Mode** = L+

= 31 +

= 40.85

**Comment:** Majority of the female students’ credits is 40.85.

**Variance:**  == 1309.68

**Comment:** Average square difference among the female students’ credit is 1309.68

.

**Standard deviation:** s.d = =

**Comment:** Average difference among the female student’s credit is .

**Male:**

Maximum credits: 98

Minimum credits: 21

Interval =

=

= 13.4 = 15

**Frequency table for male student’s credits:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Class** | **Midpoint x** | **x^2** | **Frequency f** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** | **f\*x^2** |
| 15-30 | 22.5 | 506.25 | 2 | 2 | 0.06 | 6 | 1012.50 |
| 30-45 | 37.5 | 1406.25 | 19 | 21 | 0.58 | 58 | 26718.75 |
| 45-60 | 52.5 | 2756.25 | 7 | 28 | 0.21 | 21 | 19293.75 |
| 60-75 | 67.5 | 4556.25 | 1 | 29 | 0.03 | 3 | 4556.25 |
| 75-90 | 82.5 | 6806.25 | 2 | 31 | 0.06 | 6 | 13612.50 |
| 90-105 | 97.5 | 9506.25 | 2 | 33 | 0.06 | 6 | 19012.50 |
|  |  |  | 33 |  |  |  |  |
|  |  |  |  |  |  |  | **84206.25** |

**Comment:** Maximum 58% of the male students’ credits is between (30 – 45) and minimum 3% of the student’s credits is between (60-75).

**Histogram for male student’s credits:**

**Comment:** Maximum 58% of the male students’ credits is between (30 – 45) and minimum 3% of the student’s credits is between (60-75).

**Mean** credits=

=

**Comment:** The average credits of the male students is 45.24.

**Median** =

Here, Lo =

n=

C.F =

I=

F=

= 45 +

= 23.6

**Comment**: Median of the male students’ credit is 23.6.

**Mode** = L+

= 30 +

= 38.79

**Comment:** Majority of the male students’ credits is 38.79.

**Variance:**  == 520.83

**Comment:** Average square difference among the female students’ credit is 520.83

.

**Standard deviation:** s.d = =

**Comment:** Average difference among the female student’s credit is .

**Frequency organization of student’s HSC GPA:**

**Female**

Interval, i = = = 0.31 =0.5

Maximum GPA: 3.56

Minimum GPA: 5.00

**Frequency table for female student’s HSC GPA:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Class** | **Frequency** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** |
| 3.5-3.8 | 1 | 1 | 0.05 | 5 |
| 3.8-4.1 | 1 | 2 | 0.05 | 5 |
| 4.1-4.4 | 2 | 4 | 0.09 | 9 |
| 4.4-4.7 | 4 | 8 | 0.18 | 18 |
| 4.7-5 | 14 | 22 | 0.64 | 64 |
|  | 22 |  |  |  |

**Comment:** Maximum 64% of the female students’ HSC GPA is between (4.7 – 5) and minimum 5% of the female student’s HSC GPA is between (3.5- 4.1).

**Histogram for female student’s credits:**

**Comment:** Maximum 64% of the female students’ HSC GPA is between (4.7 – 5) and minimum 5% of the female student’s HSC GPA is between (3.5- 4.1).

**Mean** GPA=

=

**Comment:** The average HSC GPA of the female students is 4.72

Median GPA =

Here, Lo =

n=

C.F =

I=

F=

= 4.1 +

= 4.98

**Comment**: Median of the female students’ HSC GPA is 4.98.

Mode GPA = L+

= 4.7 +

= 4.82

**Comment:** Majority of the female students HSC GPA is 4.82

**Male:**

Interval, i = = = 0.23=0.3

Maximum GPA: 3.67

Minimum GPA: 5.00

**Frequency table for male student’s HSC GPA:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Class** | **Frequency** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** |
| 3.5-3.8 | 1 | 1 | 0.03 | 3 |
| 3.8-4.1 | 4 | 5 | 0.12 | 12 |
| 4.1-4.4 | 4 | 9 | 0.12 | 12 |
| 4.4-4.7 | 5 | 14 | 0.15 | 15 |
| 4.7-5 | 19 | 33 | 0.58 | 58 |
|  | 33 |  |  |  |

**Comment:** Maximum 58% of the male students’ HSC GPA is between (4.7 – 5) and minimum 3% of the male student’s HSC GPA is between (3.5- 3.8).

