

**SCHEME OF STUDIES
AND OUTLINES
FOR
BS (Associate Degree Program)
UNDERGRADUATE PROGRAM IN STATISTICS
(Semester/Term System)**



Session 2023 –Onward

**DEPARTMENT OF STATISTICS
UNIVERSITY OF SARGODHA**

Scheme of Studies
Associate Degree in Statistics
(For Affiliated Colleges)

1. **Title of Degree Program:** BS Associate Degree in Statistics
2. **Program Learning Objectives:** The main objective is to equip the graduates with the knowledge of statistical theory, statistical software and techniques of data collection and analysis so that they can compete in the job market and contribute towards the economic development of Pakistan. To provide a sound footing of the subject matter of statistical theory so that they can pursue higher degrees and research in the field of statistics.
3. **Program Structure:**

Duration	Minimum 2-Years (4-Semesters)
Admission Requirements:	At least 45% marks in HSSC, Pre-Engineering / Pre-Medical / ICS / FA/ I.Com / D.Com. or A-Level or equivalent or DAE.
Degree Completion Requirements:	Minimum 60 Credit Hours

Semester-I

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
GE-1	URCG-5118	Functional English	3(3-0)	Nil
GE-2	URCG-5105 URCG-5126	Islamic Studies (OR) Religious Education/Ethics	2(2-0)	Nil
GE-3	URCG-5123	Applications of Information and Communication Technologies (ICT)	3(2-1)	Nil
Major-1	STAT-5101	Introductory Statistics	3(3-0)	Nil
Major-2	STAT-5102	Applied Statistics	3(3-0)	Nil
Major-3	STAT-5103	Official Statistics	3(3-0)	Nil

Semester Total Credit Hours: 17

Semester-II

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
GE-4	URCG-5112	Fables, Wisdom Literature and EPICS	2(2-0)	Nil
GE-5	URCG-5116	Science of Society-I	2(2-0)	Nil
GE-6	URCG-5120	Exploring Quantitative Skills	3(3-0)	Nil
GE-7	URCG-5127	Seerat of the Holy Prophet (SAW)*	1(1-0)	Nil
Major-4	STAT-5104	Introduction to Probability Distributions	3(3-0)	Nil
Major-5	STAT-5105	Computer Applications in Statistics	3(3-0)	Nil
Major-6	STAT-5106	Introduction to Regression Analysis and Experimental Design	3(3-0)	Nil
GE-8	URCG-5111	Translation of Holy Quran*	NC	Nil

*For Muslim students only

Semester Total Credit Hours: 17

Semester-III

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
GE-9	URCG-5119	Expository Writing	3(3-0)	Nil
GE-10	URCG-5121	Tools for Quantitative Reasoning	3(3-0)	Nil
Major-7	STAT-5107	Basic Statistical Inference	3(3-0)	Nil
Major-8	STAT-5108	Population Studies	3(3-0)	Nil
Major-9	STAT-5109	Research Methods	3(3-0)	Nil

Semester Total Credit Hours:15

Semester-IV

Category	Course Code	Course Title	Credit Hours	Pre-Requisite
GE-11	URCG-5122	Ideology and Constitution of Pakistan	2(2-0)	Nil
GE-12	URCG-5114	Basic Science	3(2-1)	Nil
GE-13	URCG-5124	Entrepreneurship	2(2-0)	Nil
GE-14	URCG-5125	Civics and Community Engagement	2(2-0)	Nil
Major-10	STAT-5110	Non-Parametric Methods	3(3-0)	Nil
Major-11	STAT-5111	Bio-Statistics	3(3-0)	Nil
GE-8	URCG-5111	Translation of Holy Quran*	NC	Nil

*For Muslim students only

Semester Total Credit Hours: 15

Total Credit Hourr: 64

Course Brief

Introductory Statistics is a foundational course that introduces students to the fundamental principles and techniques of statistical analysis. This course covers basic concepts in probability theory and statistical inference, providing students with the necessary tools to summarize and interpret data, make informed decisions, and draw meaningful conclusions. Topics include data collection, descriptive statistics, and basic probability theory.

Course Learning Objectives

By the end of the course, students should be able to:

- Understand Basic Statistical Concepts: Define key statistical terms such as population, sample, variable, data, and distribution.
- Organize and Summarize Data: Collect and organize data using appropriate methods.
- Calculate and interpret measures of central tendency and dispersion (mean, median, mode, range, variance, standard deviation).
- Visualize Data: Create and interpret various types of graphs and charts (histograms, bar charts, box plots, and scatterplots) to represent data effectively.
- Probability Concepts: Understand the fundamental principles of probability. Calculate probabilities for simple events and apply probability rules.

Contents

1. The importance and scope of the Statistics
2. Variables and their types
3. Data and its sources
4. Scales of measurements
5. Tabulation and classification of data
6. Graphs and Charts: Stem-and leaf diagram, Box and Whisker plots and their interpretation
7. Measures of Central Tendency, Quantiles
8. Measures of Dispersion: Their properties, usage, limitations and comparison
9. Moments, Measures of Skewness and Kurtosis and distribution shapes
10. Rates and ratios, Standardized scores
11. Probability Basics, Events
12. Rules of Probability; Addition Rule, Multiplication Rule

Recommended Books

1. Chaudhary, S. M. (2014). *Introduction to Statistical Theory* (8thed.) Lahore: Ilmi Kitab Khana.
2. Clark, G.M. and Cooke, D. (1998). *A Basic Course of Statistics* (4th Ed.) London.

Suggested Books

1. Weiss, N.A. (2015). *Introductory Statistics* (10thed.).London: Pearson.
2. Spiegel, M. R., Schiller, J.L. &Sirinivasan, R.L. (2000). *Probability and statistics* (2nd Ed.) New York: McGraw Hill.

Course Brief

This course provides a comprehensive introduction to key concepts and techniques in the fields of sampling theory, index numbers, and time series analysis. Students will develop a strong foundation in statistical methods essential for making informed decisions in various fields, including economics, finance, social sciences, and more.

Course Learning Objectives

- Understand the principles of sampling and different sampling methods.
- Study the construction and interpretation of index numbers.
- Gain insights into the use of index numbers in economics, business, and policy-making.
- Compute and compare various index numbers, such as Laspeyres, Paasche, and Fisher.
- Examine the concepts of time series data and their applications.

Contents

1. Importance of sampling: Sample versus population
2. Census and survey problem, questionnaire development.
3. Concepts of statistic and population parameter.
4. Random and nonrandom sampling
5. Sampling and Non-Sampling Errors
6. Sampling techniques: Simple Random, Stratified, Cluster and Systematic random sampling.
7. Index numbers: construction and uses of index numbers
8. Un-weighted index numbers (simple aggregative index, average of relative price index numbers).
9. Weighted index numbers (Laspeyres, Paasche and Fisher's ideal index numbers). Consumer price index (CPI) and Sensitive Price Indicators.
10. Time Series Analysis: Examine the concepts of time series data and their applications
11. Develop skills in data visualization, including time plots and seasonal decomposition
12. Perform time series forecasting using methods such as moving averages and exponential smoothing

Recommended Books

1. Chaudhary, S.M. (2014). *Introduction to statistical theory* (8th Ed.). Lahore: Ilmi Kitab Khana.
2. Clark, G.M. and Cooke, D. (2009). *A basic course of statistics* (5th Ed.). Wiley.

Suggested Books

1. Cochran, W. G. (1977). *Sampling techniques*. (3rd Ed.). New York: John Wiley & Sons.
2. Walpole, R.E., Myers, R. H. & Myers, S. L. (1998). *Probability and statistics for engineers and scientist* (6th Ed.) New York: Prentice Hall.

Course Brief

Official Statistics refers to the collection, analysis, interpretation, and dissemination of data by government agencies or other authorized organizations. These statistics are crucial for informed decision-making in various aspects of society, such as policymaking, economic planning, public health, and more. Official Statistics is a comprehensive course that explores the principles, methods, and applications of collecting, analysing, and disseminating statistical data by government bodies and authorized agencies. This course provides students with a deep understanding of the role of official statistics in shaping public policy, monitoring societal trends, and supporting evidence-based decision-making. It covers the various aspects of official statistical practices, including data collection, processing, analysis, and communication.

Course Learning Objectives

- Understand the significance of official statistics in modern society.
- Explore various data collection methods, including surveys, censuses, administrative data, and data from digital sources.
- Understand the advantages and limitations of different data collection approaches.
- Explore methods to ensure the accuracy, reliability, and integrity of official statistics.
- Learn how to effectively communicate statistical findings to various stakeholders, including policymakers, the public, and researchers.

Course Contents

1. Design and planning of a Statistical Investigation. Data collection approach and operation; Role of sampling in generation of statistics. Sampling plans and survey designs.
2. Sources of Errors, types of Errors, methods of their control. Data processing, presentation, and publication of statistics.
3. Different modes of data dissemination. Official statistics, statistics systems and standards, sources of official statistics, their role, working and publication. Role of official statistics, official publications.
4. Setup of official organizations in Pakistan their role, working & publication, statistics division,
5. Federal Bureau of statistics, Agricultural Census Organization, Population Census Organization, Ministry of Food , and Agriculture and Livestock;
6. National Data Bade and Registration Authority (NADRA). Provincial Bureaus of statistics.
7. Financial statistics: Ministry of Finance, state Bank of Pakistan-Department of statistics, their working publications and responsibilities.
8. Other organization's statistical output, National and International series, classification and standards.
9. Use of statistics in administration and planning.
10. Concepts and evaluation of GDP, GNP, NNP, balance of trade and payments. Measurement of income Distribution,
11. Use of index numbers, and time series, Deflation and inflation of series.
12. National sample surveys and censuses conducted in Pakistan.
13. Assignment: Visit of major statistical organizations will be a part of the course.
14. An assignment will have to be submitted on any topic given by the course incharge.

Recommended Books

1. Kish, L. (1982). *Survey sampling*. New York: John Wiley and Sons.
2. Statistics, D. (2005). *Activity report government of Pakistan*. Islamabad: Statistics division.

Suggested Books

1. Statistical institute for Asia & Pacific SIAP. (1984). *Training of trainers in statistical operations and procedure*. Part-1, II. Tokyo, UNDP.
2. Murthy, M. N. (1979). *Quality of data, country course on sample survey*, Karachi: Statistics bureau.

