

# COMPARATIVE ANALYSIS OF FINAL 

 TERM EXAMINATION RESULT USINGSPSS 2080


## Introduction

This report provides the results of the comparative analysis of Final Term Evaluation of the academic year 2080 B.S. This report does not provide information regarding the causes of increase or decrease in marks of the term wise evaluations.

Analyses were based on the marks obtained by the students out of 100 marks in each subject, i.e. percentage secured. The total 100 marks comprises Examination (Theory + Practical, or Theory wherever applicable) + Continuous Assessment System (CAS) marks. Evaluation of any subject was adjusted to 100 marks even if it was of less than 100 marks.

## Methods

## Data

The data were obtained from mark sheet ledgers:

- DSS - Marksheet Ledger Final Term Exam - 2080

Referred by the Examination Committee Coordinator: Mr. Ujjwal Poudel

## Data Entry and Analysis

Data entry and statistical analyses were performed using the 'Statistical Package for the Social Science' (SPSS) Software (IBM, New York, US). Average marks obtained were compared by a statistical test (t-test). To compare the results from Grade I to XII, following hypotheses were set and tested:

Null Hypothesis $\left(H_{0}\right)$ : There is no significant difference in the performance between Second Semester Evaluation and First Semester Evaluation, i.e. $\mu F=\mu S$

## Alternate Hypothesis $\left(H_{l}\right)$ : There is a significant difference in performance between Second Semester Evaluation and First Semester Evaluation, i.e. $\mu F \neq \mu S$

Level of Significance: The level of significance is defined as the probability (p) of rejecting a null hypothesis by the test when it is really true, which is denoted as $\alpha$. A p-value of $<=0.05$ is widely considered to be a statistically significant result. That is, $p$ (Type I error) $=\alpha$. Type I error is the rejection of a true null hypothesis (also known as a "false positive" finding). Type II error is failing to reject a false null hypothesis (also known as a "false negative" finding).

## Results

Results were provided Grade-wise or section-wise if applicable.

## Grade I - Kanchenjunga

The evaluation was based on 16 students. The table below provides Mean and Median marks obtained by Grade I - Kanchenjunga students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term Score and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference |
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## In Final Term;

- Average marks significantly increased in Science, Coding, Music and Visual Arts. ( $\mathrm{p}<0.05$
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score
$\square$ Third term $\square$ Final Term


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade I Kanchenjunga students in the Final Term Examination. From the graph, it is noticeable that the average marks have increased appreciably in Mathematics, Music, and Coding as compared to Third Term Score. However, the marks have slightly declined in Nepali Reading Book, English Reading Book and Nepali. The Grade I - Kanchenjunga students have shown satisfactory performance in Final Term.

## Grade I - Lhotse

The evaluation was based on 13 students. The table below provides Mean and Median marks obtained by Grade I-Lhotse students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with Third Term Score, and inference and conclusion were provided.

| Subject | Term III | Median I | Term IV | Median <br> II |  | P-Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :--- |


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| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  |  |  |  |  |  | In Final term, $50 \%$ of grade I - Lhotse <br> students scored $>94.8$ in English <br> Reading Book. Since p $>\alpha$, we retain null <br> hypothesis and conclude that final term <br> and third term results are not <br> significantly different. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| English <br> Reading Book | 95.1 | 94.8 | 94.9 | 94.8 | 0.34 |  |

## In Final Term:

- Average marks significantly increased in Nepali,Science, Visual Arts, Club-II and Club-I (p<0.05).
- Average marks significantly decreased in English only. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade I - Lhotse students in Final Term . From the graph, it is noticeable that the average marks have increased appreciably in Science, Visual Arts and Club-I as compared to Third Term Score. However, the marks have slightly declined in Dance and English. The Grade I - Lhotse students have shown satisfactory performance in Final Term.

## Grade II - Makalu

The evaluation was based on 22 students. The table below provides Mean and Median marks obtained by Grade II - Makalu students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term Score and inference and conclusion were provided.

| Subject | Term III |  | Median I | Term IV | Median <br> II | P-Value |
| :--- | :--- | :--- | :--- | :---: | :---: | :--- |


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| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  |  |  |  |  |  | In Final term, $50 \%$ of grade II - Makalu <br> students scored $>84.63$ in Nepali <br> Reading Book. Since p $>\alpha$, we retain null <br> hypothesis and conclude that final term <br> and third term results are not <br> significantly different. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Nepali reading <br> Book | 84.8 | 85.2 | 85.1 | 84.6 | 0.84 |  |
|  | 90.3 | 94.3 | 88.2 | 91.9 | 0.33 | In Final term, $50 \%$ of grade II - Makalu <br> students scored $>91.9$ in the English <br> Reading Book. Since p $>\alpha$, we retain null <br> hypothesis and conclude that final term <br> and third term results are not <br> significantly different. |
| English <br> Reading Book |  |  |  |  |  |  |

## In Final Term:

- Average marks significantly increased in Music and Club-I. (p<0.05).
- Average marks significantly decreased in Science and Hamro Serophero.( $\mathrm{p}<0.05$ ).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph depicts the average marks of different subjects obtained by Grade II- Makalu students in Final Term. Overall, there is an upward trend in average marks obtained by students in Music and Club-I as compared to Third Term Scores.. However, the marks have declined noticeably in Nepali Reading Book and Science .

## Grade II - Cho Oyu

The evaluation was based on 22 students. The table below provides Mean and Median marks obtained by Grade II - Cho Oyu students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term Score, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- |


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| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  |  |  |  |  |  | There is a significant increase. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Visual Art | 65.4 | 63.6 | 88.7 | 87.8 | 0.00 | In Final term, 50\% of grade II - Cho-Oyu students scored $>87.8$ in Visual Art. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Nepali reading Book | 89.8 | 91.3 | 86.7 | 87.7 | 0.01 | In Final term, $50 \%$ of grade II - Cho-Oyu students scored $>87.6$ in Nepali Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| English <br> Reading Book | 92.2 | 96.4 | 89.1 | 93.3 | 0.28 | In Final term, 50\% of grade II - Cho-Oyu students scored $>93.3$ in English Reading Book. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |

## In Final Term:

- Average marks significantly increased in Visual Art, Club-II and Theatre. ( $\mathrm{p}<0.05$ ).
- Average marks significantly decreased in English, Dance and Nepali Reading Book . ( $\mathrm{p}<0.05$ ).
- In the rest of the subjects,marks obtained were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade II - Cho Oyu students in Final Term. Compared to Third Term Score, there is an upward trend in average marks obtained by students in Visual Arts,Theatre and Club-II . However, there is a slight decline in average marks in a few subjects such as Nepali, Dance and English.