**Histogram for male student’s credits:**

**Comment:** Maximum 58% of the male students’ HSC GPA is between (4.7 – 5) and minimum 3% of the male student’s HSC GPA is between (3.5- 3.8).

**Mean** GPA=

=

**Comment:** The average HSC GPA of the male students is 4.64

**Median** GPA =

Here, Lo =

n=

C.F =

I=

F=

= 4.1 +

= 4.96

**Comment**: Median of the male students’ HSC GPA is 4.96.

Mode GPA = L+

= 4.7 +

= 4.83

**Comment:** Majority of the male students HSC GPA is 4.83

**Frequency organizations of SSC GPA:**

**Female:**

Maximum GPA:5

Minimum GPA: 4.38

Interval, i =

=

= 0.11= 0.3

**Frequency table for female student’s SSC GPA:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Class** | **Mid-point x** | **x^2** | **Frequency f** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** | **fx^2** |
| 4.4-4.7 | 4.25 | 18.06 | 3 | 1 | 0.14 | 14 | 54.19 |
| 4.7-5 | 4.75 | 22.56 | 19 | 2 | 0.86 | 86 | 428.69 |
|  |  |  | 22 |  |  |  | 482.88 |

**Comment:** Maximum 86% of the female student’s SSC GPA is between (4.75-5.00) and minimum 14% of the female student’s SSC GPA is between (4.4-4.7).

**Pie chart for female student’s SSC GPA:**

**Comment:** Maximum 86% of the female student’s SSC GPA is between (4.75-5.00) and minimum 14% of the female student’s SSC GPA is between (4.4-4.7).

**Mean** GPA=

=

**Comment:** The average SSC GPA of the students is 4.94

**Median** GPA =

Here, Lo =

n=

C.F =

I=

F=

= 4.7 +

= 4.86

**Comment**: Median of the female students’ SSC GPA is 4.86.

**Mode** GPA = L+

= 4.7 +

= 4.84

**Comment:** Majority of the female students SSC GPA is 4.84

**Male:**

Maximum GPA:5

Minimum GPA: 4.33

Interval, i =

=

= 0.3

**Frequency table for male student’s SSC GPA:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Class** | **Frequency** | **Cumulative Frequency** | **Relative frequency** | **Relative frequency x 100%** |
| 3.5-3.8 | 1 | 1 | 0.03 | 3 |
| 3.8-4.1 | 1 | 2 | 0.03 | 3 |
| 4.1-4.4 | 1 | 3 | 0.03 | 3 |
| 4.4-4.7 | 1 | 4 | 0.03 | 3 |
| 4.7-5 | 29 | 33 | 0.88 | 88 |
|  | 33 |  |  |  |

**Comment:** Maximum 88% of the male student’s SSC GPA is between (4.7-5.00) and minimum 3% of the male student’s SSC GPA is between (3.5-4.7).

**Pie chart for male student’s SSC GPA:**

**Comment:** Maximum 88% of the male student’s SSC GPA is between (4.7-5.00) and minimum 3% of the male student’s SSC GPA is between (3.5-4.7).

