University of Sargodha
Department of Economics
Scheme of Studies of Associate Degree in Economics (2-years) Program

Program Learning Objectives: Associate Degree program is designed for those students who, after completing their 12 years of education, are looking for some knowledge based, career oriented and market determined educational program in the field of Economics. The program is the blend of different courses like theoretical, quantitative, and applied areas in economics, which will enable the students to review, analyze and provide solutions to complex problems of households, nations as well as global level with intellectual independence. The main purpose is to achieve the highest possible standards of education, teaching and research in economics. More specific goals are:

1. Encourage intellectual development and scholarship in economics.
2. Impart sound theoretical and applied knowledge of Economics.
3. Develop awareness in students to prepare themselves for national and international challenges.
4. Develop an ability in students to become effective independent researchers and learners.
5. Develop curriculum as per market needs and demand of institutions and society; considering the changing global and national requirements.
6. Prepare students to enhance knowledge and welfare of the society.

Program Structure:

Duration	Minimum 2-Years (4 Semesters), Maximum 3-Years (6 Semesters)
Admission Requirements	At least 45% marks in HSSC (Part-I / II) (FA, FSc, ICS, I.Com, D.Com), DAE (1st & 2nd Year) or Equivalent qualification
Degree Completion Requirements	Degree Requirements: 60-72 Credit Hours

Semester-I

Category	Course Code	Name of Subject	Credits	Pre-Requisite
GE-I	URCG-5118	Functional English	3(3-0)	Nil
GE-2	URCG-5105/ URCG-5126	Islamic Studies Ethics (For Non-Muslims Students)	2(2-0)	Nil
GE-3	URCG-5123	Applications of Information Communication Technologies (ICTs)	3(2-1)	Nil
Major-1	ECON 5101	Principles of Micro Economics	3(3-0)	Nil
Major-2	ECON 5102	Principles of Macroeconomics	3(3-0)	Nil
Major-3	ECON 5103	Islamic Economics	3(3-0)	Nil

Semester Total Credit Hours: 17

Semester-II

Category	Course Code	Name of Subject	Credits	Pre-Requisite
GE-4	URCG-5111	Translation of Holy Quran-I (for Muslims Students Only)	NC	Nil
GE-5	URCG-5112	Fables, Wisdom, and EPICS	2(2-0)	Nil
GE-6	URCG-5116	Sciences of Society I	2(2-0)	Nil
GE-7	URCG-5120	Exploring Quantitative Skills	3(3-0)	Nil
GE-8	URCG-5127	Seerat of the Holy Prophet (SAW) (for Muslims Students Only)	01(1-0)	Nil
Major-4	ECON 5104	Intermediate Microeconomics	3(3-0)	ECON-5101
Major-5	ECON 5105	Intermediate Macroeconomics	3(3-0)	ECON-5102
Major-6	ECON 5106	Mathematical Economics-I	3(3-0)	Nil

Semester Total Credit Hours: 17

Semester-III

Category	Course Code	Name of Subject	Credits	Pre-Requisite
GE-9	URCE-5119	Expository Writing	3(3-0)	Nil
GE-10	URCG-5121	Tools for Quantitative Reasoning –I	3(3-0)	URCG-5120
GE-11	URCG-5122	Ideology and Constitution of Pakistan	2(2-0)	Nil
Major-7	ECON 5107	Statistics for Economics-I	3(3-0)	Nil
Major-8	ECON 5108	Development Economics	3(3-0)	Nil
Major-9	ECON 5109	Political Economy and Global Order	3(3-0)	Nil

Semester Total Credit Hours: 17

Semester-IV

Category	Course Code	Name of Subject	Credits	Pre-Requisite
GE-4	URCG-5111	Translation of Holy Quran-II (for Muslims Students Only)	NC	
GE-12	URCG-5114	Course-I: 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	ECON 5110	Statistics for Economics-II	3(3-0)	ECON-5107
Major-11	ECON 5111	Agriculture Economics	3(3-0)	Nil
Major-12	ECON 5112	Environmental Economics	3(3-0)	Nil

Semester Total Credit Hours: 16
Degree Program Total: 67

URCG-5118   **Functional English**   **3(3+0)**

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 writing skills. 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 Texts

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 Readings

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

URCG-5105   **Islamic Studies (Compulsory)**   **2(2-0)**

Introductory/compulsory foundation course

Islamic Studies engages in the study of Islam as a textual tradition inscribed in the fundamental sources of Islam; Qur'an and Hadith, history and particular cultural contexts. The area seeks to provide an introduction to and a specialization in Islam through a large variety of expressions (literary, poetic, social, and political) and through a variety of methods (literary criticism, hermeneutics, history, sociology, and anthropology). It offers opportunities to get fully introductory foundational bases of Islam in fields that include Qur'anic studies, Hadith and Seerah of Prophet Muhammad (PBUH), Islamic philosophy, and Islamic law, culture and theology through the textual study of Qir'an and Sunnah..