Course Brief

Introduction to Probability Distributions is a course designed to provide students with a comprehensive introduction to probability theory and its practical applications. The course explores various types of probability distributions, their properties, and their significance in modelling real-world phenomena. Through lectures, practical exercises, and real-world examples, students will gain a solid understanding of probability distributions and their role in statistics, data analysis, and decision-making.

Course Learning Objectives

- To introduce students to the fundamental concepts of probability, including sample spaces, events, and probability axioms.
- To demonstrate real-world applications of probability distributions in fields like finance, engineering, and science.
- To develop students' ability to solve problems involving probability distributions, both analytically and computationally.
- To equip students with the skills needed to analyze and interpret data that follows different probability distributions.
- Depending on the course, students may also be expected to gain proficiency in using statistical software or programming languages for working with probability distributions.
- To encourage critical thinking and the ability to apply probability concepts to real-world scenarios

Contents

1. Basic probability concepts
2. Sample spaces and events
3. Probability axioms and rules
4. Combinatorial probability
5. Conditional Probability, Bayes' Rule
6. Probability mass functions (PMFs)
7. Expected value (mean) and variance
8. Bernoulli distribution
9. Binomial distribution
10. Poisson distribution
11. Hypergeometric distribution
12. Probability density functions (PDFs)
13. Cumulative distribution functions (CDFs)
14. Expected value (mean) and variance for continuous random variables
15. Uniform distribution
16. Normal distribution
17. Exponential distribution
18. Gamma distribution
19. Beta distribution

Recommended Books

1. Spiegel, M. R., Schiller, J. L. & Sirinivasan, R.L. (2000). *Probability and statistics*. (2nd Ed.). New York: McGraw Hill.
2. Clark, G. M. & Cooke, D. (1998). *A basic course in statistics*. (4th Ed.). London: Arnold.
3. Hogg, R. V., Tanis, E. A. and Zimmerman, D. L. (2015) *Probability and Statistical Inference*, 9th Ed. Pearson, USA.

Suggested Books

1. Walpole, R. E., Myers, R. H & Myers, S. L. (1998). *Probability and statistics for engineers and scientist*. (6th Ed.). New York: Prentice Hall.
2. Mclave, J.T., Benson, P. G. & Snitch, T. (2005). *Statistics for business & economics* (9th Ed.). United States: Prentice Hall.

Course Brief

Computer Applications in Statistics is a comprehensive course designed to introduce students to the essential role of computers in modern statistical analysis. This course focuses on the practical aspects of using computer software and programming languages to collect, analyze, and interpret statistical data. Through a combination of theoretical concepts and hands-on practical exercises, students will gain proficiency in utilizing various statistical software packages and programming tools to solve real-world problems.

Course Learning Objectives

1. Teach students the fundamental components of a computer system, including hardware and software. Understand the fundamental components of a computer system, including hardware and software.
2. Teach students how to collect, organize, and manage data for statistical analysis using computer tools and software.
3. Enable students to calculate descriptive statistics such as mean, median, mode, variance, and standard deviation using computer software.
4. Introduce students to various data visualization techniques, including creating histograms, box plots, scatterplots, and other graphical representations of data using software like Excel, etc
5. Explain different probability distributions (e.g., normal, binomial, Poisson) and how to use computer applications to calculate probabilities and percentiles.
6. Teach students how to perform hypothesis tests, such as t-tests and chi-square tests, using statistical software.
7. Train students in writing clear and concise reports of statistical analyses to prepare its presentation slides.
8. Ensure that students gain hands-on experience with statistical software by working on datasets and conducting analyses independently.

Contents

1. Historical development of computers, the role of computers in modern society.
2. Basics of computer hardware and software.
3. Overview of computer components (CPU, RAM, storage devices, input/output devices) and how these components work together to process and store data.
4. Introduction to operating systems (e.g., Windows, macOS, Linux). Application software vs. system software and Basics of programming languages.
5. Common computer security threats (viruses, malware, phishing), how to protect your computer and data. Online privacy and safe internet practices
6. The ethical use of computers and technology, Issues related to privacy, copyright, and intellectual property.
7. Explore web browsers and their features. Understand how to navigate the internet, conduct online research, and evaluate online sources.
8. Introduction to current and emerging technologies in computing (e.g., AI, IoT, blockchain).
9. Introduction to statistical software such as R or specialized statistical software like SPSS.
10. Data import/export, data manipulation, and basic scripting.

11. Using computer software (e.g., Excel, R, Python) for creating charts and graphs. Histograms, bar charts, scatterplots, box plots, etc.
12. Finding Measures of central tendency (mean, median, and mode), Measures of dispersion (range, variance, and standard deviation), Percentiles and quartiles using software or language.
13. Basic probability concepts. Probability distributions (e.g., normal distribution, binomial distribution). Probability calculations using software.
14. Random sampling using software or language.
15. Conducting hypothesis tests (e.g., t-tests, chi-square tests) and confidence intervals using computer software.
16. Regression analysis using software.
17. Conducting a small statistical research project using computer software.

Recommended Books

1. Lebenon, G. & El-Geish, M. (2018). *Computing with data: An introduction to data industry*. USA: Springer.
2. Herkenhoff, L. and Fogli, J. (2013). [*Applied statistics for business and management using microsoftexcel*](#). USA: Springe

Suggested Books

1. Foley, J. D., Van Dam, A., Feiner, S. K., Hughes, J. F., & Phillips, R. L. (1994). *Introduction to computer graphics*. Addison-Wesley: Laurie Ann Ulrich,

Course Brief

This course is designed to introduce students to fundamental concepts and techniques in regression analysis and experimental design, with a focus on their applications in various fields, including statistics, social sciences, engineering, and natural sciences. Regression analysis is a powerful statistical tool for examining relationships between variables, making predictions, and understanding the underlying patterns in data. Experimental design is essential for planning, conducting, and analyzing experiments efficiently and effectively.

Course Learning Objectives

By the end of the course, students should be able to:

- Students will gain a solid understanding of simple linear regression and multiple regression, including assumptions, interpretation of coefficients, and hypothesis testing.
- Students will learn the fundamentals of experimental design, including the identification of research questions, selection of experimental and control groups, and the planning of randomized experiments.
- Students will acquire the knowledge and tools to analyze experimental data using appropriate statistical tests and techniques, including analysis of variance (ANOVA) and hypothesis testing.

Contents

1. Introduction to regression analysis
2. Simple linear regression and multiple regression
3. Diagnostics of assumptions of regression analysis
4. Inference regarding regression parameters.
5. Linear correlation: simple, partial and multiple correlation.
6. Correlation, correlation coefficient, inference regarding correlation coefficient.
7. Coefficient of determination.
8. One-way and two-way ANOVA
9. Introduction to design of experiments, basic principles of design of experiments.
10. Analysis of completely randomized design, randomized complete block and Latin square design.
11. Multiple comparisons (LSD and Duncan's test).

Recommended Books

1. Chaudhary, S. M. (2014). *Introduction to statistical theory*. (8th Ed.). Lahore: Ilmi Kitab khana.
2. Clarke, G. M., & Kempson, R. E. (1994). *Introduction to the design and analysis of experiments*. New York: John Wiley & Sons.

Suggested Books

1. Gujrati, D. (2004). *Basic econometrics*. New York: John Wiley & Sons.
2. Walpole, P.E., Myers, R.H., & Myers, S. L. (2007). *Probability and statistics for engineers and scientists* (8thed.). India: Pearson Prentice Hall.

Course Brief

Basic Statistical Inference is a fundamental course designed to introduce students to the core principles and techniques of statistical inference. This course equips students with the knowledge and skills necessary to make informed decisions and draw meaningful conclusions from data. Through a combination of theoretical concepts and practical applications, students will gain a solid foundation in statistical inference, which is essential for various fields such as science, business, social sciences, etc.

Course Learning Objectives

By the end of this course, students will be able to:

- Explain the principles of random sampling and understand the properties of sampling distributions, including the central limit theorem.
- Describe point estimation and interval estimation and learn how to calculate and interpret confidence intervals for population parameters, such as means and proportions.
- Understand the concept of hypothesis testing and perform hypothesis tests for means, proportions, and variances.
- Understand the Chi-Square distribution and its applications.
- Learn how to compare means and proportions between two or more groups using hypothesis tests.
- Familiarize with nonparametric tests for situations where assumptions of normality are not met.

Contents

1. Sampling and sampling distribution of sample mean, proportion, difference between means and difference between proportions.
2. Point and interval estimate, properties of good point estimator.
3. Testing of hypothesis for population mean, difference between two population means and difference between two population proportions, difference between means for paired data and equality of several means.
4. Single population variance, ratio of two variances.
5. Non-parametric methods; The sign test, Wilcoxon's signed rank test, Mann-Whitney U test, Kolmogorov-Smirnov test.

Recommended Books

1. Walpole, R.E., Myers, R. H. & Myers, S. L. (2007). *Probability and statistics for engineers and scientists* (8th Ed.). India: Pearson Prentice Hall.
2. Weiss, N. A. (2017). *Introductory statistics*. (10thed.). United States: Pearson Education.

Suggested Books

1. Spiegel, M. R., Schiller, J. L. & Sirinivasan, R.L. (2000). *Probability and statistics* (2nded.). New York: McGraw Hill.
2. Clark, G. M. & Cooke, D. (1998). *A basic course in statistics* (4thed.). London: Arnold.
3. McIave, J. T., Benson P.G. & Snitch, T. (2005). *Statistics for business and economics*. (9thed.). Indian: Pearson Prentice Hall.

Course Brief

Population Studies is an interdisciplinary field that examines the dynamics, trends, and consequences of human populations. This course provides an in-depth exploration of the theories, methodologies, and key issues in population studies, with a focus on demographic analysis, population growth, distribution, and their implications for social, economic, and environmental systems. Through a combination of lectures, readings, case studies, and research projects, students will gain a comprehensive understanding of the complex interplay between population factors and societal development.

Course Learning Objectives

By the end of this course, students will be able to:

- Understand the fundamentals of demographic analysis: Explain key demographic concepts such as fertility, mortality, migration, population pyramids, and life expectancy, and apply demographic methods to analyse and interpret population data.
- Identify and analyze population trends: Recognize and interpret global, regional, and local population trends, including population growth, aging, urbanization, and their implications for society and policy.
- Examine the determinants of population change: Evaluate the factors influencing demographic transitions, including socio-economic, cultural, and political factors, and analyze how these determinants differ across various regions and countries.
- Assess the impact of population dynamics on society: Analyze the effects of population growth, distribution, and structure on social issues such as healthcare, education, labor markets, and housing, and critically assess policy responses.