## Grade III - Dhaulagiri

The evaluation was based on 15 students. The table below provides Mean and Median marks obtained by Grade III - Dhaulagiri students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term Score examination, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | $\begin{gathered} \hline \text { Median } \\ \text { II } \\ \hline \end{gathered}$ | P-Value |  |


| Nepali | 81.5 | 80.1 | 80.6 | 78.9 | 0.01 | In Final term, $50 \%$ of grade III Dhaulagiri students scored $>78.85$ in Nepali. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| English | 88.6 | 89.8 | 89.0 | 90.2 | 0.81 | In Final term, 50\% of grade III Dhaulagiri students scored $>90.19$ in English. Since p $>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Mathematics | 84.6 | 86.7 | 85.7 | 87.7 | 0.59 | In Final term, 50\% of grade III Dhaulagiri students scored $>87.67$ in Mathematics. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Science | 89.1 | 89.9 | 87.1 | 85.3 | 0.18 | In Final term, 50\% of grade III Dhaulagiri students scored $>85.34$ in Science. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Hamro <br> Serophero | 89.6 | 90.6 | 90.3 | 90.1 | 0.40 | In Final term, $50 \%$ of grade III Dhaulagiri students scored $>90.06$ in Hamro Serophero. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Sanskrit | 81.7 | 81.4 | 78.5 | 78.9 | 0.14 | In Final term, $50 \%$ of grade III Dhaulagiri students scored $>78.85$ in Sanskrit. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Coding | 76.9 | 77.0 | 81.5 | 82.0 | 0.02 | In Final term, 50\% of grade III Dhaulagiri students scored $>81.95$ in Coding. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |


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| English <br> Reading Book | 92.5 | 96.1 | 91.4 | 94.6 | 0.58 | In Final term, $50 \%$ of grade III Dhaulagiri students scored $>94.6$ in English Reading Book. Since p $>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## In Final Term:

- Average marks significantly increased in Coding, Theatre and Visual Arts. (p<0.05).
- Average marks significantly decreased in Nepali . (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


The bar graph illustrates the average marks of different subjects obtained by Grade III Dhaulagiri students in Final Term. The average marks substantially increased in Coding ,Theatre and Visual Arts. There is a decreasing trend in marks obtained in English Reading Book.

## Grade III - Manaslu

The evaluation was based on 17 students. The table below provides Mean and Median marks obtained by Grade III - Manaslu students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term Score, and inference and conclusion were provided.

|  | Third Term |  | Final Term |  | Inference |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- |


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|  |  |  |  |  |  | There is a significant increase. <br> Nepali reading <br> Book |
|  | 78.7 | 82.8 | 81.2 | 83.8 | 0.39 | Final term, $50 \%$ of grade III - Manaslu <br> students scored $>83.8$ in Nepali Reading <br> Book. Since p $>\alpha$, we retain null <br> hypothesis and conclude that final term <br> and third term results are not <br> significantly different. |
| English <br> Reading Book | 93.7 | 95.4 | 92.9 | 94.8 | 0.36 | In Final term, $50 \%$ of grade III - Manaslu <br> students scored $>94.8$ in the English <br> Reading Book. Since p $>\alpha$, we retain null <br> hypothesis and conclude that final term <br> and third term results are not <br> significantly different. |

## In Final Term:

- Average marks significantly increased in Nepali,Club-I,Theatre and Visual Arts.(p<0.05).
- Average marks significantly decreased in English and Coding. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade III - Manaslu students in Final Term. The average marks substantially increased in Club-I,Theatre and Visual Arts. While marks substantially decreased in English.Overall, there is an upward trend in average marks obtained by Grade III - Manaslu students in Final Term.

## Grade III - Nilgiri

The evaluation was based on 16 students. The table below provides Mean and Median marks obtained by Grade III - Dhaulagiri students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term Score, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- |


| Sanskrit | 79.4 | 81.1 | 81.5 | 81.1 | 0.53 | In Final term, 50\% of grade III - Nilgiri students scored $>81.1$ in Sanskrit. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coding | 74.6 | 73.5 | 76.5 | 76.7 | 0.12 | In Final term, $50 \%$ of grade III - Nilgiri students scored $>76.65$ in Coding. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Dance | 86.9 | 89.1 | 82.0 | 85.5 | 0.03 | In Final term, 50\% of grade III - Nilgiri students scored $>85.5$ in Dance. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Club I | 73.8 | 77.0 | 80.2 | 86.0 | 0.12 | In Final term, $50 \%$ of grade III - Nilgiri students scored $>86$ in Club I. Since $\mathrm{p}>\alpha$, we retain the null hypothesis and conclude that final term and third term results are not significantly different. |
| Club II | 40.8 | 39.0 | 83.3 | 83.6 | 0.00 | In Final term, 50\% of grade III - Nilgiri students scored $>83.6$ in Club II. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Music | 87.0 | 87.5 | 87.8 | 86.0 | 0.72 | In Final term, 50\% of grade III - Nilgiri students scored $>86$ in Music. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Theatre | 80.4 | 83.7 | 79.8 | 82.1 | 0.80 | In Final term, $50 \%$ of grade III - Nilgiri students scored $>82.1$ in Theatre. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Visual Art | 71.0 | 69.1 | 89.9 | 91.8 | 0.00 | In Final term, 50\% of grade III - Nilgiri students scored $>91.8$ in Visual Art. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |


| Nepali Reading <br> Book | 83.9 | 82.1 | 76.4 | 74.9 | 0.01 | In Final term, 50\% of grade III - Nilgiri students scored $>74.9$ in Nepali Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| English <br> Reading Book | 83.9 | 82.1 | 78.8 | 84.4 | 0.04 | In Final term, $50 \%$ of grade III - Nilgiri students scored $>84.39$ in the English Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |

## In Final Term:

- Average marks significantly increased in Visual Art and Club-II. (p<0.05).
- Average marks significantly decreased in Dance,Nepali Reading Book and English Reading Book. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


The bar graph illustrates the average marks of different subjects obtained by Grade III Dhaulagiri students in Final Term. The average marks substantially increased in Club-II ,Hamro Serofero and Visual Arts . There is a decreasing trend in marks obtained in Dance and Nepali Reading Book.

## Grade IV - Annapurna

The evaluation was based on 23 students. The table below provides Mean and Median marks obtained by grade IV - Annapurna students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the third term score, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | Median II |  |  |
| Nepali | 80.0 | 83.6 | 79.6 | 80.1 | 0.07 | In Final term, 50\% of grade IV Annapurna students scored $>80.08$ in Nepali. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| English | 84.8 | 90.7 | 86.4 | 88.9 | 0.47 | In Final term, $50 \%$ of grade IV Annapurna students scored $>88.9$ in English. Since p $>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Mathematics | 85.9 | 89.0 | 84.2 | 86.1 | 0.35 | In Final term, $50 \%$ of grade IV Annapurna students scored $>86.05$ in Mathematics. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Science | 77.2 | 76.6 | 77.4 | 78.0 | 0.90 | In Final term, $50 \%$ of grade IV Annapurna students scored $>77.95$ in Science. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Social Studies | 82.2 | 84.4 | 86.4 | 89.3 | 0.00 | In Final term, $50 \%$ of grade IV Annapurna students scored $>89.29$ in Social Studies. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| HPE | 83.9 | 86.6 | 82.8 | 83.5 | 0.31 | In Final term, 50\% of grade IV Annapurna students scored $>83.475$ in HPE. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |


| Sanskrit | 77.8 | 78.0 | 75.3 | 77.6 | 0.19 | In Final term, 50\% of grade IV Annapurna students scored $>77.6$ in Sanskrit. Since p> $>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coding | 74.7 | 74.7 | 78.4 | 78.6 | 0.00 | In Final term, 50\% of grade IV Annapurna students scored $>78.6$ in Coding. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Dance | 84.4 | 86.7 | 80.7 | 81.2 | 0.06 | In Final term, 50\% of grade IV Annapurna students scored $>81.2$ in Dance. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Club I | 60.2 | 52.8 | 81.7 | 83.0 | 0.00 | In Final term, 50\% of grade IV Annapurna students scored $>83$ in Club I. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Music | 81.9 | 84.0 | 85.4 | 86.0 | 0.16 | In Final term, $50 \%$ of grade IV Annapurna students scored $>86$ in Music. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Drama | 77.5 | 78.7 | 70.5 | 70.0 | 0.00 | In Final term, $50 \%$ of grade IV Annapurna students scored $>70$ in Drama. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |

$\left.\begin{array}{|l|l|l|l|l|l|l|}\hline & & & & & & \begin{array}{l}\text { In Final term, 50\% of grade IV - } \\ \text { Annapurna students scored }>92.6 \text { in } \\ \text { Visual Art. Since p<a, we fail to retain } \\ \text { the null hypothesis and conclude that }\end{array} \\ \text { final term and third term results are } \\ \text { significantly different. There is a } \\ \text { significant increase. }\end{array}\right]$

## In Final Term;

- Average marks significantly increased in Social Studies,Coding,Club-I and Visual Arts. (p<0.05).
- Average marks significantly decreased in Drama and Club-II. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade IV Annapurna students in Final Term. Overall, there is an increasing trend in average marks obtained by students in Final Term. The average marks substantially increased in Social Studies and Visual Arts. However, the marks have declined in Club-II and English Reading Book.

## Grade IV - Himalchuli

The evaluation was based on 23 students. The table below provides Mean and Median marks obtained by Grade IV - Himalchuli students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term Score, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | Median II |  |  |
| Nepali | 81.5 | 83.3 | 77.6 | 78.6 | 0.30 | In Final term, $50 \%$ of grade IV Himalchuli students scored $>78.5$ in Nepali. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| English | 87.9 | 90.5 | 85.3 | 87.4 | 0.07 | In Final term, $50 \%$ of grade IV Himalchuli students scored $>87.35$ in English. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Mathematics | 84.0 | 86.0 | 81.3 | 84.7 | 0.12 | In Final term, 50\% of grade IV Himalchuli students scored $>84.69$ in Mathematics. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Science | 79.2 | 80.9 | 80.3 | 78.6 | 0.52 | In Final term, $50 \%$ of grade IV Himalchuli students scored $>78.58$ in Science. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Social Studies | 80.9 | 81.0 | 84.1 | 84.9 | 0.01 | In Final term, $50 \%$ of grade IV Himalchuli students scored $>84.941$ in Social Studies. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| HPE | 82.0 | 84.2 | 80.6 | 82.6 | 0.30 | In Final term, $50 \%$ of grade IV Himalchuli students scored $>82.5$ in HPE. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |

$\left.\begin{array}{|l|l|l|l|l|l|l|}\hline & & & & & & \\ \hline \text { Sanskrit } & & & & & & \begin{array}{l}\text { In Final term, 50\% of grade IV - } \\ \text { Himalchuli students scored }>75.1 \text { in } \\ \text { Sanskrit. Since p }<\alpha, \text { we fail to retain the } \\ \text { null hypothesis and conclude that final }\end{array} \\ \text { term and third term results are } \\ \text { significantly different. There is a } \\ \text { significant decrease. }\end{array}\right]$

| Visual Art | 69.7 | 69.8 | 81.6 | 82.9 | 0.00 | In Final term, $50 \%$ of grade IV Himalchuli students scored $>82.9$ in Visual Art. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Clunb II | 80.6 | 78.0 | 38.4 | 36.0 | 0.00 | In Final term, 50\% of grade IV Himalchuli students scored $>36$ in Club II. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Nepali Reading Book | 84.2 | 83.3 | 81.8 | 82.6 | 0.18 | In Final term, 50\% of grade IV Himalchuli students scored $>82.6$ in Nepali Reading Book. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| English <br> Reading Book | 89.6 | 94.8 | 78.2 | 81.7 | 0.00 | In Final term, $50 \%$ of grade IV Himalchuli students scored $>81.73$ in the English Reading Book. Since p $<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |

## In Final Term:

- Average marks significantly increased in Social Studies, Club-I and Visual Arts.. ( $\mathrm{p}<0.05$ ).
- Average marks significantly decreased in Sanskrit, Dance, Drama,Club-II and English Reading Book. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade IV Himalchuli students in Final Term. Overall, there is an increasing trend in average marks obtained by students in Final Term. The average marks substantially increased in Club-I and Visual Arts. However, the marks have declined in Drama.Club-II and English Reading Book.

## Grade V - Nuptse

The evaluation was based on 20 students. The table below provides Mean and Median marks obtained by grade V- Nuptse students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the third term score, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | Median II |  |  |
| Nepali | 74.0 | 75.1 | 79.7 | 79.4 | 0.00 | In Final term, $50 \%$ of grade V - Nuptse students scored $>79.4$ in Nepali. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| English | 84.9 | 87.7 | 81.3 | 83.9 | 0.00 | In Final term, $50 \%$ of grade $V-$ Nuptse students scored $>83.85$ in English. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Mathematics | 75.8 | 77.9 | 85.4 | 86.8 | 0.00 | In Final term, $50 \%$ of grade V - Nuptse students scored $>86.8$ in Mathematics. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Science | 74.7 | 77.8 | 76.1 | 76.7 | 0.41 | In Final term, $50 \%$ of grade V - Nuptse students scored $>76.7$ in Science. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Samajik | 81.1 | 80.1 | 87.6 | 86.2 | 0.00 | In Final term, $50 \%$ of grade $V$ - Nuptse students scored $>86.15$ in Samajik. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| HPE | 84.5 | 86.4 | 91.0 | 90.3 | 0.00 | In Final term, $50 \%$ of grade $V$ - Nuptse students scored $>90.3$ in HPE. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Nepal Bhasa | 78.7 | 78.9 | 80.3 | 79.1 | 0.45 | In Final term, $50 \%$ of grade $V-$ Nuptse students scored $>79.05$ in Nepal Bhasa. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |


| Sanskrit | 74.6 | 76.0 | 81.8 | 82.0 | 0.00 | In Final term, 50\% of grade V - Nuptse students scored $>82$ in Sanskrit. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coding | 68.7 | 61.4 | 71.3 | 68.7 | 0.13 | In Final term, $50 \%$ of grade V - Nuptse students scored $>68.65$ in Coding. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Performing club | 87.5 | 87.6 | 86.2 | 87.4 | 0.14 | In Final term, 50\% of grade V - Nuptse students scored $>87.4$ in the Performing club. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Sports Club | 86.3 | 86.0 | 82.9 | 82.0 | 0.02 | In Final term, 50\% of grade V - Nuptse students scored $>82$ in Sports Club. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Nepali Reading <br> Book | 70.9 | 71.2 | 77.1 | 77.1 | 0.01 | In Final term, 50\% of grade V - Nuptse students scored $>77.1$ in Nepali Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| English <br> Reading Book | 66.8 | 72.0 | 69.4 | 69.8 | 0.18 | In Final term, $50 \%$ of grade V - Nuptse students scored $>69.8$ in the English Reading Book. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |

## In Final Term:

- Average marks significantly increased in Samajik,Nepali, Mathematics ,Performing Club and Reading Book Nepali. ( $\mathrm{p}<0.05$ ).
- Average marks significantly decreased in English and Sports Club. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade V - Nuptse students in Final Term. From the graph, it is noticeable that the average marks have increased appreciably in Samajik,Mathematics and HPE. However, the marks have declined noticeably in English.