- To make students understand the relevance and pragmatic significance of Islam in their lives.
- To make learners comprehend the true spirit of Islam with reference to modern world.
- To generate a sense of Islamic principles as a code of living that guarantee the effective solutions to the current challenges of being.
- To provide Basic information about Islamic Studies
- To enhance understanding of the students regarding Islamic Civilization
- To improve Students skill to perform prayers and other worships
- To enhance the skill of the students for understanding of issues related to faith and religious life.

Contents
 Introduction to Qur'anic Studies
1) Basic Concepts of Qur'an
2) History of Quran

3) Uloom-ul-Quran

مطالعہ قرآن (تعارف قرآن ، منتخب آیات کا ترجمہ و تفسیر: سورۃ البقرہ آیات 1-5، 284-286؛ سورۃ الحجرات آیات 1-18؛ ،سورۃ الفرقان آیات 63-77؛ سورۃ المومنون آیات 1-11؛ ،سورۃ الاحزاب آیات 6، 21، 32- 33؛، 40، 56- 59؛ سورۃ الانعام آیات   151-153؛، سورۃ الصف آیات 1- 14؛ الحشر آیات 18- 20؛ آل عمران آیات 190- 192؛ النحل آیات 12-14؛ لقمن آیت 20، حم السجدہ آیت 53)

 Introduction to Sunnah
1) Introduction of Hadith
2) Legal Status of Hadith
3) History of the compilation of Hadith
4) Kinds of Hadith

حدیث کا تعارف، حدیث کی دینی حیثیت، حفاظت و تدوین حدیث، حدیث کی اقسام
متن، حدیث: 1درج ذیل موضوعات پر احادیث کا مطالعہ
1۔ اعمال کا اجر نیت پر منحصر ہے۔ 2۔ بہترین انسان قرآن کا طالب علم اور اس کا معلم ہے۔3۔کتا ب وسنت گمراہی سے بچنے کا ذریعہ ہیں4۔ ارکان اسلام 5۔ اسلام ، ایمان ، احسان اور قیامت کی نشانیاں، 6بچوں کی نماز کی تلقین 7۔ دین کا گہرا فہم اللہ کی خاص عنایت ہے 8۔ حصول علم، تلاوتِ قرآن اور عمل کی اہمیت و فضیلت، 9 ۔روز محشرکا محاسبہ، 10۔ حقوق اللہ کے ساتھ ساتھ حقوق العباد کا لحاظ رکھنا بھی لازم ہے11۔ حسن خلق کی عظمت اور فحش و بد گوئی کی مذمت 12۔ دنیا و آخرت کی بھلائی کی ضامن چار چیزیں، 13۔ ہلاک کر دینے والی سات چیزیں،14۔ بے عمل مبلغ کا عبرت ناک انجام 15۔ ہر شخص نگران ہے اور ہر شخص مسئول

1) Sirah of the Prohet
2) Importance of the Study of Sirah
3) Character building method of the Prophet

(سیرت النبیﷺ(مطالعہ سیرت کی ضرورت و اہمیت ، تعمیر ،سیرت و شخصیت کا نبوی منہاج اور عملی نمونے ، اقامت دین کا نبوی طریق کار، اقامتَ دین بعہدِ خلافت راشدہ، میثاق مدینہ ، خطبہ حجۃ الوداع، اخلاقی تعلیمات ، تشکیل اجتماعیت اور اسوہ حسنہ ،قرآن مجید میں سیرت سرور عالم کا بیان، غزواتِ نبوی ﷺ کے مقاصد و حکمتیں)

 Islamic Culture & Civilization
1) Basic Concepts of Islamic Culture & Civilization
2) Historical Development of Islamic Culture & Civilization
3) Characteristics of Islamic Culture & Civilization
4) Islamic Culture & Civilization and Contemporary Issues

4۔ اسلامی تہذیب و تمدن (اسلامی تہذیب کا مفہوم، اسلامی کے عوامل و عناصر، اسلامی تہذیب کی خصوصیات، ، اسلامی تہذیب ، علمی ، معاشرتی اور سماجی اثرات ، تہذیبوں کے تصادم کے نظریے کا تنقیدی جائزہ، تہذیبی تصادم کے اثرات و نتائج، طبعی ، حیاتیاتی اور معاشرتی علوم میں مسلمانوں کا کردار، نام ور مسلمان سائنسدان)