Contents

1. Meaning of vital statistics, registrations of birth and death in Pakistan.
2. Uses of vital statistics, short comings of vital statistics, rates and ratios (Sex ratio, child women ratio, birth and death ratio, population growth rate, classification of natal rates, death rates or mortality rates, crude death rate, specific death rate, infant mortality rate, case fatality rate, fertility rates, crude birth rate, specific birth rate, standardized death rate, reproduction rates, morbidity or sickness rates, marriage rates, divorce rates etc. general; fertility rate, total fertility rate.)
3. Basic concepts of demography, Sources of demographic data: The population and housing census, registration of vital events.
4. Demographic surveys, components of population growth, composition of population and vital events. Types and sources of errors, data quality testing procedures, testing the accuracy of age and sex distribution, Fertility and mortality measures.
5. Estimation from incomplete data
6. Construction of complete and abridged life tables, Different types of life tables, Graphs of l_x , q_x and e_x , Description and uses of life table columns.

Recommended Books

1. Weinstein, J. & Pillai, V. K. (2001). *Demography: The science of population*. England: Allyn and Bacon.
2. Hinde, A. (2014). *Demographic method* (2nd Ed.). London: Routledge.

Suggested Books

1. United, N. (1998). *World population assessment*. New York: UNFPA.
2. Govt. of Pakistan (1998). *National, provincial and district census reports and other supplementary reports with respect to 1998 census*. Islamabad: PCO.
3. United, N. (1996). *Added years of life in Asia*. Thailand: ESCAP U.N.

Course Brief

The Research Methods course is designed to provide students with the foundational knowledge and skills necessary to conduct high-quality research in various academic disciplines and professional settings. This course will introduce students to the principles and techniques of research design, data collection, analysis, and interpretation. It will also explore ethical considerations in research and help students develop a critical understanding of existing research literature. Through a combination of lectures, readings, discussions, and practical exercises, students will gain a comprehensive understanding of research methods and how to apply them effectively.

Course Learning Objectives

By the end of this course, students should be able to:

- Understand the fundamentals of research: Define and explain key research concepts, including research questions, hypotheses, variables, and the research process itself.
- Develop a research proposal: Formulate a clear and well-defined research question or hypothesis, design a research plan, and outline the steps necessary to conduct a research project.
- Select appropriate research methods: Evaluate different research methodologies, such as qualitative, quantitative, and mixed-methods approaches, and choose the most suitable method for a given research question.
- Collect and analyse data: Learn how to collect and organize data using various data collection techniques, such as surveys, interviews, observations, and experiments. Explore data analysis methods, including descriptive statistics and inferential statistics.
- Interpret research findings: Analyse and interpret research results critically, drawing meaningful conclusions and implications from the data.
- Review and critique existing research: Conduct a literature review to identify relevant scholarly articles, critically assess the strengths and weaknesses of existing research, and identify gaps in the literature.

Contents

1. Introduction to Research: The importance of research, Types of research (e.g., qualitative, quantitative, mixed methods), The research process Ethical considerations in research
2. Research Design: Formulating research questions and hypotheses, Variables and their measurement, Experimental and non-experimental research designs, Sampling methods and techniques
3. Data Collection Methods: Surveys and questionnaires, Interviews (structured, semi-structured, and unstructured), Observation, Content analysis, Case studies, Experiments, Secondary data analysis
4. Data Analysis: Descriptive statistics (mean, median, mode, standard deviation, etc.), Inferential statistics (hypothesis testing, t-tests, ANOVA, regression analysis, etc.), Qualitative data analysis methods (thematic analysis, content analysis, etc.), Data visualization techniques
5. Research Ethics: Informed consent, Confidentiality and privacy, Institutional Review Board (IRB) and ethical approval processes, Avoiding plagiarism and academic integrity

6. Research Proposal Writing: Components of a research proposal, Literature review, Research methods and design, Data analysis plan, Budget and timeline, Data Interpretation and
7. Reporting: Interpreting research findings, Drawing conclusions, Writing research reports and papers
8. Research Tools and Software: Introduction to statistical and data analysis software (e.g., SPSS, R, NVivo), Bibliographic management tools (e.g., EndNote, Zotero), Research in specific disciplines (e.g., psychology, sociology, biology)

Recommended Books

1. Hashmi, N. (1989). *Research, foundations and methodology*. Islamabad: Western Press. Style Manual of Technical Writings, USAID/NARC
2. Crowther, D. & Lancaster, G. (2012). *Research methods*. London: Routledge.

Suggested Books

1. Bernard, H. R. & Bernard, H. R. (2013). *Social research methods: Qualitative and quantitative approaches*. England: Sage.
2. Gimbaled, J. & Acuter, W.S. (1988). *MLA handbook for writers of research papers*. America: McGraw the Modern Language Association of America.

Course Brief

Non-parametric methods are a class of statistical techniques used for analyzing data when the underlying probability distribution of the data is unknown or when the data does not meet the assumptions of parametric methods (which assume a specific distribution, such as normal distribution). This course introduces students to non-parametric statistical methods, a powerful set of tools for analyzing data without making strong distributional assumptions. Non-parametric methods are essential for researchers and analysts working with real-world data, as they provide robust alternatives to traditional parametric techniques. Through theoretical explanations, practical examples, and hands-on exercises, this course equips students with the skills to apply non-parametric methods effectively in various research and practical contexts.

Course Learning Objectives

By the end of this course, students will be able to:

- Define the concept of non-parametric statistics and understand when to use non-parametric methods.
- Differentiate between parametric and non-parametric approaches in statistics.
- Understand the importance of ranks in non-parametric tests and learn how to rank data and calculate various order statistics.
- Conduct one-sample tests such as the Wilcoxon signed-rank test and sign test.
- Perform two-sample tests like the Mann-Whitney U test and the Kolmogorov-Smirnov test.
- Compare two independent samples without assuming a normal distribution and explore paired data analysis using the Wilcoxon signed-rank test.
- Learn about chi-square tests for independence and goodness-of-fit and apply chi-square tests to analyze categorical data without parametric assumptions.

Contents

1. Introduction to Non-Parametric Statistics: Definition and advantages of non-parametric methods, When to use non-parametric methods.
2. Data Types: Nominal data, Ordinal data, Interval data, Ratio data.
3. Rank-Based Tests: Wilcoxon signed-rank test, Mann-Whitney U test (Wilcoxon rank-sum test), Kruskal-Wallis test (non-parametric ANOVA), Friedman test (non-parametric repeated measures ANOVA).
4. Goodness-of-Fit Tests: Chi-square goodness-of-fit test, Kolmogorov-Smirnov test., Anderson-Darling test.
5. Two-Sample Tests: Wilcoxon signed-rank test for matched pairs, Mann-Whitney U test for independent samples.
6. Non-Parametric Tests for Categorical Data: Chi-Square Test for Homogeneity, Fisher's Exact Test, McNemar's Test, Log-Linear models
7. Correlation and Association: Spearman's rank correlation coefficient Kendall's tau rank correlation coefficient.
8. Contingency tables and association tests.

Recommended Books

1. Gibbons, J. D.& Chakraborti, S. (2011). *Nonparametric statistical inference*. Berlin: Springer.
2. Annette, J. D. (1991). *Introduction to generalized linear models*. London: Chapman and Hall.
3. Anderson, E. B. (1990). *The statistical analysis of categorical data*. New York: Springer-Verlag.

Suggested Books

1. Conover, W.J. (1984). *Practical non-parametric statistics*. New Jersey: John Willey.
2. Sprent, P. (1984). *Applied non-parametric statistics*. New Jersey: John Willey
3. Fienberg, S. E. (2007). *The analysis of cross-classified categorical data*. Berlin: Springer.

Course Brief

Biostatistics is an interdisciplinary field that combines principles of statistics with biological and health sciences. This course provides students with the knowledge and skills needed to apply statistical methods to analyze data in biological and health-related research. Topics covered include data collection, data management, exploratory data analysis, hypothesis testing, regression analysis, survival analysis, and the interpretation of statistical results in the context of health and biology. Practical applications and case studies in various areas, such as epidemiology, clinical trials, and genetic studies, will be emphasized.

Course Learning Objectives

By the end of this course, students will be able to:

- By the end of the course, students should be able to:
- Define key biostatistical terms and concepts and explain the role of biostatistics in various fields, including medicine, epidemiology, and genetics.
- Design data collection processes, including selecting appropriate sampling methods and measurement techniques. Also manage and preprocess biological and health-related data for analysis.
- Conduct EDA to summarize and visualize data and identify outliers, missing data, and potential sources of bias.
- Formulate research hypotheses and null hypotheses and apply appropriate statistical tests for hypothesis testing.
- Perform simple and multiple regression analyses to model relationships between variables and interpret regression coefficients and assess model fit.
- Understand and apply survival analysis techniques, such as Kaplan-Meier curves and Cox proportional hazards models, for time-to-event data.
- Interpret statistical results in the context of biological and health-related research and communicate findings effectively to both technical and non-technical audiences.
- Gain proficiency in using statistical software packages commonly used in biostatistical analysis, such as R or SAS.

Contents

1. Introduction to the basic concepts and terminology of Biostatistics
2. Role of sampling in biostatistics, Sample size estimation.
3. Review of Basic Statistical Concepts: Descriptive statistics, Probability distributions, Hypothesis testing and Confidence intervals
4. Contingency table analysis, Fisher's exact test, 2x2 tables, rxc tables, Simpson's paradox, Confounding, G-Test.
5. Proportions, rates and ratios; incidence, prevalence, Odds Ratio, Relative Risk, Rate Ratio, Sensitivity and specificity.
6. Linear and Nonlinear Regression Analysis: Simple linear regression, Multiple linear regression, Logistic regression and Nonlinear regression models

7. Analysis of Variance (ANOVA) and Experimental Design: One-way ANOVA, Two-way ANOVA and Randomized controlled trials (RCTs)
8. Survival Analysis: Kaplan-Meier survival curves, Cox proportional hazards model, Life tables and Log-rank test
9. Meta-analysis

Recommended Texts

1. Zar, J. (2000). *Bio statistical analysis* (5th ed.). New York: John Wiley and Sons.
2. Shoukri, M. M. & Pause, C. C. (1998). *Statistical methods for health sciences* (2nd ed.). Florida: CRC press.

