Subject Description Form

Subject Code	APSS 489				
Subject Title	Research Methods in Applied Psychology: Let the Data Speak				
Credit Value	3				
Level	4				
Pre-requisite / Co-requisite/ Exclusion	APSS222 Introduction to Psychology & APSS339 Statistics for Human Service Professionals				
Assessment Methods	100% Continuous Assessment	Individual Assessment	Group Assessment		
	1. Individual written assignments	55%	%		
	2. Seminar Presentation/ Participation	15%	%		
	3. Quiz	30%	%		
Objectives	This subject covers essential research enable students to organize, interpret from psychological studies. It is curiosity about how to deal with find sciences. The students are provided engage in learning activities that allow of psychological investigations on a cresearch projects in the Department. The application of acquired research complex difficulties and intervention sciences and social programs in health	t, and utilize reaimed at stim lings derived in lings derived in lings derived in lings derived in with opportunity windependent chosen topic of The ultimate of the knowledge is in multi-disc	esearch findings arising nulating students with a psychology and social nity and supervision to planning and execution interest from a pool of objective is to focus on and skills to examine iplinary fields of social		
Intended Learning Outcomes (Note 1)	a. Acquire essential research psychology; b. Assess and evaluate empirical quantitative, qualitative, or mustice of the subject of the base of the bas	knowledge and evidence critical method and make and make and their action of their actions are to their actions are research skoorts independents	and skills in applied tically in the format of nalyses; attempts to carry out ademic interests and/or kills and tools acquired ently, or at least with		

Subject Synopsis/ Indicative Syllabus

(*Note 2*)

- 1. Behavioral Research, Scientific Inquiry and Ethical Considerations
- 2. Types of Research Methods and Experimental Designs
- 3. Systematic Review of Literature for Evidence
- 4. Observations and Measurement of Psychological Phenomena
- 5. Descriptive Statistics and Graphical Presentation: Describing Samples and Populations
 - Summarizing Scores Using Frequency, Distributions and Percentiles:
 - Summarizing Scores Using Measures of Central Tendency –The Mean, Median and Mode;
 - Summarizing Scores Using Variability –Range, Variance and Standard Deviation;
 - Describing Data with z-Scores and the Normal Curve Model
 /Normal Distribution
- 6. Hypothesis Testing and Estimation: Utility and Limitation of Statistics
 - Overview of Statistical Hypothesis Testing- The z-Test
 - Binomial Tests and Revisiting Probability Making Decisions about Chance Events
 - Effect Size and Power Analysis
- 7. The Mean-based Family of Tests
 - Examining Differences Between Means:
- Testing a Single Mean or a Correlation Coefficient The t-Test (for repeated

Testing Two Sample Means – The t-Test (for two independent groups);

- Comparing Two or More Means by Analysis of Variances (ANOVAs):

Testing Two or More Means by One-Way classification of ANOVA;

Testing Means from Two Independent Variables by Two-Way classification of ANOVA;

- Examining Relationships Between Variables:
 Describing / Measuring Relationships Using Correlation;
 Using Linear Regression to Predict Scores
- Analyzing Other Forms of Data: Contingency Tables, Chi-square (χ^2) Tests for Frequencies, Odds Ratio, and 2X2 test
- The Non-Parametric Tests: Mann-Whitney U Test, Spearman Coefficient

8. An Overview of Advanced Techniques in Applied Research - Principal Component Analysis (PCA), Exploratory Factor Analysis (EFA), Logistic Regression; - An introduction to Qualitative Methods and Analysis, and Mixed Methods Formulating an Attainable Research Question, Choosing an Appropriate Design(s) and Statistical Test(s), and Mode of Presentation 10. Communicating Research Findings: Structure and Components of a Quantitative Research Paper Title, Abstract, Introduction, Method, Results, Discussion, Conclusion, Reference and Formatting Web-assisted with Instructor Facilitation Teaching/Learning Lectures / Seminars Methodology Research Project preparation (*Note 3*) Face-to-face / On-line Learning Activities in Class Tutorial and On-line Tutorial

Assessment
Methods in
Alignment with
Intended Learning
Outcomes

(*Note 4*)

Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)					
		a	b	c	d	e	
1. Participation: Class & LMS (Blackboard)	5%	٧					
2. Test: Multiple-Choice Questions	30%	٧					
3. Research Proposal Progress submissions	15%	٧	٧				
4. Research Proposal: Oral presentation & Written Report	50%	٧	٧				
Total	100 %						

Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

Students are expected to demonstrate their ability to write a research proposal. The assessments examine their abilities to formulate a research

	question, conduct a literature review, propose a rese methods sections, and assemble these components a information into a formal research proposal and pres addition, students are being assessed on their knowled related to research methods with the test.	nd other relevant sent it to the class. In		
Student Study	Class contact:	Hours		
Effort Expected	■ Lecture	21		
	■ Tutorial	18		
	Other student study effort:			
	 Proposal Preparation 	30-60		
	Total student study effort	69-99		
Medium of Instruction	English			
Medium of Assessment	English			
Reading List and References				
	References			
	Agresti, A. (2002). Categorical data analysis (2nd e Wiley.	ed.). New York:		
	Cohen, J. (1988). Statistical power analysis for the le (2nd ed.). Hillsdale, N.J.: L. Erlbaum Associ			
	Cohen, J., Cohen, P., West, S. G., & Aiken, L. S. (20 Multiple Regression/Correlation Analysis for Sciences (3rd ed.). New York: Routledge Ac	r the Behavioral		
	Goldstein, H. (2003). Multilevel statistical models (3 Arnold.	3rd ed.). London:		
	Martin, D. W. (2008). <i>Doing psychology experiment</i> CA: Wadsworth.	ts (7th ed.). Belmont,		
	Rosnow, R. L., & Rosenthal, R. (2005). <i>Beginning & A conceptual primer</i> (5th ed.). Upper Saddle Pearson/Prentice Hall.			
	Silvia, P. J. (2007). How to Write a Lot: A Practical Academic Writing. Washington D.C.: Ameri Association.			

A G You of H	rnberg, R. J., & Sternberg, K. (2010). <i>The Psychologist's Companion: Guide to Writing Scientific Papers for Students and Researchers</i> . New rk: Cambridge University Press.Weiner, I. B. (Ed.). (2003). <i>Handbook Psychology</i> . New York: Wiley. Available at p://onlinelibrary.wiley.com/book/10.1002/0471264385
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