Pre-Requisite: Nil

Recommended Books
1) Hameed ullah Muhammad, ―Emergence of Islam‖ , IRI, Islamabad
2) Hameed ullah Muhammad, ―Muslim Conduct of State
3) Hameed ullah Muhammad, ‗Introduction to Islam
4) Ahmad Hasan, ―Principles of Islamic Jurisprudence‖ Islamic Research, Institute, International Islamic University, Islamabad (1993)
5) Dr. Muhammad Zia-ul-Haq, ―Introduction to Al Sharia Al Islamia‖ Allama Iqbal Open University, Islamabad (2001)
6) Dr. MuhammadShahbaz Manj, Teleeemat-e- Islam

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

ECON 5101   **Principles of Micro Economics**   **3(3+0)**

The course is designed for the beginners with either no formal background or very little acquaintance with economics. The objective is to give the students with a clear understanding of the basic concepts, tools of analysis and terminologies used in microeconomics. Emphasis will be on the use of graphs, diagrams and numerical tables/schedules for exposition. The teacher is expected to draw examples from the surrounding world to clarify the concepts.

Contents
1. Introduction
    a) An overview of the social system, Economy as integral part of the social system
    b) Economic agents and economic problem
    c) Classification of economics, Importance and scope of micro-economics, Basic concepts
2- The Price Mechanism
    a) The concept of a market economy, Laws of demand and supply
    b) Market equilibrium and determination of price
    c) Concept of elasticity of demand and supply, Importance of elasticity.
3- Consumer's Behaviour
    a) Consumers/ households as economic agents, Problem of the consumers, The utility theory
    b) Laws of diminishing marginal utility and equi-marginal utilities,
    c) Budget constraint and consumer's equilibrium, Individual demand and market demand
4- Firms and Industries
    a) Business enterprises, Forms of business organization: Proprietorship, Partnership, Joint stock companies, Multi-national corporations,
    b) Classification of the firms, Production and supply of commodities Objectives of the firm
    c) Output maximization and cost minimization, Industrial structure & market supply.
5- Production and Cost Functions
    a) Production function, Primary inputs: factors of production, Secondary/intermediate inputs
    b) The laws of returns, Revenues of the firm
    c) Cost function Short-run and Long-run costs, Equilibrium of the firm.
6- Market Structure
    a) Classification of markets i.e. Perfect competition, Imperfect competition: Monopoly and Monoposony, Monopolistic competition
    b) Price determination

Recommended Book
1. Mankiw, G. - Principles of Economics – Latest Edition, South-West Publishers.
2. Samuelson and Nordrons - Economics –Latest Edition- McGraw Hill.

Suggested Books
1. McConnel and Bruce - Principles of Economics -17thEdition (2006)- McGraw Hill.
2. Lipsey and Goerant-Principles of Economics-10thEdition (2003)- Oxford University Press

ECON 5102   **Principles of Macro Economics**   **3(3-0)**

The course is designed for the beginners with no formal background or little acquaintance with economics. The objective is to give the students with a clear understanding of the basic concepts, tools of analysis and terminologies used in macroeconomics. Emphasis will be on the use of graphs, diagrams and numerical tables/schedules for exposition. The teacher is expected to draw examples from the surrounding world to clarify the concepts.

Contents

1. Introduction
    a) The economy in aggregate, Complexities of the world of business, Scope of macroeconomics
    b) Brief account of the development of macro-economics after the World War-II
    c) Concept of business cycles, Concepts of Inflation and Unemployment
    d) Macroeconomic variables and their mutual relationship, Macro-models
2. National Income
    a) Definition and various concept of national income, Measures of national income
    b) Computation of national income: Product, Income and Expenditure approaches
    c) Circular flow of income, Nominal versus Real income, Per capita income and the standard of living

3. Components of Aggregate Demand
   a) The Concept of Open and closed economy models
   b) Concept of aggregate markets: Product, Money, Labor and Capital markets
   c) Components of aggregate demand: Consumption, Investment and Government spending
4. Money and Banking
   a) Money: definition, forms and functions
   b) Central Bank and its functions with reference to the State Bank of Pakistan, Commercial banking
   c) The Quantity Theory of money, Inflation: measurement and impacts, causes of inflation and remedies
   d) Monetary policy: brief introduction
5. Public Finance and Taxation
   a) Sources of public revenue, Various forms of taxes
   b) Major heads of public expenditure, Revenue and Capital account, Concept of budget deficits
   c) Sources of filling the gaps, Deficit financing, Fiscal policy: meaning and objectives.
6. International Trade
   a) Global distribution of resources, Concept of imports and exports,
   b) Theory of absolute and comparative advantage, Currency exchange rates,
   c) Balance of Payments: causes of deficits in BOP of Pakistan and remedial measures,
   d) Custom Unions, The problem of external debt, Commercial Policy: objectives and scope

Recommended Books
> 1. Mankiw, G–*Principles of Economics*-(Latest Edition)- South-West Publishers.
> 2. Samulson and Nordrons - *Economics* –18thEdition (2004)- McGraw Hill. Inc.

