

UNIVERSITY OF POONCH RAWALAKOT AZAD JAMMU AND KASHMIR

SCHEME OF STUDY FOR BS ECONOMICS

Course Code	Course Title Credit ho		Category
GEN-3101	Functional English	3(3-0)	General
GEN-3102	Quantitative Reasoning-I	3(3-0)	General
GEN-3103	Islamic Studies	2(2-0)	General
GEN-3104	Ideology and Constitution of Pakistan	2(2-0)	General
GEN-3105	General Science	3(2-1)	General
GEN-3106	Entrepreneurship	2(2-0)	General
Total		15(15-0)	

Semester-III

(Any two courses can be opt from list of optional non-Economics)

Course Code	Course Title	Credit hours.
ENG-211	English-III (Report writing)	3(3-0)
STA- 212	Statistics-I	3(3-0)
ECO-213	Intermediate Micro Economics	3(3-0)
ECO-214	Development Economics	3(3-0)
	Optional-I(Non Economics)	3(3-0)
	Optional-II(Non Economics)	3(3-0)
Total		18(18-0)

Semester-V

Course Code	Course Title	Credit hours
ECO-311	Advanced Microeconomics	3(3-0)
ECO- 312	Econometrics-I	3(3-0)
ECO- 313	Mathematical Economics-I	3(3-0)
ECO-	Optional-I(Economics)	3(3-0)
ECO-	Optional-II (Economics)	3(3-0)
Total		18(18-0)

SEMESTER-VII

Course Code	Course Title	Credit hours
ECO-411	International Trade Policy	3(3-0)
ECO-412	Research Methods and Techniques	3(3-0)
ECO-413	Public Finance 3(3-0)	
ECO-	Optional-I(Economics)	3(3-0)
ECO-	Optional-II(Economics)	3(3-0)
	Internship/Practical Examination	S/U Basis
Total		15(15-0)

Note: Any two courses can be opt in semester 5th and 7th as optional Economics from list of optional courses

Course Code	Course Title	Credits.Hrs
ECO-424	Human Resource Development	3 (3-0)
ECO-425	Human Resource Management	3 (3-0)
ECO-426	Labor Economics	3 (3-0)
ECO-427	Managerial Economics	3 (3-0)
ECO-428	Institutional Economics	3 (3-0)
ECO-429	Economics of Happiness	3 (3-0)
ECO-430	Environmental Economics	3 (3-0)
ECO-431	Demographic Economics	3 (3-0)
ECO-432	Dynamic Macro Economics	3 (3-0)
ECO-433	Monetary Policy	3 (3-0)
ECO-434	Fiscal Policy	3 (3-0)
ECO-435	Development policy	3 (3-0)
ECO-436	Rural Development	3 (3-0)
ECO-437	Sustainable Development	3 (3-0)
ECO-438	Political Economy	3 (3-0)
ECO-439	Industrial Economics	3 (3-0)
ECO-440	Transport Economics	3 (3-0)
ECO-441	Health Economics	3 (3-0)
ECO-442	Experimental Economics.	3 (3-0)
ECO-444	Urban Economics	3 (3-0)
ECO-445	Regional Economics	3 (3-0)
ECO-446	Disaster Economics	3 (3-0)
ECO-447	Advanced Econometrics	3 (3-0)
ECO-448	Financial Econometrics	3 (3-0)
ECO-449	Institutional Economics	3 (3-0)
ECO-450	Growth Theories	3 (3-0)
ECO-451	Game Theory	3 (3-0)
ECO-452	Ethics, Economics and Universal Values	3 (3-0)
ECO-453	Project monitoring and Evaluation 3 (3-0)	
ECO-454	Economic Planning	3 (3-0)

List of Optional (Economics) Courses

ECO-455	Islamic Banking & Finance	3 (3-0)
ECO-456	General Equilibrium and Welfare Economics	3 (3-0)
ECO-457	Energy Economics	3 (3-0)
ECO-458	Economics of Education	3 (3-0)
ECO-459	Thesis	6

List of optional (Non Economics) Courses

Semester III				
POL-215	Political Science	3 (3-0)		
MCM-216	Mass communication	3 (3-0)		
LAW-217	Introduction to Law	3 (3-0)		
ACT-218	Principle of Accounting	3 (3-0)		
MGT-219	Introduction to Management	3 (3-0)		

	Semester V	
BNK-314	Banking Law and Practices	3 (3-0)
GSC-315	General Science	3 (3-0)
COM-316	Introduction to Commerce	3 (3-0)

SEMESTER-I

FUNCTIONAL ENGLISHCOURSE CODE: GEN: 3101CREDIT HRS: 3(3-0)

Course Objectives: The course is developed to enhance the language skills and critical thinking of students by

- Enabling them to correct use of grammar and language structures
- Enabling them to communicate effectively

Course Contents:

Grammar:

Basics of grammar

Parts of speech and their use in communication

Sentence structure

Correct use of Tenses

Active and passive voice

Practice in unified sentences (unity and coherence)

Analysis of Phrase, Clause and sentence structures

Transitive and Intransitive Verbs

Punctuation and Spellings

Reading skills:

Comprehension skills

Literal understanding of text, reading between lines (interpret text), reading beyond

lines (to assimilate, integrate knowledge)

Answers to the questions on a given text

Discussion:

General topics and everyday conversation (topics for discussion to be at the discretion of the teacher keeping in view the level of the students)

Introducing ourselves, describing things, recounting past events, agreeing and disagreeing, compare and contrast

Listening:

To be improved by showing documentaries/ films carefully selected by subject teacher

Listening and note taking

Translation Skills:

Urdu to English

Writing Skills:

Paragraph Writing

Basic structure of paragraph and guidelines for writing an effective paragraph Speaking Skills:

Presentation Skills

Introduction (types of presentation, structure of presentation)

Prepared and unprepared talks

Note: Extensive reading is required for vocabulary building

Recommended Books:

1. **Functional English**

- a) Grammar
 - 1. Practical English Grammar by A. J. Thomson and A. V. Martinet. Exercises 1. Third edition. Oxford University Press. 1997. ISBN 0194313492
 - 2. Practical English Grammar by A. J. Thomson and A. V. Martinet. Exercises 2. Third edition. Oxford University Press. 1997. ISBN 0194313506
- b) Writing
 - 1. Writing. Intermediate by Marie-Christine Boutin, Suzanne Brinand and Francoise Grellet. Oxford Supplementary Skills. Fourth Impression 1993. ISBN 0 19 435405 7 Pages 20-27 and 35-41.
- c) Reading/Comprehension
 - 1. Reading. Upper Intermediate. Brain Tomlinson and Rod Ellis. Oxford Supplementary Skills. Third Impression 1992. ISBN 0 19 453402 2.
- d) Speaking

- 1) Ellen, K. 2002. Maximize Your Presentation Skills: How to Speak, Look and Act on Your Way to the Top
- 2) Hargie, O. (ed.) Hand book of Communications Skills
- 3) Mandel, S. 2000. Effective Presentation Skills: A Practical Guide Better Speaking
- 4) Mark, P. 1996. Presenting in English. Language Teaching Publications

WEEK 1	LECTURES	TOPICS
WEEK 1	Lecture 1	Introduction to Grammar, Definitions, basic concepts, importance
	Lecture 2	Subject, verb, object, predicate
	Lecture 3	Parts of speech (basic concepts: types, subtypes) Noun, pronoun, adjective, adverb, conjunction, interjection, preposition
WEEK 2	Lecture 1	Noun (proper noun, common noun, abstract noun, concrete noun, material noun, collective noun, compound noun, countable noun, uncountable noun) Functions of noun Pronoun (personal pronoun, possessive pronoun, indefinite pronoun, relative pronoun, intensive pronoun, demonstrative pronoun, interrogative pronoun, reflexive pronoun)
	Lecture 2	Adjective (descriptive, quantitative, proper, demonstrative, possessive, interrogative, indefinite, compound adjectives, articles as adjective) Degrees of adjective Adverb (adverb of manner, time, place, frequency, degree) Preposition (simple, double, compound, participle, phrase preposition)
	Lecture 3	Verb (action verb, stative verb, transitive and intransitive verb, auxiliary verb, modal verb, phrasal verb, regular and irregular verbs) Conjunctions (co-ordinating conjunction, correlative conjunction, sub-ordinating conjunction) Interjection
WEEK 3	Lecture 1	Article (definite and indefinite) Use of articles
	Lecture 2	Basic sentence structure (simple, negative, interrogative, negative interrogative)

Course Break up

	Lecture 3	Correct use of tenses (Present Tense)
WEEK 4	Lecture 1	Correct use of tenses (Past Tense)
	Lecture 2	Correct use if tenses (Future Tense)
	Lecture 3	Basics of active and passive voice (definition of voice, active, passive) Rules for passive transformation (all tenses + imperative sentences)
WEEK 5	Lecture 1	Active and passive voice (practice)
	Lecture 2	Practice in unified sentences (definition, characteristics, rules)
	Lecture 3	Continued
WEEK 6	Lecture 1	Phrases (definition, structure, types)
	Lecture 2	Continued
	Lecture 3	Worksheets on phrases and unified sentences
WEEK 7	Lecture 1	Clauses (definition, structure, types: Independant clause, dependent clause)
	Lecture 2	Continued
	Lecture 3	Continued + practice
WEEK 8	Mid Term Exam	
WEEK 9	Lecture 1	Transitive and intransitive verbs: a detailed discussion
	Lecture 2	Types of sentences on the basis of structure: simple, compound, complex, compound-complex sentences On the basis of function: declarative, imperative, interrogative, exclamatory sentences

	Lecture 3	Practice of phrase, clause and sentence Types of sentences on the basis of structure: simple, compound, complex, compound-complex sentences
WEEK 10	Lecture 1	Punctuations and spellings Definition, basic punctuation marks and their uses, importance of using punctuations
	Lecture 2	Spellings (basic rules and tips)
	Lecture 3	Continued
WEEK 11	Lecture 1	Comprehension (definition, levels of comprehension, principles/rules of comprehension)
	Lecture 2	Continued (practice of paragraphs)
	Lecture 3	Discussion (speaking and communication skills) Definitions, basic skills, strategies
	Lecture 1	Continued
WEEK 12	Lecture 2	Listening skills (definition, strategies)
	Lecture 3	Continued (practice)
	Lecture 1	Translation skills (basic rules)
WEEK 13	Lecture 2	Continued (practice of Urdu to English translation)
	Lecture 3	Worksheets for practice
WEEK 14	Lecture 1	Paragraph writing (definition, parts of a good paragraph, rules and tips for writing effective paragraph)
	Lecture 2	Continued (practice) Assignment
	Lecture 3	Presentation skills: Types of presentation, structure of presentation

WEEK 15	Lecture 1	Continued
	Lecture 2	Discussion on prepared and unprepared talks
	Lecture 3	Continued
WEEK 16	Revesion	
Week 17	Terminal Exam	

QUANTITATIVE REASONING-I (EXPLORING QUANTITATIVE SKILLS)

GEN-3102

CREDIT HRS: 3(3-0)

Objectives: Students will get familiarized with the importance of quantitative reasoning skills in the modern age.

Week No.	Lecture No.	Topics Detail
		Introduction to Number System (Natural, Whole, Integers,
		Rational, Irrational, Real & Imaginary), Notations, Binary,
		Decimal and Octal Number system and their conversions.
Week 01		Real Line, Intervals
		Basic Arithmetic Operations on Numbers (Addition,
		Subtraction, Multiplication and division)
		Quantitative Reasoning Exercise Using Number System.
		Units, Units rates, measurements and their Conversions,
		Dimension and its types, Dimension of Shapes.
Week 02		Area, Perimeter and Volume of shapes
		Quantitative Reasoning Exercise Using units, dimension,
		area, perimeter and volume.
		Rates, Ratio and Percentage (Definition, formulas)
		Proportions, Direct and inverse Proportion

Week 03	Comparison of Ratios, Rates, Percentages and proportions.
	Exercise using statements and number system.
Week 04	Data, Primary data, Secondary data, Qualitative data
	Quantitative data, Discrete data, Continuous data,
	Structured and unstructured data with their differences,
	Semi structured data and big data.
	Sou ces of Data, External and internal Sources of d ta.
	Methods for collecting Data, Exercise Using Word problems.

	Introduction to Measurement Scales,		
West 05	Nominal Scale, Ordinal Scale		
week 05	Interval Scale, Ratio Scale, Quantitative Reasoning exercise		
	measurement scales.		
	Tabular representation of		
	data (Qualitative, Quantitative, Temporal and Spatial)		
	Graphical representation of Data		
Week 06	(Line graph, Bar graph, histograms, line plot, frequency table,		
	Circle graph, steam and leaf plot, Box and whisker graph.		
	Objectives and limitations, exercise.		
	(Mid Term)		
	Introduction to Basics of Geometry, Branches		
	Types of Geometry (Plane-2D, Solid-3D)		
W 1.07	Plane Geometry (Lines, Angels & Polygons with their types,		
Week 07	point, Collinear & Non- Collinear Points, Plane, Mid point,		
	Circle, Semi Circle)		
	Solid Geometry (edges, Faces & Vertices of solid shapes), Exercise		
	Sets and their operations		
W 1.00	(Union, Intersection, Difference & Complement)		
Week 08	Types of set, Demorgan's Law, Venn Diagram		
	Properties of set operations, Exercise using sets operations		
	Relation (Domain and range, inverse, binary, reflexive, symmetric,		
	transitive, power, closure)		
Week 09	Function (Domain and Range, algebraic and Transcendental,		
	Even, odd, injective, surjective, bijective, piecewise)		
	Graphing of Relation and function, exercise		
	Exponents, Exponent rules		
Week 10	Factoring & Simplifying the Algebraic expressions		
	Exercise using Algebraic expressions		
	Linear equations with one, two and three variables,		
Week 11	Quadratic equation and methods to solve quadratic equation		
	Algebraic and graphical solutions.		
	Inequalities and their solution sets, Exercise		
	Population & its types (Finite Population, Infinite Population,		
	Existent Population & Hypothetical Population)		
Week 12	Sample (Probability sampling & Non-probability sampling)		
	Difference between Population and Sample		
	Population and sample formulas (MAD, Variance, S.D), Exercise		
	Measure of central tendency, Mean (A.M., G.M., H.M.,), Median & Mode for grouped and ungrouped data		
	Measure of Dispersion		
Week 13	Invitasure of Dispersion & Deleting Manager of Dispersion		
	Absolute inteasure of Dispersion & Relative Measure of Dispersion)		
	Data Interpretation Types & Methodalacy, Evergine		
	Data Interpretation, Types & Methodology, Exercise.		

	Rules of Counting		
XX7 1 1 4	(Multiplicative, Permutation, Partitions & Combinations)		
Week 14	Formulas and exercise using Counting Rules		
	Introduction to probability theory		
	Theoretical probability, Empirical probability, sample space, events,		
Waalt 15	Random variable, Conditional probability		
Week 15	Probability mass function, Probability density function		
	Addition Rule, Complementary Rule, Exercise		
	Introduction to Random Variable and their probability distribution		
Week 16	Mean & Variance of random Variable		
	Standard Deviation of random Variable, Exercise		
Terminal Examination			

Recommended Books:

- Fundamental of Mathematics, Denny Burzynski and Wade Ellis, Latest Edition.
- Jeffrey O. Bennett, William L. Briggs Using & Understanding Mathematics_ A Quantitative Reasoning Approach (7th Edition)-Pearson (2018)
- Richard N. Aufmann, Joanne S. Lockwood, Richard D. Nation, Daniel K. Clegg

- Mathematical Thinking and Quantitative Reasoning -Houghton Mifflin Company (2008)

• Ethan Bueno de Mesquita, Anthony Fowler - Thinking Clearly with Data_A Guide to Quantitative (2021) Reasoning and Analysis-Princeton University Press

- (Chapman and Hall_CRC Texts in Statistical Science) Chatfield, Chris -Statistics for Technology_ A Course in Applied Statistics, Third Editio Routledge (2018)
- Robin H. Lock, Patti Frazer Lock, Kari Lock Morgan, Eric F. Lock, Dennis F. Lock - Statistics_Unlocking the Power of Data, 3rd Edition-John Wiley & Sons, Inc. (2021)

ISLAMIC STUDIES

GEN-3103

CREDIT HRS: 2(2-0)

Title	Description
Semester	1 st
Course code	GEN.3103
No. of C.Hrs.	02
Teaching weeks	18
Objectives of the Course	۱_طلباءکو علوم القرآن سے متعارف کروانا
	٢_طلبا كو بنيادي علوم حديث سيمتعارف كروانا _
	٣_سیرت نبی ﷺ کا تعارفی مطالعہ کروانا۔
	۴ ِ ارکان اسلام کی اہمیت اور ان کے مسائل سے آگاہ کرنا _۔
	۵۔اسلام کے تصور جہاد اور فلسفہ جہاد سےآگاہ کرنا

Week	Lecture No.	Торіс		Activity
Week 1	Lecture 1	قران پاک کا تعارف،فضائل ، اعجاز	•	
	Lecture 2	قر آن پاک کا نز ول قر آن ، جمع و تدوین	•	
			•	
Week 2	Lecture 3	علوم قرآن: علم تفسير ، ماخذ تفيسر	•	
	Lecture 4	علم اسباب نزول، علم ناسخ و منسوخ	•	
			•	
Week 3	Lecture 5	سور ٥ حجرات آیت (٥١ تا ٠٩)	•	
	Lecture 6	سور ٥ حجرات آیت (10 تا 18)	•	Quiz # 01
			•	
Week 4	Lecture 7	سنت و حدیث کا تعارف: معنی و مفہوم، افسام	•	Assignment# 01
	Lecture 8	تاريخ تدوين حديث	•	
			•	
Week 5	Lecture 9	سنت کی آئینی حیثیت	•	
	Lecture 10	منتخب متون احادیث کا مطالعہ: حدیث نمبر ۲۰۰۵	•	
			•	

Week 6		Mid Term		
Week 7	Lecture 11	منتخب متون احادیث کا مطالعہ: حدیث نمبر 10- ۵	•	
	Lecture 12	منتخب متون احادیث کا مطالعہ: حدیث نمبر ۱۵- ۱۰	•	
			•	
Week 8	Lecture 13	منتخب متون احادیث کا مطالعہ: حدیث نمبر ۲۰۔ ۱۵	•	
	Lecture 14	پیدائش سے بعثت تک نبی کریمﷺ کی زندگی کے ا ہ م واقعات	•	
		dillo -	•	
Week 09	Lecture 15	نبی پاکﷺ کی مکی زندگی کے اہم واقعات	•	
	Lecture 16	نبی پکﷺ کی مدنی زندگی کے اہم واقعات	•	
Week 10	Lecture 17	خلافت ر اشدہ(حضرت ابو بکر صدیق رضی اللم عذمہ و حضرت عمر رضی اللم عذمہ کے دور کی اہم خصوصیات	•	Quiz # 02
	Lecture 18	خلافت ر اشدہ(حضرت عثمان رضی اللہ عنہ و حضرت علی رضی اللہ عنہ کے دور کی اہم خصوصیات	•	
			•	
Week 11	Lecture 19	عقائد :ایمانیات ثلاثہ (ایمان باللہ ، ایمان بالرسالت اور ایمان بالاخرت)(الف)	•	Assignment# 02
	Lecture 20	کد :ایمانیات ثلاثہ (ایمان باللہ ، ایمان بالرسالت اور ایمان بالاخرت)(ب)	عقائ	
	Lecture 21		•	
Week 12	Lecture 22	فقہ کا تعارف : پس منظر	•	
	Lecture 23	ی مسالک کا تعارف	فق	
	Lecture 24		•	
Week 13	Lecture 25	نماز : المميت ، طريقم نماز ، مسائل نماز (الف)	•	
	Lecture 26	نماز : المميت ، طريقم نماز ، مسائل نماز (ب)	•	
			•	
Week	Lecture 27	روز٥ : الإميت ، مسائل روز٥	•	
14	Lecture 28	زكوة : الإميت ، مسائل زكو ق	•	