**Mean** GPA=

=

**Comment:** The average SSC GPA of the male students is 4.88

**Median** GPA =

Here, Lo =

n=

C.F =

I=

F=

= 4.1 +

= 4.46

**Comment**: Median of the male students’ SSC GPA is 4.46.

**Mode** GPA = L+

= 4.7 +

= 4.85

**Comment:** Majority of the male students SSC GPA is 4.85

2. CORRELATION: (between CGPA with others)

**Correlation between CGPA and Age:**

**Female:**

\*\*This table is from raw data which is also given

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **Age y** | **xy** | **x^2** | **y^2** |
| 3.15 | 20 | 63 | 9.92 | 400 |
| 3.56 | 23 | 81.88 | 12.67 | 529 |
| 3.43 | 22 | 75.46 | 11.76 | 484 |
| 3.78 | 19 | 71.82 | 14.29 | 361 |
| 3.22 | 24 | 77.28 | 10.37 | 576 |
| 3.31 | 20 | 66.2 | 10.96 | 400 |
| 3.52 | 22 | 77.44 | 12.39 | 484 |
| 3.22 | 24 | 77.28 | 10.37 | 576 |
| 3.71 | 22 | 81.62 | 13.76 | 484 |
| 3.34 | 23 | 76.82 | 11.16 | 529 |
| 3.56 | 24 | 85.44 | 12.67 | 576 |
| 3.97 | 22 | 87.34 | 15.76 | 484 |
| 3.78 | 23 | 86.94 | 14.29 | 529 |
| 2.7 | 20 | 54 | 7.29 | 400 |
| 3.6 | 21 | 75.6 | 12.96 | 441 |
| 3.43 | 21 | 72.03 | 11.76 | 441 |
| 3 | 20 | 60 | 9.00 | 400 |
| 3.14 | 20 | 62.8 | 9.86 | 400 |
| 3.13 | 21 | 65.73 | 9.80 | 441 |
| 2.7 | 20 | 54 | 7.29 | 400 |
| 3.35 | 21 | 70.35 | 11.22 | 441 |
| 3.21 | 21 | 67.41 | 10.30 | 441 |
|  |  | 1590.44 | 249.86 | 10217 |

= = 21.5

= 11.28 = 462.25

R = =

= 0.13

**Comment:** Positive and week correlation. When CGPA of the female increase their age is also increase

**Scatter Diagram:(**between CGPA and Age**)**

**Comment:** Positive and week correlation. When CGPA of the female increase their age is also increase

**Male:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **Age y** | **xy** | **x^2** | **y^2** |
| 3.66 | 20 | 73.2 | 13.40 | 400 |
| 3.16 | 22 | 69.52 | 9.99 | 484 |
| 3.02 | 21 | 63.42 | 9.12 | 441 |
| 3.74 | 23 | 86.02 | 13.99 | 529 |
| 2.5 | 22 | 55 | 6.25 | 484 |
| 3.95 | 21 | 82.95 | 15.60 | 441 |
| 3.5 | 22 | 77 | 12.25 | 484 |
| 3.01 | 21 | 63.21 | 9.06 | 441 |
| 3.47 | 21 | 72.87 | 12.04 | 441 |
| 3.6 | 20 | 72 | 12.96 | 400 |
| 2.45 | 22 | 53.9 | 6.00 | 484 |
| 3.87 | 21 | 81.27 | 14.98 | 441 |
| 3.27 | 20 | 65.4 | 10.69 | 400 |
| 3.39 | 22 | 74.58 | 11.49 | 484 |
| 3.33 | 22 | 73.26 | 11.09 | 484 |
| 3.67 | 21 | 77.07 | 13.47 | 441 |
| 3.33 | 21 | 69.93 | 11.09 | 441 |
| 3.23 | 21 | 67.83 | 10.43 | 441 |
| 3.67 | 20 | 73.4 | 13.47 | 400 |
| 3.65 | 20 | 73 | 13.32 | 400 |
| 2.9 | 22 | 63.8 | 8.41 | 484 |
| 2.84 | 20 | 56.8 | 8.07 | 400 |
| 3.6 | 20 | 72 | 12.96 | 400 |
| 3.26 | 23 | 74.98 | 10.63 | 529 |
| 3.23 | 20 | 64.6 | 10.43 | 400 |
| 2.56 | 23 | 58.88 | 6.55 | 529 |
| 2.23 | 22 | 49.06 | 4.97 | 484 |
| 3.83 | 25 | 95.75 | 14.67 | 625 |
| 3.34 | 22 | 73.48 | 11.16 | 484 |
| 3.94 | 20 | 78.8 | 15.52 | 400 |
| 2.9 | 21 | 60.9 | 8.41 | 441 |
| 3.47 | 21 | 72.87 | 12.04 | 441 |
| 3.85 | 21 | 80.85 | 14.82 | 441 |
| 109.42 | 703 | 2327.6 | 369.33 | 15019 |

