

# LSPU - San Pablo City Campus

College of Engineering

## Board Exam Passing Rate Predictions

Prediction Year: 2025

Generated: December 04, 2025

### Executive Summary

Total Board Exams Analyzed: 4

Average Predicted Change: -6.21 percentage points

Exams with Improving Trends: 1

Exams with Declining Trends: 2

Exams with Stable Performance: 1

Prediction Model: Linear Regression

Model Accuracy: 100.00%

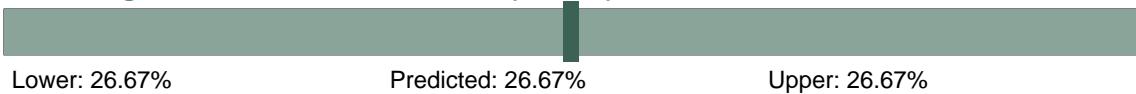
### Detailed Predictions

Exam Type	Current	Predicted	Change
Electronics Engineer Licensure Examination (ECELE)	46.13%	26.67%	-19.46%
Electronics Technician Licensure Examination (ECTLE)	72.72%	53.85%	-18.87%
Registered Electrical Engineer Licensure Exam (RECLE)	35.69%	49.18%	+13.49%
Registered Master Electrician Licensure Exam (RMCELE)	33.33%	33.33%	+0.00%

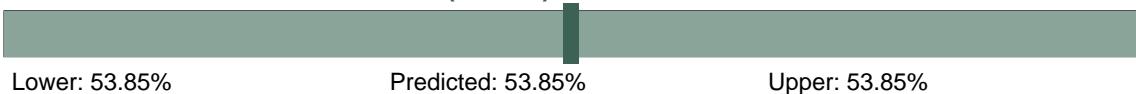
### Confidence Intervals (95%)

The following intervals show the range where the actual passing rate is 95% likely to fall:

#### Electronics Engineer Licensure Examination (ECELE)



#### Electronics Technician Licensure Exam (ECTLE)



#### Registered Electrical Engineer Licensure Exam (RECLE)



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Lower: 49.18%

Predicted: 49.18%

Upper: 49.18%

## Registered Master Electrician Licensure Exam (R...

Lower: 33.33%

Predicted: 33.33%

Upper: 33.33%

## Model Information

<b>Algorithm Used:</b>	Linear Regression
<b>Training Date:</b>	December 04, 2025 at 07:26 PM
<b>Model Accuracy (R<sup>2</sup> Score):</b>	1.0000
<b>Mean Absolute Error:</b>	0.00%
<b>Cross-Validation Score:</b>	1.0000 ( $\pm 0.0000$ )

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## Understanding the Predictions

### What is a Confidence Interval?

A 95% confidence interval means we are 95% confident that the actual passing rate will fall within the given range. The narrower the interval, the more precise our prediction.

### R<sup>2</sup> Score (Coefficient of Determination)

Measures how well the model fits the data. Values closer to 1.0 indicate better predictions. A score of 0.8 means the model explains 80% of the variation in passing rates.

### Mean Absolute Error (MAE)

The average difference between predicted and actual values. Lower is better. An MAE of 5% means predictions are typically within 5 percentage points of actual results.

### How to Use These Predictions

These predictions help in planning and resource allocation. If a particular exam shows a declining trend, additional support and preparation programs may be needed.