			•	
Week 15	Lecture 29	حج اور عمر o : المميت ، طريقہم کار ، مسائل (الف)	•	
	Lecture 30	حج اور عمر o : المميت ، طريقہ کار ، مسائل(ب)	•	
			•	
Week 16	Lecture 31	جہاد: المیت ، مقاصد جہاد ، اداب جہاد (الف)	•	
	Lecture 32	جۍاد: الميت ، مقاصد جۍاد ، اداب جۍاد (ب)	•	
			•	
Week17		Terminal Examination		

منتخب متن حديث :

		-	-
ان اللہ لاینظر الی اجسادکم _	.2	الايمان بضع وسبعون شعب <u>ۃ</u> _	.1
من عادي لي وليا_	.4	من صلى على واحدة	.3
اياكم و الظن_	.6	بحسب امرى من الشر_	.5
من کایؤمن باللہ فلیصل رحمہ	.8	اللم في عون العبد_	.7
من جسن اسلام المد	10	من كان يؤمن بالل _ا م و اليوم الآخر	0
ہن کمل استخرم المراج	.10	فیکرم جار 0	.9
لا يجتمع غبار	.12	الكلمة الطيبة صدقة	.11
آی <i>ہ</i> المنافق ثلاث	.14	اكثروا ذكر <u>ه</u> ازم اللذات_	.13
ما تواضع احد للہ	.16	جزوا الشوارب_	.15
الرجل على دين خليل <u>م</u> _	.18	الحياء شعب ن ر من الايمان	.17
لیس شئی اکرم علی اللہ من الدعاء	.20	تردون على غرا_	.19

Reference Material:

- 1. Hameedullah Muhammad, "Emergence of Islam", IRI, Islamabad
- 2. Hameedullah Muhammad, "Muslim Conduct of State"
- 3. Hameedullah Muhammad, "Introduction to Islam
- 4. Mulana Muhammad YousafIslahi,"
- 5. Hussain Hamid Hassan, "An Introduction to the Study of Islamic Law" leaf Publication Islamabad, Pakistan.
- 6. Ahmad Hasan, "Principles of Islamic Jurisprudence" Islamic Research Institute, International Islamic University, Islamabad (1993)
- 7. Mir Waliullah, "Muslim Jurisprudence and the Quranic Law of Crimes" Islamic Book Service (1982)
- 8. H.S. Bhatia, "Studies in Islamic Law, Religion and Society" Deep & Deep Publications New Delhi (1989)
- 9. Dr. Muhammad Zia-ul-Haq, "Introduction to Al Sharia Al Islamia" AllamaIqbal Open University,

Islamabad (2001)

10. The five pillars of Islam: A journey Through the Divine Acts of worship, Muhammad Mustafa al Azami

11. The five pillars of Islam: A framework of Islamic values and character building, MusharafHussain 12. Towards understanding Islam, Abu al'laMoudodi

13 اسلامی نظریہ حیات، خور شید احمد 14 اسلامیات لاز می، ڈاکٹر محمد عرفان، ڈاکٹر حبیب الرحمان، مکتبہ البیت ، اسلام آباد

IDEOLOGY & CONSTITUTION OF PAKISTAN

GEN-3104

CREDIT HRS: 2(2-0)

Title	Description				
Semester	1 st				
Course code	GEN.3104				
No. of C.Hrs.	02				
Teaching weeks	18				
Course Objectives	To develop vision of Historical Perspective, Government, Politics, Contemporary				
	Pakistan, ideological background of Pakistan.				
	• To study the process of governance, national development, issuesarising in the				
	modern age and posing challenges to Pakistan.				
	S				

Course Outline

1. Historical Perspective

a. Ideological rationale with special reference to Sir Syed Ahmed Khan, Allama Muhammad Iqbal and Quaid-e-Azam Muhammad Ali Jinnah.

- b. Factors leading to Muslim separatism
- c. People and Land
- d. Indus Civilization
- e. Muslim advent
- f. Location and Geo-Physical features.

2. Government and Politics in Pakistan

Political and constitutional phases:

a. 1947-58

- b. 1958-71
- c. 1971-77
- d. 1977-88
- e. 1988-99
- f. 1999 onward

Recommended Books:

1. Burki, ShahidJaved. State & Society in Pakistan, the MacMillan Press Ltd 1980.

2. Akbar, S. Zaidi. Issue in Pakistan's Economy. Karachi: Oxford University Press, 2000.

3. S.M. Burke and Lawrence Ziring. Pakistan's Foreign policy: AnHistorical analysis. Karachi: Oxford University Press, 1993.

4. Mehmood, Safdar. Pakistan Political Roots & Development. Lahore, 1994.

5. Wilcox, Wayne. *The Emergence of Bangladesh.*, Washington: American Enterprise, Institute of Public Policy Research, 1972.

6. Mehmood, Safdar. Pakistan KayyunToota, Lahore: Idara-e- Saqafat-e-Islamia, Club Road, nd.

7. Amin, Tahir. *Ethno - National Movement in Pakistan,* Islamabad: Institute of Policy Studies, Islamabad.

 Ziring, Lawrence. *Enigma of Political Development*. Kent England: WmDawson& sons Ltd, 1980.

9. Zahid, Ansar. History & Culture of Sindh.Karachi: Royal Book Company, 1980.

10. Afzal, M. Rafique. *Political Parties in Pakistan*, Vol.I, II & III. Islamabad: National Institute of Historical and cultural Research,1998.

11. Sayeed, Khalid Bin. The Political System of Pakistan. Boston: Houghton Mifflin, 1967.

12. Aziz, K.K. *Party, Politics in Pakistan,* Islamabad: National Commission on Historical and Cultural Research, 1976.

13. Muhammad Waseem, Pakistan under Martial Law, Lahore: Vanguard, 1987.

14. Haq, Noor ul. Making of Pakistan: The Military Perspective. Islamabad: National

Commission on Historical and CulturalResearch, 1993.

GENERAL SCIENCE

GEN-3105

CREDIT HRS: 3(3-0)

Course Contents:

Unit I: Observations, Hypothesis, Theory

Unit II: Types of matter ,Atomic theory of Matter, Elements and Compounds, Mixtures and Solution, Force, Motion ,Speed, Velocity and Acceleration, Laws of Motion, Light and splitting of its into its color and various phenomena associated with light i.e. refraction :

Unit III: Energy and Work, Types of Energy, Conversion of Energy from one form to another, Law of conversation of energy :

Unit VI: Structure of animal and plant cell, Cell division, Cell Theory

Unit V: Blood circulatory system, Digestive system, Reproductive system, Execratory system

Unit VI: pH , Acid, ,Bases, Difference between metals and non metals ,Formulae of different compounds, Extraction of Metals from its or Alloys Rusting and corrosion ,

Unit VII: A brief description of planets of solar system

Lab:

- Finding pH of samples by using pH paper
- Studying the properties of acids and bases on the basis of their reaction with metals and nonmetals
- Experimentally show that carbon dioxide is given out during respiration
- Tracing the path of ray through prism
- Tracing the path of a ray of light through a slab .Measure angle of incidence and refraction
- Onion peel experiment

Reference Material:

Text books

- General Science text book for class 8th and 10th Punjab Text book Board Lahore
- Recommended Books
- Agha Khan University Examination Board (2002) General Science IX- X (based on National Curriculum 2002). Karachi: AGKEB. William Lewis
- Eikenberry (2008) The teaching of general science, The University of Chicago Press.

Course Objectives: Objectives:

- Understand scientific concepts
- Differentiate between scientific products and scientific processes
- Understand the underlying principle of science education

Schedule for Quizzes and Final Exam:

- Quizzes will be normally announced atleast one day in advance, and may be given in lecture or in tutorial. Quizzes will usually be closed-book(some might be open-book) and will typically require about 10 minutes to complete. A student who misses a quiz for any reason will be assigned a score of zero for that quiz. There will be atleast two quizzes throughout the semester.
- Exams will be conducted on schedule announced by department.
- Midterm and terminal exam will be from the syllabus covered in the whole semester.
- The examinations will focus on understanding and applying the concepts taught in class and practiced in lab/tutorial exercises and assignments.

Grading Policy:

As per institution policy

Teaching Methodology:

Class room lectures on multimedia and whiteboard both, surprise quizzes can be at the start or end of lecture.

Attendance and Assignment Policy:

All students are expected to attend all lectures. Latecomers, coming in class after 10 minutes all be marked absent, must be on time.

Late assignment submission will result in negative marking. Copying will not be tolerated and will be dealt with very seriously.

Note:

Teacher reserves the right to change the lecture schedule, contents and assessment criteria based upon the class situation.

Details of lecture/Activities

Weeks	Lecture No	Topic of Lecture	Activity
1 st	1	Introduction to Science	

	2	Observations 1.2. Hypothesis 1.3. Theory	
	3	Demonstration of Finding pH of samples by using pH paper	-
2nd	4	Types of matter, Atomic theory of Matter	
	5	Elements and Compounds	-
	6	Demonstration of Finding pH of samples by using pH paper	-
3rd	7	Mixtures and Solutions	Assignment
	8	Force , Motion	-
	9	Performance Finding pH of samples by using pH paper	-
4 th	10	Speed, Velocity and Acceleration	
	11	Laws of Motion	-
	12	Performance Finding pH of samples by using pH paper	-
5 th	13	Light and its splitting into various colours	
	14	Refraction	
	15	Demonstration Studying the properties of acids and bases	
6 th	16	Energy	
	17	Work	-
	18	Demonstration Studying the properties of acids and	l
		bases	
	19	Conversion of Energy from one form to another	-
7 th	20	Types of Energy	
	21	Performance Studying the properties of acids and bases	-
8 th	22	Law of conversation of energy	Mid term exam

	23	Relation	between work and energy	
	24	Perform	ance Studying the properties of acids and bases	
9th	ı 25	Structu	ire of plant	
	26	Struct	ure of animal cell	
	27	Demons given ou	stration of Experimentally show that carbon dioxide is at during respiration	
10th	28	Cell div	vision	
	29		Mitosis	
	30	Demons	tration of Experimentally show that carbon dioxide is	
		given ou	t during respiration	
	31	Meiosis	_I	Quiz
11 th	32	Meiosis	-II	
	33	Perform	ance of Experimentally show that carbon dioxide is	
		given ou	t during respiration	
12 th	34	Cell the	ory	
	35	Circulate	bry system ,	
	36	Demons	stration Tracing the path of ray through prism	
	13 th	37	Digestive system,	
		38	Reproductive system	
		39	Performance Tracing the path of ray through prism	1
	14 th	40	Execratory system	
		41	pH, acids ,bases	
		42	Demonstration Onion peel experiment	
	15 th	43	Metals and non metals	
		44	Extraction of metals	
		45	Performance Onion peel experiment	
	16 th	46	Alloys	

47	Rusting and corrosion	
48	Brief introduction to solar system	

GEN-3106 ENTREPRENEURSHIP CREDIT HRS: 2(2-0)

Objectives of the Course	To help the students to understand the fundamental concepts of entrepreneurship, focusing on developing an entrepreneurial mindset, recognizing opportunities, and understanding the key components of starting and managing a business.

Course Contents:

Unit I: Introduction to Entrepreneurship

- Definition of entrepreneurship and its significance
- Traits and characteristics of successful entrepreneurs
- Types of entrepreneurship: Small business vs. high-growth start-ups

Unit II: Entrepreneurial Mind-set and Creativity

- Developing an entrepreneurial mind-set
- Importance of creativity and innovation in entrepreneurship
- Techniques for fostering creativity and thinking outside the box

Unit III: Identifying Business Opportunities

- Recognizing market gaps and customer needs
- Market research and feasibility analysis
- Evaluating the potential of a business idea

Unit IV: Business Planning and Model

- Elements of a comprehensive business plan
- Business model canvas and lean startup approach
- Defining the value proposition and revenue streams

Unit V: Funding and Financial Management

- Sources of funding for startups (angel investors, venture capitalists, crowd funding)
- Budgeting, financial projections, and managing startup costs
- Financial management and sustainability strategies

Unit VI: Marketing and Sales Strategies

- Creating a marketing plan and target audience analysis
- Branding, digital marketing, and social media strategies
- Sales techniques and customer relationship management

Unit V: Legal and Regulatory Aspects

- Legal forms of business (sole proprietorship, partnership, corporation)
- Intellectual property protection and legal considerations
- Compliance with regulations and licensing requirements

Unit VI: Operations and Supply Chain Management

- Managing day-to-day operations and processes
- Supply chain management and vendor relationships
- Quality control and efficiency optimization

Unit VII: Growth Strategies and Scaling

- Strategies for business growth and expansion
- Challenges and opportunities in scaling a startup
- Internationalization and entering new markets

Unit VIII: Entrepreneurial Leadership and Ethical Considerations

- Leadership styles and characteristics of effective entrepreneurial leaders
- Ethical challenges in entrepreneurship and social responsibility
- Balancing profit goals with ethical decision-making

Recommended Books:

- 1. The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses" by Eric Ries
- 2. Entrepreneurship: Successfully Launching New Ventures" by Bruce R. Barringer and R. Duane Ireland
- 3. Disciplined Entrepreneurship: 24 Steps to a Successful Startup" by Bill Aulet
- 4. Zero to One: Notes on Startups, or How to Build the Future" by Peter Thiel with Blake Masters
- 5. The Art of Startup Fundraising: Pitching Investors, Negotiating the Deal, and Everything Else Entrepreneurs Need to Know" by Alejandro Cremades
- 6. Good to Great: Why Some Companies Make the Leap and Others Don't" by Jim Collins

SEMESTER III

ENGLISH-III (REPORT WRITING)

COURSE CODE:ENG-211 CREDIT HOURS: 3

Course Contents

Presentation Skills:

Meaning, Preparing a Presentation, Structuring the presentation, Problems of presentation, Preparing Content, Questions & Answers, Handling Problems during a Presentation, Important Presentation Pointers: During and After, handling problems during a presentation

Essay Writing:

Essay Writing: How to write a well-structured essays on different types such as: Descriptive, Narrative, Discursive and Argumentative and also be able to write a real life essay topics

Academic Writing

How to Write a Proposal for Research:

Students will be taught the principal rules and procedure for writing a proposal for research/term paper

How to write a Research/Term Paper:

Structuring a research paper, steps in writing a research paper, sources, checklist. Examples of Research Papers Introduction, Choose an interesting question, Be specific, Focus your thesis statement, Make your question challenging, Begin looking for sources to answer your question, Use a variety of sources to support your question, Refine your keyword searches, Take notes while you are reading, Create an outline for your paper and write your first draft, Write your final revision.

Technical Report Writing

Defining Technical writing, Types of technical reports, Characteristics of effective technical writing, Where to find material to write a technical report, Basic Technical Overview

Progress Report

Overview: Definition, What you need to write in a progress report, Content of a progress report – 1) Introduction 2) Work Status 3) Problems encountered 4) Conclusion,

Reference Material

a) Essay Writing and Academic Writing

1. Writing. Advanced by Ron White. Oxford Supplementary Skills. Third Impression 1992. (Particularly suitable for discursive, descriptive, argumentative and report writing).

2. College Writing Skills by John Langan. Mc-Graw-Hill Higher Education. 2004.

3. Patterns of College Writing (4th edition) by Laurie G. Kirszner and Stephen R. Mandell. St. Martin's Press.

b) Presentation Skills

c) Reading:

The Mercury Reader. A Custom Publication. Compiled by norther Illinois University. General Editiors: Janice Neulib; Kathleen Shine Cain; Stephen Ruffus and Maurice Scharton. (A reader which wikkl give students exposure to the best twentieth century literature, without

taxing the taste of engineering students)

Week No	Lecture	Topics	Activity
	Lecture 1	Introduction to Presentation Skills	
Week 1	Lecture 2	Definition, Preparing a Presentation	
	Lecture 3	Structuring the presentation	
	Lecture 4	Problems of presentation	
Week 2	Lecture 5	Preparing Content	
	Lecture 6	Questions & Answers Session	
	Lecture 7	Handling Problems during a	
Week 3		Presentation	Quiz# 01
	Lecture 8	Important Presentation Pointers:	
		During and After	
	Lecture 9	Introduction to Essay Writing Basics	
	Lecture 10	How to write a Descriptive Essay	
W/1- 4		Writing	
week 4	Lecture 11	How to write a Narrative Essay	Assignment# 01
		Writing	
	Lecture 12	How to write a Discursive Essay	
		Writing	
	Lecture 13	How to write a Argumentative Essay	
Wook 5		Writing	
WEEK J	Lecture 14	Writing a Descriptive Essay	
	Lecture 15	Writing a Narrative Essay	
	Lecture 16	Writing a Discursive Essay	
Week 6	Lecture 17	Writing a Argumentative Essay	Midterm Exam
WCCK U	Lecture 18	How to write a Research Proposal	
		(Introduction)	
	Lecture 19	Framework of the Research Proposal	
Week 7	Lecture 20	The introduction section of your	
		proposal	
	Lecture 21	The method section of your proposal	
W1- 0	Lecture 22	Research participants	
week 8	Lecture 23	Design Section	_
	Lecture 24	Apparatus and/or instruments	
Week 9	Lecture 25	Procedure Section	
	Lecture 26	The data analysis Section of your	
	Lecture 27	How to write a Research Paper	-

Course Breakup

		(Introduction)	
	Lecture 28	Structuring a research paper,	
W 1 10	Lecture 29	steps in writing a research paper,	
Week 10	Lecture 30	Sources for writing a Research Paper,	Quiz # 02
		Checklist.	
	Lecture 31	Examples of Research Paper	
XX7 1 11	Lecture 32	Introduction Section of Research Paper	• • • • • • • • • • • • • • • • • • • •
week 11	Lecture 33	Choose an interesting question, Be	Assignment # 02
		specific,	
		Focus on your thesis statement,	
	Lecture 34	Make your question challenging,	
Week 12		Begin looking for sources to answer	
		your question,	-
	Lecture 35	Use a variety of Sources to support	
		your question, Refine your keyword	
		searches, Take notes while you are	
		reading,	-
	Lecture 36	Create an outline for your paper and	
		write your first draft,	
		Write your final revision.	
W1-12	Lecture 37	Technical Report Writing	
week 13		(Introduction)	-
	Lecture 38	Defining Technical writing,	-
	Lecture 39	Types of technical reports,	
W1-14	Lecture 40	Characteristics of effective technical	
week 14		writing,	-
	Lecture 41	Where to find material to write a	
		technical report,	-
	Lecture 42	Basic Technical Overview	
	Lecture 43	Progress Report (Introduction)	
Week 15	Lecture 44	Overview & Definition	-
	Lecture 45	What you need to write in a progress	
		report,	
Week 16	Lecture 46	Content of a progress report	-
Week 10	Lecture 47	1) Introduction Section of your	
		Progress Report	
	Lecture 48	2) Work Status Section of your	
XX 1 17		Progress Report	
Week I'			Terminal Exam

STATISTICS I

COURSE CODE:STA-212

CREDIT HOURS: 3

Course outline Chapter 1. What is Statistics? Introduction to Statistics Key Statistical Concept Practical Application How managers use Statistics Scope of Statistics Limitations of Statistics Measurement Scales Concept of Error, Accuracy and Precision