Suggested Books
> 1. Parkin, Michael - *Macroeconomics*, 7thEdition (2004)- Prentice Hall.
> 2. Miller, R.L. *Economics Today* -14thEdition (2005) - Addison Wesley.

ECON 5103   Islamic Economics   3(3-0)
The objective of this course is to let them realize that Islam provides full guidance to its followers in all spheres of social life. The students have to understand the Islamic injunctions ordained for economic behavior, both in the individual as well as collective capacity. They have to compare the prevailing system with that devised by Islam, to capture the socio-economic problems faced by the present-day Muslim countries and to find ways and means to reconstruct the system in vogue according to Islamic guidelines.

Content
1. Introduction Islamic Economics
   a) Islamic Economics Versus Secular Economics, foundations, Basic Values of Islam,
   b) The lawful and unlawful (Halal and Haram).

2. Islamic Economic Thought
   a) Contribution of prominent scholars (Imam Abu Yousuf, Imam Abu Ubaid Al-Qasim, Ibne-Khuldoon, Imam Ibn-e-Taimiyah, Shah Walliullah Dehlawi, Maulana Maududi, Baqar-al-Sadaretc).

3. Microeconomics in Islamic Framework
   a) Consumer's Behavior
   b) Firm's Behavior
   c) Market structure
6. Macroeconomics in Islamic Framework.
   a) Basic Macroeconomics concepts (i.e. Consumption, Saving, Investment, Inflation, Unemployment, etc.)
   b) Money, Banking and Monetary Policy (i.e. Interest, Modes of financing, central banking, etc.)
   c) Public Finance and Fiscal Policy (i.e. Sources of revenues, heads of expenditures, Zakah, etc.)
7. Islamic Economic System
   a) Salient features of an Islamic Economic System
   b) The institution of Zakah and Bait-ul-Mal, Wider circulation of wealth.

8. Islamization Process in Pakistan
   a) Islamization of the banking and financial system
   b) Islamic Banking practice and the role of the State Bank of Pakistan

Recommended Books
1. Ahmed, Khurshid, *Studies in Islamic Economics*. (King Abdul Aziz University Press. 1980)
2. Ziauddin et al., *Money and Banking in Islam*. (King Abdul Aziz University Press, 1983) Islamabad.

Suggested Books
1. Siddiqui, M.N., *Issues in Islamic Banking*, (The Islamic Foundation, 1983)
2. Iqbal, Munawar, *Distributive Justice and Need Fulfillment in an Islamic Economy* – (International Islamic University,1986)

URCG-5111   **Translation of the Holy Quran – I   01(Non-Credited)**

Topic	Details
Semester/Level	In some discipline 1st semester and in some discipline 2nd Semester/ ADP Program 1st Year
Course Code	URCQ-5111
Course Title	Translation of the Holy Quran – I
Credit Hours	1(0-1)
Objectives	- 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:	- تیسواں پارہ - ناظرہ مع تجوید - بنیادی عربی گرامر <div dir="rtl">اسم اور اسکے متعلقات : اسم فاعل ،مفعول ،تفضیل ،مبالغہ فعل اور اسکی اقسام : ماضی ،مضارع ،امر ، نہی حرف اور اسکی اقسام : حروف علت ،حروف جارہ ،مشبہ بالفعل</div>
Memorization:	<div dir="rtl">تیسویں پارے کی آخری بیس سورتیں (حفظ مع ترجمہ)</div>

URCG-5112   **Fables, Wisdom, and EPICS**   **2(2+0)**

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 ḥikāyāt from John T. Platts, *The Gulistan*
3. Epic
   THE SHĀHNĀMA OF FIRDAUSI

Recommended Texts

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 taʿmīr-i insāniyat

Suggested Readings

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.

URCG-5116   Sciences of Society-I   2 (2+0)

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:

The course has following outcomes:

It will
- 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

Course Outlines:

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

2. **Society and Community, Historical evolution of Society**
   - Types of Societies
   - Foraging society, Horticultural society, Pastoralist society
   - Agrarian societies, Industrial society, Postindustrial society

3. **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

4. **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

5. **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

6. **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

7. **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

8. **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. Oxford University 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.

