LEADING EDGE LEARNING | PEREGRINE GLOBAL SERVICES



Applied Research and Statistics

Applied research projects in industry and in higher education are typically structured around a research approach that includes a topic, problem statement, research questions, hypotheses, statistical testing, and analysis of the results. Quantitative, case study, and mixed methods research approaches typically follow this scientific method for research.

The purpose of this module is to teach the scientific methodology for applied research and the use of statistics for hypothesis testing.

This module is designed for anyone involved in applied research, including thesis students, doctoral students, and applied researchers.

Learning Outcomes

1.	Describe the types of applied research and the use of statistics in applied research.	7.	Apply the meaning of significance in a statistical result.
2.	Use a data analysis tool pack and add-ons in Excel.	8.	Create a problem statement based on a
3.	Apply basic functions in Excel.		research topic.
4.	Know the basic statistical terminology.	9.	Create a hypothesis pair based on the problem statement.
5.	Calculate and report descriptive statistics for a data set.	10.	Perform the following statistical tests: Chi-square, Spearman's Rank
6.	Select the right inferential statistical test.		Correlation, t-Test, ANOVA, MANOVA,

Recommended Learners

- Thesis Students
- Dissertation Students

Faculty and learners who must evaluate research from a statistical perspective.

and Regression.



An example of a learning event in our Leading Edge Learning modules. The types of instructional content within the modules include: readings, videos, transcripts, audios, interactive questions, offline application exercises, flash cards, narrated presentations, matching exercises, relevant articles, downloads, a final exam, and other activities designed to engage learners based on recognized science of learning educational concepts.

Applications and Best Practices

- Integrate into a research methodology and statistics course.
- Develop skill sets of working professionals.
- Academic leveling for learners who may not have adequate preparation for advanced studies in statistics or analytics.
- Professional development for continuing education or refresher of skills.

Pricing Module is Approximately 22-25 Learner Hours						
1-100 Learners per Year	101-500 Learners per Year	500+ Learners per Year				
\$285 per Learner	\$270 per Learner	\$255 per Learner				