Chapter 2. Collection and Presentation of data

Types of Data Collection of Primary and Secondary Data Classification of Data and Types of Classifications Presentation of Data Frequency Distribution Stem and Leaf Diagram Graphical Techniques for Quantitative data Histogram, Frequency Polygon, Ogive and Frequency Curve Scatter diagrams, Pie Charts, Bar Charts and Line Charts

Chapter 3. Numerical Descriptive Measures

Measures of Central Location

Characteristics of measure of central tendency A.M. Median, Mode, G.M. H.M. weighted Mean, Quartiles, Deciles and Percentiles Empirical relation between A.M. Median and Mode **Measures of Variability** Quartile Deviation, Mean Deviation, Range, Standard Deviation and Variance Interpreting the Standard Deviation and Coefficient of Variation Measures of Moments, Skewness and Kurtosis **Index Numbers** Chapter 4. Introduction of Index Number Simple and Composite Index Numbers Main Steps in the Construction of Index Numbers of Cost of Living index and whole sale Prices Problems in the Construction of Index Numbers of whole sale Prices Fixed Base Method and Chain Base Method Weighted Index Numbers (Laspeyre's index, Paassche's index, Dorbish and Bowley's index, Fisher and Marshall Index, Walsch's index and kelly's index) Unweighted Index Numbers (Simple Aggregative and Simple average of relative methods) Quantity Index Numbers Test of Adequacy of Index Number Deflating, Base Shifting and Splicing of Index Number Uses and limitation of Index Number

Chapter 5. Simple Regression and Correlation

Simple Regression Deterministic and Probabilistic Models Simple Linear Regression Model Standard Deviation of Regression Estimate Correlation Pearson Product Moment Correlation Coefficient and Rank Correlation method Coefficient of Determination Correlation and causation properties of OLS estimator

Chapter 6. Multiple Regression and Multiple Correlation

Multiple Regression and Multiple Correlation Partial Correlation AND MULTIPLE coefficient of determination

Chapter 7. Probability

Introduction Assigning Probabilities to events Conditional Probability Rules of Probability Events and its types Independent and Dependent Events Baeye's Theorem concept of combination and permutation

Chapter 8. Random Variables and Probability Distributions

Introduction of Random Variables Mathematical Expectation and some important laws concerning Expectation Distribution Function Discrete and Continuous Random Variables and its Density Functions Binomial and Poisson probability Distributions Normal Probability Distribution

Reference Material

- Introduction to Statistical Theory, Part 1, by Prof. Sher Muhammad Chaudhry.(2009 Edition)
- Basic Statistics for Business and Economics by EARLK. BOWN AND MARTIN STARR
- Introduction to Business Statistics 2004 Edition, Shamim Khan, Research and Development Center Peshawar
- Spiegel, M.R. Schiller, J.L and Sirinivasan, R.L. (2000) "Probability and Statistics" 2nd ed. Schaums Outlines Series. McGraw Hill. N.Y.
- Business Statistics by Padmalochan Hazarika

Course Breakup

Week NoLectureTopicsActivity	

	Lecture 1	Introduction to Statistics	
Week 1		Key Statistical Concept	
		Practical Application	
	Lecture 2	How managers use Statistics	
		Scope of Statistics	
		Limitations of Statistics	
	Lecture 3	Measurement Scales	
		Concept of Error. Accuracy and	
		Precision	
	Lecture 4	Types of Data	
Week 2		Collection of Primary and Secondary	
		Data	
		Classification of Data and Types of	
		Classifications	
	Lecture 5	Presentation of Data	
	20000000000	Frequency Distribution	
	Lecture 6	Stem and Leaf Diagram	
	Lecture 7	Graphical Techniques for Quantitative	
Week 3	Lecture	data	Quiz# 01
	Lecture 8	Histogram Frequency Polygon Ogive	
	Lecture	and Frequency Curve	
	Lecture 9	Scatter diagrams Pie Charts Bar	
	Lecture y	Charts and Line Charts	
	Lecture 10	Measures of Central Location	
	Lecture 10	Characteristics of measure of central	
Week 4		tendency A M	Assignment# 01
	Lecture 11	Median Mode	Č
	Lecture 12	G M H M	
	Lecture 13	Quartiles Deciles and Percentiles	
	Lecture 1/	Continue	
Week 5	Lecture 14	weighted Mean Combined Mean	
	Lecture 15	Empirical relation between AM	
		Madian and Mada	
	Looturo 16	Moasures of Variability and its	
	Lecture 10	types	
Week 6	Lastura 17	Cuartile Deviation Range	Midterm Exam
	Lecture 17	Maan Deviation	
	Lecture 18	Standard Deviation and Variance	
	Lecture 19	Interpreting the Stondard Deviation and	
Week 7	Lecture 20	Coefficient of Variation	
	Lastana 21	Absolute Measure Discussion	
	Lecture 21	Adsolute Measure Dispersion	
Week &	Lecture 22	Inteasures of Moments	
WUUN O	Lecture 23	Skewness and Kurtosis	
	Lecture 24	Cont	
	Lecture 25	Introduction of Index Number	

Week 9		Simple and Composite Index Numbers	
		Main Steps in the Construction of	
		Index Numbers of Cost of Living	
		index and whole sale Prices	
		Problems in the Construction of Index	
		Numbers of whole sale Prices	
	Lecture 26	Fixed Base Method and Chain Base	
		Method	-
	Lecture 27	Weighted Index Numbers (Laspeyre's	
		index, Paassche's index, Dorbish and	
		Bowley's index, Fisher and Marshall	
		Index, Walsch's index and kelly's	
		index)	
	Lecture 28	Unweighted Index Numbers (Simple	
Week 10		Aggregative and Simple average of	$O_{\rm wiz} \# 02$
WEEK IU		relative methods)	Quiz # 02
	-	Quantity Index Numbers	
	Lecture 29	Test of Adequacy of Index Number	
	Lecture 30	Deflating, Base Shifting and Splicing	
		of Index Number	
	Lecture 31	Simple Regression	
Wook 11		Deterministic and Probabilistic Models	Assignment # 02
WEEK II		Simple Linear Regression Model	Assignment # 02
	Lecture 32		-
	Lecture 33	Standard Deviation of Regression	
		Estimate Correlation	
		Difference Correlation and causation	
	Lecture 34	Pearson Product Moment Correlation	
Week 12		Coefficient and Rank Correlation	
		method	
	Lecture 35	Pearson Product Moment Correlation	
		Coefficient and Rank Correlation	
		method	
	Lecture 36	Coefficient of Determination and	
		Properties of OLS estimators	
	Lecture 37	Multiple Regression and Multiple	
Week 13		Correlation	
	Lecture 38	Partial Correlation and multiple	
		coefficient of determination	
	Lecture 39	Probability	
		Introduction Events ant its types	
	Lecture 40	Conditional Probability	
Week 14	Lecture 41	Assigning Probabilities to events	
	Lecture 42	Conditional Probability	
	Lecture 43	Baeye's Theorem and concept of	

		combination and permutation	
Week 15	Lecture 44	Random Variables and Probability	
		Distributions	
	Lecture 45	Mathematical Expectation and some	
		important laws concerning Expectation	
	Lecture 46	Distribution Function, Discrete and	
Week 16		Continuous Random Variables and its	
		Density Functions	
	Lecture 47	Binomial and Poisson probability	
		Distributions	
	Lecture 48	Normal Probability Distribution	
Week 17			Terminal Exam

INTERMEDIATE MICROECONOMICS

COURSE CODE: ECO-213 CREDIT HOURS: 3

Course Contents

An introduction to Economic models optimization techniques

Theoretical models, Production possibility frontier, Maximization of function of one variable Functions of several variables, Constrained maximization ,Homogeneous functions

Consumer theory preferences and utility maximization

Axioms of rational choice, Utility, Indifference curves and marginal rate of substitution

Utility functions for specific preferences, Utility maximization: optimization principle

Indirect utility function, Lump sum principle, Expenditure minimization properties of expenditure functions

Income and substitution effects Demand relationship among goods

Demand functions, Changes in income , Changes in goods price , Individual demand curve

Compensated demand curve, Mathematical development response to price changes Demand elasticity, Consumer surplus revealed preferences, Substitutes and compliments Substitutability with many goods composite commodities, home production, attributes of goods and implicit prices

Production function

Marginal productivity, Iso quant maps and the rate of technical substitution Returns to scale, The elasticity of substitution, Four simple production functions Technical progress

Cost function

Definitions of cost , Cost minimization input choices , Cost functions Cost functions and the shifts in the cost curves , Short run long run distinction

Profit maximization

The nature and behavior of firms, Profit maximization, Marginal revenue, Short run supply by a price taking firm, Profit functions, Profit maximization and input demands

Analysis of competitive markets

Market demand, Timing of supply response, Pricing in the very short run, Short run price determination, Shifts in supply and demands curve, Mathematical model of market equilibrium, Long run equilibrium : constant cost case, Comparative statics : analysis of long run equilibrium

Monopoly monopoly and price discrimination and models of monopoly

Barriers to enter, Profit maximization and output choice, Monopoly and resource allocation

Monopoly, product quality and durability, Price discrimination, Second degree price discrimination through price schedules, Regulation of monopoly, Dynamic views of monopoly

Oligopoly Pricing under homogeneous oligopoly, Product differentiation, Entry

Game theory

Basic concepts , Nash equilibrium , Existence of Nash equilibrium , The prisoners dilemma , A two period game , Pricing in static games , Entry exit and strategy , Games of incomplete information

Recommended Text

Nicholson, W (2005) Microeconomic theory Basic Principles And Extensions, ninth edition, Thomson south western.

Pindyck, R. and D.Rubinfeld and MEHTA (2009) Microeconomics, Seventh Edition, PEARSON

Varian, H.(2006) , Intermediate Microeconomics : A Modern Approach , seventh edition , Norton , London .

Perloff, J. (2007), Microeconomics, fourth edition ,Pearson, Boston.

Week	Lecture	Topics	Activity
	No		
Week	Lecture 1	An introduction to Economic models optimization	
1		techniques	
	Lecture 2	Theoretical models, Production possibility frontier,	

	Lecture 3	Maximization of function of one variable	
Week	Lecture 4	Functions of several variables, ,	
2	Lecture 5	Constrained maximization	
	Lecture 6	Homogeneous functions	
Week	Lecture 7	Consumer theory preferences and utility maximization	
3		Axioms of rational choice, Utility,	Quiz# 01
	Lecture 8	Indifference curves	
	Lecture 9	marginal rate of substitution	
Week	Lecture 10	Utility functions for specific preferences	Assignment 01
	Lecture 11	,Utility maximization:optimization principle	
	Lecture 12	Cont	
Week 5	Lecture 13	Indirect utility function	
	Lecture 14	Lump sum principle	
	Lecture 15	Expenditure minimization properties of expenditure functions	
Week	Lecture 16	Income and substitution effects Demand relationship among goods	Midterm Exam
0		Demand functions, Changes in income	
	Lecture 17	Changes in goods price ,Individual demand curve	
	Lecture 18	Compensated demand curve	
Week	Lecture 19	Mathematical development response to price changes Demand elasticity	
	Lecture 20	Consumer surplus revealed preferences,	
	Lecture 21	Substitutes and compliments Substitutability with many goods composite commoditie	
Week 8	Lecture 22	Cont	

	Lecture 23	home production, attributes of goods and implicit prices	
	Lecture	Production function	
	24	Marginal productivity, Iso quant maps and the rate of technical substitution	
Week	Lecture 25	Returns to scale	
	Lecture 26	The elasticity of substitution	
	Lecture 27	Four simple production functions Technical progress	
Week	Lecture	Cost function	Quiz # 02
10	28	Definitions of cost , Cost minimization input choices	
	Lecture 29	Cost functions, Cost functions and the shifts in the cost curves,	
	Lecture 30	Short run long run distinction	
Week	Lecture	Profit maximization	Assignment #
11	31	The nature and behavior of firms	02
	Lecture 32	Profit maximization, Marginal revenue	
	Lecture 33	Short run supply by a price taking firm Profit functions,	
Week 12	Lecture 34	Profit maximization and input demands	
	Lecture	Analysis of competitive markets	
	35	Market demand, Timing of supply response	
	Lecture 36	Shifts in supply and demands curve	
Week 13	Lecture 37	Comparative statics : analysis of long run equilibrium	
	Lecture 38	Mathematical model of market equilibrium	
	Lecture 39	Long run equilibrium : constant cost case	
Week	Lecture	Monopoly and resource allocation	
14	40	Monopoly, product quality and durability	
	Lecture	Price discrimination, Second degree price discrimination	

	1		
	41	through price schedules	
	Lecture 42	Regulation of monopoly, Dynamic views of monopoly	
Week	Lecture	Oligopoly	
15	43	Pricing under homogeneous oligopoly	
	Lecture 44	Product differentiation, Entry	
	Lecture 45	Game theory Basic concepts , Nash equilibrium , Existence of Nash equilibrium	
Week 16	Lecture 46	The prisoners dilemma, A two period game	
	Lecture 47	Pricing in static games, Entry exit and strategy	
	Lecture 48	Games of incomplete information	
Week			Terminal
17			Exam

DEVELOPMENT ECONOMICS COURSE CODE: ECO-214 CREDIT HOURS: 3

Course Contents
An overview of Development:

Historical experiences of developing countries, broad conceptual explanation of underdevelopment, comparative economic development, emerging major issues of developing world, basic theories of growth and development, and contemporary models of underdevelopment/development.

Domestic problems and Policies:

The nexus of poverty, inequality and underdevelopment, the distribution of wealth and resources, poverty and nutrition, demographic transition, population growth; its causes and consequences, urbanization/rural-urban migrations; its causes and consequences, human capital; education, health and development, agriculture and rural development, wars and conflicts, environment and natural resources, sustainable development.

International problems and Policies:

Trade/access to factor and product markets and development, balance of payment problems, debt, stabilization policies, international shocks, foreign finance, foreign aid, international wars and conflicts, migration and remittances.

Markets and Development:

The role of markets in development, credit, financing, SME's, industrial and trade policies, land, labor and agriculture, livestock, market failure and government intervention, stabilization policies.

Institutions and Development:

What are institutions, how do they facilitate or hinder economic development? The political economy, democracy vs dictatorship, decentralization, good governance, corruption, rent seeking, ethnic conflict, gender inequality, voting and lobbying, the role of civil society.

Recommended Text

Todaro, M.P and S.C Smith Economic Development, 11th edition (2011)

Sokoloff, K. and S. Engerman (2000), "History Lessons: Institutions, Factor Endowments, and Paths of Development in the New World," Journal of Economic Perspectives.

Acemoglu, D., Johnson, S. and J. Robinson (2001), "The Colonial Origins of Comparative Development: An Empirical Investigation," American Economic Review.

S. Anderson and D. Ray (2010), "Missing Women: Age and Disease," Review of Economic Studies.

K. Munshi and J. Myaux (2006), "Social Norms and the Fertility Transition," Journal of Development Economics.

Week No	Lecture	Topics	Activity
	Lecture 1	Historical experiences	
		of developing countries	
	Lecture 2	Broad conceptual	

Week 1		explanation of	
		underdevelopment	
	Lecture 3	Comparative economic	
		development	
	Lecture 4	Emerging major issues	
		of developing world	
	Lecture 5	Basic theories of	
Week 2		growth and	
		development	
	Lecture 6	Cont	
We	Lecture 7	Cont	
ek 3	Lecture 8	Cont	0 : 11.01
	Lecture 9	Basic contemporary	Quiz# 01
		models of	
		underdevelopment	
		/development	
	Lecture 10	Cont	
	Lecture 11	Cont	
Week 4	Lecture 12	Cont	Assignment# 01
	Lecture 13	Cont	
	Lecture 14	Cont	
Week 5	Lecture 15	The nexus of poverty	
	Lecture 16	Inequality and	
		underdevelopment	
Week 6	Lecture 17	The distribution of	Midterm Exam
		wealth and resources	
	Lecture 18	Poverty and nutrition	
	Lecture 19	Demographic transition	
	Lecture 20	Population growth its	
Week 7	Lecture 20	causes and	
		consequences	
	Lecture 21	Rural-urban migration	
	Lecture 22	Its causes and	
Week 8		consequences	
	Lecture 23	Human	
		canital education healt	
		h and development	
	Lecture 24	Agriculture and rular	
		development	
	Lecture 25	Wars and conflicts	
Week 9	Lecture 25	Environment and	
		natural resources	
	Lecture 27	Sustainabla	
		development	
	Lastura 20	Trada /accase to foot	
	Lecture 28	1 rade /access to factor	

Week 10		and product markets	Ouiz # 02
	Lecture 29	Balance of payment	
		and its problems	
	Lecture 30	Stabilization policies	
	Lecture 31	International shocks	
	Lecture 32	Migration and	
Week 11		remmittances	Assignment # 02
	Lecture 33	The role of markets in	
		development	
	Lecture 34	Credit financing	
Week 12	Lecture 35	SME's industrial and	
		trade policies	
	Lecture 36	Land labor and	
		agriculture livestock	
	Lecture 37	Market failure and	
Week 13		government	
		intervention	
	Lecture 38	Stabilization policies	
	Lecture 39	What are institutions	
	Lecture 40	How do they facilitate	
Week 14		economic development	
	Lecture 41	The political economy	
	Lecture 42	Democracy vs	
		decentralization	
	Lecture 43	Good governance	
· · · · · · · ·	Lecture 44	Corruption	
Week 15	Lecture 45	Rent seeking	
	Lecture 46	Ethnic conflict	
Week 16	Lecture 47	Gender inequality	
	Lecture 48	The role of civil	
		society	
Week 17			Terminal Exam

SEMESTER V

ADVANCE MICROECONOMIC

COURSE CODE: ECO-311

CREDIT HOURS: 03

Course Contents Theory of Consumption and Demand Axioms of Rational Behavior, The utility function and budget line, Constrained optimization and the Lagrange function, Utility maximization and ordinary (Marshallian) demand functions, Cost minimization and compensated (Hicksian) demand functions, The inter-relationship between ordinary and compensated demands, The indirect utility function and expenditure function, Homogeneity of demand functions, Elasticity of Demand, Euler's relation and demand elasticities, Engel's Law and income elasticity, Impact of a price change on demand, Bifurcation of the price effect into income and substitution effects, The Slutsky Equation: derivation and interpretation, Gross and net substitutes, Classification of goods: Normal, Inferior and Giffen goods, Clarification of the concepts by using Cobb-Douglas and CES utility functions.

The Theory of Production and Supply

The Production function: components, different forms, Properties of Cobb-Douglas and CES production functions, The iso-quant and its slope, The marginal rate of technical substitution, Diminishing MRTS and convexity of iso-quant, The cost function in relation to production function, Relationship between Average and Marginal cost functions, The short-run marginal cost and supply function, Relationship between the short-run and longrun average cost functions, Relationship between marginal revenue and marginal cost functions, Equilibrium of the firm in the short and long run, Demand for variable factors, Expansion path and returns to scales, Elasticity of substitution, The role of technical progress and shifting of production function overtime.

Market Structures and Price Determination

Critical appraisal of the competitive market assumptions, Efficiency of competitive market, Factors responsible for shifting of demand and supply functions overtime and impact on price, Govt. intervention in the market: price and quantity restriction and impact of taxation on price and consumer's surplus, The imperfect competition: Monopoly and Monopsony, Duopololy and Oligopoly, Monopolistic competition, The economic cost of imperfect competition, Elasticity of demand and Lerner index of market power, The case of public utilities and marginal cost pricing, Natural monopolies and the global markets, The multinational corporations, Introduction to: Game theory and strategic behaviour, Market with uncertainty and imperfect information.