URCG-5120   **Exploring Quantitative Skills**
3(3+0)

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.

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 Texts
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 Readings

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 Hall.

ECON 5104   Intermediate Micro Economics
3(3-0)

The objective of the course is to clarify and extend further the microeconomic concepts and to develop analytical skills and solving petty problems. In addition to diagrammatic approach the course intend to get accustomed the students to simple mathematics and numerical tools. The teacher is expected to draw examples from surroundings for exposition. The students may be given assignments to collect information from the markets and to analyze the data. They may have tours to the industrial units and to observe the process of production and problems in supply and demand.

Contents
1. Introduction
   a) Scope of Microeconomics and areas of its concern.
   b) The role of markets and importance of price signals in efficient allocation of resources.
   c) Economic models as abstraction from the reality.
2. Theory of Consumer Behavior
   a) Cardinal and ordinal approach to utility
   b) The indirect utility function
   c) Homothetic and Non-homothetic Preferences, Introduction to the Revealed Preference Theory.
3. Demand & Elasticity
   a) Derivation of demand functions using indifference curves,
   b) Elasticity of demand, its Importance and different types.
4. Production Functions
   a) Different production functions: Cobb Douglas and CES etc.
   b) Iso-quant maps, the cost line and equilibrium of the firm.
5. Cost of Production
   a) Different types of costs.
   b) Cost minimization subject to given/pre-determined level of output.
6. Behavior of the Firm
   a) Equilibrium of the firm when it faces the market.
   b) Economic profit and rent, Short-run, Long-run position of a price taking and price seeking firm
7. Market Structure and Price Determination
   a) The Perfectly Competitive Market.
   b) Monopoly and Monopsony, bilateral monopoly, price discrimination.
   c) Monopolistic Competition and Oligopoly.
   d) Pricing of the Factors of Production.

Recommended Books
1. Walter Nicholson- *Intermediate Microeconomics*- 6th Edition (1994) or latest –The Dryden Press: Harcourt Brace College Publishers
2. Koutsoyiannis, A.-*Modern Microeconomics*- 2nd edition (1979)-Macmillan.

Suggested Books

1. Varian Hall R.-*Intermediate Microeconomics: Modern Approach*-6th edition (2002)- W. W. Norton Publishing Company, New York.
2. Dowling, Edward – *Mathematics for Economists*-(1980) -(Schaum's Outline Series) McGraw Hill Inc.

ECON 5105　　　　　Intermediate Macro Economics　　　　　　　3(3-0)

This course offers the student a comprehensive introduction of macroeconomics so as they develop the capacity to understand the issues and problems of the economy in a global scenario. In particular, they have to capture the nature and scope of various public policies. In addition to diagrammatic approach, the students are confronted to simple mathematical analysis.

Content

1. The introduction of Keynesian revolution and growth of Macroeconomics
    a)　　　　　Oken's Law and unemployment, Price Indices and Inflation
    b)　　　Exogenous and Endogenous variables and their functional relationships
    c)　　　　Introduction to the Classical and Keynesian Schools of Thought
2. Measurement of National Income
    a)　　The circular flow of National Income, GDP and GNP
    b)　　Personal and disposable income
    c)　　Injections into and Leakages from the economy: Saving and Investment
    d)　　The closed and open economy models
3. Theories of Consumption
    a)　　The Absolute income, Relative income, Permanent income and Life-cycle income
    b)　　Kuznet's findings and Reconciliation of Marginal and Average Propensity to Consume
4. Saving and Investment
    a)　　Real and Financial investment, Autonomous and Induced investment
    b)　　Lags in Investment Demand, Volatility of Investment, Equilibrium in the goods market
    c)　　Derivation of IS curve (graphic), Factors affecting the position and slope of the IS curve,　 the Saving-Investment gap in developing countries
5. The Demand for and Supply of Money
    a)　　The demand for money, The Quantity Theory of Money, The Liquidity Preference
    b)　　The supply of money: M1, M2, M3 concepts, Derivation of LM Curve (graphic)
6. Aggregate Supply and the Labour Market
    a)　　Labor market and its Equilibrium: The flexible and sticky wage models
    b)　　The concepts of full-employment and underemployment, Supply shocks and stabilization
    c)　　Interaction of aggregate demand and supply and price determination

7. Inflation and Unemployment
   a) Types, causes and measurement of inflation
   b) Transitory and structural unemployment
   c) Phillips curve in the short-run and long-run

Recommended Books
1. Shapiro, Edward, *Macroeconomic Analysis*. (Harcourt Brace Inc. 2000)
2. Froyen, Richard, *Macroeconomics: Theories and Policies*. (Pearson Publisher, 2012)

Suggested Books
1. Mankiw, Gregory N., *Macroeconomics*. (Worth Publishers, 2018)
2. Blanchard, Oliver, *Macroeconomics*. (Prentice Hall International, 2017)

ECON 5107   Mathematical Economics-I
3(3-0)

The course is designed to enable the students use mathematical tools in clarifying their economic concepts and solving problems. This is because economic analysis requires extensive use of mathematics in the present day world of complexity. Mere logical reasoning and diagrammatic approach is perhaps not sufficient. This is true for positive economics in particular. As such, the students of economics have to learn and apply mathematics alongside their theoretical underpinnings.