= = 21.3

= 11.02 = 453.69

R = =

= - 0.37

**Comment:** Negative and week correlation. When the male students’ CGPA is increase ,their age is decrease

**Scatter Diagram:(**between CGPA and age**)**

**Comment:** Negative and week correlation. When the male students’ CGPA is increase ,their age is decrease

**Correlation between CGPA and credits:**

**Female:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **Credit y** | **xy** | **x^2** | **y^2** |
| 3.15 | 33 | 103.95 | 9.92 | 1089 |
| 3.56 | 105 | 373.8 | 12.67 | 11025 |
| 3.43 | 84 | 288.12 | 11.76 | 7056 |
| 3.78 | 15 | 56.7 | 14.29 | 225 |
| 3.22 | 114 | 367.08 | 10.37 | 12996 |
| 3.31 | 42 | 139.02 | 10.96 | 1764 |
| 3.52 | 39 | 137.28 | 12.39 | 1521 |
| 3.22 | 112 | 360.64 | 10.37 | 12544 |
| 3.71 | 75 | 278.25 | 13.76 | 5625 |
| 3.34 | 87 | 290.58 | 11.16 | 7569 |
| 3.56 | 120 | 427.2 | 12.67 | 14400 |
| 3.97 | 84 | 333.48 | 15.76 | 7056 |
| 3.78 | 87 | 328.86 | 14.29 | 7569 |
| 2.7 | 33 | 89.1 | 7.29 | 1089 |
| 3.6 | 81 | 291.6 | 12.96 | 6561 |
| 3.43 | 45 | 154.35 | 11.76 | 2025 |
| 3 | 42 | 126 | 9.00 | 1764 |
| 3.14 | 37 | 116.18 | 9.86 | 1369 |
| 3.13 | 39 | 122.07 | 9.80 | 1521 |
| 2.7 | 21 | 56.7 | 7.29 | 441 |
| 3.35 | 33 | 110.55 | 11.22 | 1089 |
| 3.21 | 24 | 77.04 | 10.30 | 576 |
| 73.81 | 1352 | 4628.55 | 249.86 | 106874 |

= = 61.45

= 11.28 = 3776.10

R = =

= 0.002

**Comment:** Positive and very week correlation. When the female students’ CGPA is increase, their credit is also increase

**Scatter Diagram:(**between CGPA and credit**)**

**Comment:** Positive and very week correlation. When the female students’ CGPA is increase, their credit is also increase

**Male:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **Credit y** | **xy** | **x^2** | **y^2** |
| 3.66 | 33 | 120.78 | 13.40 | 1089 |
| 3.16 | 30 | 94.8 | 9.99 | 900 |
| 3.02 | 33 | 99.66 | 9.12 | 1089 |
| 3.74 | 33 | 123.42 | 13.99 | 1089 |
| 2.5 | 21 | 52.5 | 6.25 | 441 |
| 3.95 | 49 | 193.55 | 15.60 | 2401 |
| 3.5 | 98 | 343 | 12.25 | 9604 |
| 3.01 | 45 | 135.45 | 9.06 | 2025 |
| 3.47 | 37 | 128.39 | 12.04 | 1369 |
| 3.6 | 37 | 133.2 | 12.96 | 1369 |
| 2.45 | 45 | 110.25 | 6.00 | 2025 |
| 3.87 | 30 | 116.1 | 14.98 | 900 |
| 3.27 | 30 | 98.1 | 10.69 | 900 |
| 3.39 | 95 | 322.05 | 11.49 | 9025 |
| 3.33 | 54 | 179.82 | 11.09 | 2916 |
| 3.67 | 39 | 143.13 | 13.47 | 1521 |
| 3.33 | 43 | 143.19 | 11.09 | 1849 |
| 3.23 | 39 | 125.97 | 10.43 | 1521 |
| 3.67 | 30 | 110.1 | 13.47 | 900 |
| 3.65 | 36 | 131.4 | 13.32 | 1296 |
| 2.9 | 27 | 78.3 | 8.41 | 729 |
| 2.84 | 56 | 159.04 | 8.07 | 3136 |
| 3.6 | 51 | 183.6 | 12.96 | 2601 |
| 3.26 | 81 | 264.06 | 10.63 | 6561 |
| 3.23 | 39 | 125.97 | 10.43 | 1521 |
| 2.56 | 84 | 215.04 | 6.55 | 7056 |
| 2.23 | 42 | 93.66 | 4.97 | 1764 |
| 3.83 | 72 | 275.76 | 14.67 | 5184 |
| 3.34 | 42 | 140.28 | 11.16 | 1764 |
| 3.94 | 30 | 118.2 | 15.52 | 900 |
| 2.9 | 30 | 87 | 8.41 | 900 |
| 3.47 | 37 | 128.39 | 12.04 | 1369 |
| 3.85 | 45 | 173.25 | 14.82 | 2025 |
| 109.42 | 1493 | 4947.41 | 369.33 | 79739 |