General Equilibrium and Welfare Economics

The concept of efficiency and welfare, Conditions of allocative efficiency: consumption, production and product mix, Theorems of optimality/welfare, The efficiency of competitive market system, Equity and efficiency trade off, Partial versus general equilibrium, The pure exchange economy, Two sector economy (consumption and production), Diagrammatic approach: The Edgworth Box, Production possibility frontier and Social indifference curve, Introduction to computation of general equilibrium in a 2x2x2 (two consumers, two sectors/ commodities, two factors) economy

Recommended Text

Nicholson, Walter - Microeconomic Theory: Basic Principles and Extensions- 8 th Edition (2002) or latest -Thomson & Learning Inc. • Henderson &Quandt - Microeconomic Theory: A Mathematical Approach- • 3 rd Edition (1980)– McGraw Hill International • Silberberg, E. &Suen, W.- The Structure of Economics: A Mathematical Analysis3 rd Edition (2001) – McGraw Hill International • Layard& Walters – Microeconomic Theory- (1978) – McGraw Hill Book Company.

• Perloff, Jeffrey – Microeconomics – (1999) - Addison Wesley Longman, Inc. • Pindyck&Rubinfeld – Microeconomics- 6 th Edition (2004) – Pearson Education Asia

Week No	Lecture	Topics	Activity
	Lecture	The Theory of Consumption and Demand	•
	1	Axioms of Rational Behavior	
Week 1	Lecture	, The utility function and budget line,	
WCCK I	2	Constrained	
	Lecture	optimization and the Lagrange function,	
	3		
	Lecture	Utility maximization and ordinary functions,	
	4		
	Lecture		
Week 2	5		
	Lecture	Cont	
	6		
Week 3	Lecture	(Marshallian) demand Cost minimization and	
	7	compensated (Hicksian) demand functions	Ouiz# 01
	Lecture	Cont	Quizin or
	8		
	Lecture	The inter-relationship between ordinary and	
	9	compensated demands,	
	Lecture	Cont	
Week 4	10		Assignment # 01
		function and expenditure	
	II Looturo	lunction,	
		Cont	
	12 Lecture	Homogeneity of demand function Electicity	
	13	of Demand	
Week 5	Lecture	Cont	
	14		
	Lecture	Euler's relation and demand elasticities	
	15		
	Lecture	Engel's Law and income elasticity. Impact of	
	16	a price change on demand,	
Week 6	Lecture	Cont	Midterm
	17		Exam
	Lecture	Bifurcation of the price effect into income and	
	18	substitution effects	
	Lecture	Cont	
XX 1 7	19		
week /	Lecture	The Slutsky Equation derivation and	
	20	interpretation.	

	Lecture 21	Con	
Week 8	Lecture 22	Gross and net substitutes, Classification of goods: Normal, Inferior and Giffen goods,	
	Lecture 23	Con	
	Lecture 24	Clarification of the concepts by using Cobb- Douglas and CES utility functions.	
Week 9	Lecture 25	Cont	
	Lecture 26	The Theory of Production and Supply	
	Lecture 27	The Production function Properties of, : components, different forms,	
	Lecture 28	Cont	
Week 10	Lecture 29	Cobb-Douglas and CES production functions	Quiz # 02
	Lecture 30	The iso-quant and its slope, The marginal rate of technical substitution, Diminishing MRTS and convexity of iso-quant	
	Lecture 31	Cont	
Week 11	Lecture 32	The cost function in relation to production function	Assignment # 02
	Lecture 33	Relationship between Average and Marginal cost functions, The short-run marginal cost and supply function,	-
Week 12	Lecture 34	Relationship between the short-run and longrun average cost functions,	
	Lecture 35	Relationship between marginal revenue and marginal cost functions, Equilibrium of the firm in the short and long run,	-
	Lecture 36	The role of technical progress and shifting of production function overtime. Demand for variable factors, Expansion path and returns to scales, Elasticity of substitution	
Week 13	Lecture 37	MarketStructuresandPriceDeterminationCritical appraisal of thecompetitivemarket assumptions, Efficiencyof competitive market,	
	Lecture	Factors responsible for shifting of demand	-

	38	and supply functions overtime and impact on	
	Lactura	Covit intervention in the market: price and	
		quantity restriction and impact of taxation on	
	59	price and consumer's surplus	
	Lactura	The imperfect competition: Monopoly and	
Week 14		Monopsony Duopololy and Oligonoly	
	40	Monopolistic competition The economic cost	
		of imperfect competition Flasticity of	
		demand and Lerner index of market power	
	Lecture	The case of public utilities and marginal cost	
	41	pricing Natural monopolies and the global	
		markets. The multinational corporations.	
		Introduction to: Game theory	
	Lecture	and strategic behaviour Market with	
	42	uncertainty and imperfect information	
	Lecture	General Equilibrium and Welfare	
	43	Economics	
Week 15			
		The concept of efficiency and welfare,	
		Conditions of allocative efficiency:	
		consumption, production and product mix.	
		······································	
	Lecture	Theorems of optimality/welfare, The	
	44	efficiency of competitive market system,	
	Lecture	, Equity and efficiency trade off, Partial	
	45	versus general equilibrium	
W 1.16	Lecture	The pure exchange economy, Two sector	
week 16	46	economy (consumption and production),	
	Lecture	Diagrammatic approach: The Edgworth Box,	
	47	Production possibility frontier and Social	
		indifference curve	
		Introduction to computation of general	
	48	equilibrium in a $2x2x2$ (two consumers, two	
W1-17		sectors/ commodities, two factors) economy	Transai 1
week 1/			Terminal
			Exam

ECONOMETRICS-I

COURSE CODE: ECO-312

CREDIT HOURS: 3

Course Contents: Introduction Definition and scope of Econometrics, Economic theory as the basis for empirical analysis, Mathematical and Econometric models, Application of Statistical techniques to Economic data, Ingredients of Econometric modeling: Specification, Estimation, Evaluation and Forecasting. Data Types and Sources, Cross-sectional data, time-series data and pool data, Data at current and constant prices, Sources of data.

The Classical Linear Regression Model (CLRM) The Simple Two- Variable Model

Simple Regression function, population and regression function, linear regression function: linearity in variables and linearity in parameters, Simple Regression Analysis: Estimation, Method of Ordinary Least Squares (OLS), Estimation of regression equation using OLS, Standard error of estimates, Numerical properties of OLS estimators, Statistical properties of OLS estimators (BLUE), Classical Linear Regression Model (CLRM), Assumptions of CLRM, Estimation of the coefficient of determination, Interval estimation of regression coefficients, Classical Normal Linear Regression Model (CNLRM), Difference between CLRM and CNLRM, Properties of OLS estimates under CNLRM, Simple Linear Regression Analysis: Inference, Confidence interval approach for regression coefficients, Test of significance approach for regression coefficients, Analysis of variance (ANOVA), Test of the overall significance of the model, Simple Linear Regression Analysis: Extensions, Regression through the origin, Scaling and measurement of variables, Regression on standardized variables Functional Forms of Regression Function, Log linear models, Cobb Douglas production function Log-Lin models, The constant growth model, Estimating the growth rate, Lin-Log models, Engel curve, Reciprocal models

The Multiple Linear Regression Model (MLRM)

Multiple Regression Analysis, Difference between simple and multiple regression analysis, Interpretation of multiple regression function, Multiple Regression Analysis: Estimation, OLS estimation of multiple regression equation, Standard error of partial regression coefficients, Properties of OLS estimators, Coefficient of determination (R2), R2 and Adjusted R2, Multiple Regression Analysis: Inference, Test of individual significance (t-test), Test of overall significance (F-test) Multiple Regression Function: Extensions, Testing the equality of parameters, Testing linear equality restriction, Testing for structural stability of regression models: The Chow test

Deviation from the Classical Assumptions

Assumptions of the classical model and economic reality, Relaxation of the assumptions and estimation issues, Brief introduction to the nature of problems and alternatives.

(i) Multicollinearity

Linear relationship between any two explanatory variables, Nature and severity of the problem, OLS estimation of regression equation in the presence of perfect multicollinearity, Causes of multicollinearity, Distinction between perfect and partial

Multicollinearity, Detection of the problem and remedial measures.

(ii) Heteroskedasticity

Meaning of Heteroskedasticity, The nature of the problem with reference to economic theory, Cross-section data and the problem of non-constant variances, Consequences for OLS estimators, Detection of the problem and remedial measures in brief, Introduction to the Generalized Least-Squares model (GLS).

(iii) Autocorrelation

Autocorrelation and its causes, Time-series data and emergence of the problem with reference to economic theory, Serial Correlation, The AR(1) process, Consequences of Autocorrelation for OLS estimators, Detection of the problem and remedial measures. Recent Development

Reference Material:

- Gujrati, D.J. Basic Econometrics 4th Edition (2003)- McGraw Hill Company.
- Dougherty, Christopher Introduction to Econometrics 2nd edition (2002) Oxford University Press.
- Koutsoyiannis, A.- Theory of Econometrics 2nd Edition (1977) McMillan.
- Wonnacot & Wonnacot Econometrics 2nd Edition (1970)-John Wiley, New York.
- Pindyck & Rubinfeld- Econometric Models & Economic Forecasts- 3rd Edition (1992)-McGraw Hill Inc.
- Maddala, G.S. Econometrics (1988) McGraw Hill Company.
- Stock H. J. and M. W. Watson (2003), Introduction to Econometrics, India: Pearson Education.

Stewart G. K. (2005), Introduction to Applied Econometrics, United States of America: Curt Hinrichs.

Week	Lecture No	Торіс	Activity
Week 1	Lecture 1	Definition and scope of Econometrics, Economic theory as the basis for empirical analysis, Mathematical and Econometric models,	
	Lecture 2	Application of Statistical techniques to Economic data,	
	Lecture 3	Ingredients of Econometric modeling: Specification, Estimation, Evaluation and Forecasting.	
Week 2	Lecture 4	Data Types and Sources, Cross-sectional data,	

	Lecture 5	time-series data and pool data, Data at current and constant prices,	
	Lecture 6	Sources of data.	
Week 3	Lecture 7	Simple Regression function, population and regression function,	
	Lecture 8	linear regression function: linearity in variables and linearity in parameters,	Quiz # 01
	Lecture 9	Simple Regression Analysis: Estimation, Method of	
		Ordinary Least Squares (OLS),	
Week 4	Lecture 10	Estimation of regression equation using OLS, Standard error of estimates,	
	Lecture 11	Numerical properties of OLS estimators, Statistical properties of OLS estimators (BLUE), Classical Linear Regression Model (CLRM), Assumptions of CLRM, Estimation of the coefficient of determination,	Assignment# 01
	Lecture 12	Interval estimation of regression coefficients, Classical Normal Linear Regression Model (CNLRM), Difference between CLRM and CNLRM, Properties of OLS estimates under CNLRM,	
Week 5	Lecture 13	Simple Linear Regression Analysis: Inference,	
	Lecture 14	Confidence interval approach for regression coefficients,	
	Lecture 15	Test of significance approach for regression coefficients	
Week 6	Lecture 16	Analysis of variance (ANOVA)	Midterm Exam
	Lecture 17	Test of the overall significance of the model, Simple Linear Regression Analysis:	
	Lecture 18	COnt	
Week 7	Lecture 19	Extensions, Regression through the origin, Scaling and	

		measurement of variables,	
	Lecture 20	Regression on standardized variables Functional Forms of Regression Function, Log linear models,	
	Lecture 21	Cobb Douglas production function Log-Lin models, The constant growth model, Estimating the growth rate, Lin-Log models, Engel curve, Reciprocal models	
Week 8	Lecture 22	Multiple Regression Analysis, Difference between simple and multiple regression analysis, Interpretation of multiple regression function,	
	Lecture 23	Multiple Regression Analysis: Estimation,	
	Lecture 24	OLS estimation of multiple regression equation, Standard error of partial regression coefficients,	
Week 09	Lecture 25	Multiple Regression Function: Extensions, Testing the equality of parameters,	
	Lecture 26	Testing linear equality restriction, Testing for structural stability of regression models:	
	Lecture 27	The Chow test, Properties of OLS estimators,	
Week 10	Lecture 28	Coefficient of determination (R2), R2 and Adjusted R2	
	Lecture 29	Multiple Regression Analysis: Inference, Test of individual significance (t-test),	Quiz # 02
	Lecture 30	Test of overall significance (F-test)	
Week 11	Lecture 31	Assumptions of the classical model and economic reality,	
	Lecture 32	Relaxation of the assumptions and estimation issues,	Assignment# 02
	Lecture 33	Brief introduction to the nature of problems and alternatives.	

Week 12	Lecture 34	Linear relationship between any two explanatory variables, Nature and severity of the problem,	
	Lecture 35	OLS estimation of regression equation in the presence of perfect multicollinearity, Causes of multicollinearity,	
	Lecture 36	Distinction between perfect and partial Multicollinearity, Detection of the problem and remedial measures.	
Week 13	Lecture 37	Meaning of Heteroskedasticity, The nature of the problem with reference to economic theory,	
	Lecture 38	Cross-section data and the problem of non-constant variances, Consequences for OLS estimators,	
	Lecture 39	Detection of the problem and remedial measures in brief, Introduction to the Generalized Least-Squares model (GLS).	
Week	Lecture 40	Autocorrelation and its causes,	
14	Lecture 41	Time-series data and emergence of the problem with reference to economic theory,	
	Lecture 42	Serial Correlation,	
Week	Lecture 43	The AR(1) process,	
15	Lecture 44	Consequences of Autocorrelation for OLS estimators,	
	Lecture 45	(Continued) Consequences of Autocorrelation for OLS estimators,	
Week	Lecture 46	Detection of the problem and remedial measures.	
16	Lecture 47	(Continued) Detection of the problem and remedial measures.	
	Lecture 48	Recent Development	
Week17			Terminal
			Exam

MATHEMATICAL ECONOMICS 1 COURSE CODE: ECO-313 CREDIT HOURS: 3

Course Contents

The Nature of Mathematical Economics Pure and applied mathematics, The use of mathematical tools in social sciences, particularly in economics, Economic theory (logical argument) as description of some kind of relationship between variables, Mathematical Support: Expression of theory in functional form, Explaining properties of economic parameters like elasticity, propensity to consume etc., Verification of hypotheses and the use of mathematical models, Parameters and variables (dependent and independent), Linear and non-linear functions: quadratic, polynomial, circular, Types of functions: constant, rational, non-algebraic, logarithms & exponential, Rules of logarithms and exponents, Functions of more than two independent variables, Graphs of various functions, The importance and limitations of mathematical models.

Equilibrium Analysis

Equation of a straight line: Intercept and Slope parameters and their economic interpretation, Partial and general equilibrium analysis, Single and Simultaneous equation models, Examples from market models: Demand and supply equations, Determination of price and quantity, Calculation of elasticities at equilibrium, The effect of an excise tax on market equilibrium, National Income determination: Closed economy with goods and money markets.

Linear Models and Matrix Algebra

Simultaneous equations models and the use of matrices, Types of matrices: Square, identity, null, idempotent, diagonal, transpose and their properties, Laws of matrix operations: addition/subtraction, scalar and vector multiplication, Conditions for non singularity of a matrix, Determinant & its properties, Minors and cofactors, Ad-joint and inverse of a matrix, Properties of inverse of a matrix, Solution of linear equations: the Gaussian method, the Cramer's rule and Inverse matrix method, Economic applications: Solution of market models, national income models, and the normal equations of the Least-Squares econometric model via matrix approach.

Differentiation

The concept of derivations, Functions of one variable and rules of differentiation: Sumdifference, product and quotient rules, chain rule, power function rule, inverse function rule, Implicit functions rule, Combinations of rules, differentiation of logarithmic & exponential functions, Higher order derivatives, Concept of maxima & minima, First and second derivative tests, point of inflection, Free and Constrained optimization, Partial differentiation & its rules, Hessian and Jacobian determinants, Higher order & cross partial derivatives (Young's theorem), Total differentials & total derivatives, Optimizing cubic functions.

Economic Applications of Differential Calculus

Analysis of Utility, Demand, Production, Cost and Supply functions, Lagrange function: Profit maximization and cost minimization under perfect competition and monopoly, Maximizing excise tax revenue in monopolistic competitive market, Comparative static analysis: Partial equilibrium market model, National Income model, Partial and Substitution elasticity's, Optimization of unconstrained functions and their economic applications, Profit maximization by a multi-product

and multi-plant firms, Price discrimination and monopoly, Optimization by using Cobb- Douglas, CES and Translog functions with interpretation of the results.

Linear Programming

Ingredients of linear Programming, Graphical approach, Simplex method, Economic application of linear programming, Concept of primal & dual, Duality theorems, Solving of Primal via dual, Economic interpretation of a dual.