## Grade V - Yangra

The evaluation was based on 18 students. The table below provides Mean and Median marks obtained by grade V- Yangra students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the third term score, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | $\begin{array}{c\|} \hline \text { Median } \\ \text { II } \end{array}$ |  |  |
| Nepali | 70.3 | 73.0 | 78.2 | 79.8 | 0.00 | In Final term, $50 \%$ of grade V - Yangra students scored $>79.8$ in Nepali. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| English | 83.0 | 85.2 | 85.9 | 88.5 | 0.04 | In Final term, 50\% of grade V - Yangra students scored $>88.5$ in English. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Mathematics | 75.0 | 76.1 | 83.2 | 87.4 | 0.00 | In Final term, $50 \%$ of grade V - Yangra students scored $>87.4$ in Mathematics. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Science | 75.4 | 79.7 | 74.8 | 78.0 | 0.76 | In Final term, $50 \%$ of grade V - Yangra students scored $>77.95$ in Science. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Samajik | 73.9 | 81.5 | 81.5 | 84.7 | 0.00 | In Final term, $50 \%$ of grade V - Yangra students scored $>84.65$ in Samajik. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| HPE | 82.4 | 85.2 | 90.3 | 92.0 | 0.00 | In Final term, $50 \%$ of grade V - Yangra students scored $>91.95$ in HPE. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |


|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## In Final Term:

- Average marks significantly increased in English,Performing Club,Nepali,Mathematics,Samajik,HPE,Nepali Reading Book and Reading Book English. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score
Third term Final Term


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade V - Yangra students in Final Term. From the graph, it is noticeable that the average marks have increased appreciably in Nepali, Mathematics, Samajik, Performing Club and Reading Book English.

## Grade VI - Kabru

The evaluation was based on 22 students. The table below provides Mean and Median marks obtained by grade VI - Kabru students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the final term score, and inference and conclusion were provided.

| Subject | Term III |  | Median I | Term IV | Median <br> II | P-Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :--- |


| HPE | 68.5 | 70.8 | 77.3 | 81.5 | 0.00 | In Final term, 50\% of grade VI - Kabru students scored $>81.5$ in HPE. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nepal Bhasa | 70.1 | 71.4 | 66.7 | 62.7 | 0.09 | In Final term, 50\% of grade VI - Kabru students scored $>62.7$ in Nepal Bhasa. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Sanskrit | 67.2 | 63.7 | 78.6 | 80.0 | 0.00 | In Final term, 50\% of grade VI - Kabru students scored $>80$ in Sanskrit. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Coding | 68.6 | 66.5 | 65.7 | 63.5 | 0.17 | In Final term, $50 \%$ of grade VI - Kabru students scored $>63.5$ in Coding. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Performing club | 87.0 | 89.0 | 83.7 | 87.6 | 0.00 | In Final term, 50\% of grade VI - Kabru students scored $>87.6$ in the Performing club. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Sports Club | 79.0 | 80.0 | 78.7 | 78.9 | 0.88 | In Final term, $50 \%$ of grade VI - Kabru students scored >78.9 in Sports Club. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Nepali Reading <br> Book | 67.4 | 67.7 | 63.6 | 63.3 | 0.11 | In Final term, 50\% of grade VI - Kabru students scored $>63.3$ in Nepali Reading Book. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |


|  |  |  |  |  |  | In Final term, $50 \%$ of grade VI - Kabru <br> students scored $>55.9$ in the English <br> Reading Book. Since p<a, we fail to |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- |
| retain the null hypothesis and conclude |  |  |  |  |  |  |
| that final term and third term results are |  |  |  |  |  |  |
| significantly different. There is a |  |  |  |  |  |  |
| significant decrease. |  |  |  |  |  |  |

## In Final Term:

- Average marks significantly increased in Nepali,English,Mathematics ,Samajik and Sanskrit. (p<0.05).
- Average marks significantly decreased in English Reading Book and Sports Club. ( $\mathrm{p}<0.05$ ).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade VI - Kabru students in Final Term. From the graph, it is noticeable that the average marks have increased in

Mathematics,Samajik, HPE and Sanskrit as compared to Third Term Score. The average marks have dropped in subjects like English Reading Book.

## Grade VI - Chamlang

The evaluation was based on 23 students. The table below provides Mean and Median marks obtained by grade VI- Chamlang students in different subjects, including performing arts and reading book tests.
Furthermore, the marks obtained were compared with the third term, and inference and conclusion were drawn.

| Subject | Third Term |  | Final Term |  | Inference P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | Median II |  |  |
| Nepali | 67.3 | 63.9 | 72.9 | 72.3 | 0.00 | In Final term, 50\% of grade VI Chamlang students scored $>72.3$ in Nepali. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| English | 70.9 | 71.1 | 80.4 | 82.0 | 0.00 | In Final term, 50\% of grade VI Chamlang students scored $>82$ in English. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Mathematics | 75.3 | 73.2 | 79.5 | 78.2 | 0.03 | In Final term, 50\% of grade VI Chamlang students scored $>78.2$ in Mathematics. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Science | 78.6 | 81.1 | 82.2 | 85.3 | 0.04 | In Final term, $50 \%$ of grade VI Chamlang students scored $>85.3$ in Science. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |

$\left.\begin{array}{|l|l|l|l|l|l|l|}\hline & & & & & & \\ \hline \text { Samajik } & & & & & & \begin{array}{l}\text { In Final term, 50\% of grade VI - } \\ \text { Chamlang students scored }>70.5 \text { in } \\ \text { Samajik. Since p }<\alpha, \text { we fail to retain the } \\ \text { null hypothesis and conclude that final }\end{array} \\ \text { term and third term results are } \\ \text { significantly different. There is a } \\ \text { significant increase. }\end{array}\right]$

| Sports Club | 79.2 | 80.0 | 77.9 | 80.0 | 0.45 | In Final term, 50\% of grade VI Chamlang students scored $>80$ in Sports Club. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nepali Reading <br> Book | 70.1 | 71.0 | 72.0 | 68.8 | 0.54 | In Final term, 50\% of grade VI Chamlang students scored $>68.8$ in Nepali Reading Book. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| English <br> Reading Book | 65.6 | 63.0 | 54.3 | 53.0 | 0.00 | In Final term, 50\% of grade VI Chamlang students scored $>53$ in the English Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |

## In Final Term:

- Average marks significantly increased in Performing


## Club,Nepali,English,Mathematics,Science,Samajik and Reading Book English. ( $\mathrm{p}<0.05$ ).

- Average marks significantly decreased in English Reading Book and Coding. ( $\mathrm{p}<0.05$ ).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


The bar graph illustrates the average marks of different subjects obtained by Grade VI - Kabru students in Final Term. From the graph, it is noticeable that the average marks have increased in Nepali,English,Samajik,HPE and Sanskrit as compared to Third Term Score. However, the marks have dropped notably in English Reading Book and Coding.