= = 45.24

= 11.02 = 2046.66

R = =

= - 0.35

**Comment:** Negative and week correlation. When the male students’ CGPA is increase ,their credit is decrease

**Scatter Diagram:(**between CGPA and credit**)**

**Comment:** Negative and week correlation. When the male students’ CGPA is increase ,their credit is decrease

**Correlation between CGPA and HSC GPA:**

**Female:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **GPA(HSC) y** | **xy** | **x^2** | **y^2** |
| 3.15 | 4.5 | 14.18 | 9.92 | 20.25 |
| 3.56 | 5 | 17.80 | 12.67 | 25.00 |
| 3.43 | 4.67 | 16.02 | 11.76 | 21.81 |
| 3.78 | 4.88 | 18.45 | 14.29 | 23.81 |
| 3.22 | 4.08 | 13.14 | 10.37 | 16.65 |
| 3.31 | 5 | 16.55 | 10.96 | 25.00 |
| 3.52 | 5 | 17.60 | 12.39 | 25.00 |
| 3.22 | 3.56 | 11.46 | 10.37 | 12.67 |
| 3.71 | 5 | 18.55 | 13.76 | 25.00 |
| 3.34 | 5 | 16.70 | 11.16 | 25.00 |
| 3.56 | 4.45 | 15.84 | 12.67 | 19.80 |
| 3.97 | 5 | 19.85 | 15.76 | 25.00 |
| 3.78 | 5 | 18.90 | 14.29 | 25.00 |
| 2.7 | 4.38 | 11.83 | 7.29 | 19.18 |
| 3.6 | 5 | 18.00 | 12.96 | 25.00 |
| 3.43 | 4.88 | 16.74 | 11.76 | 23.81 |
| 3 | 5 | 15.00 | 9.00 | 25.00 |
| 3.14 | 4.94 | 15.51 | 9.86 | 24.40 |
| 3.13 | 5 | 15.65 | 9.80 | 25.00 |
| 2.7 | 5 | 13.50 | 7.29 | 25.00 |
| 3.35 | 4.5 | 15.08 | 11.22 | 20.25 |
| 3.21 | 4.17 | 13.39 | 10.30 | 17.39 |
| 73.81 | 104.01 | 349.72 | 249.86 | 495.04 |