Referance Material

Chaing, Alpha, C. (2004), "Fundamental Methods of Mathematical Economics", 4th edition, McGraw Hill. Additional Reading Budnick, Frank.S. (2001), "Applied Mathematics for Business Economics and Social Sciences", Useful Websites en.wikipedia.org/wiki/Mathematical economics <u>www.cumbavac.org/Math.htm</u>

Week No	Lecture	Topics	Activity
	Lecture 1	Introduction: Nature of Mathematical	
		Economics	
Week 1	Lecture 2	Ingredients of Mathematical model:	
WCCK I	Lecture 3	, Parameters, constants and variables.	
	Lecture 4	Classification of nos. and Real number	
		system.	
	Lecture 5	The concept of set ordered pairs and	
Week 2		Cartesian product.	
WCCK 2	Lecture 6	Function and Relation. Types of functions	
		—Linear, Quadratic, Hyperbolic,	
		Logarithmic and Exponential functions.	
Week 3	Lecture 7	. Graphic representation and the idea of	
		domain and range. Equations and identities	
		simultaneous equations	Quiz# 01
	Lecture 8	Equilibrium Analysis in Economics: Partial	
		market equilibrium—.	
	Lecture 9	liner model partial market equilibrium,	
	Lecture	nonlinear model. General market	
*** 1 4	10	equilibrium.	
Week 4	Lecture	National income equilibrium,	Assignment# 01
	11		
	Lecture	IS and LM equation	
	12	-	
	Lecture	Liner Algebra: Linear algebra vector and	
	13	matrix, types of matrices, Solution of	
Week 5		system of linear equations, Cramers rule for	

		matrix solution, matrix inversion method.	
		application of matrices in economics. Input	
		—output analysis	
	Lecture	matrix operations addition, subtraction	
	14		
	Lecture	. scalar multiplication and multiplication of	
	15	matrix, transpose and its properties.	
	Lecture	Laws of matrix, operations—cumulative,	
	16	associative and distributive laws, rank of a	
Week 6		matrix	Midterm Exam
	Lecture	Determinants and their properties, minors	
	17	and cofactors,	
	Lecture	Laplace expansion matrix, inversion,	
	18	Gaussain elimination, properties of inverse	
		matrix.	
	Lecture	Comparative Static and Derivatives: The	
Week 7	19	derivative and the slope of variable.	
WEEK /	Lecture	. The concept of limit. Limit theorems.	
	20	1	
	Lecture	The derivative and the rule of differentiation	
	21		
	Lecture	Differentiation of function involving more	
Week 8	22	than one choice	
	Lecture	curve Continuity and differentiability of a	
	23	function	
	Lecture	Jacobian determinant. Partial and higher	
	24	order partial derivatives	
	Lecture	Differentials and total derivatives.	
week 9	25		-
	Lecture	logarithmic function. Applications of	
	26	derivatives in economics	
	Lecture	I otal, average and marginal relationships.	
	2/	Electicities and duction functions and their	
	Lecture	Elasticities production functions and their	
Week 10	20 Locturo	Cont	Quiz # 02
	Lecture	Returns to scale Cobb—Douglas	
	30	production functions	
	Lecture	Cont	
	31		
Week 11	Lecture	the constant elasticity's of substitutions	Assignment # 02
	32	production functions	
	Lecture	Cont	
	33		

Week 12	Lecture 34	and the constant elasticity's of substitutions production functions	
	Lecture 35	Cont	
	Lecture 36	Problems of Optimization: and minimum First,	
Week 13	Lecture 37	Optimum values and extreme values. Relative maximum	
	Lecture 38	Point of inflection	
	Lecture 39	second and higher derivatives test	
Week 14	Lecture 40	Nth – derivative,	
	Lecture 41	Cont	
	Lecture 42	Cont	
	Lecture 43	Cont	
Week 15	Lecture 44	test for relative extreme of a function of one variable.	
	Lecture 45	Ingredients of linear Programming dual.	
Week 16	Lecture 46	, Graphical approach,	
	Lecture 47	Simplex method, Economic application of linear programming,	
	Lecture 48	Concept of primal & dual, Duality theorems, Solving of Primal via dual, Economic interpretation of dual	
Week 17			Terminal Exam

INTERNATIONAL TRADE POLICY COURSE CODE: ECO-411 CREDIT HOURS: 3

Course Outline:

Free Trade versus protected Trade

Free trade; meaning: The case for free trade The case against free trade The case against free trade, Protection; meaning: arguments for protection Meaning and types of tariff Effects of tariff under partial equilibrium. Effects of tariff under general equilibrium

Optimum tariff and welfare Effects of a tariff on income distribution import quota

Meaning and types of import quota Effects of import quotas The equivalence of tariff and quotas Import quota vs. tariff Meaning; objectives of exchange control Direct methods; indirect methods. Merits and demerits of exchange control

International economic integration

Types of integration Merits and demerits of Economic integration,

Custom Union

Theories of custom union, The partial equilibrium approach, The general equilibrium approach. Dynamic effects of custom union

Balance of Payments:

Introduction to balance of payment; meaning and structure, balance of payments accounts; theories of balance of payments; Introduction to IMF and World Bank. Meaning; arguments for and against Measures to overcome balance of payment difficulties Export promotion vs. import substitution Foreign trade and economic development

Introduction and importance Arguments in favor of trade and development Its criticism, Commercial policy and economic development

International Institutions Promoting Trade

GATT, UNCTAD, WTO. SAARC. Economic cooperation among LDCs, Asian Development Bank Origin; its objectives its membership. Generalized System of Preferences

Reference Material: •

Dominick Salvatore "International Economics", 10thedition 2009 Krugman, Paul R "International Economics; Theory and Policy" 8th edition 2008

Mannan M.A. - (1996) - Financing Development in Islam - IRTI, Islamic Development Bank, Jeddah.

Week	Lecture .	Topic	Activity
Week 1	Lecture 1	• Free Trade versus protected Trade Free trade; meaning: The case for free trade	
	Lecture 2	• The case against free trade	
	Lecture 3	 Protection; meaning: arguments for protection: Economic arguments for protection 	

Week 2	Lecture 4	Non-economic arguments for protection	
	Lecture 5	Meaning and types of tariff.	
	Lecture 6	Effects of tariff under partial equilibrium	
Week 3	Lecture 7	Effects of tariff under general equilibrium	
	Lecture 8	• Optimum tariff and welfare Effects of a tariff on income distribution	
	Lecture 9	• Effects of tariffs in a large country	Quiz # 01
Week 4	Lecture 10	• Effects of tariffs in a small country	Assignment# 01
	Lecture 11	• Optimum tariff and welfare effects of a tariff on income distribution: The Stopler Samuelson Theorem	
	Lecture 12	 Meaning and objectives of import Quotas Effects of import quotas: partial equilibrium analysis 	
Week 5	Lecture 13	• The equivalence of tariff and quotas Import quota vs. tariff	
	Lecture 14	 Meaning; objectives of exchange control Direct methods; indirect methods, 	
	Lecture 15	 Merits and demerits of exchange control • 	
Week 6	Lecture 16	 International economic integration Types of integration 	Midterm Exam
	Lecture 17	Merits of Economic integration, demerits of Economic integration	
	Lecture 18	Cont	
Week 7	Lecture 19	 Custom Union Theories of custom union, 	
	Lecture 20	The Theory of the Second Best	
	Lecture 21	Other Static Welfare Effects of Customs Unions	
Week 8	Lecture 22	• The partial equilibrium approach,	

	Looturo 22	The general equilibrium approach	
		The general equilibrium approach,	
	Lecture 24	• Dynamic effects of custom union	
Week 09	Lecture 25	Balance of Pa Introduction to balance of payment and balance of trade;	yments:
	Lecture 26	• meanings and differences between (B.O.P&B.O.T)	
	Lecture 27	. accounts balance of payments	
Week 10	Lecture 28	theories of balance of payments	Quiz # 02
	Lecture 29	Cont	
	Lecture 30	Introduction to World Bank	
Week 11	Lecture 31	• arguments for and against Measures to overcome balance of payment	Assignment# 02
	Lecture 32	• difficulties Export promotion vs. import substitution	
	Lecture 33	Foreign trade and economic development	
Week 12	Lecture 34	 Introduction and importance Arguments in favor of trade and development . 	
	Lecture 35	• Introduction and importance Arguments in favor of trade and development Its criticism	
	Lecture 36	Commercial policy and economic development. The Trade Agreements Act of 1934	
Week	Lecture 37	International Institutions Promoting Trade GATT	
	Lecture 38	• The 1962 Trade Expansion Act and the Kennedy	
	Lecture39	• The Trade Reform Act of 1974 and the Tokyo Round	
Week	Lecture 40	• The 1984 and 1988 Trade Acts	
14	Lecture 41	• The Uruguay Round (most ambitious round)	

	Lecture 42	•	Outstanding Trade Pro	plems and Doha Round	
Week	Lecture 43	•	UNCTAD		
15	Lecture 44	•	WTO. Origin and its o	bjectives	
	Lecture 45	•	SAARC		
Week 16	Lecture 46	•	Economic cooperation	among LDCs	
	Lecture 47	•	Asian Development Ba its objectives its m	nk Origin; embership,	
	Lecture 48	•	Generalized Preferences	System	of
Week17					Terminal
					Exam

RESEARCH METHODS AND TECHNIQUECOURSE CODE:ECO-412

CREDIT HOURS: 03

Course Contents

Survey and Research:

Survey and other social research, sources of Information, accuracy of information, Instruments studies design, fieldwork techniques, questionnaire, interview schedules, sample selection

Writing Skills and Presentation of Research Material:

Introduction, Literature review, analytical framework, data, results, conclusion, reference, footnotes, endnotes, Latin abbreviations, bibliography, proof reading techniques/ symbols.

Descriptive Statistical Analysis:

Using SPSS for Descriptive Statistical Analysis (Average, growth, trend, Correlation and Inequality).Computer Application

Econometric Analysis:

Using SPSS for Model Specifications and OLS estimation test of significance independent samples t-test, F-test, Chi-Square test Using e-views / Micro fit for estimating systems of equations, trends and forecasts. Computer application Reading: Text books on statistical/ econometrics and manual or basic material of recommended software

Presentation of Data and Project Reports:

How to present data (use of Figure, charts, pic, bars, Gantt-chart and Pictogram). Computer application

Reference Material

John Creedy (2008), Research Without Tears: From the First

Ideas to Published Output, Edward Elgar, Cheltenham, UK.

Further reading:

• Greenlaw, Steven (2006). Doing Economics: A Guide to Understanding and

Carrying out Economic Research. Boston, MA: Houghton Mifflin.

• Babbie, Earl (2006). The Basics of Social Research. Belmont, CA: Wadsworth Publishing/Thomson Learning

Week No	Lecture	Topics			Activity	
	Lecture 1	Introduction	research	methods	and	

	Techniques		
Lecture 2	Survey		
Lecture 3	Cont		
Lecture 4	Cont		
Lecture 5	Cont		
Lecture 6	Cont		
Lecture 7	Survey and Research:		
Lecture 8	Cont	0	
Lecture 9	Survey and other social research, , accuracy	Quiz# 01	
	of information, ,		
Lecture	sources of Information		
10		A	
Lecture	Instruments studies design	Assignment# 01	
11			
Lecture	questionnaire,		
12			
Lecture	Cont		
13			
Lecture	Cont		
14			
Lecture	interview schedules, sample selection		
15			
Lecture	Cont		
16		Midterm Exam	
Lecture	writing Skills and Presentation of Research		
I /	Cont		
18	Cont		
Lecture	Material: Introduction data results		
19	conclusion		
17			
Lecture	, Literature review, analytical framework		
20			
Lecture	reference, footnotes, endnotes, Latin		
21	abbreviations,		
Lecture	Cont		
22			
Lecture	bibliography, proof reading techniques/		
23 Lasture	Symbols.		
24			
Lecture	Cont.		
25			
Lecture	Cont		
	Lecture 2 Lecture 3 Lecture 4 Lecture 5 Lecture 6 Lecture 7 Lecture 8 Lecture 9 Lecture 9 Lecture 10 Lecture 11 Lecture 12 Lecture 13 Lecture 13 Lecture 14 Lecture 15 Lecture 16 Lecture 16 Lecture 17 Lecture 18 Lecture 20 Lecture 20 Lecture 20 Lecture 22 Lecture 23 Lecture 23 Lecture 23 Lecture 23 Lecture 23	TechniquesLecture 2SurveyLecture 3ContLecture 4ContLecture 5ContLecture 6ContLecture 7Survey and Research:Lecture 8ContLecture 9Survey and other social research, , accuracy of information, ,Lecture 10sources of Information10Information, ,LectureInstruments studies design11uestionnaire,12Interview schedules, sample selection13Interview schedules, sample selection14Interview schedules, sample selection15Interview schedules, sample selection16Vriting Skills and Presentation of Research17Intervial: Introduction, data, results, conclusion,18Interval: Introduction, data, results, conclusion,19Cont11abbreviations,LectureCont20Interview schedules, endnotes, Latin abbreviations,12Cont13Introduction, data, results, conclusion,14Cont15Interview schedules, endnotes, Latin abbreviations,16Interview schedules, endnotes, Latin abbreviations,17Cont18Interview schedules, endnotes, Latin abbreviations,19Cont20Interview schedules, endnotes, Latin abbreviations,21Lecture cont.22Interview schedules, endnotes, Latin abbreviations,23 </td	

	20		
	26		
	Lecture	Descriptive Statistical Analysis:	
	27	Introduction	
	Lecture	Using SPSS for Descriptive Statistical	
WY 1 10	28	Analysis (Average, growth, trend,	
Week 10		Correlation and Inequality).Computer	Quiz # 02
		Application	
	Lecture	Cont	
	29		
	Lecture	Cont	
		Cont	
	30		
	Lecture	Cont	
Week 11	31		Assignment # 02
WCCK II	Lecture	Cont	
	32		
	Lecture	Econometric Analysis: Using SPSS for	
	33	Model Specifications and OLS estimation	
	Lecture	test of significance independent samples t-	
Week 12	34	test, F-test, Chi-Square test Using e-views /	
		Micro fit for estimating systems of	
		equations, trends and forecasts.	
	Lecture	Cont	
	35	Contin	
	Lecture	Cont	
	36		
	Looturo	Cont	
Week 13			
WEEK 15	3/ I (
	Lecture	Cont	
	38		
	Lecture	Cont	
	39		
** *	Lecture	Computer application Reading: Text books	
Week 14	40	on statistical/ econometrics and manual or	
		basic material of recommended software	
	Lecture	Cont	
	41		
	Lecture	Cont	
	42		
	Lecture	Cont	
	43		
Week 15	Lecture	Cont.	
	44		
	Lecture	Presentation of Data and Project Reports:	
		a resentation of Data and Froject Reports.	
	HJ Looture	How to present data (use of Figure -1	
	Lecture	I now to present data (use of Figure, charts,	

Week 16	46	pic, bars, Gantt-chart and Pictogram).	
		Computer application	
	Lecture	Cont	
	47		
	Lecture	Cont	
	48		
Week 17			Terminal Exam

PUBLIC FINANCECOURSE CODE: ECO-413CREDIT HOURS: 03

Public Finance:

Role and meaning of public finance, theories of public goods, externalities and congestion; distribution, equity and economic welfare; political and social choice, benefit-cost analysis and public expenditure evaluation principles; positive and normative analysis of taxation informal and black economy.

Fiscal Policy:

Role of public sector in macroeconomics stability, economic growth, poverty reduction and equity; overlapping generations models, social security, pensions and government bonds, analysis of budget deficits, internal and external borrowings and debt dynamics.

Cost-Benefits Analysis & Project Appraisal:

Techniques of cost benefit analysis of investment project, uses of shadows prices; problems of estimating benefits in highway, irrigation, power and other projects; unemployment and use of surplus, alternative Investment criteria, Criteria for cost benefit analysis.

Fiscal Policy in LDCs and Pakistan:

Fiscal and monetary policy in Pakistan, LDC,s and taxation expenditure, problem of balancing. The budget, deficit financing and public borrowing. Federal-provincial relations in Pakistan. Use of budget for promoting economic and social objectives with reference to development planning in Pakistan.

Reference Material

1:Rosen and Harvey S.,(1999), Public Finance, McGraw Hill.

2: Musgrave R.A and B.P., Musgrave, Public Finance in Theory and Practice, McGraw Hill.

3:Stiglitz E.,(2000), Economics of the Public sector, W.W.Norton and Co.

Week No	Lecture	Topics	Activity
	Lecture 1	Course introduction	
Week 1	Lecture 2	Role and meaning of public finance	
	Lecture 3	Theories of public goods	
	Lecture 4	Cont	
Week 2	Lecture 5	Cont	
	Lecture 6	Cont	
	Lecture 7	Externalities and congestion	
Week 3	Lecture 8	Distribution	Quiz# 01
	Lecture 9	Equity and economic welfare	
	Lecture 10	Political and social choice	
XX7 1 4	Lecture 11	Cost-benefit analysis	
Week 4	Lecture 12	Public expenditure evalution principles	Assignment# 01
	Lecture 13	Cont	
XX 1 5	Lecture 14	Informal and black economy	
Week 5	Lecture 15	Positive and normative analysis of	
		taxation	
	Lecture 16	Cont	
W 1 C	Lecture 17	Role of public sector in	
week 6		macroeconomics stability	Midterm Exam
	Lecture 18	Cont	
	Lecture 19	Economic growth	
Weels 7	Lecture 20	Poverty reduction	
week /	Lecture 21	Equity	
	Lecture 22	Overlapping generations model	
Week 8	Lecture 23	Cont	
	Lecture 24	Cont	
	Lecture 25	Social security	
Week 9	Lecture 26	Pension and government bonds	
	Lecture 27	Cont	
	Lecture 28	Analysis of budget deficits	
W1-10	Lecture 29	Cont	0:- # 02
week 10	Lecture 30	Internal and external borrowings and	Quiz $\# 02$
		debt dynamics	
	Lecture 31	Techniques of cost benefit analysis of	
Wash 11		investment projects	A agi ann an t # 02
week 11	Lecture 32	Cont	Assignment # 02
	Lecture 33	Uses of shadow prices	
	Lecture 34	Problems of estimating benefits in	
Week 12		highway	
	Lecture 35	Irrigation power and other projects	
	Lecture 36	Unemployment and use of surplus	
	Lecture 37	Alternative investment criteria	

Week 13	Lecture 38	Criteria for cost benefit analysis	
	Lecture 39	Fiscal and monetary policy in Pakistan	
	Lecture 40	Cont	
Week 14	Lecture 41	LDSs and taxation	
	Lecture 42	Expenditure	
	Lecture 43	Problem of balancing	
XX 1 17	Lecture 44	The budget financing	
Week 15	Lecture 45	Public borrowings	
	Lecture 46	Federal provincial relation in Pakistan	
Week 16	Lecture 47	Use of budget for promoting economic	
		and social objectives with reference to	
		development planning in Pakistan	
	Lecture 48	Cont	
Week 17			Terminal Exam

OPTIONAL NON ECONOMICS

POLITICAL SCIENCE

COURSE CODE: POL-125

CREDIT HOURS: 0

Course Outline:

Introduction:

The course has designed in such a way that it will help the students with the Fundamentals of the subject of Political Science and prepare them for advanced studies in the forthcoming semesters. The very basic concepts and terminology commonly used in the further courses of studies are taught to make the students friendly with the subject.

Introduction to Political Science

Scope of Political science, Importance and utility, Methods of study, Approaches to study of Political Science

Subject Matter of Political Science

Relations with other Sciences, Modern Trends and Schools of Thoughts, Systematic Approach, Behavioral Approach

State

Definition, Essential Elements, State & Government, Islamic Concepts of State, State and Society, State and Associations, Ends and Functions of the State, Divergent Views, Idealism, Utilitarianism,

Individualism, Welfare Concept of State, Real Purpose, Essential Functions, Secondary Functions, Islamic Concept of Welfare State

Sovereignty

Definition, Characteristics and kinds of Sovereignty, Attributes, Austin's Concept, Critical View, Islamic Concept, Attributes, Implications

Law

Definition, Kinds, Characteristics, Source of Law, Types of Law, Islamic concept of Law, Source of Islamic Law

Forms of Government

Classification, Dictatorship, Aristocracy, Monarchy, Democracy, Parliamentary form of Government, Presidential form of Government, Unitary and Federal form of government, Characteristics and features, Merits and Demerits

Liberty

Definitions, Kinds of Liberty, Nature of Rights, Kinds of Rights, Rights and Obligations, Safeguards of Liberty, Law and Liberty, Liberty and Equality, Basic Human Rights in Islam, Rights of Non-Muslims in an Islamic State

Organs of Government

Legislature, Executive, Judiciary

The political Process

Elections and Electorate, Advantages and disadvantages, Political parties, Public opinion, interest groups

Reference Material:

- Ahmad, Sheikh Bashir, Riyasat Jo Ilm (Sindhi meaning Science of State), Jamshoro, Institute of Sindhalogy, University of Sindh, 1985.
- Mazherul, Haq Theory and Practice in Political Science, Lahore Book land, 1996.
- Ian Mackenzi (Ed.),Political Concepts: A Reader and Guide, Edinburgh, University Press, 2005
- Mohammad Sarwar, Introduction to Political Science, Lahore Ilmi Kutub Khana, 1996.