Contents
1. The Nature of Mathematical Economics
    a) The use of mathematical tools in social sciences particularly in economics
    b) Economic theory (logical argument) as description of some kind of relationship between variables and its functional form
    c) Types of functions and graphs of various functions
    d) The importance and limitations of mathematical models
2. Equilibrium Analysis
    a) Equation of a straight line
    b) Intercept and Slope parameters and their economic interpretation
    c) Partial and general equilibrium analysis
    d) Calculation of elasticity's at equilibrium
    e) The effect of an excise tax on market equilibrium
    f) National Income determination
3. Linear Models and Matrix Algebra
    a) Simultaneous equations models and the use of matrices
    b) Types of matrices
    c) transpose and their properties
    d) Laws of matrix operations
    e) Determinant & its properties
    f) Properties of inverse matrix
    g) Solution of linear equations through Gaussian method
    h) Cramer's rule and Inverse of a matrix method
    i) Use of matrix approach in market & national income models

4. Differentiation
    a) Rules of differentiation
    b) *Free and Constrained optimization*
    c) *Partial differentiation & its rules*
    d) *Total differentials & total derivatives*
    e) *Hessian and Jacobian determinants*
5. Economic Applications of Differential Calculus
    a) *Utility, profit & revenue maximization and minimization of cost*
    b) *Comparative static analysis*
    c) Homogenous, Cobb Douglas and CES Production function
6. Linear Programming
    a) *Graphical and Simplex method*
    b) *Duality theorems*

Recommended Books
1. **Chiang, A. C., Fundamental Methods of Mathematical Economics, 4th ed. (McGraw Hill Publishing Company, 2004).**
2. **Dowling E. T., Mathematics for Economists, Schaum's Outline Series, 3rd ed.(McGraw Hill Publishing Company, 2009).**

Suggested Books
1. George, Alvery et al., *Essentials of Mathematics with Business Applications*, 18th ed. (McGraw Hill Publishing Company, 2004).
2. Frank, Budnick, *Applied Mathematics for Business, Economics and Social Sciences*, 4th ed.   (McGraw Hill Publishing Company, 2011).

URCG- 5119   **Expository Writing**   **3**
(3+0)

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 Texts

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 Readings

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.

URCG-5121   **Tools for Quantitative Reasoning**   **3(3+0)**

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.

Contents
1. Types of data and its graphical representation (Histogram, Stem and Leaf display, Box Plot, Scatter diagram, Historigam, 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 Texts
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 Readings

1. Gupta, S. C., & Kapoor, V. K. (2020). *Fundamentals of mathematical statistics*. 12th Ed, Sultan Chand & 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.

URCG-5122   **Ideology and Constitution of Pakistan**   **2(2-0)**

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

Outline:
- **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
    - The 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

ECON 5107   Statistics for Economics-I   **3(3-0)**

The main objective of this course is to acquaint students with the basic techniques of statistical methods with a strong emphasis on its application to economic theories and principles.

Content
1. What is Statistics
    a)   The basic concepts
    b)   Type of measurement scale
    c)   Types of data, errors, data collection
    d)   Significant digits, Rounding of a Number

2. Presentation of Data
    a)   The frequency distribution and its types
    b)   Graphic and diagrammatic representation.

3. Measures of Central Tendency
    a)   Types of Averages,
    b)   Quantiles
    c)   Relative Merits and Demerits of various Averages
    a)   Box and Whisker Plot, Stem and Leaf Display and Outliers

4. Measures of Dispersion
    a)   Absolute and relative measures,
    b)   Properties of variance and standard Deviation, Standardized variables,
    c)   Moments and Moments ratios.

5. Probability and Probability Distribution
    a)   Basics of Probability
    b)   Discrete distributions
    c)   Continuous distributions

6. Index Numbers and Time Series Analysis
    a)   Index Numbers
    b)   Time series analysis

Recommended Books

1. Lind, Douglas A., Marshal, William G. and Mason, Robert D., *Statistical Techniques in Business and Economics,* 15th ed. (Boston: McGraw Hill, 2015).
2. Chaudhry, Sher Mohammad and Kamal, Shahid, *Introduction to Statistical Theory*, 7th ed. (Lahore: Ilmi Kitab Khana, 2010).