Suggested Books

1. Daniel, W.W. (1996). *Biostatistics: A foundation for the health sciences*(6thed.). New York: John Wiley & Sons.
2. Diggle, P., Diggle, P. J., Heagerty, P., Liang, K. Y., Heagerty, P. J. & Zeger, S. (2002). *Analysis of longitudinal data*. Oxford University: Press.
3. Dunn, G. & Everit, B. (1995). *Clinical biostatistics*. London: Edward Arnold.

Course Brief

The course will enable students to explore human experiences, cultivate an appreciation of the past, enrich their capacity to participate in the life of their times, and enable an engagement with other cultures and civilizations, both ancient and modern. But independently of any specific application, the study of these subjects teaches understanding and delight in the highest achievements of humanity. The three components of the course, including fables, wisdom literature and epic, will enable the learners to explore and understand the classic tradition in literature. Development of personal virtue, a deep Sufi ethic and an unwavering concern for the permanent over the fleeting and the ephemeral are some of the key themes explored in the contents that will develop an intimate connection between literature and life.

Contents

1. Fables

- ✓ The Fables of Bidpai
- ✓ The Lion and the Bull
- ✓ The Ring-dove
- ✓ The Owls and the Crows
- ✓ Selected poem from Bang-i-Dara

2. Gulistan-e- Sa'di

- ✓ Ten hikāyāt from John T. Platts, The Gulistan

3. Epic

- ✓ THE SHĀHNĀMA OF FIRDAUSI

Recommended Books

1. John T. P. (1876). The Gulistan; or, Rose Garden of Shaikh Muslihu'd- Dīn Sa'dī of Shīrāz. London: Wm. II. Allen.
2. Chishti, Y.S. (1991). Sharaḥ-i bāng-i darā. Lāhaur: Maktaba-i ta'mīr-i insāniyat

Suggested Books

1. Thackston, W. (2000). A Millennium of Classical Persian Poetry. Maryland: Ibex Publishers.
2. Wood, R. (2013). Kalila and Dimna: Fables of Conflict and Intrigue. United Kingdom: Medina Publishing, Limited.

Course Brief

Life, its characteristics, natural science, biology and its branches; Importance of Flora & Fauna in biodiversity; Importance of Natural Compounds in daily life, medicine and human health; Latest developments in natural sciences (Biotechnology); Ecosystem and its components; Environment and its components; Pollutants and their effect on the environment (Greenhouse effect, global warming, acid rains, water pollution and ozone depletions etc); Introduction to micro-organism and its types (bacteria, fungi, viruses)

Practical

1. 1: Field Survey of Flora & Fauna and their identification
2. 2: Study of herbarium
3. 3: Study of Museum

Recommended Books

1. Keddy, P.A. (2017). Plant ecology origins, processes, consequences. Cambridge, University Press.
2. Canadell, J.G., Diaz, S., Heldmaier, G., Jackson, R.B., Levia, D.F., Schulze, E.D. & Sommer, U. (2019). Ecological studies. Springer.
3. Bhat, S.V., Nagasampagi, B.A. & Sirakumar, M. (2006). Chemistry of Natural Products. Springer Science
4. De, A.K. (2019). Environmental Chemistry. New Age International Press

Suggested Books:

1. Fath, B. (2018). Encyclopedia of ecology. Elsevier.
2. Ajith, H. . Urmas. P., Pastur, G. M & Iversion L. R. (2018). Ecosystem services from forest landscapes: broadscale consideration. 1stEdition. Springer International Publishing AG.
3. Xu, R., Ye, Y. & Zhao, W. (2011). Introduction to Natural Product Chemistry. CRC Press
4. Tayler, D.J., Green, N.P.O. & Stout, G.W. (1997). Biological Science 1&2. Cambridge University Press
5. Tayler, M.R., Simon, E.J., Dickey, D.J. & Hogan, K.A. (2020). Campbell Biology: Concepts & Connections (10th Edition). Pearson

Course Brief

This course will introduce students with the subject matter of social science, its scope, nature and ways of looking at social phenomenon. It will make the participants acquaintance with the foundations of modern society, state, law, knowledge and selfhood. While retaining a focus on Pakistani state and society, students will encounter theoretical concepts and methods from numerous social science disciplines, including sociology, politics, economics anthropology and psychology and make them learn to think theoretically by drawing on examples and case studies from our own social context. Students will be introduced to the works of prominent social theorists from both western and non-western contexts. Instruction will include the use of written texts, audio-visual aids and field visits.

Learning Outcomes

- Introduce student with the nature of human social behavior and foundations of human group life
- Analyze the reciprocal relationship between individuals and society.
- Make student aware with the nature of societies existing in modern world
- Make students familiar with the philosophy of knowledge of social sciences
- Introduce students with the works of prominent theories explain human group behavior
- Help students to understand the foundations of society including culture, socialization, politics and economy
- Introduce students with various dimensions of social inequalities with reference to gender, race, ethnicity and religion
- Make them aware about the understanding of various themes pertains to social science in local context
- Help them recognize the difference between objective identification of empirical facts, and subjective formulation of opinionated arguments

Contents

1. Introduction to Social Sciences

- Social world, Human Social behavior, Foundations of society
- Evolution of Social sciences
- Philosophy of Science
- Scope and nature of social sciences
- Modernity and social sciences
- Branches of social science: Sociology, Anthropology, Political Science, Economics

Society and Community, Historical evolution of Society

- Types of Societies
- Foraging society, Horticultural society, Pastoralist society
- Agrarian societies, Industrial society, Postindustrial society

2. Philosophy of Knowledge in social Science and social inquiry

- Understanding social phenomenon
- Alternative ways of knowing
- Science as a source to explore social reality
- Objectivity, Value-Free research
- Positivism vs Interpretivism

- Qualitative vs Quantitative
- 3. Culture and Society**
- Idea of Culture, Assumptions of Culture
 - Types, Components, Civilization and culture
 - Individual and culture. Cultural Ethnocentrism, Cultural Relativism
 - Outlook of Pakistani culture
 - Global Flows of culture, Homogeneity, Heterogeneity
- 4. Social Stratification and Social inequality**
- Dimensions of inequality, Social class
 - Gender, Race, Religion, Ethnicity, Caste
 - Patterns of social stratification in Pakistan
 - Class, caste system in agrarian society
 - Ascription vs Achievement, Meritocracy
 - Global stratification in modern world, Global patterns of inequality
- 5. Personality, Self and Socialization**
- Concept of self, Personality
 - Nature vs Nurture, Biological vs Social
 - Development of Personality
 - Socialization as a process, Agents of socialization
 - Socialization and self/group identity
- 6. Gender and Power**
- Understanding Gender
 - Social construction of Patriarchy
 - Feminism in Historical context, Gender Debates
 - Gender and Development
 - Gender issues in Pakistani society, Women Participation in politics, economy and education
 - Toward a gender sensitive society, Gender mainstreaming
- Pakistan: State, Society, Economy and Polity**
- Colonialism, colonial legacy, National identity
 - Transformation in Pakistani society: Traditionalism vs Modernism
 - Economy, Informality of Economy, Modern economy and Pakistan
 - Political Economy, Sociology of Economy

Recommended Textbooks and Reading Materials:

1. Giddens, A. (2018). Sociology (11th ed.). UK: Polity Press.
2. Henslin, J. M. (2018). Essentials of Sociology: A Down-to-Earth Approach.(18th Edition)Pearson Publisher.
3. Macionis, J. J. (2016). Sociology (16th ed.). New Jersey: Prentice-Hall.
4. Qadeer, M. (2006) Pakistan - Social and Cultural Transformation in a Muslim Nation.
5. Smelser, N.J. and Swedburg, R., The Handbook of Economic Sociology, Chapter 1 ‘Introducing Economic Sociology’, Princeton University Press, Princeton.
6. Systems of Stratification | Boundless Sociology (no date). Available at: <https://courses.lumenlearning.com/boundless-sociology/chapter/systems-of-stratification/>
7. Jalal, A. (ed.) (1995) ‘The colonial legacy in India and Pakistan’, in Democracy and Authoritarianism in South Asia: A Comparative and Historical Perspective. Cambridge: Cambridge University Press (Contemporary South Asia)
8. Zaidi, S. A. (2015) Issues in Pakistan’s Economy: A Political Economy Perspective.

OxfordUniversity Press. Chapter 26

9. Akhtar, A. S. (2017) *The Politics of Common Sense: State, Society and Culture in Pakistan*. Cambridge: Cambridge University Press.
10. Smelser, N.J. and Swedburg, R., *The Handbook of Economic Sociology*, Chapter 1 'Introducing Economic Sociology', Princeton University Press, Princeton.

Course Brief

The course aims at providing understanding of a writer's goal of writing (i.e. clear, organized and effective content and to use that understanding and awareness for academic reading and writing. The objectives of the course are to make the students acquire and master the grammatical academic writingskills. The course would enable the students to develop argumentative writing techniques. The students would be able to logically add specific details on the topics such as facts, examples and statistical or numerical values. The course will also provide insight to convey the knowledge and ideas in an objective and persuasive manner. Furthermore, the course will also enhance the students' understanding of ethical considerations in writing academic assignments and topics including citation, plagiarism, formatting and referencing the sources as well as the technical aspects involved in referencing.

Contents

1. Developing Analytical Skills
2. Transitional devices (word, phrase and expressions)
3. Development of ideas in writing
4. Reading Comprehension
5. Precis Writing
6. Developing argument
7. Sentence structure: Accuracy, variation, appropriateness, and conciseness
8. Appropriate use of active and passive voice
9. Organization and Structure of a Paragraph
10. Organization and structure of Essay
11. Types of Essays

Recommended Books

1. Bailey, S. (2011). *Academic writing: A handbook for international students* (3rd ed.). New York: Routledge.
2. Eastwood, J. (2011). *A Basic English grammar*. Oxford: Oxford University Press.
3. Swales, J. M., & Feak, C. B. (2012). *Academic writing for graduate students: Essential tasks and skills* (3rd ed.). Ann Arbor: The University of Michigan Press.
4. Swan, M. (2018). *Practical English usage* (8th ed.). Oxford: Oxford University Press.