= = 4.72

= 11.28 = 55.05

R = =

= 0.023

**Comment:** Positive and week correlation. When the female students’ CGPA is increase, their HSC GPA is also increase

**Scatter Diagram:(**between CGPA and HSC GPA**)**

**Comment:** Positive and week correlation. When the female students’ CGPA is increase, their HSC GPA is also increase

**Male:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **GPA(HSC) y** | **xy** | **x^2** | **y^2** |
| 3.66 | 5 | 18.30 | 13.40 | 25.00 |
| 3.16 | 3.83 | 12.10 | 9.99 | 14.67 |
| 3.02 | 5 | 15.10 | 9.12 | 25.00 |
| 3.74 | 4.25 | 15.90 | 13.99 | 18.06 |
| 2.5 | 5 | 12.50 | 6.25 | 25.00 |
| 3.95 | 4.25 | 16.79 | 15.60 | 18.06 |
| 3.5 | 4.17 | 14.60 | 12.25 | 17.39 |
| 3.01 | 5 | 15.05 | 9.06 | 25.00 |
| 3.47 | 4.5 | 15.62 | 12.04 | 20.25 |
| 3.6 | 5 | 18.00 | 12.96 | 25.00 |
| 2.45 | 5 | 12.25 | 6.00 | 25.00 |
| 3.87 | 5 | 19.35 | 14.98 | 25.00 |
| 3.27 | 5 | 16.35 | 10.69 | 25.00 |
| 3.39 | 3.67 | 12.44 | 11.49 | 13.47 |
| 3.33 | 5 | 16.65 | 11.09 | 25.00 |
| 3.67 | 5 | 18.35 | 13.47 | 25.00 |
| 3.33 | 4 | 13.32 | 11.09 | 16.00 |
| 3.23 | 4.56 | 14.73 | 10.43 | 20.79 |
| 3.67 | 4.07 | 14.94 | 13.47 | 16.56 |
| 3.65 | 4.83 | 17.63 | 13.32 | 23.33 |
| 2.9 | 4.88 | 14.15 | 8.41 | 23.81 |
| 2.84 | 5 | 14.20 | 8.07 | 25.00 |
| 3.6 | 5 | 18.00 | 12.96 | 25.00 |
| 3.26 | 4.08 | 13.30 | 10.63 | 16.65 |
| 3.23 | 5 | 16.15 | 10.43 | 25.00 |
| 2.56 | 4.56 | 11.67 | 6.55 | 20.79 |
| 2.23 | 4.25 | 9.48 | 4.97 | 18.06 |
| 3.83 | 5 | 19.15 | 14.67 | 25.00 |
| 3.34 | 4.5 | 15.03 | 11.16 | 20.25 |
| 3.94 | 5 | 19.70 | 15.52 | 25.00 |
| 2.9 | 5 | 14.50 | 8.41 | 25.00 |
| 3.47 | 4.5 | 15.62 | 12.04 | 20.25 |
| 3.85 | 5 | 19.25 | 14.82 | 25.00 |
| 109.42 | 153.9 | 510.15 | 369.33 | 723.41 |

= = 4.66

= 11.02 = 21.72

R = =

= - 0.07

**Comment:** Negative and week correlation. When the male students’ CGPA is increase ,their HSC GPA is decrease.

**Scatter Diagram:(**between CGPA and HSC GPA**)**

**Comment:** Negative and week correlation. When the male students’ CGPA is increase ,their HSC GPA is decrease.

**Correlation between CGPA and SSC GPA:**

**Female:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **GPA(SSC) y** | **xy** | **x^2** | **y^2** |
| 3.15 | 5 | 15.75 | 9.92 | 25.00 |
| 3.56 | 5 | 17.8 | 12.67 | 25.00 |
| 3.43 | 5 | 17.15 | 11.76 | 25.00 |
| 3.78 | 5 | 18.9 | 14.29 | 25.00 |
| 3.22 | 4.67 | 15.0374 | 10.37 | 21.81 |
| 3.31 | 5 | 16.55 | 10.96 | 25.00 |
| 3.52 | 5 | 17.6 | 12.39 | 25.00 |
| 3.22 | 4.66 | 15.0052 | 10.37 | 21.72 |
| 3.71 | 5 | 18.55 | 13.76 | 25.00 |
| 3.34 | 5 | 16.7 | 11.16 | 25.00 |
| 3.56 | 5 | 17.8 | 12.67 | 25.00 |
| 3.97 | 5 | 19.85 | 15.76 | 25.00 |
| 3.78 | 5 | 18.9 | 14.29 | 25.00 |
| 2.7 | 5 | 13.5 | 7.29 | 25.00 |
| 3.6 | 5 | 18 | 12.96 | 25.00 |
| 3.43 | 5 | 17.15 | 11.76 | 25.00 |
| 3 | 5 | 15 | 9.00 | 25.00 |
| 3.14 | 5 | 15.7 | 9.86 | 25.00 |
| 3.13 | 5 | 15.65 | 9.80 | 25.00 |
| 2.7 | 4.38 | 11.826 | 7.29 | 19.18 |
| 3.35 | 5 | 16.75 | 11.22 | 25.00 |
| 3.21 | 5 | 16.05 | 10.30 | 25.00 |
| 73.81 | 108.71 | 365.2186 | 249.86 | 537.71 |

