SCHEME OF STUDIES FOR PH.D IN ECONOMICS
The Program of PH.D in Economics shall be governed by the University of Malakand M.PHIL/PH.D BY-LAWS

S. No	Course Code	Subject	Cr. Hrs.	Status
1	ECON-811	Microeconomic Analysis	3	Core
2	ECON-812	Macroeconomic Analysis	3	Core
3	ECON-813	Econometric Analysis	3	Core
4	ECON-814	Issues in Research Methods	3	Core
5	ECON-	Optional-1	3	Optional
6	ECON-	Optional-2	3	Optional
		G. Total Credit Hours	**18**	

LIST OF OPTIONAL/ELECTIVE COURSES FOR PH.D IN ECONOMICS

S. No	**Course code**	**Subject**	**Cr Hrs.**
1	ECON-815	Time Series Econometrics	3
2	ECON-816	Industrial Economics	3
3	ECON-817	Game Theory and Competitive Strategy	3
4	ECON-818	Issues in Agricultural Economics	3
5	ECON-819	Economics of Institutions	3
6	ECON-821	Economics of Social Issues	3
7	ECON-822	Behavioral Economics	3

COURSE CONTENTS FOR CORE COURSES OF PH.D IN ECONOMICS

Microeconomic Analysis

Course Code: ECON-811 **Cr.Hrs-3**

Course Introduction:

This course builds on the knowledge students acquired in Advanced Microeconomics, which largely focused on individual decision making. This course introduces the main economic theories of interacting agents: General Equilibrium and Game Theory.

Course Objectives:

The course has several objectives: (a) acquiring basic knowledge of modern microeconomic theory that you can further pursuit in higher level; (b) getting familiar with the use of theoretical tools in other topics in economics and finance; and (c) developing the ability to set up a model and to formally analyze economic issues.

Learning Outcomes:

After studying this course students will know the theoretical foundations of economic activities from individual level to aggregate level. The real world implications of different models with solution sets.

Course Contents:

1. Game theory:

Strategic decision making, strategic form games, Dominant strategies, Nash equilibrium, incomplete information, extensive form games, strategies and payoffs, games of perfect information and backward induction strategies, Games of imperfect information and sub-game perfect equilibrium, Sequential equilibrium.

2. Information economics:

Adverse selection, signaling and screening. Moral Hazard and principle agent problem, symmetric information, asymmetric information, information and market performance.

3. Competitive markets:

Introduction, Pareto-optimality and competitive equilibria, partial equilibrium and competitive analysis, the fundamental welfare theorems in a partial equilibrium context, welfare analysis.

4. Externalities and public goods:

Introduction, a simple bilateral externality, public goods, multilateral externalities, the second-best solution.

5. General Equilibrium:

Exchange, Edge worth Box Representation, Pareto Optimality, Competitive Equilibrium, First and Second Welfare Theorems, The Core. Production, Robinson Crusoe Economy, Production Feasible Sets and Production Possibility Frontier, Pareto Optimality and Competitive Equilibrium Revisited.

Recommended Readings/Books:

1. Varian, H. R. *Microeconomic analysis*. Latest Edition New York: Norton.
2. Mas-Colell, A., Whinston, M. D., & Green, J. *Microeconomics.* Latest Edition.
3. Kreps, D. M. *A course in microeconomic theory* Latest Edition Princeton, NJ: Princeton university press.
4. Jehle, G. A., &Reny, P. J. *Advanced Microeconomic Theory*. Latest Edition Harlow, England, New York: Financial Times.

Macroeconomic Analysis

Course Code: ECON-812 **Cr.Hrs-3**

Course Introduction:

This course is intended to help students to understand important macroeconomic issues such as economic growth, consumption, investment, and unemployment at an advanced level. It also introduces students to important mathematical techniques (such as dynamical systems, dynamic programming), which are commonly used in research.

Course Objectives:

The objective of the course is to analyze the history of debates and recommendation on the economic growth theories and their modern outcome and implications. The growth models discussed are the Solow economic growth model, the endogenous growth model and growth models with human capital and natural resources.

Learning Outcomes:

This course will enable students to; a). Analyze and evaluate the most fundamental workhorse models in macroeconomics b). Evaluate state-of-the-art (applied) macroeconomic literature in a broad range of relevant policy issues and c). Design a theoretical framework or empirical model for their own research.

Course Contents:

1. Behavioral foundations-I:

Consumption and earlier theories of consumption behavior, the life cycle/permanent income hypothesis, the random walk hypothesis, empirical applications: two tests of the random walk hypothesis, finite and infinite horizon models.

2. Behavioral foundations-II:

Investment, Calculus of variations and optimal control theory, neoclassical model of investment, an adjustment cost model of investment, continuous model of investment, adjustment cost model and Tobin's q theory, empirical applications.

3. The Solow growth model:

Assumptions, the dynamics of the model, the impact of a change in the saving rate, quantitative implications, the central questions of growth theory, empirical applications, the environment and economic growth. Infinite horizon and overlapping generations models. The Ramsey-Cass-Koopmans model, assumptions, the behavior of household and firms, the dynamics of the economy, welfare, the balanced growth path, the effects of a fall in the discount rate, the effects of government purchases.