Suggested Books

1. Biber, D., Johansson, S., Leech, G., Conrad, S., Finegan, E., & Quirk, R. (1999). *Longman grammar of spoken and written English*. Harlow Essex: MIT Press.
2. Cresswell, G. (2004). *Writing for academic success*. London: SAGE.
3. Johnson-Sheehan, R. (2019). *Writing today*. Don Mills: Pearson.
4. Silvia, P. J. (2019). *How to write a lot: A practical guide to productive academic writing*. Washington: American Psychological Association
5. Thomson, A. J., & Martinet, A. V. (1986). *A Practical English Grammar*. Oxford: Oxford University Press

Course Brief

This course prepares undergraduates to become successful writers and readers of English. The course helps students develop their fundamental language skills with a focus on writing so that they can gain the confidence to communicate in oral and written English outside the classroom. The course is divided into five units and takes a Project-based Learning approach. Unit themes target the development of 21st century skills and focus on self-reflection and active community engagement. The course completion will enable the students to develop communication skills as reflective and self-directed learners. They will be able to intellectually engage with different stages of writing process, and develop analytical and problem-solving skills to address various community-specific challenges.

Contents

1. Self-Reflection
 - Introduction to the basics of the writing process
 - Introduction to the steps of essay writing
 - Prewriting activities: Brainstorming, listing, clustering and freewriting
 - Practicing Outlining of the essay
2. Personalized Learning
 - Learning Process, Learning Styles, Goal Setting and Learning Plan
3. Oral Presentation
 - Structure and Significance, Content Selection and Slide Presentation, Peer Review
4. Critical Reading Skills
 - Introducing Authentic Reading (Dawn and non-specialist academic books/texts)
 - Reading Strategies and Practice: Skimming, scanning, SQW3R, Annotating, Detailed reading and note-taking, Standard Test Practice: TOEFL and IELTS, Model Review Reports and Annotated Bibliographies
5. Community Engagement
 - Student-led brainstorming on local versus global issues, Identifying research problems
 - Drafting research questions, Drafting interview/survey questions for community research (in English or L1)
 - Engaging students in Critical reading, Presenting interview/ survey information, Field work
 - Writing Community Engagement Project
6. Letter to the Editor
 - Types of letters, Format and purpose of letter to the editor, Steps in writing letter-to-editor

Recommended Books

1. Bailey, S. (2011). *Academic writing: A handbook for international students* (3rd ed.). New York: Routledge.
2. Swales, J. M., & Feak, C. B. (2012). *Academic writing for graduate students: Essential tasks and skills* (3rd ed.). Ann Arbor: The University of Michigan Press.

Suggested Books

1. Cresswell, G. (2004). *Writing for academic success*. London: SAGE.
2. Johnson-Sheehan, R. (2019). *Writing today*. Don Mills: Pearson.
3. Silvia, P. J. (2019). *How to write a lot: A practical guide to productive academic writing*. Washington: American Psychological Association.

Course Brief

Since ancient times, numbers, quantification, statistics and mathematics has played a central role in scientific and technological development. In the 21st century, Quantitative Reasoning (QR) skills are essential for life as they help to better understand socio-economic, political, health, education, and many other issues, an individual now faces in daily life. The skills acquired by taking this course will help the students to apply QR methods in their daily life and professional activities. This course will also change student's attitude about statistics and mathematics. It will not only polish their QR skills, but also enhance their abilities to apply these skills.

Course Learning Outcomes:

After completing this course successfully, students will be able to:

- create and develop quantitative reasoning skills and apply it to daily life challenges involving social and economic issues.
- apply the learned principles of quantitative reasoning skills in other disciplines.
- acquire and use quantitative reasoning skills in different disciplines.
- make decisions in a logical manner.
- apply geometrical models to solve real life problems.

Contents

1. Introduction to quantitative reasoning
2. Overview of contributions of Mathematicians and Statisticians especially Muslim scholars.
3. Types of standard numbers
4. Proportions, rates, ratio and percentages
5. Odds and odds ratio
6. Scale of measurements
7. Number sequence and series
8. Unit analysis as a problem-solving tool
9. Data handling (small and large)
10. Data errors, absolute and relative and their applications
11. Descriptive statistics
12. Rules of counting: multiplication rule, factorial, permutation and combination
13. Probability and its application in real life
14. A graphical perspective through Venn Diagram
15. Financial indicator analysis, and money management (profit, loss, simple and compound interest)
16. Practical scenarios involving algebraic expressions: linear and quadratic

Recommended Books

1. Akar, G. K., Zembat, İ. Ö., Arslan, S., & Thompson, P. W. (2023). *Quantitative Reasoning in Mathematics and Science Education*. 1st Ed., Springer, USA.
2. Peck, R., Olsen, C., & Devore, J. L. (2015). *Introduction to statistics and data analysis*. 5th Ed., Brooks Cole, USA.
3. Devlin, K. J. (2012). *Introduction to mathematical thinking*. Palo Alto, CA: Keith Devlin.

Suggested Books

1. Triola, M. F., Goodman, W. M., Law, R., & Labute, G. (2006). *Elementary statistics*. Reading, MA: Pearson/Addison-Wesley.
2. Blitzer, R., & White, J. (2005). *Thinking mathematically*. Pearson Prentice Hal

Course Brief

This course is based on quantitative reasoning 1 course. It will enhance the quantitative reasoning skills learned in quantitative reasoning 1 course. Students will be introduced to more tools necessary for quantitative reasoning skills to live in the fast paced 21st century. Students will be introduced to importance of statistical and mathematical skills in different professional settings, social and natural sciences. These quantitative reasoning skills will help students to better participate in national and international issues like political and health issues. This course will prepare the students to apply quantitative reasoning tools more efficiently in their professional and daily life activities. This course will help them to better understand the information in form of numeric, graphs, tables, and functions.

Course Learning Outcomes

After completing this course successfully, students will be able to:

- demonstrate knowledge of core concepts in a scientific field,
- interpret scientific data from a variety of sources,
- apply the scientific method to solve problems, and
- demonstrate written and oral presentation skills when communicating scientific knowledge.

Contents

1. Types of data and its graphical representation (Histogram, Stem and Leaf display, Box Plot, Scatter diagram, Histogram, Bar chart, etc)
2. Solving practical problems using linear and exponential models
3. Population growth models
4. Analytical approach to solve simultaneous equations
5. Inequalities and their application
6. Comparing quantities using analytical tools
7. Logical reasoning and their application in modern age
8. Logical reasoning and decision making
9. Data tendencies via measure of location
10. Variability and Measure of dispersion
11. Measuring relationships via Regression analysis and correlation
12. Statistical inference: sampling techniques, estimation techniques and hypothesis testing for decision and policy making

Recommended Books

1. Akar, G. K., Zembat, İ. Ö., Arslan, S., & Thompson, P. W. (2023). *Quantitative Reasoning in Mathematics and Science Education*. 1st Ed., Springer, USA.
2. Sharma, A. K. (2005). *Text book of elementary statistics*. Discovery Publishing House.
3. Blitzer, R. (2014). *Precalculus*, 5th Ed.. Pearson Education, Limited. New York

Suggested Books

1. Gupta, S. C., & Kapoor, V. K. (2020). *Fundamentals of mathematical statistics*. 12th Ed, SultanChand & Sons.
2. Aufmann, R. N., Lockwood, J., Nation, R. D., & Clegg, D. K. (2007). *Mathematical thinking and quantitative reasoning*. Cengage Learning
3. Blitzer, R., & White, J. (2005). *Thinking mathematically*. Pearson Prentice Hall.

1. Meaning and Scope of Ethics.
2. Relation of Ethics with:
 - (a) Religion
 - (b) Science
 - (c) Law
3. Historical Development of Morality:
 - (a). Instinctive Moral Life.
 - (b). Customary Morality.
 - (c). Reflective Morality.
4. Moral Theories:
 - (a). Hedonism (Mill)
 - (b). Intuitionism (Butler)
 - (c). Kant's Moral Theory.
5. Moral Ethics and Society.
 - (a). Freedom and Responsibility.
 - (b). Tolerance
 - (c). Justice
 - (d). Punishment (Theories of Punishment)
6. Moral Teachings of Major Religions:
 - (a). Judaism
 - (b). Christianity
 - (c). Islam
7. Professional Ethics:
 - (a). Medical Ethics
 - (b). Ethics of Students
 - (c). Ethics of Teachers
 - (d). Business Ethics

REFERENCE BOOKS

1. William Lille. An Introduction to Ethics., London Methuen & Co. latest edition.
2. Titus, H.H. Ethics for Today. New York: American Book, latest edition.
3. Hill, Thomas. Ethics in Theory and Practice. N.Y. Thomas Y. Crowel, latest edition
4. Ameer Ali, S. The Ethics of Islam. Culcutta: Noor Library Publishers, latest edition
5. Donaldson, D.M. Studies in Muslim Ethics. London: latest edition.
6. Sayeed, S.M.A.(Tr.) Ta'aruf-e-Akhlaqiat. Karachi: BCC&T, Karachi University of

Course Brief

This course focuses on ideological background of Pakistan. The course is designed to give a comprehensive insight about the constitutional developments of Pakistan. Starting from the Government of India Act, 1935 till to date, all important events leading to constitutional developments in Pakistan will be the focus of course. Failure of the constitutional machinery and leading constitutional cases on the subject. Moreover, students will study the process of governance, national development, issues arising in the modern age and posing challenges to Pakistan. It will also cover the entire Constitution of Pakistan 1973. However, emphasis would be on the fundamental rights, the nature of federalism under the constitution, distribution of powers, the rights and various remedies, the supremacy of parliament and the independence of judiciary

Contents**• Ideology of Pakistan**

Ideological rationale with special reference to Sir Syed Ahmed Khan, Allama Muhammad Iqbal and Quaid-e-Azam Muhammad Ali Jinnah. Two Nation Theory and Factors leading to Muslim separatism.