= = 4.94

= 11.28 = 24.40

R = =

= 0.04

**Comment:** Positive and week correlation. When the female students’ CGPA is increase, their SSC GPA is also increase

**Scatter Diagram:(**between CGPA and daily SSC GPA**)**

**Comment:** Positive and week correlation. When the female students’ CGPA is increase, their SSC GPA is also increase

**Male:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **GPA(SSC) y** | **xy** | **x^2** | **y^2** |
| 3.66 | 5 | 18.3 | 13.40 | 25.00 |
| 3.16 | 5 | 15.8 | 9.99 | 25.00 |
| 3.02 | 5 | 15.1 | 9.12 | 25.00 |
| 3.74 | 5 | 18.7 | 13.99 | 25.00 |
| 2.5 | 5 | 12.5 | 6.25 | 25.00 |
| 3.95 | 5 | 19.75 | 15.60 | 25.00 |
| 3.5 | 5 | 17.5 | 12.25 | 25.00 |
| 3.01 | 5 | 15.05 | 9.06 | 25.00 |
| 3.47 | 5 | 17.35 | 12.04 | 25.00 |
| 3.6 | 5 | 18 | 12.96 | 25.00 |
| 2.45 | 5 | 12.25 | 6.00 | 25.00 |
| 3.87 | 5 | 19.35 | 14.98 | 25.00 |
| 3.27 | 5 | 16.35 | 10.69 | 25.00 |
| 3.39 | 4.75 | 16.1025 | 11.49 | 22.56 |
| 3.33 | 5 | 16.65 | 11.09 | 25.00 |
| 3.67 | 5 | 18.35 | 13.47 | 25.00 |
| 3.33 | 3.5 | 11.655 | 11.09 | 12.25 |
| 3.23 | 4.89 | 15.7947 | 10.43 | 23.91 |
| 3.67 | 4.94 | 18.1298 | 13.47 | 24.40 |
| 3.65 | 5 | 18.25 | 13.32 | 25.00 |
| 2.9 | 4.94 | 14.326 | 8.41 | 24.40 |
| 2.84 | 5 | 14.2 | 8.07 | 25.00 |
| 3.6 | 5 | 18 | 12.96 | 25.00 |
| 3.26 | 4.33 | 14.1158 | 10.63 | 18.75 |
| 3.23 | 5 | 16.15 | 10.43 | 25.00 |
| 2.56 | 5 | 12.8 | 6.55 | 25.00 |
| 2.23 | 5 | 11.15 | 4.97 | 25.00 |
| 3.83 | 5 | 19.15 | 14.67 | 25.00 |
| 3.34 | 4.67 | 15.5978 | 11.16 | 21.81 |
| 3.94 | 5 | 19.7 | 15.52 | 25.00 |
| 2.9 | 5 | 14.5 | 8.41 | 25.00 |
| 3.47 | 4 | 13.88 | 12.04 | 16.00 |
| 3.85 | 5 | 19.25 | 14.82 | 25.00 |
| 109.42 | 161.02 | 533.7516 | 369.33 | 789.09 |

= = 4.91

= 11.02 = 24.10

R = =

= 0-42.32i (Complex number)

**Comment:** Undefined correlation between male students’ CGPA and their SSC GPA.

**Scatter Diagram:(**between CGPA and daily SSC GPA**)**

**Comment:** Undefined correlation between male students’ CGPA and their SSC GPA.

**Correlation between CGPA and daily Study hour:**

**Female:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **Daily study hour y** | **xy** | **x^2** | **y^2** |
| 3.15 | 1 | 3.15 | 9.92 | 1.00 |
| 3.56 | 3 | 10.68 | 12.67 | 9.00 |
| 3.43 | 1 | 3.43 | 11.76 | 1.00 |
| 3.78 | 4 | 15.12 | 14.29 | 16.00 |
| 3.22 | 0.5 | 1.61 | 10.37 | 0.25 |
| 3.31 | 2 | 6.62 | 10.96 | 4.00 |
| 3.52 | 2 | 7.04 | 12.39 | 4.00 |
| 3.22 | 0.5 | 1.61 | 10.37 | 0.25 |
| 3.71 | 1 | 3.71 | 13.76 | 1.00 |
| 3.34 | 1 | 3.34 | 11.16 | 1.00 |
| 3.56 | 2 | 7.12 | 12.67 | 4.00 |
| 3.97 | 3 | 11.91 | 15.76 | 9.00 |
| 3.78 | 0.75 | 2.84 | 14.29 | 0.56 |
| 2.7 | 2 | 5.40 | 7.29 | 4.00 |
| 3.6 | 4 | 14.40 | 12.96 | 16.00 |
| 3.43 | 1 | 3.43 | 11.76 | 1.00 |
| 3 | 4 | 12.00 | 9.00 | 16.00 |
| 3.14 | 2 | 6.28 | 9.86 | 4.00 |
| 3.13 | 0.75 | 2.35 | 9.80 | 0.56 |
| 2.7 | 0.5 | 1.35 | 7.29 | 0.25 |
| 3.35 | 0.75 | 2.51 | 11.22 | 0.56 |
| 3.21 | 1 | 3.21 | 10.30 | 1.00 |
| 73.81 | 37.75 | 129.11 | 249.86 | 94.44 |