## Grade VI - Taboche

The evaluation was based on 16 students. The table below provides Mean and Median marks obtained by grade VI- Taboche students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the third term, and inference and conclusion were drawn.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | Median II |  |  |
| Nepali | 63.7 | 64.2 | 69.8 | 72.3 | 0.00 | In Final term, 50\% of grade VI Taboche students scored $>72.3$ in Nepali. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| English | 76.2 | 75.2 | 76.3 | 74.2 | 0.87 | In Final term, 50\% of grade VI Taboche students scored $>74.15$ in English. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Mathematics | 72.4 | 76.3 | 79.1 | 81.3 | 0.00 | In Final term, $50 \%$ of grade VI Taboche students scored $>81.25$ in Mathematics. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Science | 75.9 | 75.7 | 72.9 | 73.7 | 0.19 | In Final term, 50\% of grade VI Taboche students scored $>73.7$ in Science. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Samajik | 61.3 | 64.4 | 77.0 | 80.2 | 0.00 | In Final term, $50 \%$ of grade VI Taboche students scored $>80.2$ in Samajik. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| HPE | 72.1 | 73.5 | 74.8 | 75.2 | 0.10 | In Final term, $50 \%$ of grade VI Taboche students scored $>75.15$ in HPE. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |


|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  |  |  |  |  |  | In Final term, $50 \%$ of grade VI - <br> Taboche students scored $>55$ in the <br> English Reading Book. Since p<a, we |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| fail to retain the null hypothesis and |  |  |  |  |  |  |
| conclude that final term and third term |  |  |  |  |  |  |
| results are significantly different. There |  |  |  |  |  |  |
| is a significant decrease. |  |  |  |  |  |  |

## In Final Term:

- Average marks significantly increased in Nepali,Mathematics,Samajik,Sanskrit and Sports Club.(p<0.05).
- Average marks significantly decreased in the Performing Club,Nepali Reading Book and English Reading Book. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade VII - Taboche students in Final Term. The graph shows that there is an upward trend in average marks obtained by students in Nepali,Mathematics,Samajik,Sanskrit and Sports Club as compared to Third

Term Score. However, the marks have declined distinctly in Performing Club and English Reading Book.

## Grade VII - Pumori

The evaluation was based on 26 students. The table below provides Mean and Median marks obtained by grade VII- Pumori students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term, and inference and conclusion were drawn.

| Subject | Term III |  | Median I | Term IV | Median <br> II | P-Value |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- |


|  |  |  |  |  |  | There is a significant increase. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HPE | 70.2 | 72.7 | 79.4 | 81.1 | 0.00 | In Final term, $50 \%$ of grade VII - Pumori students scored $>81.1$ in HPE. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Nepal Bhasa | 72.1 | 71.9 | 76.1 | 74.6 | 0.00 | In Final term, 50\% of grade VII - Pumori students scored $>74.6$ in Nepal Bhasa. <br> Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Sanskrit | 75.1 | 77.3 | 81.2 | 83.0 | 0.00 | In Final term, $50 \%$ of grade VII - Pumori students scored $>83$ in Sanskrit. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Coding | 52.3 | 47.7 | 71.5 | 75.1 | 0.00 | In Final term, 50\% of grade VII - Pumori students scored $>75.1$ in Coding. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Performing club | 91.4 | 92.0 | 90.0 | 91.0 | 0.00 | In Final term, 50\% of grade VII - Pumori students scored $>91$ in the Performing club. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Sports Club | 80.7 | 80.0 | 76.4 | 80.0 | 0.05 | In Final term, $50 \%$ of grade VII - Pumori students scored $>80$ in Sports Club. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Nepali Reading <br> Book | 66.5 | 65.0 | 90.0 | 91.0 | 0.00 | In Final term, 50\% of grade VII - Pumori students scored $>91$ in Nepali Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |


|  |  |  |  |  |  | In Final term, $50 \%$ of grade VII - Pumori <br> students scored $>80$ in the English <br> Reading Book. Since $\mathrm{p}<\alpha$, we fail to <br> retain the null hypothesis and conclude <br> that final term and third term results are <br> significantly different. There is a <br> significant increase. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| English <br> Reading Book | 67.0 | 66.2 | 75.8 | 80.0 | 0.00 |  |

## In Final Term:

- Average marks significantly increased in


## Samajik,Coding,Mathematics,Science,H.P.E,Nepal Bhasa,Sanskrit, Reading Book

English and Reading Book Nepali. ( $\mathrm{p}<0.05$ ).

- Average marks significantly decreased in Performing Club and Sports Club. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade VII - Pumori students in Final Term. The graph shows that there is an upward trend in average marks obtained
by students in Mathematics,HPE,Coding,English Reading Book and Reading Book Nepali as compared to Third Term Score. However, the marks have declined distinctly in Sports Club.

## Grade VII - Nemjung

The evaluation was based on 28 students. The table below provides Mean and Median marks obtained by grade VII - Nemjung students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the third term score, and inference and conclusion were drawn.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | $\begin{array}{\|c\|} \hline \text { Median } \\ \text { II } \end{array}$ |  |  |
| Nepali | 73.8 | 77.5 | 73.8 | 75.4 | 0.78 | In Final term, 50\% of grade VII - <br> Nemjung students scored $>75.37$ in <br> Nepali. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| English | 75.1 | 76.9 | 73.1 | 73.1 | 0.16 | In Final term, 50\% of grade VII Nemjung students scored $>73.1$ in English. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Mathematics | 60.3 | 60.2 | 66.9 | 67.4 | 0.00 | In Final term, $50 \%$ of grade VII Nemjung students scored $>67.4$ in Mathematics. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |


|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## In Final Term:

- Average marks significantly increased in

Science,Samajik,Sanskrit,Coding,HPE,Nepal Bhasa and Reading Book Nepali. ( $\mathrm{p}<0.05$ ).

- Average marks significantly decreased in the Performing Club. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade VII Nemjung students in Final Term. From the graph, it is noticeable that the average marks have increased appreciably in Science,Samajik, Nepal Bhasa and Nepali Reading Book as compared to Third Term Score. The average marks have depreciated more in the Performing Club.