• Constitutional Developments

Salient Feature of the Government of India Act 1935

Salient Feature of Indian Independence Act 1947 Objectives Resolution

Salient Feature of the 1956 Constitution

Developments leading to the abrogation of Constitution of 1956

Salient features of the 1962 Constitution

Causes of failure of the Constitution of 1962

Comparative study of significant features of the Constitution of 1956, 1962 and 1973

• Fundamental rights**• Principles of policy****• Federation of Pakistan**

President

Parliament

The Federal Government

• Provinces

Governors

Provincial Assemblies T

he Provincial Government

- **The Judicature**

Supreme Court

High Courts

Federal Shariat Courts

Supreme Judicial Council

Administrative Courts and tribunals

- **Islamic Provisions in Constitution**

- **Significant Amendments of Constitution of Pakistan 1973**

Recommended Books

1. Constitutional and Political History of Pakistan by Hamid Khan
2. Mahmood, Shaukat and Shaukat, Nadeem. Constitution of the Islamic Republic of Pakistan, 3rd re edn. Lahore: Legal Research Centre, 1996.
3. Munir, Muhammad. Constitution of the Islamic Republic of Pakistan: Being a Commentary on the Constitution of Pakistan, 1973. Lahore, Law Pub., 1975.
4. Rizvi, Syed Shabbar Raza. Constitutional Law of Pakistan: Text, Case Law and Analytical Commentary. 2nd re edn. Lahore: Vanguard, 2005.
5. The Text of the Constitution of the Islamic Republic of Pakistan, 1973 (as amended).
6. Fundamental Laws of Pakistan by A.K. Brohi

URCG-5123 Applications of Information and Communication Technologies (ICT) 3(2-1)

Course Brief

The course introduces students to information and communication technologies and their application in the workplace. Objectives include basic understanding of computer software, hardware, and associated technologies. How computers can be used in the workplace, how communications systems can help boost productivity, and how the Internet technologies can influence the workplace. Students will get basic understanding of computer software, hardware, and associated technologies. They will also learn how computers are used in the workplace, how communications systems can help to boost productivity, and how the Internet technologies can influence the workplace.

Contents

1. Introduction, Overview of Information Technology.
2. Hardware: Computer Systems & Components, Storage Devices.
3. Software: Operating Systems, Programming and Application Software.
4. Databases and Information Systems Networks.
5. File Processing Versus Database Management Systems.
6. Data Communication and Networks.
7. Physical Transmission Media & Wireless Transmission Media.
8. Applications of smart phone and usage.
9. The Internet, Browsers and Search Engines.
10. Websites and their types.
11. Email Collaborative Computing and Social Networking.
12. E-Commerce.
13. IT Security and other issues.
14. Cyber Laws and Ethics of using Social media.
15. Use of Microsoft Office tools (Word, Power Point, Excel) or other similar tools depending on the operating system.
16. Other IT tools/software specific to field of study of the students if any.

Recommended Book

1. Discovering Computers 2022: Digital Technology, Data and Devices by Misty E. Vermaat, Susan L. sebok; 17th edition.

Suggested Books

1. Computing Essentials 2021 by Timothy J. O'Leary and Linda I. O'Leary, McGraw Hill Higher Education; 26th edition.
2. Computers: Understanding Technology by Fuller, Floyd; Larson, Brian: edition 2018.

Course Brief

This course addresses the unique entrepreneurial experience of conceiving, evaluating, creating, managing, and potentially selling a business idea. The goal is to provide a solid background with practical application of important concepts applicable to the entrepreneurial environment. Entrepreneurial discussions regarding the key business areas of finance, accounting, marketing and management include the creative aspects of entrepreneurship. The course relies on classroom discussion, participation, the creation of a feasibility plan, and building a business plan to develop a comprehensive strategy for launching and managing a new venture.

Course Learning Objectives

- To enhance the ‘entrepreneurial intentions’ of the students by improving their natural willingness to start a business.
- To understand the process of entrepreneurship and learn the ways to manage it by working individually in the class and in the form of groups outside the class to conduct field assignments.
- To educate the students about the practical underpinnings of the entrepreneurship with the aid of practical assignments and idea pitching.

Contents

1. **Background:** What is an Organization, Organizational Resources, Management Functions, Kinds of Managers, Mintzberg’s Managerial Roles.
2. **Forms of Business Ownership:** The Sole proprietorship, Partnership, Joint Stock Company
3. **Entrepreneurship:** The World of the Entrepreneur, what is an entrepreneur? The Benefits of Entrepreneurship, The Potential Drawbacks of Entrepreneurship, Behind the Boom: Feeding the Entrepreneurial Fire.
4. **The Challenges of Entrepreneurship:** The Cultural Diversity in Entrepreneurship, The Power of “Small” Business, Putting Failure into Perspective, The Ten Deadly Mistakes of Entrepreneurship, How to Avoid the Pitfalls, Idea Discussions & Selection of student Projects, Islamic Ethics of Entrepreneurship.
5. **Inside the Entrepreneurial Mind:** From Ideas to Reality: Creativity, Innovation, and Entrepreneurship, Creativity – Essential to Survival, Creative Thinking, Barriers to Creativity, How to Enhance Creativity, The Creative Process, Techniques for Improving the Creative Process, Protecting Your Ideas, Idea Discussions & Selection of student Projects.
6. **Products and technology, identification opportunities**
7. **Designing a Competitive Business Model and Building a Solid Strategic Plan:** Building a strategic plan, Building a Competitive Advantage, The Strategic Management Process, Formulate

strategic options and select the appropriate strategies, Discussion about execution of Students' Project.

8. Conducting a Feasibility Analysis and Crafting a Winning Business Plan: Conducting a Feasibility Analysis, Industry and market feasibility, Porter's five forces model, Financial feasibility analysis. Why Develop a Business Plan, The Elements of a Business Plan, What Lenders and Investors Look for in a Business Plan, Making the Business Plan Presentation.

9. Building a Powerful Marketing Plan: Building a Guerrilla Marketing Plan, Pinpointing the Target Market, Determining Customer Needs and Wants Through Market Research. Plotting a Guerrilla Marketing Strategy: How to Build a Competitive Edge, Feed Back & Suggestions on Student Project, Islamic Ethics for Entrepreneurial Marketing

10. E-Commerce and the Entrepreneur: Factors to Consider before Launching into ECommerce, Ten Myths of E-Commerce, Strategies for E-Success, Designing a Killer Web Site, Tracking Web Results, Ensuring Web Privacy and Security, Feed Back & Suggestions on Student Project.

11. Pricing Strategies: Three Potent Forces: Image, Competition, and Value, Pricing Strategies and Tactics, Pricing Strategies and Methods for Retailers, The Impact of Credit on Pricing

12. Attracting Venture Capitalist: Projected Financial Statements, Basic Financial Statements, Ratio Analysis, Interpreting Business Ratios, Breakeven Analysis, Feed Back & Suggestions on Student Project,

13. Idea Pitching: Formal presentation, 5-minutes pitch, funding negotiation and launching.

Recommended Books

1. Scarborough, N. M. (2011). Essentials of entrepreneurship and small business management. Publishing as Prentice Hall, One Lake Street, Upper Saddle River, New Jersey 07458..

Suggested Books

1. Burstiner, I. (1989). Small business handbook. Prentice Hall Press.

Course Brief

The Civics and Community Engagement course is designed to provide students with an understanding of the importance of civic participation, culture and cultural diversity, basic foundations of citizenship, group identities and the role of individuals in creating positive change within their communities. The course aims at developing students' knowledge, skills and attitudes necessary for active and responsible citizenship.

Course Learning outcomes

After completing this course, students will be able to

- Understand the concepts of civic engagement, community development, and social responsibility.
- Understand rights and responsibilities of citizenship
- Understand cultural diversity in local and global context
- Analyze the significance of civic participation in promoting social justice, equity, and democracy.
- Examine the historical and contemporary examples of successful civic and community engagement initiatives.
- Identify and assess community needs, assets, and challenges to develop effective strategies for community improvement.
- Explore the ethical implications and dilemmas associated with civic and community engagement.
- Develop practical skills for effective community organizing, advocacy, and leadership.
- Foster intercultural competence and respect for diversity in community engagement efforts.
- Collaborate with community organizations, stakeholders, and fellow students to design and implement community-based projects.
- Reflect on personal growth and learning through self-assessment and critical analysis of community engagement experiences.

Course Content:**Introduction to Civics & Community Engagement**

- Overview of the course: Civics & Community Engagement
- Definition and importance of civics
- Key concepts in civics: citizenship, democracy, governance, and the rule of law
- Rights and responsibilities of citizens

Citizenship and Community Engagement

- Introduction to Active Citizenship: Overview of the Ideas, Concepts, Philosophy and Skills

- Approaches and Methodology for Active Citizenship

Identity, Culture, and Social Harmony

- Concept and Development of Identity, Group identities
- Components of Culture, Cultural pluralism, Multiculturalism, Cultural Ethnocentrism, Cultural relativism, Understanding cultural diversity, Globalization and Culture, Social Harmony,
- Religious Diversity (Understanding and affirmation of similarities & differences)
- Understanding Socio-Political Polarization
- Minorities, Social Inclusion, Affirmative actions

Multi-cultural society and inter-cultural dialogue

- Inter-cultural dialogue (bridging the differences, promoting harmony)
- Promoting intergroup contact/ Dialogue
- Significance of diversity and its impact
- Importance and domains of Inter-cultural dialogue

Active Citizen: Locally Active, Globally Connected

- Importance of active citizenship at national and global level
- Understanding community
- Identification of resources (human, natural and others)
- Utilization of resources for development (community participation)
- Strategic planning, for development (community linkages and mobilization)

Human rights, constitutionalism and citizens' responsibilities

- Introduction to Human Rights
- Human rights in constitution of Pakistan
- Public duties and responsibilities
- Constitutionalism and democratic process

Social Institutions, Social Groups, Formal Organizations and Bureaucracy

- Types of Groups, Group identities, Organizations
- Bureaucracy, Weber's model of Bureaucracy
- Role of political parties, interest groups, and non-governmental organizations

Civic Engagement Strategies

- Grassroots organizing and community mobilization
- Advocacy and lobbying for policy change
- Volunteerism and service-learning opportunities

Social issues/Problems of Pakistan

- Overview of major social issues of Pakistani society

Social Action Project

Recommended Books

1. Kennedy, J. K., & Brunold, A. (2016). Regional context and Citizenship education in Asia and Europe. New York: Routledge, Falmer.
2. Henslin, James M. (2018). Essentials of Sociology: A Down to Earth Approach (13th ed.). New York: Pearson Education
3. Macionis, J. J., & Gerber, M.L. (2020). Sociology. New York: Pearson Education

Suggested Books

1. Glencoe McGraw-Hill. (n.d.). Civics Today: Citizenship, Economics, and Youth.
2. Magleby, D. B., Light, P. C., & Nemacheck, C. L. (2020). Government by the People (16th ed.). Pearson.
3. Sirianni, C., & Friedland, L. (2005). The Civic Renewal Movement: Community-Building and Democracy in the United States. Kettering Foundation Press.
4. Bloemraad, I. (2006). Becoming a Citizen: Incorporating Immigrants and Refugees in the United States and Canada. University of California Press.
5. Kuyek, J. (2007). Community Organizing: Theory and Practice. Fernwood Publishing.
6. DeKieffer, D. E. (2010). The Citizen's Guide to Lobbying Congress. TheCapitol.Net.
7. Rybacki, K. C., & Rybacki, D. J. (2021). Advocacy and Opposition: An Introduction to Argumentation (8th ed.). Routledge.