Week	Lecture No.	Topic	Activity
Week 1	Lecture 1	Introduction	
		 Introduction to the political science 	
		• Definitions, meanings	
		Importance of the Subject	
	Lecture 2	Scope of political science	
		Nature of political Science	
		• Utility	
		Methods of Study	
	Lecture 3	• The State	

		EvolutionDefinition	
		Essential Elements of State	
Week 2	Lecture 4	 Approaches to study of Political Science 	
		• Relationship with the other social sciences	
		Subject/Matter of Political Science	
		 Modern Trends and School of Thought • 	
	Lecture 5	The State Free lating	
	Lecture 6	Evolution Definition	
	Lecture 0	Definition Essential Elements of State	
Wook 3	Lecture 7	Essential Elements of State State and Society	
WEEK J	Lecture /	State and Government	
		State and Association	
		 Finds and functions of the state 	
		Divergent views	
	Lecture 8	Idealism view	
	Leeture	Utilitarianism view	
		Individualism view	
	Lecture 9	Welfare State	Quiz # 01
		• Function of welfare state	
Week 4	Lecture 10	Real Purpose of State	
		Essential Functions of State	
		Secondary functions	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		Islamic concept of welfare State	
	Lecture 11	Islamic concept of welfare State     SOVEREIGNTY	
	Lecture 11	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> </ul>	
	Lecture 11	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> </ul>	
	Lecture 11	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> </ul>	
	Lecture 11 Lecture 12	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> </ul>	
	Lecture 11 Lecture 12	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> </ul>	
	Lecture 11 Lecture 12	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> </ul>	
	Lecture 11 Lecture 12	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> </ul>	
Week 5	Lecture 11 Lecture 12	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> <li>LIBERTY</li> </ul>	Assignment# 01
Week 5	Lecture 11 Lecture 12 Lecture 13	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> <li>LIBERTY</li> <li>Meanings</li> </ul>	Assignment# 01
Week 5	Lecture 11 Lecture 12 Lecture 13	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> <li>LIBERTY</li> <li>Meanings</li> <li>Kinds of Liberty</li> </ul>	Assignment# 01
Week 5	Lecture 11 Lecture 12 Lecture 13	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> <li>LIBERTY</li> <li>Meanings</li> <li>Kinds of Liberty</li> <li>Nature of Rights</li> </ul>	Assignment# 01
Week 5	Lecture 11 Lecture 12 Lecture 13	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> <li>LIBERTY</li> <li>Meanings</li> <li>Kinds of Liberty</li> <li>Nature of Rights</li> <li>Kind of Rights and Obligations</li> </ul>	Assignment# 01
Week 5	Lecture 11 Lecture 12 Lecture 13	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> <li>LIBERTY</li> <li>Meanings</li> <li>Kinds of Liberty</li> <li>Nature of Rights</li> <li>Kind of Rights and Obligations</li> <li>Safeguards of Liberty</li> </ul>	Assignment# 01
Week 5	Lecture 11 Lecture 12 Lecture 13	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> <li>LIBERTY</li> <li>Meanings</li> <li>Kinds of Liberty</li> <li>Nature of Rights</li> <li>Kind of Rights and Obligations</li> <li>Safeguards of Liberty</li> <li>Law and Liberty</li> </ul>	Assignment# 01
Week 5	Lecture 11 Lecture 12 Lecture 13	<ul> <li>Islamic concept of welfare State</li> <li>SOVEREIGNTY</li> <li>Definition</li> <li>Kinds of sovereignty</li> <li>Attributes</li> <li>Austin's Concept of sovereignty</li> <li>Critical view</li> <li>Islamic concept</li> <li>Attributes</li> <li>Implications</li> <li>LIBERTY</li> <li>Meanings</li> <li>Kinds of Liberty</li> <li>Nature of Rights</li> <li>Kind of Rights and Obligations</li> <li>Safeguards of Liberty</li> <li>Law and Liberty</li> <li>Liberty and Equality</li> </ul>	Assignment# 01

	Lecture 14	<ul> <li>Basic Human Rights in Islam</li> <li>Rights</li> <li>Important rights of citizen</li> </ul>	
	Lecture 15	<ul> <li>Rights of Non-Muslims in Islamic State</li> <li>Separate Identity</li> </ul>	_
Week 6	Lecture 16	Classification of Minorities	
	Lecture 17	Presentations	-
	Lecture 18	Cont	
Week 7	Lecture 19	<ul> <li>LAW</li> <li>Definition</li> <li>Modern School of Jurisprudence</li> <li>Source of Law</li> <li>Classification</li> </ul>	
	Lecture 20	<ul> <li>Law and Morality</li> <li>Islamic Law</li> <li>Source of Islamic Law</li> <li>Importance of Ijtihaad</li> </ul>	
	Lecture 21	<ul> <li>Organization of Government</li> <li>Forms of Government</li> <li>Classification of Governments</li> <li>Democracy</li> </ul>	
Week 8	Lecture 22	<ul> <li>Definitions, characteristics</li> <li>Conditions of democracy</li> <li>Advantages of democracy</li> <li>Disadvantages of democracy</li> <li>Islamic concept of democracy</li> </ul>	
	Lecture 23	<ul> <li>Salient Features of Democracy</li> <li>Dictatorship</li> <li>Kinds</li> <li>Characteristics</li> <li>Merits and demerits</li> </ul>	
	Lecture 24	<ul> <li>Advantages and Disadvantages</li> <li>Condition for Dictatorship</li> <li>Pakistan faced Dictatorship more than four times</li> <li>Causes of Dictatorship in Pakistan</li> </ul>	
Week 09	Lecture 25	<ul> <li>Presidential and Parliamentary form of</li> <li>Government</li> <li>Features of Presidential System</li> <li>Features of Parliamentary System</li> </ul>	Quiz # 02

		Merits and Demerits	
	Lecture 26	• Unitary and Federal system of Government	
		Definitions	
		Unitary Government	
		Federal Government	
		Salient Features of Federation	
	Lecture 27	Federation and confederation	
		Formation of Federation	
		Conditions of Federation	
		<ul> <li>Advantages and Disadvantages</li> </ul>	
		• Future of Federation	
Week 10	Lecture 28	• The Legislature	
		• Evolution	
		Organization and procedure	
		• Functions of Legislature	
	Lecture 29	Legislature remaining part	Assignment# 02
		Bicameral and Unicameral	
		Upper chamber	
		Lower chamber	
		Advantages and Disadvantages	
	Lecture 30	• The Executive	
		Kind of Executive	
		Organization	
		• Executive head	
		• Executive council	
Week 11	Lecture 31	<ul> <li>Civil services and its Characteristics</li> </ul>	
		<ul> <li>Functions of Political Executive</li> </ul>	
		Powers of political executive	
	Lecture 32	THE JUDICIARY	
		Organization	
		Independence of Judiciary	
		• Relationship with the Executive	
	Lecture 33	Relationship with the Legislature	
		• Separation of power	
Week 12	Lecture 34	POLITICAL PROCESS AND INSITUTIONS	
		• Electorate	
		Adult and Restricted Franchise	4
	Lecture 35	Direct Legislation	
		Adventeges and Disadventeges	
		Auvantages and Disauvantages     Deforondum	
	Lecture 36	Initiative	+
		Plebiscite	
L	1		1

		<ul><li>Recall</li><li>Free Elections</li></ul>	
Week 13	Lecture 37	<ul> <li>Direct and indirect Elections</li> <li>Voting Behavior</li> <li>Method of Voting</li> <li>Voting and Election in Islamic state</li> <li>Representation of Minorities</li> <li>Single and multi-members Constituencies</li> <li>Advantages and Disadvantages</li> </ul>	
	Lecturen38	<ul> <li>Electoral Districts</li> <li>Proportional Representation</li> <li>Communal Representation</li> <li>Functional Representation</li> </ul>	
	Lecture 39	<ul> <li>POLITICAL PARTIES</li> <li>Importance of political parties</li> <li>Promotions</li> <li>Objectives</li> <li>Functions of Political Parties</li> </ul>	
Week 14	Lecture 40	<ul> <li>Advantages and Disadvantages of political parties</li> <li>Two party and Multiple Party system</li> <li>Classification of political parties</li> <li>Single party system</li> </ul>	
	Lecture 41	<ul> <li>Public Opinion</li> <li>Meaning</li> <li>Definition</li> <li>Importance</li> <li>Effective public opinion</li> <li>Formation and Expression</li> </ul>	
	Lecture 42	<ul> <li>Public opinion and cultural aspects</li> <li>Measurement of Public opinion</li> <li>Problems of opinion polls</li> <li>Public opinion and propaganda</li> </ul>	
Week 15	Lecture 43	<ul> <li>Interest groups and pressure groups</li> <li>Interest groups</li> <li>Pressure groups</li> </ul>	
	Lecture 44	<ul><li>Almonds concept</li><li>Importance of pressure groups</li></ul>	
	Lecture 45	<ul><li>Modes of political actions</li><li>lobbying</li></ul>	

	Lecture 46	<ul><li>Factors affecting group activities</li><li>Interest groups and Democracy</li></ul>	
Week 16	Lecture 47	• Interest groups and political parties	
	Lecture 48	• Role of pressure groups on molding public opinion	
		Cont	
Week17			Terminal
			Exam

## INTRODUCTION TO MANAGEMENT

#### COURSE CODE: MGT-219 CREDIT HOURS: 03

#### **Course Contents:**

The contents of the course include: overview, nature & challenges of the management profession, managers and entrepreneurs, the evolution of management thought, the changing managerial environment, international & cross- cultural management, management's social & ethical responsibilities, the basics of planning, strategic, long-term planning, decision-making & creative problem solving, organization's structure, effectiveness, & culture, newer approaches to organizing, human resources management, communicating in the computer age, motivating job performance, group dynamics & teamwork. Influence processes and leadership, production & organization control processes, improving product & service quality

#### **Reference Material**

#### **Recommended Text:**

- 1. Robbins P.S. and Coulter M. : Management (10th Edition), Prentice Hall.
- 2. Ricky W. Griffin. Fundamental of Management. 3rd ed. Texas and A. M. University

Week	Lecture .	Торіс	Activity
Week 1	Lecture 1	Foundation of management.	
	Lecture 2	Definition, Scope and Functions of Management	
	Lecture 3	Management & Organization.	
Week 2	Lecture 4	Different Levels of Management	

	Lecture 5	Roles and Skills of Management,	-
	Lecture 6	Management Process	-
Week 3	Lecture 7	Evolution of Management.	
	Lecture 8	Management theories and perspectives,	Quiz # 01
	Lecture 9	Scientific Management.	1
Week 4	Lecture 10	History of Scientific Management	
	Lecture 11	Administrative Management, Bureaucratic Management.	Assignment#
	Lecture 12	Behavioral theories	01
Week 5	Lecture 13	System Approach, Contingency Approach.	
	Lecture 14	Cont	
	Lecture 15	Corporate social responsibility	
Week 6	Lecture 16	Organizational culture & environment:	Midterm Exam
	Lecture 17	Different Views and Sources of Culture.	
	Lecture 18	Cont	
Week 7	Lecture 19	Current Trends & Issues of Management; workforce diversity.	
	Lecture 20	Ethics in management,	
	Lecture 21	Factors affecting ethics and improving ethical behaviors.	
Week 8	Lecture 22	Globalization and Management	
	Lecture 23	Discussion	
	Lecture 24	Organizational & Environmental Analysis: SWOT & PEST analysis.	
Week	Lecture 25	Cont	

09			
	Lecture 26	External & Internal Environmental Factors, Task & Mega Environment.	
	Lecture 27	Decision making: Decision making process of eight steps and its Conditions.	
Week 10	Lecture 28	Cont	
	Lecture 29	Decision Making Errors and Biases	Quiz # 02
	Lecture 30	Types of Problems & Comparison Respective Decisions.	
Week 11	Lecture 31	Cont	
	Lecture 32	Foundation of planning: Conceptual View of Planning and its Purpose & importance.	Assignment# 02
	Lecture 33	Challenges & Types of planning, Developing Organizational Goals, Types of Goals.	
Week 12	Lecture 34	Cont	
	Lecture 35	Types of Organizational Strategies:	
	Lecture 36	Corporate and business Strategies	
Week 13	Lecture 37	Functional strategies, Strategic Flexibility.	
	Lecture 38	Cont	
	Lecture 39	Strategic management: Strategic Management Process & Formulation of Strategies.	
Week 14	Lecture 40	Types of Organizational Structure Departmentalization & Chain of Command.	
	Lecture 41	Cont	
	Lecture 42	Leadership & management: Who are Leaders? What is Leadership?	
Week	Lecture 43	Presentation	
15	Lecture 44	Presentation	
	Lecture 45	Presentation	
Week	Lecture 46	Discussion	
16	Lecture 47	Foundation of management.	

	Lecture 48	Definition, Scope and Functions of Management	
Week17			Terminal
			Exam

# INTRODUCTION TO COMMERCE COURSE CODE: COM-316 CREDIT HOURS: 03

#### Course Contents:

Commerce: Nature of Commerce,

Business: Meaning, Nature, Scope and Importance. Problems, Functions and Qualities

of a Businessman, Types of Businesses.

#### Preparing the Online Business:

Competitor Analysis on the Internet, the Fourth Channel, Paradigms in the New Economy, Driving Business Process Re-engineering, Designing, Developing and Deploying the System, Supply Chain Management

#### Sole Proprietorship:

Features, Importance, Merits and Demerits.

#### Partnership:

Features, Merits and Demerits, Co-Ownership vs. Partnership; Classification of Partners; Rights, Duties and Liabilities of Partners, Dissolution of Partnership.

#### Joint Stock Company:

Features, Merits And Demerits, Formation, Memorandum Of Association; Articles Of Association, Prospectus, Capital, Management, Meetings, Winding Up.

#### **Cooperative Society:**

Features, Kinds, Merits and Demerits.

#### **Combination:**

Meaning, Causes and Purposes, Advantages and Disadvantages. Types of Combination. Forms of Combination.

#### Trade:

Wholesales, Retail, Import And Export. Export Promotion Bureau and Its Role.

#### Marketing Operation:

Definition, Functions, Scope, Advantage and Disadvantage, Marketing Versus Selling.

#### **Channels of Distribution**:

Meaning, Functions, Kinds, Selection of Channels, Advantages.

#### Sales Promotion:

Meaning, Objects and Methods.

#### Advertising:

Meaning, Objects, Types, Merits and Demerits, Advertising Media.

#### Warehousing:

Definition, Functions, and Kinds.

#### **Business Risk**:

Definition, Types, Methods of Handling Risk.

#### Insurance:

Meaning, Principles, Kinds (Life, Fire, Marine) Importance.

#### Management:

Definition, Basic Functions and Management.

#### **Reference Material**

1. Amit Vikram, Introduction to Commerce Saeed Nasir, Introduction to Busienss

 Kenneth C. Laudon, Carol GuercioTraver (Latest Edition), E-Commerce : Business Technology, Society, PearsonEducation Marilyn Greenstein, Miklos Vasarhelyi (Latest Edition),

3. Nisar-Ud-Din. Business Organization. Aziz Publishers, Urdu Bazaar, Lahore.
- 4. Muhammad Irshad, Introduction to Business, Naveed Publishers Lahore.
- **5.** Khalid Mehmood Cheema, Introduction To Business, Syed Mobin Mahmood & Co. Lahore.Glass & Baker. Introduction to Business.
- 2 Ali M.H. Introduction to Business

Week No	Lecture	Topics	Activity
	Lecture 1	Course introduction	
Week 1		Commerce:	
		Nature of Commerce,	
	Lecture 2	Problems Eurotions and Qualities	_
		of a Businessman,	
	Lecture 3	Types of Businesses.	-
	Lecture 4	Cont	
Week 2	Lecture 5	Preparing the Online Business:	
	Lecture 6	Cont	
Week 3	Lecture 7	Competitor Analysis on the Internet, the Fourth Channel	Quiz# 01
	Lecture 8	, Paradigms in the New Economy	
	Lecture 9	Driving Business Process Re- engineering	
Week 4	Lecture 10	Driving Business Process Re- engineering, Designing, Developing and Deploying the System, Supply Chain Management	Assignment# 01
	Lecture 11	Cont	
	Lecture 12	Cont	
	Lecture 13	Cont	
Week 5	Lecture 14	Sole Proprietorship:	
		Features, Importance, Merits and	
		Demerits.	
	Lecture 15	Partnership:	-
		Features, Merits and Demerits, Co- Ownership vs. Partnership; Classification of Partners; Rights, Duties and Liabilities of Partners, Dissolution of Partnership.	

	Lecture 16	Cont	
West (	Lecture 17	Cont	Middama Francis
week 6	Lecture 18	Cont	Midterm Exam
	Lecture 19	Joint Stock Company:	
Week 7		Features, Merits And Demerits,	
WEEK /		Formation, Memorandum Of	
		Association; Articles Of Association,	
		Prospectus, Capital, Management,	
		Meetings, Winding Up.	
	Lecture 20	Cont	
	Lecture 21	Cooperative Society:	
		Features Kinds Merits and Demerits	
	Lecture 22	Combination:	
Week 8		Meaning Causes and Purposes	
		Advantages and Disadvantages Types	
		of Combination Forms of	
		Combination.	
	Lecture 23	Cont	
	Lecture 24	Cont	
Week 9	Lecture 25	Trade:	
Week y		Wholesales, Retail, Import And	
		Export. Export Promotion Bureau and	
		Its Role.	
	Lecture 26	Cont	
	Lecture 27	Cont	
	Lecture 28	Marketing Operation:	
Week 10		Definition, Functions, Scope,	Quiz # 02
		Advantage and Disadvantage,	
		Marketing Versus Selling.	
	Lecture 29	Cont	
	Lecture 30	Cont	
	Lecture 31	Channels of Distribution:	
Week 11		Meaning, Functions, Kinds, Selection	Assignment # 02
		of Channels,	
		Advantages.	

	Lecture 32	Cont	
	Lecture 33	Cont	
	Lecture 34	Sales Promotion:	
Week 12		Meaning Objects and Methods	
	Lecture 35	Cont	
	Lecture 36	Advertising.	-
		Meaning, Objects, Types, Merits and	
		Demerits, Advertising Media.	
	Lecture 37	Cont	
Week 13	Lecture 38	Cont	
	Lecture 39	Warehousing:	
		Definition Functions and Kinds	
	Lecture 40	Cont	
Week 14	Lecture 41	Business Risk	
		Definition, Types, Methods of	
		Handling Risk.	
	Lecture 42	Cont	
	Lecture 43	Insurance:	
Weels 15	Lecture 44	Meaning, Principles, Kinds (Life,	
Week 15		Fire Marine) Importance	
	Lecture 45	Financial statements Balance	
		sheet Income statement	
	Lecture 46	Income statement	
Week 16	Lecture 47	Financial position of business,	
		Audit of financial statements	
	Lecture 48	Management:	
		Definition, Basic Functions and	
		Management.	
Week 17			Terminal Exam

## **OPTIONAL (ECONOMICS)**

## LABOR ECONOMICS COURSE CODE: ECO-426

#### **CREDIT HOURS: 03**

#### Introduction

Labor Market Definition, Scope of Labor Markets, Labor market, Demand, Supply, wages and equilibrium in the labor market.

#### Labor Supply

Measuring the labor force, The worker preferences, Hours of work decisions, Effect of non labor income, wage rate on hours of work, labor supply curves, estimation of the labor supply elasticity, policy application welfare program and worker incentives.

#### **Topics in Labor Markets**

Labor supply over the life cycle and business cycle, retirement, household production, fertility.

#### **Labor Demand**

The production functions, the employment decisions in the (short run, long run) estimation of demand elasticity's, Marshall's Rules of Derived demand, Overview of labor market equilibrium, extension and policy applications

#### Labor Market equilibrium

Equilibrium in a single competitive labor market, Competitive equilibrium across labor markets, taxation, labor supply and demand, the cobweb model, non competitive labor markets (monophony, monopoly

#### **Compensating wage differentials**

The market of risky jobs, hedonic wage function, wage structures, policy application, labor mobility, discriminations in the labor markets

#### Unemployment

Types of unemployment, The steady state rate of unemployment, job search, the Inter temporal substitution hypothesis, other policy of unemployment

### **Efficiency wage Theories**

Work Shirk models, labor turn over model, adverse selection model and sociological theory.