## Grade VIII - Gaurishankar

The evaluation was based on 24 students. The table below provides Mean and Median marks obtained by grade VIII - Gaurishankar students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the Third Term Score, and inference and conclusion were drawn.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | Median II |  |  |
| Nepali | 68.8 | 73.2 | 61.7 | 67.5 | 0.19 | In Final term, 50\% of grade VIII Gaurishankar students scored $>67.5$ in Nepali. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| English | 68.5 | 69.9 | 61.8 | 66.5 | 0.03 | In Final term, 50\% of grade VIII Gaurishankar students scored $>66.5$ in English. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Mathematics | 64.6 | 64.6 | 55.9 | 58.9 | 0.00 | In Final term, 50\% of grade VIII Gaurishankar students scored $>58.85$ in Mathematics. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Science | 75.9 | 79.3 | 54.0 | 56.5 | 0.00 | In Final term, 50\% of grade VIII Gaurishankar students scored $>56.5$ in Science. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Samajik | 72.7 | 76.5 | 62.9 | 65.8 | 0.00 | In Final term, 50\% of grade VIII Gaurishankar students scored $>65.8$ in Samajik. Since p< $<$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| HPE | 76.8 | 81.9 | 69.0 | 76.8 | 0.03 | In Final term, 50\% of grade VIII Gaurishankar students scored $>76.8$ in HPE. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a |


|  |  |  |  |  |  | significant decrease. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Nepal Bhasa |  |  |  |  |  | In Final term, $50 \%$ of grade VIII - <br> Gaurishankar students scored $>72$ in <br> Nepal Bhasa. Since $\mathrm{p}>\alpha$, we retain null <br> hypothesis and conclude that final term |
| and third term results are not |  |  |  |  |  |  |
| significantly different. |  |  |  |  |  |  |$|$

## In Final Term:

- Average marks significantly decreased in Mathematics,Science,English,Samajik and HPE. ( $\mathrm{p}<0.05$ ).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score
Third term
Final Term


The bar graph illustrates the average marks of different subjects obtained by Grade VIII Gaurishankar students in Final Term. From the graph, it is noticeable that the average marks have increased considerably in Coding as compared to Third Term Score. However, there is a downward trend in average marks in Mathematics, HPE,English,Science and Samajik.

## Grade IX - Saipal

The evaluation was based on 25 students. The table below provides Mean and Median marks obtained by Grade IX - Saipal students in different subjects, including performing arts and reading book tests. Furthermore, the marks obtained were compared with the third term score, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | Median <br> II |  |  |
| Nepali | 48.3 | 45.0 | 51.6 | 49.6 | 0.00 | In Final term, $50 \%$ of grade IX - Saipal students scored $>49.55$ in Nepali. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| English | 69.7 | 70.2 | 80.8 | 82.0 | 0.00 | In Final term, 50\% of grade IX - Saipal students scored $>82$ in English. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Mathematics | 41.5 | 39.2 | 61.4 | 59.7 | 0.00 | In Final term, $50 \%$ of grade IX - Saipal students scored >59.7 in Mathematics. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Science | 59.2 | 61.6 | 67.4 | 66.0 | 0.00 | In Final term, 50\% of grade IX - Saipal students scored $>66$ in Science. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |


| Social Studies | 56.3 | 54.8 | 64.1 | 63.4 | 0.00 | In Final term, 50\% of grade IX - Saipal students scored $>63.4$ in Social Studies. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Additional <br> Math | 54.4 | 49.5 | 62.5 | 60.4 | 0.00 | In Final term, 50\% of grade IX - Saipal students scored $>60.4$ in Additional Math. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Computer | 67.6 | 67.3 | 52.5 | 49.6 | 0.00 | In Final term, $50 \%$ of grade IX - Saipal students scored $>49.6$ in Computer. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant decrease. |
| Coding | 70.7 | 65.8 | 71.5 | 77.3 | 0.68 | In Final term, $50 \%$ of grade IX - Saipal students scored $>77.3$ in Coding. Since $\mathrm{p}>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Club | 83.5 | 90.0 | 83.4 | 86.0 | 0.98 | In Final term, $50 \%$ of grade IX - Saipal students scored $>86$ in Club. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Nepali Reading <br> Book | 62.3 | 59.7 | 68.5 | 68.2 | 0.00 | In Final term, $50 \%$ of grade IX - Saipal students scored $>68.2$ in Nepali Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| English <br> Reading Book | 54.5 | 54.4 | 59.3 | 56.2 | 0.02 | In Final term, $50 \%$ of grade IX - Saipal students scored $>56.2$ in English Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |

## In Final Term:

- Average marks significantly increased in Nepali,English,Mathematics,Science,Social Studies,Nepali Reading Book and English Reading Book. (p<0.05).
- Average marks significantly decreased in Computer. ( $\mathrm{p}<0.05$ ).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score

- Third term Final Term


Subject

The bar graph illustrates the average marks of different subjects obtained by Grade IX - Saipal students in Final Term. The graph shows that there is an upward trend in average marks obtained by students in English,Mathematics,Science,Social Studies, Nepal Reading Book and English Reading Book. However, the marks have declined noticeably in Computer.

## Grade X - Machhapuchhre

The evaluation was based on 12 students. The table below provides Mean and Median marks obtained by Grade X - Machhapuchhre students in different subjects, including performing arts
and reading book tests. Furthermore, the marks obtained were compared with the third term score, and inference and conclusion were provided.

| Subject | Third Term |  | Final Term |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term III | Median I | Term IV | $\begin{array}{\|c\|} \hline \text { Median } \\ \text { II } \end{array}$ |  |  |
| Nepali | 52.3 | 53.0 | 60.0 | 59.0 | 0.00 | In Final term, $50 \%$ of grade X Machhapuchhre students scored $>59$ in Nepali. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| English | 74.1 | 75.9 | 83.6 | 85.0 | 0.00 | In Final term, $50 \%$ of grade X Machhapuchhre students scored $>85$ in English. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Mathematics | 47.2 | 49.5 | 60.3 | 64.1 | 0.01 | In Final term, $50 \%$ of grade X Machhapuchhre students scored $>64.05$ in Mathematics. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |
| Science | 64.4 | 61.2 | 63.4 | 64.8 | 0.65 | In Final term, $50 \%$ of grade X Machhapuchhre students scored $>64.75$ in Science. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Social Studies | 49.4 | 44.9 | 50.2 | 46.8 | 0.86 | In Final term, $50 \%$ of grade X Machhapuchhre students scored $>46.75$ in Social Studies. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |


| Additional <br> Math | 54.0 | 50.4 | 53.8 | 52.3 | 0.90 | In Final term, 50\% of grade X Machhapuchhre students scored $>52.3$ in Additional Math. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Computer | 66.7 | 67.8 | 63.6 | 62.3 | 0.39 | In Final term, $50 \%$ of grade X Machhapuchhre students scored $>62.25$ in Computer. Since $p>\alpha$, we retain null hypothesis and conclude that final term and third term results are not significantly different. |
| Coding | 76.5 | 76.5 | 85.6 | 91.2 | 0.01 | In Final term, $50 \%$ of grade X Machhapuchhre students scored $>91.15$ in Coding. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that final term and third term results are significantly different. There is a significant increase. |

## In Final Term:

- Average marks significantly increased in Nepali,English,Mathematics and Coding . ( $\mathrm{p}<0.05$ ).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Final Term Score Vs Third Term Score


The bar graph illustrates the average marks of different subjects obtained by Grade X Machhapuchhre students in Final Term. From the graph, it is noticeable that the average marks have increased in Nepali,English,Mathematics and Coding as compared to Third Term Score. However, the marks have declined significantly in Computer.