8. Kretzmann, J. P., & McKnight, J. L. (1993). *Building Communities from the Inside Out: A Path Towards Finding and Mobilizing a Community's Assets*. ACTA Publications.
9. Patterson, T. E. (2005). *Engaging the Public: How Government and the Media Can Reinvigorate American Democracy*. Oxford University Press.
10. Love, N. S., & Mattern, M. (2005). *Doing Democracy: Activist Art and Cultural Politics*. SUNY

Translation of the Holy Quran – I		URCG-5111	Non-Credit
Topic	Details		
Semester/Level	In some discipline 1 st semester and in some discipline 2 nd Semester/ ADP Program 1 st Year		
Course Code	URCG-5111		
Course Title	Translation of the Holy Quran – I		
Credit Hours	Non-Credit		
Objectives	<ul style="list-style-type: none"> • To familiarize the students to keys and fundamentals of recitation of the holy Quran. • To develop the skill of the students of recitation the last revelation. • Students will learn the basic Arabic grammar in a practical way. • To develop an eagerness among the students to explore the last divine Book. 		
Course Contents:	<ul style="list-style-type: none"> • نئی سواں پارہ - ناظرہ مع تجوید • بیژادی عربی گرامر <p>اسم اور اسکے متعلقات : اسم فاعل ، مفعول ، مفعول ، مبالغہ فعل اور اسکی اقسام : ماضی ، مضارع ، امر ، نہی حرف اور اسکی اقسام : حروف علت ، حروف جارہ ، مشبہ بالفعل نئی سواں پارے کی آخری بیس سورتوں (حفظ مع ترجمہ)</p>		
Memorization:			

Translation of the Holy Quran- II		URCG-5111	Non-Credit
Topic	Details		
Semester/Level	In some discipline 3 rd semester and in some discipline 4 th Semester/ ADP Program 2 nd Year		
Course Code	URCG-5111		
Course Title	Translation of the Holy Quran – II		
Credit Hours	Non-Credit		
Objectives	<ul style="list-style-type: none"> ▪ Students will come to know about the real nature, significance and relevance of the Islamic beliefs in light of the text of the Holy Quran. ▪ Students will seek knowledge of translation and transliteration of the Holy Book Quran. ▪ To familiarize the students with the concept of Ibādah (Its significance, scope and relevance) and its types in Islam. ▪ Students will learn literal and idiomatic way of translation of the Holy Book. ▪ Students will learn about the polytheism and its incompatibility in Islam highlighted by the Holy Quran. ▪ To highlight the significance of learning through using all human faculties provided by the almighty Allah and familiarize the students about condemnation of ignorance mentioned in the Quranic text. ▪ To develop Awareness among the students about rights and duties of different circles of society in the light of Holy Quran. ▪ To introduce the students to Quranic Arabic grammar in practical manner. 		

<p>Course Contents:</p>	<ul style="list-style-type: none"> ○ ایمانیت اور عبادات بلا پر ایمان، فرشتوں پر ایمان، رسولوں پر ایمان، آسمانی کتابوں پر ایمان يوم آخرت پر ایمان، تئدیہ پر ایمان نماز ،روزہ، زکوٰۃ، حج، جہاد ○ معاشرے کے حقوق خانہ دان کی نکوین • حق مہر • رضاعت و حمل • اولد کو نئل کرنے کے ممانعت • شوہر کی نافرمانی • طالق • بیوہ کی عدت کے احکام • نکاح کا پیغام بھیجنا • عورت کی وراثت (اس کے شوہر کی طرف سے) • والدین کے حقوق • بیویوں اور اولد کے بیچ عداوت ○ خاندان کے حقوق • مہمان کی عزت • اجازت طلب کرنے کے اصول • مچاس کے آداب • تعاون اور باہائی چارہ • گروہ بزدی • محبت • لوگوں کے درمیان صلح • غنہ و درگزر، غصہ پر قابو اور مہاف کرنا • شعوب و نیاہل • لوگوں کے بیچ اخلافات • حمايت و نگہبازی
<p>Grammar:</p>	<ul style="list-style-type: none"> • قرآنی عربی گرامر کے اصول اور ازکے اطالقات (مئن قرآنی پر اطالق سے

	توضیحات)
<p>Details of Chapters and verse Numbers:</p>	<ul style="list-style-type: none"> ▪ من تخب آیات مع ترجمه و تفسیر ▪ البقره ((۱۱۷، ۲۳۸، ۴۵، ۱۱۸، ۲۷۸، ۱۷۷، ۴۵، ۳۴۷، ۱۵۸، ۱۷۱، ۴۲۸، ۵۳، ۴۲۸، ۴۷، ۲۸۷، ۲۳۸، ۳۴۸، ۲۲، ۸۲، ۲۸۷، ۴۲۸، ۲۴۸، ۱۱۷، ۲۳۷، ۲۲۷، ۱۱۸، ۵۲۷، ۳۲۷، ۲۷۸، ۲۴۷، ۲۲۷، ۷۵۸، ۱۸۸، ۲۸۸، ۱۳۸، ۲۸۸، ۱۳۸، ۲۸۸، ۲۸۸، ۷۳۸، ۱۳۸، ۴۳۸، ۱۳۸، ۸۲، ۵۲۷، ۳۳۸، ۸۲۷، ۱۲۷، ۳۲) ▪ النساء (۴۲، ۸۲، ۲۴، ۲۳۷، ۲۲، ۱۲، ۳۷، ۲۲، ۱۲، ۲۲، ۲۳، ۲۱۷، ۸۷، ۴۳، ۲۸۷، ۵۳، ۷۷، ۵، ۲۱۷، ۵۸، ۴۸، ۷۷، ۷۷، ۲۸۷، ۷۲۷، ۴۳، ۱۸، ۷۲۷، ۲، ۷، ۱۸، ۷، ۲۷، ۲۵۷، ۵۴، ۲۸۷، ۷۲) ▪ النعام (۸۸، ۸۲، ۵۷، ۱۳۷، ۷۴۷، ۲۵، ۵۴) ▪ آل عمران (۱۲، ۲۳، ۴۲، ۴۸۷، ۵۲، ۵۵۷، ۲۷، ۷) ▪ المائدہ (۵۴، ۸، ۸۲، ۲۳، ۲۷، ۸، ۴) ▪ العراف (۴۳، ۲۲۷، ۲۲۷) ▪ التوبه (۱۸، ۲۷، ۷۱) ▪ يود (۸۷) ▪ الزمر (۲) ▪ الذور (۵۴، ۸۴، ۲۸، ۱۸، ۱۲، ۲۸) ▪ محمد (۳۳) ▪ انزال (۸۲، ۱۸) ▪ الرعد (۳) ▪ الطالق (۵) ▪ الحج (۴) ▪ ابراهيم (۳۸، ۵۵) ▪ السراء (۳۸، ۵۸) ▪ الحقاف (۴۷) ▪ المؤمنون (۱۸) ▪ المذكبات (۲، ۴۸، ۲۵) ▪ النحل (۸۸) ▪ لقمان (۵، ۴۷، ۵۷) ▪ الحزاب ((۴۳، ۲۳، ۱۴، ۲۵) ▪ الشعراء (۱) ▪ الروم (۷۸) ▪ مریم (۲۸، ۵۷) ▪ المجادلہ (۸۷، ۷۷)

Translation of the Holy Quran - III

URCG-5111 Non-Credit

Topic	Details
Semester/Level	In some discipline 5 th semester and in some discipline 6 th Semester/ BS (5 th Semester intake) 1 st / 2 nd
Course Code	URCG-5111
Course Title	Translation of the Holy Quran - III
Credit Hours	Non-Credit
Objectives	<ul style="list-style-type: none"> • To introduce ethics and highlight its importance, need and relevance for individual and collective life. • To illuminate the students with the Quranic norms of Morality i.e. truthfulness, patience, gratitude, modesty, forgiving, hospitality etc. • To familiarize the students with immoral values like falsify, arrogance, immodesty, extravagance, backbiting etc. • To inculcate ethical and moral values in our youth. • To develop a balanced dynamic and wholesome personality. • To introduce the students to Quranic Arabic grammar in practical manner.

<p>Course Contents:</p>	<p>○ اخلاق (تعارف، ضرورت و اہمیت، اقسام، معنویت) اخلاقِ حسنہ :</p> <ul style="list-style-type: none"> • برائی کو نزکی سے مٹانا • نزکی کے کاموں میں مسابقت • لوگوں کے درمیان صلح • عدل و انصاف • سچائی • ایثار • سلیم قلب • مہمان نوازی • لغویات سے اعراض • عاجزی و ازکساری • نگاہ اور آواز کو بہت رکھنا • چال میں مہانہ روی • شرمگاہوں کی حفاظت • صبر • شکر • امور میں مہانہ روی <p>اخلاقِ سرکش :</p> <ul style="list-style-type: none"> • ظلم اور زیادتی • غرور و تکبر • نفسانی خواہشات کی پیروی • بدگمانی • جھوٹ • چغلی اور نیمت • تمسخر اور شیخی خوری • لہو و لعب • برے ناموں سے پکارنا • احسان چنانا اور تکلیف دینا • فضول خرچی اور حد سے بڑھنا • حسد اور نزگ دل • بے پردگی
<p>Grammar:</p>	<ul style="list-style-type: none"> • قرآنی عربی گرامر کے اصول اور ان کے اطلاقات (مبن قرآنی پر اطلاق سے توضیحات)