= = 1.72

= 11.28 = 2.96

R = =

= 0.28

**Comment:** Positive and week correlation. When the female students’ CGPA is increase, their daily study hour is also increase

**Scatter Diagram:(**between CGPA and daily study hour**)**

**Comment:** Positive and week correlation. When the female students’ CGPA is increase, their daily study hour is also increase

**Male:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CGPA x** | **Daily study hour y** | **xy** | **x^2** | **y^2** |
| 3.66 | 0.25 | 0.92 | 13.40 | 0.06 |
| 3.16 | 0.5 | 1.58 | 9.99 | 0.25 |
| 3.02 | 2 | 6.04 | 9.12 | 4.00 |
| 3.74 | 0 | 0.00 | 13.99 | 0.00 |
| 2.5 | 0.5 | 1.25 | 6.25 | 0.25 |
| 3.95 | 2 | 7.90 | 15.60 | 4.00 |
| 3.5 | 5 | 17.50 | 12.25 | 25.00 |
| 3.01 | 3 | 9.03 | 9.06 | 9.00 |
| 3.47 | 2 | 6.94 | 12.04 | 4.00 |
| 3.6 | 2 | 7.20 | 12.96 | 4.00 |
| 2.45 | 3 | 7.35 | 6.00 | 9.00 |
| 3.87 | 0.25 | 0.97 | 14.98 | 0.06 |
| 3.27 | 0.5 | 1.64 | 10.69 | 0.25 |
| 3.39 | 2 | 6.78 | 11.49 | 4.00 |
| 3.33 | 3 | 9.99 | 11.09 | 9.00 |
| 3.67 | 0.01 | 0.04 | 13.47 | 0.00 |
| 3.33 | 2 | 6.66 | 11.09 | 4.00 |
| 3.23 | 0.75 | 2.42 | 10.43 | 0.56 |
| 3.67 | 4 | 14.68 | 13.47 | 16.00 |
| 3.65 | 3 | 10.95 | 13.32 | 9.00 |
| 2.9 | 1 | 2.90 | 8.41 | 1.00 |
| 2.84 | 0.5 | 1.42 | 8.07 | 0.25 |
| 3.6 | 2 | 7.20 | 12.96 | 4.00 |
| 3.26 | 0.75 | 2.45 | 10.63 | 0.56 |
| 3.23 | 2 | 6.46 | 10.43 | 4.00 |
| 2.56 | 0.5 | 1.28 | 6.55 | 0.25 |
| 2.23 | 0.75 | 1.67 | 4.97 | 0.56 |
| 3.83 | 0.5 | 1.92 | 14.67 | 0.25 |
| 3.34 | 1 | 3.34 | 11.16 | 1.00 |
| 3.94 | 2 | 7.88 | 15.52 | 4.00 |
| 2.9 | 0.25 | 0.73 | 8.41 | 0.06 |
| 3.47 | 5 | 17.35 | 12.04 | 25.00 |
| 3.85 | 1 | 3.85 | 14.82 | 1.00 |
| 109.42 | 53.01 | 178.26 | 369.33 | 144.38 |

= = 1.61

= 11.02 = 2.6

R = =

= 0.10

**Comment:** Positive and week correlation. When the male students’ CGPA is increase, their daily study hour is also increase

**Scatter Diagram:(**between CGPA and daily study hour**)**

**Comment:** Positive and week correlation. When the male students’ CGPA is increase, their daily study hour is also increase