## Grade XI - Changla

The evaluation was based on 25 students. The table below provides Mean and Median marks obtained by Grade XI - Changla students in different subjects. Furthermore, the marks obtained were compared with the Second term examination, and inference and conclusion were provided.

| Subject | Second Term |  | Pre - Test |  | Inference <br> P-Value | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term II | Median I | Pre - Test | $\begin{array}{\|c\|} \hline \text { Median } \\ \text { II } \end{array}$ |  |  |
| Nepali | 64.6 | 68.5 | 64.5 | 65.5 | 0.19 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>65.5$ in Nepali. Since $\mathrm{p}>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| English | 65.8 | 65.5 | 57.9 | 67.4 | 0.08 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>67.4$ in English. Since $\mathrm{p}>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Physics | 48.4 | 50.0 | 43.9 | 48.0 | 0.03 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>48$ in Physics. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant decrease. |
| Chemistry | 53.8 | 53.7 | 53.8 | 54.2 | 1.00 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>54.2$ in Chemistry. <br> Since $\mathrm{p}>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Mathematics | 55.3 | 58.2 | 56.5 | 54.6 | 0.51 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>54.6$ in Mathematics. Since $\mathrm{p}>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Computer <br> Science | 78.0 | 79.1 | 76.1 | 77.6 | 0.10 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>77.6$ in Computer Science. Since $\mathrm{p}>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |


| Basic <br> Programming | 75.4 | 75.5 | 75.8 | 76.0 | 0.72 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>76$ in Basic Programming. Since $\mathrm{p}>\alpha$, we retain the null hypothesis and conclude that pre test and second term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Advance <br> Programming | 48.0 | 51.0 | 54.5 | 59.0 | 0.08 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>59$ in Advance Programming. Since $p>\alpha$, we retain the null hypothesis and conclude that pre test and second term results are not significantly different. |
| Club | 53.7 | 66.4 | 39.4 | 0.0 | 0.06 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>0$ in Club. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Nepali Reading <br> Book | 75.4 | 76.0 | 75.6 | 81.2 | 0.95 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>81.2$ in Nepali Reading Book. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| English <br> Reading Book | 74.1 | 79.6 | 73.5 | 71.8 | 0.81 | In Pre - Test, $50 \%$ of grade XI - Changla students scored $>71.8$ in English Reading Book. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |

## In Pre-Test:

- Average marks significantly decreased in Physics Only. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Pre - Test Score Vs Second Term Score


The bar graph illustrates the average marks of different subjects obtained by Grade XI - Changla students in Pre-Test Examination. From the graph, it is noticeable that the average marks have increased appreciably in English,Physics and Club as compared to second term.

## Grade XI - Khumbutse

The evaluation was based on 26 students. The table below provides Mean and Median marks obtained by Grade XI - Khumbutse students in different subjects. Furthermore, the marks obtained were compared with the second term examination, and inference and conclusion were provided.

| Subject | Second Term |  | Pre - Test |  | Inference | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term II | Median I | $\begin{aligned} & \hline \text { Pre - } \\ & \text { Test } \end{aligned}$ | $\begin{gathered} \hline \text { Median } \\ \text { II } \end{gathered}$ | P-Value |  |


| Nepali | 62.5 | 67.2 | 64.7 | 68.0 | 0.14 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>68$ in Nepali. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| English | 65.6 | 66.1 | 68.3 | 70.8 | 0.03 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>70.75$ in English. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre test and second term results are significantly different. There is a significant increase. |
| Physics | 46.4 | 49.7 | 43.3 | 43.9 | 0.24 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>43.85$ in Physics. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Chemistry | 52.9 | 53.6 | 47.7 | 49.9 | 0.00 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>49.85$ in Chemistry. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant decrease. |
| Mathematics | 56.4 | 58.2 | 58.4 | 60.8 | 0.37 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>60.75$ in Mathematics. Since $p>\alpha$, we retain the null hypothesis and conclude that pre test and second term results are not significantly different. |
| Computer <br> Science | 78.0 | 77.4 | 73.3 | 74.6 | 0.01 | In Pre - Test , 50\% of grade XI Khumbutse students scored $>74.6$ in Computer Science. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant decrease. |


| Basic <br> Programming | 70.7 | 69.3 | 72.8 | 74.3 | 0.30 | In Pre - Test, 50\% of grade XI Khumbutse students scored $>74.25$ in Basic Programming. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Advance Programming | 39.4 | 42.5 | 44.3 | 44.5 | 0.36 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>44.5$ in Advance Programming. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Club | 59.4 | 63.7 | 81.5 | 77.0 | 0.01 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>77$ in Club. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant increase. |
| Nepali Reading <br> Book | 69.6 | 67.7 | 71.7 | 69.0 | 0.57 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>69$ in Nepali Reading Book. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| English <br> Reading Book | 71.2 | 70.7 | 72.1 | 69.2 | 0.70 | In Pre - Test, $50 \%$ of grade XI Khumbutse students scored $>69.2$ in English Reading Book. Since p>a, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |

## In Pre-Test:

- Average marks significantly increased in English and Club. (p<0.05)
- Average marks significantly decreased in Chemistry and Computer Science. ( $\mathrm{p}<0.05$ ).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Pre - Test Score Vs Second Term Score


The bar graph illustrates the average marks of different subjects obtained by Grade XI Khumbutse students in Pre-Test Examination.The graph shows that there is an upward trend in average marks in Club and Advanced Programming. However, the average marks in Physics, Chemistry and Computer Science have declined sharply.

## Grade XI - Pangboche

The evaluation was based on 28 students. The table below provides Mean and Median marks obtained by Grade XI - Pangboche students in different subjects. Furthermore, the marks obtained were compared with the second term examination, and inference and conclusion were provided.

| Subject | Second Term |  | Pre - Test |  | Inference | Conclusion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term II | Median I | $\begin{gathered} \hline \text { Pre - } \\ \text { Test } \\ \hline \end{gathered}$ | Median II | P-Value |  |
| Nepali | 58.0 | 56.6 | 60.4 | 61.0 | 0.02 | In Pre - Test, $50 \%$ of grade XI Pangboche students scored $>61$ in Nepali. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant increase. |
| English | 61.1 | 63.0 | 68.9 | 69.6 | 0.00 | In Pre - Test, $50 \%$ of grade XI Pangboche students scored $>69.55$ in English. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre test and second term results are significantly different. There is a significant increase. |
| Physics | 45.6 | 45.5 | 45.8 | 46.8 | 0.87 | In Pre - Test $50 \%$ of grade XI Pangboche students scored $>46.775$ in Physics. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Chemistry | 50.0 | 49.1 | 46.9 | 44.1 | 0.16 | In Pre - Test, $50 \%$ of grade XI Pangboche students scored $>44.125$ in Chemistry. Since $\mathrm{p}>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Mathematics | 53.2 | 51.2 | 54.8 | 55.1 | 0.51 | In Pre - Test , 50\% of grade XI Pangboche students scored $>55.05$ in Mathematics. Since $p>\alpha$, we retain the null hypothesis and conclude that pre test and second term results are not significantly different. |
| Computer <br> Science | 60.1 | 63.6 | 65.5 | 64.9 | 0.00 | In Pre - Test, $50 \%$ of grade XI Pangboche students scored $>64.9$ in Computer Science. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant increase. |