#### Human Capital Investment

Job markets signaling and screening models, ability hypothesis, migration, poverty and earning distribution, education policy.

#### **Recommended Books**

- 1. Cuhac, Pierre, and Andre "Zylberberg, Labor Economics, MIT Press, 2004 (CA) in this case is not available, DS would be followed
- 2. Ashenfelter, Orley and Richard Layard, Ed. Handbook of Labor Economics, Vol. 1to 11 (AL).
- 3. George J. Borjas, George, Labor Economics, McGraw-Hill, 3rd Edition (2005)
- 4. Hamdani, Syed Nisar Hussain (2004), Religious Orientation as a Factor in time Allocation, PhD Dissertation Quaid-e- Azam University Islamabad.
- 5. Hamdani Syed Nisar Hussain and Eatzaz Ahmed (2002), "Towards Divine Economics: some Testable Propositions", Pakistan Development Review, No. 4, Pp Vol. No.4, Pp.607-26

Week No	Lecture	Topics	Activity
	Lecture 1	Course introduction	
Week 1	Lecture 2	Introduction	
		Labor Market Definition, Scope of	
		Labor Markets,	
	Lecture 3	Labor market, Demand, Supply	
	Lecture 4	wages and equilibrium in the labor	
Week 2		market	
	Lecture 5	Labor Supply	
		Measuring the labor force, The worker	
		preferences,	
	Lecture 6	Hours of work decisions, Effect of non	
		labor income,	
	Lecture 7	wage rate on hours of work, labor	
Week 3		supply curves	Quiz# 01
	Lecture 8	estimation of the labor supply	
		elasticity, policy application welfare	
		program and worker incentives	
	Lecture 9	<b>Topics in Labor Markets</b>	
		Labor supply over the life cycle and	
		business cycle	
	Lecture 10	retirement, household production,	
Week 1		fertility.	Aggiggmagnt# 01
WCCK 4	Lecture 11	Labor Demand	Assignment# 01
		The production functions, the	
		employment decisions in the (short run,	
	-	long run)	-
	Lecture 12	estimation of demand elasticity's,	
		Marshall's Rules of Derived demand,	
	Lecture 13	Overview of labor market equilibrium,	
		extension and policy applications	

Week 5	Lecture 14	<b>Labor Market equilibrium</b> Equilibrium in a single competitive	
		labor market	
	Lecture 15	Competitive equilibrium across labor	
		markets, taxation	
	Lecture 16	labor supply and demand, the cobweb	
W 1 C		model,	
week 6	Lecture 17	non competitive labor markets	Midterm Exam
		(monophony, monopol	-
	Lecture 18	Cont	
	Lecture 19	Compensating wage differentials	
Week 7	I. ( 20	The market of risky jobs	-
	Lecture 20	hedonic wage function	-
	Lecture 21	wage structures	
Week 8	Lecture 22		-
WCCK 0	Lecture 23	policy application	-
	Lecture 24	labor mobility	
Week 9	Lecture 25	discriminations in the labor markets	
WCCK J	Lecture 26	Cont	-
	Lecture 27	Types of uncompleximent	
	Lastura 29	Types of unemployment	
	Lecture 20	Cont	-
Week 10	Lecture 29	ioh saarah	Quiz # 02
	Lecture 30	the Inter temporal substitution	
		hypothesis	
Week 11	Lecture 32	Cont	Assignment # 02
	Lecture 33	other policy of unemployment	
	Lecture 34	Cont	
Week 12	Lecture 35	Efficiency wage Theories	
		Work Shirk models	
	Lecture 36	Cont	
	Lecture 37	labor turn over model	
Week 13	Lecture 38	Cont	
	Lecture 39	adverse selection model and	
		sociological theory.	
XX7 1 1 4	Lecture 40	Cont	-
Week 14	Lecture 41	Human Capital Investment	
		Job markets signaling and screening	
		models	
	Lecture 42	Cont	
	Lecture 43	ability hypothesis	
Week 15	Lecture 44	migration	
	Lecture 45	poverty and earning distribution	

Week 16	Lecture 46	Cont	
	Lecture 47	education policy	
	Lecture 48	Cont	
Week 17			Terminal Exam

# MANAGERIAL ECONOMICS COURSE CODE: ECO-427 CREDIT HOURS: 03

### Nature, Scope and Overview of Managerial Economics

The Nature and Scope of Managerial Economics. The Managerial decision making process. Theory of the firm. Profit maximization, Cost Minimization. Economic optimization. Economic relations of variables. The Incremental concept in Economic Analysis. Demand, Supply and Equilibrium.

#### **Demand Analysis: Estimation and Forecasting**

The Basis for Demand. The Market Demand function. Demand sensitivity analysis: Elasticity, Price Elasticity of Demand with Managerial applications. Income Elasticity of Demand with Managerial applications. Application of Regression Analysis: Demand estimation. Demand forecasting.

## **Production and Cost Analysis**

Production functions. Total, Marginal and Average Product. Revenue and Cost in Production. Production function estimation. Productivity Measurement. Homogenous and Homothetic Production Function. Short run and long run cost curves. Learning curves and application. Costvalue-profit analysis. Cost estimation.

#### **Decision Making Under Risk and Uncertainty**

Introduction. Risk Analysis of Decision Alternatives. Adjustment for Risk in Decision Making. The Expected Value Criterion. The Standard Deviation Criterion. The Coefficient of Variation Criterion. The Certainty Equivalent Criterion. The Maximax Criterion, Maximin Criterion and Minimax regret criterion. The Decision Tree and Joint Probabilities. Optimal decision Strategy. Limit Pricing and Preventing entry.

#### **Pricing Analysis and Decisions**

A Review of Market Structures and Basic Pricing Models. Perfect Competition. Monopoly. Monopolistic Competition. Oligopoly. Selected Pricing Models. Marginalist Pricing. Mark up pricing. New Product Pricing. Oligopoly Model. Contestable Markets. Pricing Strategies for Firms and Market Power. Monopolistic Competition. Price Discrimination, Monoposony and Price Product.

#### Managerial Theories and Models of the Firm

Baumol's Theory of Sales Revenue Maximization. Marris's Model of Managerial Enterprise. Williamson's Model of Managerial Discretion Topics, Behavioral Model by Cyert and March.

# **Public Sector Production and Pricing of Goods**

Public and Private Goods and their pricing mechanism. Decreasing cost Industry and pricing. Externalities and Market Pricing issues. Rent seeking and control. Government Policy and International Trade, tariff and pricing. Import Competitiveness and tax, International pricing Techniques /Strategies.

# **Capital Budgeting and Investment**

Pre-requisites of Capital Budgeting. Investment Criteria and Decisions. Cash flow estimation, Internal Rate of Return, Profitability-Index Criterion and other criterion. Optimal Capital Budget.

# **Emerging Trends and Recent Developments**

Week No	Lecture	Topics	Activity
Wook 1	Lecture 1	Nature, Scope and Overview of	
Week I		Managerial Economics	
		The Nature and Scope of Managerial	
		Economics.	
	Lecture 2	The Managerial decision making	
		process. Theory of the firm	
	Lecture 3	Profit maximization	
	Lecture 4	Cont	
Week 2	Lecture 5	Cost Minimization. Economic	
		optimization.	
	Lecture 6	Economic relations of variables	
	Lecture 7	The Incremental concept in Economic	0 • 11 04
Week 3		Analysis. Demand, Supply and	Quiz# 01
		Equilibrium	
	Lecture 8	Demand Analysis: Estimation and	
		Forecasting	
		The Basis for Demand	
	Lecture 9	The Market Demand function. Demand	
		sensitivity analysis:	
	Lecture 10	Elasticity, Price Elasticity of Demand	
XX7 1 4		with Managerial applications.	
Week 4	Lecture 11	Income Elasticity of Demand with	Assignment# 01
		Managerial applications.	
	Lecture 12	. Application of Regression Analysis:	
	Lecture 13	Demand estimation. Demand	
XXX 1 5		forecasting	
Week 5	Lecture 14	Production and Cost Analysis	
		Production functions. Total, Marginal	

		and Average Product.	
	Lecture 15	Revenue and Cost in Production.	
	Lecture 16	Production function estimation.	
		Productivity Measurement	
Week 6	Lecture 17	Homogenous and Homothetic	Midterm Exam
		Production Function	
	Lecture 18	Short run and long run cost curves.	
	Lecture 19	Learning curves and application.	
W. 1.5	Lecture 20	Cost-value-profit analysis. Cost	
Week /		estimation.	
	Lecture 21	Decision Making Under Risk and	
		Uncertainty	
		Introduction. Risk Analysis of Decision	
		Alternatives.	
	Lecture 22	Adjustment for Risk in Decision	
Week 8		Making	
	Lecture 23	The Expected Value Criterion.	
	Lecture 24	The Standard Deviation Criterion	
	Lecture 25	The Coefficient of Variation Criterion	
Week 9	Lecture 26	The Certainty Equivalent Criterion.	
	Lecture 27	The Maximax Criterion, Maximin	
		Criterion and Minimax regret criterion.	
	Lecture 28	The Decision Tree and Joint	
West 10		Probabilities.	Oni- # 02
Week IU	Lecture 29	Optimal decision Strategy	Quiz # 02
	Lecture 30	Limit Pricing and Preventing	
		entry.	
	Lecture 31	Pricing Analysis and Decisions	
XXX 1 1 1		A Review of Market Structures and	
Week 11		Review of Warket Structures and Basic Pricing Models	Assignment # 02
	Lecture 32	Perfect Competition Monopoly	
	Lecture 33	Monopolistic Competition Oligopoly	
	Lecture 34	Selected Pricing Models	
Week 12	Lecture 35	Marginalist Pricing	
	Lecture 36	Mark up pricing New Product Pricing	
	Lecture 37	Oligonoly Model Contestable Markets	
Week 13	Lecture 38	Pricing Strategies for Firms and Market	
	Lecture 58	Power Monopolistic Competition	
	Lasters 20	Price Discrimination Monoposony and	
	Lecture 39	Price Product.	
	Lecture 40	Price Product. Managerial Theories and Models of	
Week 14	Lecture 39	Price Product. Managerial Theories and Models of the Firm	

		Maximization	
	Lecture 41	Marris's Model of Managerial	
		Enterprise.	
	Lecture 42	Williamson's Model of Managerial	
		Discretion Topics,	
	Lecture 43	Behavioral Model by Cyert and March.	
Week 15	Lecture 44	Public Sector Production and Pricing of Goods	
		Public and Private Goods and their	
		pricing mechanism	
	Lecture 45	Decreasing cost Industry and pricing.	
	Lecture 46	Externalities and Market Pricing issues.	
Week 16		Rent seeking and control	
	Lecture 47	Government Policy and International	
		Trade, tariff and pricing.	
	Lecture 48	Import Competitiveness and tax,	
		International pricing Techniques	
		/Strategies.	
Week 17			Terminal Exam

# DEMOGRAPHIC ECONOMICS COURSE CODE: ECO-431 CREDIT HOURS: 3

#### **Course Contents: Introduction:**

Introduction to demography/population dynamics, concept, Importance of population studies in the global context, Importance of population studies with reference to Pakistan, Uses & limitations of population data

#### Major sources of Population data:

Population census, Demographic sample survey, Registration system (NADRA), Qualitative data, Population Size, growth, structure, distribution & Changes, Population size, Population structure (sex structure, Age structure). Age dependence ratio, Error in age reporting), Population pyramid, pyramid profiles population change, Concepts of population growth (Fertility, Morality, Migration).

#### Demographic measures/ Mortality Measures of Mortality

Balancing Equation, Fertility measures of Fertility, Crude birth rate, Specific birth rate, Standard birth rate, General fertility rate, Gross reproduction rate, Net reproduction rate, Crude death rate, Specific death rate, Infant mortality, Neto-natal Morality

Post-Neo natal Mortality

## **Population Theories/ Migration & Urbanization**

Historical thinking of population (conventional economics and alternative thinking),Malthusian theory & Economic demographic equilibrium,Theory of Demographic Transition,Concept, Historical perspective,Measures of Migration,Reasons for migration,Urbanization

# **Current population Scenario of Pakistan:**

implication for socio economic & Sustainable development for country,Reproductive health & family planning

# **Application of Stationary population models :**

# Providing Reproductive Health in Pakistan.

# **Reference Material:**

- 1. Introduction to Demography & population Studies, Muhamamd Aslam Chaudhry & Dr. Syed Farid-ul-Hassan,3rd edition, (2003)
- 2. An Historical Perspective on Economic Aspects of the population Explosion ("Ronald Lee"), 5th edition,(2004)
  - 3. The Demographic transition by Maters-Planas, Zavier,5th edition, (2005)

# **Course Contents**

Week	Lecture .	Торіс	Activity
Week 1	Lecture 1	Introduction to demography/population dynamics, concepts.	
	Lecture 2	Importance of population studies in the global context.	-
	Lecture 3	. Importance of population studies with reference to Pakistan.	-
Week 2	Lecture 4	Uses & limitations of population data	
	Lecture 5	Population census	
	Lecture 6	Demographic sample survey	
Week 3	Lecture 7	Registration system (NADRA)	
	Lecture 8	Objectives and functions of NADRA	Quiz # 01

	Lecture 9	Qualitative data	
Week 4	Lecture 10	Population size	
	Lecture 11	Population structure (sex structure, Age structure)	Assignment# 01
	Lecture 12	Age,dependence ratio, Error in age reporting)	
Week 5	Lecture 13	Population pyramid,	
	Lecture 14	pyramid profiles population change	-
	Lecture 15	Concepts of population growth (Fertility, Morality, Migration).	
Week 6	Lecture 16	Balancing Equation	Midterm Exam
	Lecture 17	Fertility measures of Fertility	_
	Lecture 18	Cont	
Week 7	Lecture 19	Crude birth rate Specific birth rate	
	Lecture 20	Standard birth rate General fertility rate	
	Lecture 21	Cont	
Week 8	Lecture 22	Gross reproduction rate Net reproduction rate	
	Lecture 23	Crude death rate	

			_
	Lecture 24	Specific death rate	
Week 09	Lecture 25	Infant mortality	
	Lecture 26	Neo-natal Morality	_
	Lecture 27	Pos-Neo natal Mortality	
Week 10	Lecture 28	Maternal mortality Life Expectancy	
	Lecture 29	Life tables	Quiz # 02
	Lecture 30	What is theory? Historical thinking of population (conventional economics and alternative thinking)	
Week 11	Lecture 31	Malthusian theory	
	Lecture 32	Economic demographic equilibrium	Assignment# 02
	Lecture 33	Theory of Demographic Transition	-
Week 12	Lecture 34	Concept, Historical perspective Measures of Migration Reason for migration Urbanization	
	Lecture 35	Crude immigration rate, Crude emigration rate Crude gross international migration	
	Lecture 36	Crude net international migration rate, Crude in migration rate , Crude out migration rate	
Week 13	Lecture 37	Current population Scenario of Pakistan	
	Lecture 38	Its implication for socio economic	

		development for country.	
	Lecture 39	Its implication for Sustainable development for country.	-
Week 14	Lecture 40	Reproductive health	
	Lecture 41	family planning	-
	Lecture 42	Reproductive health & family planning details with respect to Pakistan	-
Week 15	Lecture 43	History of Reproductive Health in Pakistan.	
	Lecture 44	Current scenario of Reproductive Health in Pakistan.	
	Lecture 45	Comparison of current and previous reproductive health system in Pakistan	
Week 16	Lecture 46	Stationary population models	
	Lecture 47	Application of Stationary population models	
	Lecture 48	(Continued)Application of Stationary population models	-
Week17			Terminal Exam

#### SUSTAINABLE DEVELOPMENT COURSE CODE: ECO-437

## **Course Contents**

#### Introduction to sustainable development

Definition and concept basic concept of sustainable development. Historical background of suitable in case of Pakistan and new economic development approach.

Global environment of poverty and inequality. overall content of development in Pakistan. sustainable development. The development dilemma. The policies occurred in economic planning in past. Policies ensuring outlays for sustainability in development program. Poverty alleviation with social Justice.

#### Economic growth and social Justice

Introduction..Need to end extreme poverty and hunger. Strategic goals.

#### Challenges and constraints to development

. Introduction. The international dimensions. Administrative challenges. Economic challenges.

. Social challenge. Environmental challenges. Climate change. D. growth.Development and constraints. Tax Mobilization &its effects . Dependency on foreign aid.

## : sustainable economic growth and human development

. Introduction.. Sustainability in growth.. Population dynamics and sustainability. Agricultural productivity and food security.. The problems need immediate measures.. Energy for sustainable development. The initiatives needed.. Human development.

#### sectoral role to sustainable development

. Agricultural. Consumption and industrial production. The main objective.. Trace for sustainable development.. Issues and trends.. Strategic measures needed.. Water resource management. Strategic needs. Education for sustainable development..Tourism fir sustainable development. Measures needed.

#### Sustainable Development program in Historical Prespective

World energy conference .UN conference on human environment..Earth summit.

.Kyoto protocol. commission on sustainable development..High level plan on Global Sustainability.

.UN world summit 2002. UN economic and social council..The Earth charter focused on.

. Paris conferences on climate change.

#### : Millennium development goals and Pakistan initiatives

. Introduction .Sustainable development goals and Pakistan performance. Milestones.Cooperation between government and UNDP. special measures.

# UN world summit 2002 paved The way for sustainability

. Realizing potential of sustainability

## Climate protection and environmental sustainability

politics and climate change. The Earth charter a long term aim. Diverse form of life.. Environmental sustainability.. Management and utilization management of natural resource. overall environmental governance. Protection for nature.. Modern industrial policy.. Debate has also prompted. The consensus in sinks.

# **Reference Material**.

Sustainable Development with Social Justice(A social Economy Perspective) by Dr. Muhammad Ishaq.

