

OLFU VISION

A premier inclusive university of choice aspiring to improve mam as man by developing individuals through a legacy of excellent education and compassionate value formation.

OLFU MISSION	OLFU CORE VALUES
The Our Lady of Fatima University together with Fatima Medical Science Foundation, Inc. is dedicated to the improvement of man as man through the holistic formation of individuals imbued with knowledge, skills, and virtues. This is Our Lady of Fatima University Intellectual Property	 A - Aspires to Do His Best C - Credible and Compassionate H - Hardworking and Honorable I - Inspiration to Others E - Efficient, Effective and Ethical V - Visionary E - Entrepreneurial, Employable and Excellent Work Habits R - Responsible

COLLEGE MISSION	COLLEGE VISION
	We are committed to provide accessible, responsive, and quality Information Technology Education (ITE) programs and to become the Institution of choice in producing competent and responsible IT professionals who are sensitive to the needs and demands of the industry.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)	PROGRAM OUTCOMES (PO)
A graduate of BS Information Technology is expected to: Participates in various Information Technology organizations	Engages professional organizational activities and be involved in the learning process towards the development of individual skills in the field of Information Technology.
and serve as a contributor to the individual's development. Exercises personal, interpersonal, and technical competence in the IT profession.	Establishes a professional career comparable to well-known IT professionals through self-determination, focus and perseverance.
Undertakes continuing studies and/or take and pass certification exams applicable to the field of specialization.	Engages in lifelong Information Technology education through active and empowered learning
Adheres to the ethical and moral standards of ACM and IEEE professional code of conduct.	Fulfills the IT professional roles with a deep sense of moral and social responsibility.
Uses information communication technology that serves as a tool to develop innovative business solutions.	 Possesses leadership in the business community in pursuing Information Technology advancement.

COURSE SYLLABUS							
COLLEGE	COMPUTER STUDIES	COURSE DESCRIPTION					
DEPARTMENT	ccs	This course provides students with the statistical tools and approaches to undertake computing research and capture the behavior of observed phenomena or variables using statistical modeling techniques. To introduce					
COURSE CODE	SFCR 111	students to quantitative and qualitative methods for conducting meaningful inquiry and research. They will gain an overview of research intent and design, methodology and technique, format and presentation, and data management					
DESCRIPTIVE TITLE	STATISTICS for COMPUTING RESEARCH	and analysis informed by commonly used statistical methods. COURSE EXPECTED OUTCOMES (CO)					
PREREQUISITE (S)	QMET 211	After successful completion of this course, students are expected to achieve the following course outcomes:					
CREDIT UNIT (S)	3 units	 Relate the University Vision Mission and College Program Educational Objective with the Course Outcome, 					
CONTACT HOURS PER SESSION:	Lecture: 3 hrs.	 Developing a hypothesis, a research problem and related questions in framing the problem with the correct research methodology. Collecting, measuring data that accurately addresses the research problem in making decisions. Providing technical guidance to contractors for inclusion in contract documents related to research projects Evaluating the feasibility of research proposals to support programs 					
CONTACT HOURS		 Educational Objective with the Course Outcome, Developing a hypothesis, a research problem a in framing the problem with the correct research Collecting, measuring data that accurately adoproblem in making decisions. Providing technical guidance to contractors for documents related to research projects 					

	COURSE COVERAGE – PRELIMS				
WEEK	UNIT EXPECTED OUTCOMES (UEO)	COURSE CONTENT			
	O COURSE ORIENTATION:	COURSE ORIENTATION			
1	 Explain the mission and vision of OLFU Relate how the study of Information Technology shares achieving the vision and mission of the university Outline the content of the course syllabus and requirements. 	1.1 OLFU VMV 1.2 PEO, PO, CO 1.3 Course Outline			
	 Enumerate the importance and significance of statistics in research 	Importance of Statistics a.What is Statistics? b.Qualities of a Good Statistician c.Scope of Statistics			
2	O Identify the scope of statistics in research	d. Subject of Statistics d. Functions of Statistics e. Importance of Statistics to Research			
	 Fulfill the objectives of statistics in studying research 	f. Z-test with Computer g.Objectives of Research in Studying Research			
3	 Identify the different methods of collecting data Enumerate and describe the different methods of presenting data 	2. Collection and Presentation of Data a. What is Validity? b. Testing the validity of the Research Instrument c. Reliability d. Methods of Testing the Reliability of Research instrument e. Data Gathering Procedure f. Data Processing Procedure g. Statistical Treatment h. Presentation of Data			
	O Describe the features of a frequency distribution				
4	 Construct a frequency distribution table Illustrate a given data using the common graphical presentation methods 	Frequency Distribution and Their Graphical Representation a.Frequency Distribution b.Graphic Representation of Frequency Distribution			
	O Differentiate mean, median, and mode	4. Measures of Central Tendency a. Characteristics of Mean			
	O Interpret a data through its mean, median and mode	b.Characteristics of Median c.Characteristics of Mode			
5	 Interpret the shape of a data through its mean, median, and mode 	d.Advantages of the Mean, Median and Mode e.Disadvantages of the Mean, Median and Mode f. Arithmetic Mean			
	 Discuss range and average deviation as well as their limitations 	g.Median h.Mode i. Mean, Median Mode using Computer			
6	PRE	LIM EXAMINATION			