| Basic <br> Programming | 67.2 | 67.0 | 62.9 | 64.0 | 0.09 | In Pre - Test, 50\% of grade XI Pangboche students scored $>64$ in Basic Programming. Since $p>\alpha$, we retain the null hypothesis and conclude that pre test and second term results are not significantly different. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Advance Programming | 41.0 | 44.0 | 39.9 | 46.5 | 0.82 | In Pre - Test, 50\% of grade XI Pangboche students scored $>46.5$ in Advance Programming. Since $p>\alpha$, we retain the null hypothesis and conclude that pre - test and second term results are not significantly different. |
| Club | 38.0 | 44.0 | 44.1 | 45.0 | 0.00 | In Pre - Test, 50\% of grade XI Pangboche students scored $>45$ in Club. Since $\mathrm{p}<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant increase. |
| Nepali Reading Book | 32.6 | 32.9 | 26.8 | 30.0 | 0.00 | In Pre - Test, $50 \%$ of grade XI Pangboche students scored $>30$ in Nepali Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant decrease. |
| English <br> Reading Book | 28.1 | 29.4 | 33.4 | 33.5 | 0.00 | In Pre - Test, $50 \%$ of grade XI Pangboche students scored $>33.507$ in English Reading Book. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre - test and second term results are significantly different. There is a significant increase. |
| Biology | 34.7 | 35.8 | 48.3 | 49.0 | 0.00 | In Pre - Test, $50 \%$ of grade XI Pangboche students scored $>49$ in Biology. Since $p<\alpha$, we fail to retain the null hypothesis and conclude that pre test and second term results are significantly different. There is a significant increase. |

## In Pre-Test:

- Average marks significantly increased in Nepali,English,Computer Science, Club,Biology and English Reading Book. ( $\mathrm{p}<0.05$ ).
- Average marks significantly decreased in Nepali Reading Book. (p<0.05).
- Increase or decrease in average marks obtained in the rest of the subjects were not statistically significant. ( $\mathrm{p}>0.05$ ).

Pre - Test Score Vs Second Term Score


The bar graph illustrates the average marks of different subjects obtained by Grade XI Pangboche students in Pre-Test Examination. The average marks substantially increased in English,Club and English Reading Book. However, a downward trend is observed in Nepali Reading Book.

## Overall Result

In overall analysis, mean and median were calculated based on the marks obtained (all subjects combined including performing arts and reading book tests) in a grade by 'all' students. Furthermore, the marks obtained in the Final Term evaluations are compared with the third term examination, and inference and conclusion are provided. The data provides the overall impression of results in each grade.

| Grade | TERM IV- Central Values |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Merm III |  |  |  |  |
|  | Mean | Median | Maximum | Minimum |  |
| Grade I-Kanchenjunga | 81.80 | 83.00 | 85.40 | 100.00 | 38.70 |
| Grade I-Lhotse | 78.61 | 83.80 | 85.00 | 100.00 | 40.00 |
| Grade II - Makalu | 82.46 | 83.70 | 84.50 | 100.00 | 48.30 |
| Grade II-Cho-oyu | 80.81 | 85.10 | 86.70 | 100.00 | 46.80 |
| Grade III - Dhaulagiri | 82.10 | 81.70 | 82.40 | 99.80 | 40.00 |
| Grade III- Manaslu | 79.40 | 81.19 | 82.80 | 100.00 | 34.00 |
| Grade III- Nilgiri | 81.70 | 82.10 | 85.10 | 100.00 | 38.80 |
| Grade IV - Annapurna | 78.10 | 78.80 | 81.70 | 100.00 | 20.00 |
| Grade IV - Himalchuli | 81.00 | 79.30 | 81.70 | 100.00 | 33.80 |
| Grade V - Nuptse | 77.76 | 79.18 | 78.95 | 100.00 | 39.60 |
| Grade V - Yangra | 76.75 | 77.99 | 81.20 | 100.00 | 19.60 |
| Grade VI - Kabru | 72.45 | 72.62 | 76.00 | 100.00 | 17.30 |
| Grade VI - Taboche | 69.73 | 71.29 | 73.80 | 99.80 | 19.00 |
| Grade VI - Chamlang | 71.27 | 71.98 | 73.15 | 100.00 | 17.40 |
| Grade VII - Pumori | 71.14 | 74.51 | 77.50 | 100.00 | 9.30 |
| Grade VII - Nemjung | 71.67 | 74.71 | 78.55 | 100.00 | 10.40 |
| Grade VIII - Gaurishankar | 72.72 | 68.19 | 74.05 | 100.00 | 7.00 |
| Grade IX- Saipal | 60.10 | 63.20 | 63.80 | 100.00 | 4.00 |
| Grade X- Machhapuchhre | 65.10 | 64.00 | 65.20 | 97.90 | 10.20 |
| Grade XI - Changla | 66.70 | 62.00 | 66.70 | 99.00 | 11.00 |


| Grade XI - Khumbutse | 64.90 | 61.90 | 65.00 | 96.60 | 9.00 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Grade XI - Pangboche | 56.10 | 49.30 | 47.10 | 92.90 | 11.00 |

Trend of Average Marks of All Students in a Grade / Section


The line graph depicts the trend of average marks of different grades obtained by all students in Third Term and Final Term . The average marks have substantially increased for Grade-I Lhotse, Grade-I Kanchenjunga, Grade-II Cho-Oyu, and Grade-III Dhaulagiri. There is a gradual rise in average marks obtained by Grade-II Makalu, Grade III- Manaslu and Grade III-Nilgiri. The overall performance of elementary school is praiseworthy as compared to Third Term .

Though the average marks have slightly increased in Grade-VII Pumori and Grade VII-Nemjung, the average marks in Grade VIII-Gaurishankar ,Grade XI-Pangboche ,Grade XI-Khumbutse and Grade-XI-Changla declined sharply .

In the rest of the classes such as Grade V-Nuptse,Grade V-Yangra,Grade VI-kabru,Grade VI-Taboche and Grade X-Machhapuchhre ,there is no remarkable change in the average marks obtained in the final term compared to the third term.

## Appendix

## Examination Team

| Tasks | Name |
| :--- | :--- |
| Question Preparation/Examination/Answer <br> Sheet Evaluation/Marks Entry | Subject / Class Teachers |
| Online Handbook | Santosh Shah |
| Marksheet Ledger | Sabina Maharjan, Manisha Adhikari, Yukta <br> Burma, Sapana Lama, Dhanshwor Yonghang, <br> Aakash Chandra Giri |
| Marksheet Preparation/Distribution | Class Teachers / HOS / Principal |
| Data Entry \& Language | Sabina Maharjan, Manisha Adhikari, Yukta <br> Burma, Sapana Lama, Dhanshwor Yonghang, <br> Aakash Chandra Giri |
| Analysis Report by: | Aakash Chandra Giri <br> Dhanswor Yonghang |