Suggested Books

1. Siegel, Andrew F., *Practical Business Statistics*, 7th ed.(Boston: McGraw Hill, 2012).
2. Newbold, Paul, Carlson, William L. and Thorne, Betty M, *Statistics for Business and Economics*, 5th ed. (New Jersey: Prentice-Hall, 2002).

ECON 5108   **Development Economics**   **3(3-0)**

This course provides an understanding the evolution and relevance of Development Economics concepts and its policy suggestions in addressing the widespread issues like inequality, unemployment, poverty, gender disparities, labor productivity etc. The course would explain the humanistic perspective of economics and explicitly involves the explanation of multi-dimensional nature of Development Economics.

Content
1. Economic Development
   a) Economic Development and Growth
   b) Measurement of Economic Development and Growth.
   c) Characteristics of Least Developing Countries (LDCs)
2. Major Theories of Development
   a) Classical and Contemporary Theories
3. Agriculture and Industry
   a) Complementarity of Sectors
   b) Green Revolution and Industrialization
4. Population, Education and Human Capital
   a) Demographic Significance for Development
   b) Investment in education and returns.
5. Debt and Aid/Assistance
   a) Sources of Borrowing
   b) Policies to combat debt problem
6. WTO, Liberalization and International Trade
   a) Trade as an engine of growth
   b) WTO and Regional Trade
7. Poverty and Income Distribution
   c) Poverty concepts
   d) Income inequality
8. Economic Growth and Environment
   a) Sustainable Development

Recommended Books
1. Todaro, M. and Smith, S., *Economic Development* (Pearsons New York, 2015).
2. Meier G. M. and Rauch J. E., *The globalization of World Politics: An Introduction to International Relations*. (Oxford University Press, 2000).

Suggested Books
1. Cypher J. M. and Dietz James L., *The Process of Economic Development*. (Routledge New York, 2004)
2. Jhingan, M. L., *The Economics of Development and Planning*. (New Delhi)

ECON 5109   Political   Economy   and   Global   Order
3(3-0)
This course is designed to provide students with an introduction to the field of political economy. Political economy seeks to understand and explain policy outcomes and political behavior. The approach taken is an interdisciplinary one that utilizes tools and concepts from economics to study politics and political behavior. The course will presume that political actors are rational and goal oriented. Political outcomes are then explained by the interaction between these actors within the (institutional) constraints of their environment. This course aims to enable students to apply economic theories and concepts to the study of political action and the formation of policy.

Contents
1. Introduction to Political Economy:
    a) Course Introduction, Overview
    b) Approaches to the Study of Political Economy
    c) Analyzing Group Choice
    d) Spatial Models of Majority Rule
    e) Strategic Behavior and Majority Rule
    f)   Voting and Elections
2. Understanding Collective Action:
    a) Cooperation
    b) Collective Action
    c) Market Failures and Collective Action
3. What Role Do Institutions Play:
    a) Institutions and Their Impact
    b) Legislatures
    c) Bureaucracy, Delegation, and Principal Agent Theory
    d) Courts and Judges
4. Topics in the Political Economy of Pakistan:
    a) The Economics of Patronage
    b) Seven Pillars of Good Governance
    c) The Political Economy of Reforms
    d) Pakistan - Dynamics of Elitist Model
    e) Strategies for Self-preservation
    f) A military Theocracy
    g) Different Regimes
    h) Economic Development
    i) Ethnic conflict
    j) The Role of State
    k) Emerging Economic and Political Issues and their Linkages
    l) Regionalism
    m) Poverty
    n) Governance

Recommended Books

1. Shepsle, K.A. *Analyzing Politics: Rationality, Behavior, and Institutions*, 2nd Edition (2010). W. W. Norton & Company
2. Kardar, S. (Latest Edition). *The Political Economy of Pakistan*. Progressive Publishers
Supplementary Texts
Suggested Books

1. Nadeem, A.H. (2002). Pakistan: *The Political Economy of Lawlessness*. Oxford University Press
2. Hussain, I. (1999). Pakistan: *The Economy of an Elitist State*. Oxford University Press

URCG-5125   **Civics and Community Engagement**   **2(2-0)**

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.

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.

<u>**Course Content:**</u>

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 Yourk: 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

Reference 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 Press.

ECON 5110   Statistics for Economics-II   **3(3-0)**

The main objective of this course is to acquaint students with the basic techniques of statistical methods with a strong emphasis on its application to economic theories and principles.