<p>Details of Chapters and Verse Numbers:</p>	<ul style="list-style-type: none"> ▪ جزئ خب آیات مع ترجمه و تجوید ▪ البقره (۸۷۷، ۴۵۸، ۳۲، ۸۲۷، ۸۱۷، ۸۴۷، ۸۱۷، ۸۱۷، ۸۱۷، ۳۴۷، ۱۱۷، ۱۴۸، ۴۸۷، ۸۸۸، ۱۸، ۱۱، ۸۲۷، ۲۵۷، ۱۲۷، ۱۲۷، ۲۱۷، ۵۲۸، ۳۲۸، ۸۲۸، ۸۷۸، ۱۲، ۷۳۸، ۱۷، ۵۳، ۵۸۷، ۲۴۸، ۱۸، ۷۱، ۳۲، ۲۸۸، ۴۲۷، ۲۱) ▪ آل عمران (۵۴۷، ۵۷، ۵۸، ۴۲۷، ۸۳۷، ۲۵۷، ۵۳۷، ۴۵۷، ۱۷، ۱۱۸، ۴۸۷، ۳۳۷، ۵۷۷، ۵۱۷، ۵۱۷، ۲۸، ۲۱، ۷۵۷، ۱۵۷، ۲۴۷) ▪ النساء (۴۳۷، ۳۸، ۸۸، ۲۱۷، ۱۱۷، ۴۱۷، ۵۴، ۱۸، ۱۸، ۳۱۷، ۲۳، ۴۸، ۵۸، ۱۵، ۵۸، ۱۴) ▪ المائده (۲۴، ۱۴، ۳۲، ۳۷، ۲، ۷۵، ۲۷) ▪ النحل (۱۲، ۲۸۷، ۴۱۷، ۳۷۷، ۱۳، ۲۸۷، ۴۸۷) ▪ الرعد (۴۸، ۱۸، ۵۸، ۸۸، ۲) ▪ العراف (۷۳، ۲۲، ۷۴، ۲۵۷، ۱۵، ۵، ۱۸، ۵۵۷، ۲۲۷، ۴۲، ۷۲) ▪ القصص (۵۴، ۵۲) ▪ فصلت (۵۳) ▪ النعمان (۸۳، ۱۱، ۱۱، ۱۳۷، ۴۴۷، ۱۲۷) ▪ النمل (۱۲، ۲۵) ▪ الحج (۱۳، ۲۴، ۱۲، ۲۲، ۱۱) ▪ الحجرات (۲، ۷۷، ۲، ۷۷، ۳، ۸۷، ۴۷، ۱۷) ▪ الحزاب (۳۸، ۱۴، ۲۴، ۲۴، ۸۴، ۴۴، ۲۴، ۴۳، ۵۸، ۴۳) ▪ الحشر (۲) ▪ طه (۸۱) ▪ النعمان (۵۲۷، ۷۵۷، ۲۷۷، ۷۴۷، ۳۲، ۱۸۷) ▪ ق (۵۳) ▪ الزفال (۱۸، ۲۵، ۷۲) ▪ الفتح (۴۷) ▪ يونس (۱۷، ۲۷، ۸۷، ۲۲، ۸۸، ۸۸) ▪ الفرقان (۳۲، ۷۸، ۱۲، ۳۲) ▪ الزور (۳۸، ۲، ۵، ۱۳، ۷۳، ۳۳، ۳۳، ۷۲، ۷۳، ۸۸) ▪ لقمان (۲، ۳۳، ۲۷، ۸۳، ۲۷) ▪ السراء (۱۳، ۱۷۷، ۴، ۱۳) ▪ المزمل (۲۷) ▪ المدثر (۲، ۵) ▪ المدثر (۵۱) ▪ فاطر (۸۳) ▪ الفتح (۲۸) ▪ البائد (۱۷) ▪ الزمر (۳، ۱۷) ▪ الحجر (۴۲) ▪ النجم (۷۳) ▪ البرج (۱۲) ▪ هود (۲، ۸۱۷، ۳) ▪ الكهف (۸، ۲۴) ▪ الشورى (۱۳) ▪ غافر (۲۸، ۱۸) ▪ الحديد (۱۸، ۱۸) ▪ مرزم (۲۴) ▪ النازعات (التوبه) (۴۲، ۵۲، ۱۱) ▪ الهمزه (۷)
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	<ul style="list-style-type: none"> ▪ النوبة (٢٢، ٥٨، ٢٢، ٥٨، ١٢، ٥) ▪ العراف (١٧، ٨١٧، ٤٢٧، ١٤، ٢٤، ٣٢٧، ٣٢٧، ١٥، ١٢٧، ٣٣٧، ٢١٧، ٢٢٧) ▪ الرعد (١٧، ٥) ▪ الطور (٥٥) ▪ النعام (٢٤، ٣٢، ٧٥٧، ٢٥٧، ٢٣) ▪ الزفال (٢٨، ٢٣، ٧٥)
	<ul style="list-style-type: none"> ▪ الكهف (٧٤، ٢١٧، ١٥، ٨٣، ٤٥، ١٧، ٤٥) ▪ الجاثية (٤) ▪ فاطر (١٨، ٨٧، ٣٧) ▪ العنكبوت (١٨، ٣٢، ٧٥) ▪ الروم (١٤) ▪ السراء (١١، ٢٢) ▪ الرعد (٨) ▪ السبا (١٧، ٣، ٨٨) ▪ يونس (٢٢، ٧١٧، ٥٨، ٥٨، ٤، ٨٨) ▪ يوسف (٥٢، ٥٧) ▪ الفرقان (٨٢، ٣٤) ▪ لقمان (٢٨، ٢٧) ▪ طه (٥٧٧، ٣٤) ▪ النحل (٤١، ٧٧، ٧٢، ٢٥، ٢١، ٢٢، ٢٢، ٤٧٧، ٢، ٢) ▪ النمل (٥٢، ٥٢، ٢٢، ١٢، ٨٢، ٢٧، ١٧، ٢٧) ▪ السجده (١٨) ▪ الحديد (٢) ▪ هود (٣٥، ٢) ▪ يرين (١٣، ٧٥) ▪ الروم (٢٣، ٢٣، ١٤، ٢٧، ٥٨، ٢٥) ▪ فصلت (٢٣، ٢٣) ▪ الحج (٧٢، ٤٢، ٨٨، ٣١) ▪ الحجر (٢٧، ٨٨) ▪ النبياء (٧٣، ١٣، ١٥) ▪ الزاريات (١٥) ▪ الزلزله (٧) ▪ القصص (٢١، ٢١، ١٢، ٧٢، ٨٢) ▪ الزور (١٣، ٨٨، ٨٨، ١٥، ٤٥، ٣٥) ▪ الجمعه (٧٧، ٨٢، ١٧، ٧٧، ٤) ▪ القمر (١) ▪ الواقع (٢٢) ▪ الفاطر (١٨، ٣٧) ▪ الملك (٢٧) ▪ الصف (١٧) ▪ الجن (٣٧) ▪ الثور (٢٨) ▪ الزخرف (٧٧) ▪ الفول (٧)

مطالعہ سیرت النبی صلی اللہ علیہ وسلم Seerat of the Holy Prophet

Course Code

URCG-5127

Title	Description
Semester	
Nature of Course	
No. of C.Hrs.	1(1-0)
Total Teaching weeks	18
Objectives of the Course	<p>۱۔ طلباء کو مطالعہ سیرت طیبہ کی ضرورت و اہمیت سے آگاہ کرنا</p> <p>۲۔ تقییر شخصیت میں مطالعہ سیرت طیبہ کے کردار کو واضح کرنا</p> <p>۳۔ بیعت نبوی کے موقع پر اقوام عالم کی عمومی صورت حال سے آگاہ کرنا</p> <p>۴۔ رسول اکرم صلی اللہ علیہ وسلم کی سنی اور مدنی زندگی کا اس طرح مطالعہ کروانا کہ طلباء ان واقعات سے متاثر ہو کر استنباط کر سکیں</p> <p>۵۔ طلباء کو محمد نبوی کی معاشرت، سیاست، معیشت سے آگاہ کرنا</p>

Course Description

S.No.	Title	Description
1	حضور صلی اللہ علیہ وسلم کے ابتدائی حالات زندگی	<p>۱۔ حضور صلی اللہ علیہ وسلم کا خاندانی حسب و نسب</p> <p>۲۔ پیدائش اور ابتدائی تربیت</p> <p>۳۔ لڑکپن اور جوانی کے حالات زندگی</p>
2	بیعت نبوی کے وقت دنیا کے حالات (۱)	<p>۱۔ بیعت نبوی کے وقت اہم تہذیبیں</p> <p>۲۔ عرب، مصر، حبشہ، ہندوستان، ساسانی</p>
3	بیعت نبوی	۱۔ سنی محمد میں دعوت اسلام
4	بیعت نبوی	۱۔ مدنی محمد میں دعوت اسلام
5	خصائص النبیؐ	آپ کی طور پیتھیا میر امن
6	خصائص النبیؐ	بعثت استاد و معلم
7	خصائص النبیؐ	بعثت تاجر
8	خصائص النبیؐ	بعثت سربراہ ریاست
9	خصائص النبیؐ	ذاتی محاسن اور معاشرتی اثرات

10	مخاصص النبوی	ناموس رسالت
11	اسوہ حسنہ اور عمر حاضر	غیر مسلموں سے تعلقات
12	اسوہ حسنہ اور عمر حاضر	اسوہ حسنہ کی روشنی میں گھریلو زندگی
13	اسوہ حسنہ اور عمر حاضر	مستشرقین اور مطالعہ ہیرت
15	اسوہ حسنہ اور عمر حاضر	وطن سے محبت اور ہیرت
16	اسوہ حسنہ اور عمر حاضر	مستشرقین کے اعتراضات اور ان کے جوابات

نصابی کتب

نمبر شمار	نام مولف	نام کتاب
1	ابن ہشام	السیرۃ النبویہ
2	مولانا شبلی نعمانی، سید سلمان ندوی	سیرۃ نبوی صلی اللہ علیہ وسلم
3	قاضی محمد سلیمان سلمان منصور پوری	رحمۃ العالمین
4	مولانا سید ابوالحسن علی ندوی	نبی رحمت صلی اللہ علیہ وسلم
5	ڈاکٹر یسین مظہر صدیقی	عہد نبوی کا نظام حکومت
6	ڈاکٹر خالد علوی	السان کامل

حوالہ جاتی کتب

نمبر شمار	نام مولف	نام کتاب
1	سید ابوالاعلیٰ مودودی	ہیرت سرور عالم صلی اللہ علیہ وسلم
2	مولانا صفی الرحمن مبارکپوری	الرحیق المختوم
3	پیر محمد کرم شاہ الازہری	ضیاء النبوی صلی اللہ علیہ وسلم
4	ڈاکٹر اکرم الشیخ، العری	السیرۃ النبویہ الصحیحۃ
5	مولانا سعید الرؤف دانا پوری	اصح السیر