	COURSE COVERAGE - MIDTERMS				
WEEK	UNIT EXPECTED OUTCOMES (UEO)	COURSE CONTENT			
7	Discuss the use and relevance of Point Measures	5. Point Measures a.Quartile b.Decile c. Percentile			
8	 Discuss the use and relevance of Measures of Variability Identify their uses in applying to research 	6. Measures of Variability a.Range b.Quartile Deviation c.Average Deviation or Mean Deviation d.Variance e.Standard Deviation f. Advantages of Variance and Standard Deviation as Measures of Variability g.Interpretation of Standard Deviation h.Measures of Relative Variability			
9	 Define correlation, correlation coefficient, positive correlation, and negative correlation Demonstrate hypothesis testing using Pearson r Correlation Coefficient 	7. Measures of Correlation a. Perfect Negative Correlation b. Perfect Positive Correlation c. Pearson Product-Moment Correlation Coefficient d. Correlation with Computer e. Interpretation of Correlation Value f. Spearman Rank Correlation Coefficient or Spearman rho g. Spearmen Correlation with Computer h. Scattergram or Scatter Diagram			
10	O Illustrate how to obtain the regression line given a data	8. Partial and Multiple Correlation and Regression a. Partial Correlation of Three Variables b. Correlation with Computer c. Partial Correlation of Four Variables d. Multiple Correlation and Regression			

	COURSE COVERAGE – MIDTERMS				
	 Compute for the probability of compound events and outcome of a probability experiment 	9. Probability, Permutation and Combination			
	 Solve for the conditional probabilities of events Calculate the joint probabilities of events using multiplicative rule 	a.Experimental Probability b.Expected Probability			
11		C. Addition of Probabilities d. Multiplication of Probabilities e. Permutation			
	Compute for the permutation and combination events and outcome of a probability experiment	f. Combination			
12	12 MIDTERM EXAMINATION				

	COURSE COVERAGE – FINALS				
WEEK	UNIT EXPECTED OUTCOMES (UEO)	COURSE CONTENT			
	Oldentify the three types of chi-square tests	10. Chi-Square			
13	O Demonstrate hypothesis testing using Chi-Square	a. What is Chi Square? b. Uses of Chi-Square c. Classification			
14	 Demonstrate hypothesis testing using one way ANOVA 	11. ANOVA a.Z-Test, b.T-Test, c.Levels of Significance d.F-test or ANOVA			
15	Demonstrate hypothesis testing using ANCOVA	12. Analysis of Covariance a.ANCOVA Table			
16 – 17	Demonstrate other ANCOVA	Other Analysis of Variances a.Friedman Two-Way Analysis of Variance by Ranks b.Kruskal-Wallis One-Way Analysis of Variance by Ranks with Tied Observations			
18	F	FINAL EXAMINATION			

TEXTBOOKS

Aguilar, Arfel V., Roque,

REFERENCES (BOOKS/ONLINE WEBSITES/JOURNALS)

воокѕ

Palmer, Michael.

WEBSITES

E-JOURNALS

Jiang, Jianjun; Wang, Yiqun; Zhang, Li; Xie, Tian; Li, Min; Peng, Yuyuan; Wu, Daqing; Li, Peiyao; Ma, Congmin; Shen, Mengxu; wu, Xing; Weng, Mengyun; Wang, Shiwei; Xie, Cen. (2016) Optimal design method for a digital human—computer interface based on human reliability in a nuclear power plant. Part 3: Optimization method for interface task layout. Annals of Nuclear Energy. Aug2016, Vol. 94, p750-758. 9p. DOI: 10.1016/j.anucene.2016.04.036. Retrieved from

http://web.b.ebscohost.com/ehost/viewarticle/render?data=dGJyMPPp44rp2%2fdV0%2bnjisfk5le45PFJtq62Sq6k63nn5Kx95uXxjL6urUmzpbBlr62eSbCwr0y4prY4v8OkjPDX7lvf2fKB7eTnfLuntUixqbFJtqmuPurX7H%2b72%2bw%2b4ti7eeTeplzf3btZzJzfhrunr02xqbZRsaikfu3o63nys%2bSN6uLyffbq&vid=27&sid=96bd9242-3bab-4948-afae-fcd29b0df7f4@sessionmgr101

GRADING SYSTEM The final grade of the student is interpreted as shown on the table below:										
COMPUTED GRADE	100-98	97-95	94-92	91-89	88-86	85-83	82-80	79-76	75	75 Below
EQUIVALENCE	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	5.0

FDA - Failure due to Absences

AW - Authorized withdrawal

W - Unauthorized Withdrawal

NFE - No Final Examination

PRELIM GRADE	MIDTERM GRADE	FINAL GRADE	
Prelim Exam 36% Performance Task 64%	Prelim Exam 27% Midterm Exam 27% Performance Task 46%	I Final Evam	20% 20% 20% 35% 5%

OTHER IMPORTANT INFORMATION		
OTHER COURSE POLICIES		
STUDENTS COURSE PORTFOLIO	All exercises and requirements for the course are to be compiled by the students as part of their portfolio and must be made available for inspection by the instructor before the end of the semester	
LANGUAGE OF INSTRUCTION	ENGLISH	
ATTENDANCE	Per Section 1551 of CHED's Manual of Regulation for Private Educational Institution, a student who has incurred absences more than twenty percent (20%) of the total number of school days shall not be given credit to the course regardless of class standing. For further provisions of the said policy, please refer to the OLFU Student Handbook.	
COURSE REVIEW AND ENHANCEMENT MEMBERS	Chairperson : ENGR. ELISEO D. FRANCISCO, JR., MIT Members : MR. JEFFREY CALIM, SMIT MR. WILFREDO M. ROMERO, MIT	