Contents
1. Sampling and Sampling Distributions
    a)   Sampling distributions
    b)   The central limit theorem
    c)   Sampling distributions for single mean and proportion
    d)   The difference of means and proportions
2. Hypothesis Testing
    a)   Basics of hypothesis
    b)   General procedure for testing of hypothesis
3. Testing of Hypothesis- Single Population
    a)   C.I about the population mean and proportion
    b)   Testing of hypothesis about the population mean and proportion
4. Testing of Hypothesis- Two or more Population
    a)   C.I about the difference of population means and proportions
    b)   Testing of hypothesis about the difference of population means and proportions
5. Testing of Hypothesis- Independence of Attributes
    a)   Contingency tables
    b)   Testing of Hypothesis about the Independence of Attributes
    c)   ANOVA
6. Simple Linear Regression and Correlation Analysis
    a)   Linear and multiple regression analysis
    b)   Correlation analysis and rank correlation
    c)   Estimation of the mean values and prediction of individual values
    d)   Testing of significance about regression and correlation coefficients

Recommended Books

1. Lind, Douglas A., Marshal, William G. and Mason, Robert D., *Statistical Techniques in Business and Economics,* 15[th]ed. (Boston: McGraw Hill, 2015).
2. Chaudhry, Sher Mohammad and Kamal, Shahid, *Introduction to Statistical Theory*, 7[th]ed. (Lahore: Ilmi Kitab Khana, 2010).

Suggested Books
1. Siegel, Andrew F., *Practical Business Statistics*, 7[th]ed.(Boston: McGraw Hill, 2012).

2. Newbold, Paul, Carlson, William L. and Thorne, Betty M, *Statistics for Business and Economics*, 5thed. (New Jersey: Prentice-Hall, 2002).

ECON 5111   Agriculture Economics   3(3-0)

This course provides a comprehensive introduction to agriculture economics, focusing in particular on its importance in an economy and its role for other sectors of the economy, its structure and role in economic development. More specifically, the course introduces key concepts related to resource use efficiency, supply response, theory of rent, surplus, and theories and models in agriculture economics.

Content
1. Introduction, Importance, Structure and Role of Agriculture
   a. Agricultural Revolution, Importance of Agriculture, Agriculture vs. Industrial development
   b. Current State of Agricultural Development. Brief Overview of Sources of Growth.
   c. Traditional Agriculture and Productivity.
   d. Framing Environment: Natural Hazards and Economic Uncertainties
   e. Farm Size in Pakistan and Productivity
   f. Product Contribution, Market Contribution, Factor's Contribution
2. Theory of Rent and Agriculture in Dualistic Development Models
   a. The Theory of Economic Rent. Rent and Quasi-Rent The Ricardian 'Corn Rent.
   b. Characteristics of Landownership in Underdeveloped Agriculture and Pakistan.
   c. Tenant's Status in Pakistan. Agricultural productivity in Pakistan and use of inputs.
   d. The Lewis, Ranis-Fei (FR), Jorgenson and Kelley, Williamson, Cheetham Models
   e. Dual Economy Models. Agricultural Adequacy; Mellor's Model.
3. Resource Use Efficiency, Technical Change and Supply Response
   a. Efficiency of Resource Utilization. Technological Change in Agriculture.
   b. Generation of new Agricultural Technology. Factor-biased Technological Change
   c. Technical Change in LDCs: with Special Reference to Pakistan.
   d. The Cobweb Model: An Illustration. Price-Supply Response in Backward Agriculture
   e. Response in the Underdeveloped Agricultural labour Market, Specifically in Pakistan
   f. The Concept of 'Marketed Surplus': Some Methods of Estimation.
   g. Green Revolution in Pakistan and Responses. Present Status of Green Revolution in Pakistan:
4. Population and Food Supplies
   a. Classical Model. Contra-Malthusian Model. Ecological Disequilibrium.
   b. Synthesis of Population and Food Supply Theories.
   c. Malnutrition in Developing Countries like Pakistan and Remedial Manners.
   d. Choice of Planning Strategy for Agriculture Development, Agricultural Project Planning.

Recommended Books
1. Ghatak S.,& Ingersent, *Agriculture and Economic Development*, (Latest Edition), Harvester Press.

2. Capstick Margret, *The Economics of Agriculture*, London, George Allen Unwin Ltd., latest edition.

Suggested Books

1. Colman D. and Young T., *Principals of Agricultural Economics, Markets and Prices in Less Developed Countries*, (1989), Cambridge University Press.

2. Yujiro Hayami and Vernon W. Ruttan, *Agricultural Development*, John Hopkin University Press, London. (Latest edition).