Week No	Lecture No	Topics	Activity
	Lecture No 1	Introduction to sustainable development .	
Week 1	Lecture No 2	Definition and concept basic concept of sustainable development.	
	Lecture No 3	Historical background of suitable in case of Pakistan and new economic development approach,	
	Lecture No 4	Global environment of poverty and inequality.	
	Lecture No 5	overall content of development in Pakistan. sustainable development.	
Week 2	Lecture No 6	The policies occurred in economic planning in past. Policies ensuring outlays for sustainability in development program.	
Week 3	Lecture No 7	The development dilemma. Poverty alleviation with social Justice	
	Lecture No 8	<b>Challenges and constraints to development</b> Introduction	Quiz# 01
	Lecture No 9	Theinternational dimensions.Administrative challenges. Economic challenges.	
	Lecture No 10	Cont	
Week 4	Lecture No 11	Cont	Assignment# 01
	Lecture No 12	Cont	
	Lecture No 13	Cont	
Week 5	Lecture No 14	Social challenge. Environmental challenges. Climate change.	
	Lecture No 15	Cont	
	Lecture No 16	Cont	
Week 6	Lecture No	D. growth.	Mid term

	Lecture No	. Cont	
	Lecture No	Development and constraints Tax Mobilization	
	19	&its effects.	
Week 7			
	Lecture No	Development and constraints Introduction	
	20		
	Lecture No	sustainable economic growth and human	
	21	development	
	Lastura No	Custoinskility in grouth Domulation dynamics	
Week 8	22	sustainability in growth Population dynamics	
WEEK O			
	Lecture No	Education for sustainable development	
	23	F	
	Lecture No	The problems need immediate measures	
	24	Energy for sustainable development.	
	Lecture No	Human development.	
Week 9	25		
	Lecture No	The initiatives needed sectoral role to	
	26	sustainable development.	
	Lecture No	Agricultural. Consumption and industrial	
	21	production	
	Lecture No	The main objective Trace for sustainable	
	28	development. Issues and trends Strategic	
Week 10		measures needed	Quiz # 02
	Lecture No	Agricultural productivity and food security.	
	29		
		Water resource management. Strategic needs.	
	Lecture No	Tourism fir sustainable development	
	30	Measures needed	
		Wedsules needed.	
	Lecture No	Sustainable Development program in	
	31	Historical Prespective	
Week 11		1	Assignment # 02
	Lecture No	World energy conference .	
	32		
	Lecture No	Tyoto protocol. commission on sustainable	
	33	development	
	Lastura N.	High lavel plan on Clobal Sustainability	
Week 12	34	LIN world summit 2002	
WUUK 12	Lecture No	Newly Industrializing Countries (NIC's)	
	35	Newry mousuranzing countries (NIC S)	

	Lecture No 36	ootloose Production Process. NIC's	
Week 13	Lecture No 37	UN economic and social council	
	Lecture No 38	The Earth charter focused on.	
	Lecture No 39	Paris conferences on climate change	
	Lecture No	Millennium development goals and Pakistan	
Week 14	40	initiatives	
	Lecture No 41	Introduction .Sustainable development goals and Pakistan performance.	
	Lecture No 42	Milestones.Cooperation between government and UNDP. special measures.	
	Lecture No 43	UN world summit 2002 paved The way for sustainability	
Week 15	Lecture No 44	Climate protection and environmental sustainability	
	Lecture No 45	politics and climate change. The Earth charter a long term aim.	
Week 16	Lecture No 46	Diverse form of life Environmental sustainability. Management and utilization management of natural resource.	
	Lecture No 47	overall environmental governance. Protection for nature.Modern industrial policy.	
	Lecture No 48	Debate has also prompted. The consensus in sinks.	
Week 17			Terminal Examination

# POLITICAL ECONOMY COURSE CODE :438

## **CRDIT HOURS :3**

## **Course Contents**

## Introduction

Meaning, Definition and brief Introduction of basic Concepts of Political Economy. Economic and Political Integration. Policy Reform and Popular Organization, key Social and Economic indicators. Political and Economic Institutions and their role in decision making. Linkages of Politics and Economics. Conceptualizing the Changing Global Order.

# Political Economy and World Order

Problem of Power and Knowledge: New Millennium, Knowledge, Politics and Neo-Liberal Political Economy.

New Voices in the Globalization Debate: Green Perspective, Regional Phenomena and State Order, New State Actors, Theory of Exclusion.

## **Regional Dynamics**

Regionalism and Globalization, The Political Economy of European Integration, Regionalism in the Asia-Pacific Political Globalization and the Competition State. Economic Blocks and Political Blocks.

## **Political Economy of Economic Development**

International Politics and Transfer of Technology, Sector Specific Development Limitation. Agriculture and Industry, Political Slogans and their Implementation, International challenge of poverty, The Political Economy of food grain prices, Rural Development. Regional Exporting Blocks and their Markets.

## **Political Economy of Pakistan**

The Economics of Patronage, Seven Pillars of good Governance. The Political Economy of Reforms. Pakistan - Dynamics of Elitist Model. Strategies for self-preservation, A military Theocracy, Different Regimes, Economic Development, Ethnic conflict, the Role of State. Emerging Economic and Political Issues and their linkages. Regionalism, Poverty and Governance etc.

## SAARC: Political & Economic Aspects

Economic Aspects, Poverty Eradication, Trade & Economic Cooperation, Cooperation with Regional NGO's in South Asia. Pakistan and SAARC: Composition of Trade, Foreign Trade Trends in External Trade, Direction of Foreign Trade, Trends of Trade with SAARC. Future Economic Prospects of SAARC.

#### **Issues in Lawlessness and Development**

Introduction, Economic Crimes, Terrorism & Insurgency, Theories of the Economic impact of Law & Order.

#### Socio Economic Developments & Crime

A Review of Socio-Economic Situation in Pakistan, Urbanization, Housing, Unemployment, Poverty, Juvenile Delinquency, Health Hazards. Environment and Externalities.

#### **Global Issues**

Global Issues in Historical Perspective, Capital Mobility and Global Order, Opening up of Services Sector and its benefitries. Will there be free mobility of factors of production? Capital, labor and entrepreneurs etc. Multinationals: Objectives, Contribution and their Mobility. Emerging World Financial Order. The Group of Seven and Political Management of the Global Economy, Big Businesses and New Trade Agreements, Trade Blocks.

#### **Emerging Trends and Recent Issues**

## **Recommended Text**

- Azhar, H. Nadeem (2002), Pakistan: The Political Economy of Lawlessness, Oxford University Press.
- Gupta, S. Dev, The Political Economy of Globalization, Kluwer Academic Publishers. (Latest eds.)
- Hagen Everett E., The Economics of Development, Richard D. Irwin, Inc. (Latest eds.).
- Hussain Ishrat, (2004), Dollars, Debt and Deficits, Reform and Management of Pakistan Economy, Oxford University Press.
- (1999), Pakistan, the Economy of an Elitist State, Oxford University Press.
- Kardar Shahid, The Political Economy of Pakistan, Progressive Publishers, Pakistan.(Latest eds.).
- Kher, R.S. (2004), SAARC: Political & Economic Aspects, Dominant Publishers and Distributors.
- Noman Omar (1988), The Political Economy of Pakistan 1947-1985, KPI, London and New York.
- Stubbs Richard and Underhill Geoffrey R.D., (2000), Political Economy and the Changing Global Order, Oxford University Press.
- Szentes J., The Political Economy of Underdevelopment, Akademiai Kiado, Budapest. (Latest eds.).

Week	Lecture .	Торіс	Activity
Week 1	Lecture 1	Meaning, Definition and brief Introduction of	
		basic Concepts of Political Economy.	
	Lecture 2	Economic and Political Integration.	
	Lecture 3	Policy Reform and Popular Organization	
		key Social and Economic indicators	
Week 2	Lecture 4	Political and Economic Institutions and their role in decision-making. Linkages of Politics and Economics.	
	Lecture 5	Conceptualizing the Changing Global Order	

## **Course Contents**

	Lecture 6	Political Economy and World Order	
		Problem of Power and Knowledge	
Week 3	Lecture 7	New Millennium, Knowledge, Politics and Neo- Liberal Political Economy.	Quiz #1
		New Voices in the Globalization Debate	
	Lecture 8	Green Perspective,	-
		Regional Phenomena and State Order New State Actors,	
	Lecture 9	Theory of Exclusion.	
Week 4		Regional Dynamics	
	Lecture 10		Assignment
	Lecture 11	Regionalism and Globalization,	#1
	Lecture 12		
		The Political Economy of European Integration,	
		Regionalism in the Asia-Pacific Political Globalization and the Competition State.	
Week 5	Lecture 13	Economic Blocks, Political Blocks	
	Lecture 14	International Politics and Transfer of Technology	-
	Lecture 15	Sector Specific Development Limitation.	
Week 6	Lecture 16	Agriculture and Industry	Midterm Exam
	Lecture 17	Political Slogans and their Implementation,	
	Lecture 18	International challenge of poverty	-
Week 7	Lecture 19	The Political Economy of food grain prices	
	Lecture 20	Rural Development.	
	1		1

	Lecture 21	Cont	
Week 8	Lecture 22	Regional Exporting Blocks and their Markets	
	Lecture 23	Political Economy of Pakistan	
		The Economics of Patronage,	
	Lecture 24	Cont	
Week 9	Lecture 25	Seven Pillars of good Governance.	
	Lecture 26	The Political Economy of Reforms.	
	Lecture 27	Pakistan - Dynamics of Elitist Model	
Week 10	Lecture 28	Strategies for self-preservation,	
	Lecture 29	A military Theocracy,	-
	Lecture 30	Different Regimes,	-
		Economic Development,	
Week 11	Lecture 31	Ethnic conflict, the Role of State.	
	Lecture 32	Emerging Economic and Political Issues	
		Their linkages.	
	Lecture 33	Regionalism,	
Week 12		Poverty and	
	Lecture 34	Governance etc.	
	Lecture 35	Poverty Eradication,	-
		Trade & Economic Cooperation,	
		Cooperation with Regional NGO's in South Asia	
			-
	Lecture 36	Pakistan and SAARC: Composition of Trade,	
		Foreign Trade Trends in External Trade,	
		Direction of Foreign Trade,	
		Trends of Trade with SAARC.	
		Future Economic Prospects of SAARC.	

Week 13	Looturo 27	Issues in Lawlessness and Development	
	Lecture 57	Introduction, Economic Crimes,	
	Lecture 38	Terrorism & Insurgency,	-
	Lecture 39	Theories of the Economic impact of Law & Order.	
Week 14	Lecture 40	Socio Economic Developments & Crime	Quiz # 02
		A Review of Socio-Economic Situation in	
	Lecture 41	Pakistan, Urbanization, Housing,	-
		Unemployment, Poverty, Juvenile	
	Lecture 42	Delinquency, Health Hazards.	
		Environment and Externalities,	
Week 15	Lecture 43	Global Issues in Historical Perspective,	Assignment
	Lecture 44	Capital Mobility and Global Order	# 02
	Lecture 45	Opening up of Services Sector and its benefiters	
		Capital, labor and entrepreneurs etc.	
		Multinationals: Objectives, Contribution and their Mobility	
Week 16	Lecture 46	Multinationals: Objectives, Contribution and	
	Lecture 47	their Mobility.	-
		Emerging World Financial Order.	
		The Group of Seven and Political	
	Lecture 48	Management of the Global Economy	-
		Big Businesses and New Trade Agreements	
		Trade Blocks	
Week 17		Terminal Exam	

# ISLAMIC BANKING & FINANCE COURSE CODE: ECO-455 CREDIT HOURS: 3

### 1. Islamic Economics & Finance

An introduction to Islamic banking & finance; Divine guidance for an Islamic economy. Evolution and development of Islamic banking & finance; difference between conventional banking and Islamic banking.

## 2. Concept of Riba and its impact on Economy

Definition of riba; history of riba; kinds of riba; riba in Islamic prospective; prohibition of riba in the light of shariah.

## 3. Islamic Law of Contracts

Meaning of contract, Essential elements of Contract, Conditions pertaining to contracts classification of contracts in Commutative & Non commutative.

# 4. Islamic Mode of Finance in Banking Industry

Comparative Analysis of Asset and Liability side of Banks products i.e. existing in Conventional and Islamic banking Industry.

# 5. Shariah Complaint modes of Finance and related issues

o Participatory Modes: Musharakah, Mudarabah, Diminishing Muskarakah o Trade base modes: Murabaha, Salam, Istisna, Istijrar, Ijarah, Ijarah wa Iqtina o Fee-Based Products: Letter of Credit (Wakala), Letter of Guarantee (Kafala), Other Fee-based Services o Some contradictory Contracts and their shariah position: Tawarruq, Bai al Dayn,

Bai al Innah

## 6. Takaful-Islamic Insurance Operations

Nature of insurance; concept, objectives, basis of takaful, basic elements and operating principles; different models of takaful prevalent in the world.

## **Reference Material**

1.Justice(R) Taqi Usmani (2008). An Introduction to Islamic Finance. Maktaba Ma'ariful Quran August, Karachi Pakistan.

2. Mufti Nasim Ahmad Qasmi (2009). Economy the Islamic Approach. Darul Isha'at,

Karachi Pakistan.

- 3. Jstice(R) Taqi Usmani (2009). The Historic Judgment on Interest. Maktaba Ma'ariful Quran, Karachi Pakistan.
- 4. Imran Ashraf Usmani (2002). Meezan Bank's Guide on Islamic Banking. Darul Isha'at, Karachi Pakistan.
- 5. M.Tahir Mansoori (2008). Islamic law of Contracts and bussiness Transactions. Shariah Academy, International Islamic University, Islamabad, Pakistan
- 6. Ayub, M, "Understanding Islamic Finance.
- 7. Obaidullah, M, "Islamic Financial Services

Week	Lecture	Topics	Activity
Week 1	Lecture 1	Islamic Economics & Finance An introduction to Islamic banking & finance;	
	Lecture 2	Divine guidance for an Islamic economy;	
	Lecture 3	Shariah and its meaning,	
Week 2	Lecture 4	Scope of Shariah in Micro and Macro level of the Economy	
	Lecture 5	Evolution and development of Islamic banking & finance	
	Lecture 6	Cont	
Week 3	Lecture 7	difference between conventional banking and Islamic banking.	Quiz# 01
	Lecture 8	<b>Concept of Riba and its impact on Economy</b> Definition of riba; history of riba;	
	Lecture 9	kinds of riba	
Week 4	Lecture 10	riba in Islamic prospective;	Assignment 01
	Lecture 11	prohibition of riba in the light of shariah.	
	Lecture 12	Cont	

Week	Lecture	Islamic Law of Contracts	
5	13	Meaning of contract	
	Lecture	Essential elements of Contract	
	14	~	
	Lecture 15	Cont	
Week	Lecture	Conditions pertaining to contracts	Midterm Exam
6	16		
	Lecture	classification of contracts in Commutative & Non	
	17	commutative	
	Lastura	Cont	
	18	Cont	
Week	Lecture	Different types of trade based sale	
7	19		
/	Lecture		
	20	Conditions of sale	
	Lecture	Participatory Modes:	
	21	Musharakah,	
Week	Lecture		
8	22	Cont	
0	Lecture	Cont	
	23		
	Lecture	Cont Mudarabah	
Week	24 Lecture		
WCCK	25		
9	Lastura	D	
	26	Diminishing Muskarakan	
	Lecture	Cont	
	27		
Week	Lecture	Trada hasa madagi Murahaha	Ouiz # 02
	28		
10			-
	Lecture	Salam	
	Lecture	Istisna	
	30		

Week	Lecture 31	İstijrar,	Assignment # 02
11	Lecture	Ijarah, Ijarah wa Iqtina	_
	Lecture 33	Cont	_
Week	Lecture 34	Fee-Based Products: Letter of Credit (Wakala)	
12	Lecture 35	Letter of Guarantee (Kafala)	_
	Lecture 36	Other Fee-based Services	_
Week 13	Lecture 37	Some contradictory Contracts and their shariah position: Tawarruq, Bai al Dayn, Bai al Innah	
	Lecture 38	Cont	_
	Lecture 39	Islamic Mode of Finance in Banking Industry Comparative Analysis of Asset and Liability side of Banks products	_
Week	Lecture 40	Takaful-Islamic Insurance OperationsNature of insurance; concept, objectives,	
Week 14	Lecture 40 Lecture 41	Takaful-Islamic Insurance OperationsNature of insurance; concept, objectives,basis of takaful, basic elements and operatingprinciples;	
Week 14	Lecture 40 Lecture 41 Lecture 42	Takaful-Islamic Insurance OperationsNature of insurance; concept, objectives,basis of takaful, basic elements and operating principles;Cont	
Week 14 Week	Lecture 40 Lecture 41 Lecture 42 Lecture 43	Takaful-Islamic Insurance OperationsNature of insurance; concept, objectives,basis of takaful, basic elements and operating principles;ContDifferent models of takaful prevalent in the world	
Week 14 Week 15	Lecture 40 Lecture 41 Lecture 42 Lecture 43 Lecture 44	Takaful-Islamic Insurance OperationsNature of insurance; concept, objectives,basis of takaful, basic elements and operating principles;ContDifferent models of takaful prevalent in the worldCont	
Week 14 Week 15	Lecture 40 Lecture 41 Lecture 42 Lecture 43 Lecture 44 Lecture 45	Takaful-Islamic Insurance Operations   Nature of insurance; concept, objectives,   basis of takaful, basic elements and operating principles;   Cont   Different models of takaful prevalent in the world   Cont	
Week 14 Week 15 Week 16	Lecture 40 Lecture 41 Lecture 42 Lecture 43 Lecture 44 Lecture 45 Lecture 46	Takaful-Islamic Insurance OperationsNature of insurance; concept, objectives,basis of takaful, basic elements and operating principles;ContDifferent models of takaful prevalent in the worldContContEvaluation of Islamization process of the economy of Pakistan, Iran and Saudi Arabia	
Week 14 Week 15 Week 16	Lecture 40 Lecture 41 Lecture 42 Lecture 43 Lecture 44 Lecture 45 Lecture 46 Lecture 46	Takaful-Islamic Insurance Operations   Nature of insurance; concept, objectives,   basis of takaful, basic elements and operating principles;   Cont   Different models of takaful prevalent in the world   Cont   Evaluation of Islamization process of the economy of Pakistan, Iran and Saudi Arabia   Cont	
Week 14 Week 15 Week 16	Lecture 40 Lecture 41 Lecture 42 Lecture 43 Lecture 44 Lecture 45 Lecture 46 Lecture 46 Lecture 47 Lecture 48	Takaful-Islamic Insurance OperationsNature of insurance; concept, objectives,basis of takaful, basic elements and operating principles;ContDifferent models of takaful prevalent in the worldContContEvaluation of Islamization process of the economy of Pakistan, Iran and Saudi ArabiaContContCont	
Week 14 Week 15 Week 16 Week	Lecture 40 Lecture 41 Lecture 42 Lecture 43 Lecture 44 Lecture 45 Lecture 46 Lecture 46 Lecture 47 Lecture 48	Takaful-Islamic Insurance Operations   Nature of insurance; concept, objectives,   basis of takaful, basic elements and operating principles;   Cont   Different models of takaful prevalent in the world   Cont   Evaluation of Islamization process of the economy of Pakistan, Iran and Saudi Arabia   Cont   Cont   Image: Cont in the economy of Pakistan, Iran and Saudi Arabia   Cont	Terminal Exam

**DEVELOPMENT POLICY** COURSE CODE: ECO-435

## **COURSE CONTENTS**

# 1. What is Development?

- Describing and analyzing the development landscape of developing countries
- Evolving thinking on development
- Endogenous and exogenous theories of growth, convergence
- Inclusive growth, human development
- Why some countries are rich and others poor?
- East Asian miracles and China

# **2**. Growth and Development

- Millennium Development Goals (MDGs)
- Sustainable Development Goals (SDGs)
- Human Development paradigm for development: Beyond growth in income
- Pakistan's progress, Dimensions of development, Development policy beyond MDGs

# **3.** Development policy and Governance

- Role of Institutions in Development
- Governance and Corruption
- Globalisation and Changing Role of State

# 4. Global Influences on Development Policy

- Policy debate on foreign aid, Pros and cons, and channels of foreign aid
- Trade and International Finance,
- World Trade Organisation (WTO)

## **5.** Poverty and Inequality

- Defining and measuring poverty, inequality
- Policies to manage poverty
- Income distribution and social welfare
- Middle-income trap,
- Vulnerability, trickledown effect
- Employment and Income Distribution
- Social Entrepreneurship, Role of Microfinance in poverty alleviation

## **6.** Education and Healthcare

- The role of primary, secondary, tertiary and vocational education in development
- Human Capital Accumulation and Human Development Index

## 7. Environment and Sustainable Development

- Food security
- Agricultural Market Interventions and Reforms
- Agricultural Research and Extension
- Water Scarcity and Management

- Mineral Resources and their Exploitations
- 8. Migration, Urbanization, Issues facing Megacities TEXT AND REFERENCE BOOKS
- * Zaidi, S. Akbar, (2015). Issues in Economy of Pakistan. Karachi: Oxford University Press
- * Ahmed, Vaqar, (2017). *Pakistan's Agenda for Economic Reform*. Oxford University Press
- * Any other relevant material