4. The Diamond model:

Assumptions, household behavior, the dynamics of the economy, the possibility of dynamic inefficiency, government and the Diamond model.

5. New growth theory:

Assumptions, the model without capital, the general case, the nature of knowledge and the determinants of the allocation of resources. The Romer model, empirical applications. Models of knowledge accumulation and the central questions of growth theory.

6. Cross country income differences:

Extending the Solow model to include human capital, empirical applications. Social infrastructure, empirical applications.

Recommended Readings/Books:

1. David, R. *Advanced macroeconomics.* Latest Edition The McGraw Hill.

2. Barro, R. J., & Sala-i-Martin, X. *Economic Growth.* Latest Edition The MIT Press.
3. Heijdra, B. J., & Fredrick Van der Ploeg. *The Foundations of Modern Macroeconomics*. Latest Edition Oxford University Press.
4. Daron Acemoglu *Introduction to Modern Economic Growth* Latest Edition

Econometric Analysis

Course Code: ECON-813 **Cr.Hrs-3**

Course Introduction:

This course provides training to students in learning techniques relevant to macroeconomic time series, panel data and Micro econometrics of cross-sectional data.

Course Objectives:

The objective of this course is understand and clarify the students concept about the interaction between theory and empirical econometric analysis and students will be trained in formulating and testing economic models using real world data.

Learning Outcomes:

By the end of this course, student should be able to have achieved the following learning goals; a). Know how to specify, estimate, evaluate and interpret Micro econometrics models, b). Know and apply panel data models and c). Know and apply models with limited dependent variables.

Course Contents:

1. Time series econometrics:

ARIMA Models (i) AR, MA, and ARMA Models, (ii) Specification, Estimation and Testing. Testing (i) Testing: F-tests, χ^2 tests and F approximations thereof - LM, LR, and Wald Tests, etc. (ii) Nonlinearity, Serial Correlation, Heteroskedasticity, ARCH, Predictive Accuracy, Causality, and Related Tests. Non-stationarity Versus Stationarity (i) Random Walks and Spurious Regression (ii) Stochastic and Deterministic Trends - Trend vs. Difference Stationarity (iii) Unit Root Testing.

2. Static and dynamic panel data model:

Panel Data, Fixed Effects versus Random Effects, Alternative Estimators, Estimators for the Random Effects Model, Estimators for the Fixed Effects Model, Instrumental Variables Estimators, Inference and Model Evaluation, Cluster-Robust Inference, Hausman Test. Dynamic Panel Data Models, Inconsistency of Estimators for Static Models, Instrumental Variable Estimators, Tests for Instruments Validity.

3. Limited dependent variables regression models:

Nonlinear Regression Analysis, Model Estimation, Model Inference, Model Evaluation, Discrete Choice Models, Models for Binary Choices, Models for Ordered Choices, Models for Multinomial Choices. Models for Nonnegative Outcomes, Continuous Outcomes and Count Data, Log-Linear and Exponential Regression Models, Poisson and Negative Binomial Models.

Recommended Readings/Books:

1. Hamilton, J. D. *Time series analysis* Latest Edition. Princeton, NJ: Princeton university press.
2. Brooks, C. *Introductory econometrics for finance*. Latest Edition Cambridge university press.
3. Enders, W. *Applied econometric time series*. Latest Edition John Wiley & Sons.
4. Baltagi, B. *Econometric analysis of panel data*. Latest Edition John Wiley & Sons.
5. Wooldridge, J. M. *Econometric analysis of cross section and panel data*. Latest Edition MIT press.
6. Hosmer Jr, D. W., Lemeshow, S., & Sturdivant, R. X. *Applied logistic regression* Latest Edition John Wiley & Sons.
7. Scott Long, J. Regression models for categorical and limited dependent variables. Latest Edition *Advanced quantitative techniques in the social sciences,*

Issues in Research Methods

Course Code: ECON-814 **Cr.Hrs-3**

Course Introduction:

This course is a general introduction to social research methods and will cover four broad topics: the foundations of social science, research design, data collection, and data analysis. In discussing each topic, we will also consider the ethical implications of social research.

Course Objectives:

The main goal of this course at this level is to familiar the students about the methods and procedure of research and the main issues faced by research in the field. Students will have opportunities to learn by doing in all aspects of the course in class meetings, the computer lab, and out-of-class assignments.

Learning Outcomes:

On completion of this course, students should have knowledge and understanding of Social research methods, the process of social research, Sampling, Research Design, Interviewing and how to write research proposal.

Course Contents:

Why social research methods? What is social science? The Process of Social Research, Social problems v. research problems, Theory and methods. Basic research strategies, The literature search, Ethics in social research, Conceptualization and Measurement, Variables, Concepts and measurement, Levels of measurement, Units of analysis, Validity and reliability, Sampling, Why sample? Types of sampling, Sampling distributions, Causation and Research Design, Kinds of explanation, establishing causation, Types of research design, Experiments and Experimental Thinking, Kinds of experiments, Internal and external validity, Threats to validity, Controlling for threats to validity, Interviewing I, About the qualitative/quantitative split, Unstructured/semi structured interviewing, Interviewing I, Focus groups, Interviewing II, Structured interviewing, Survey research, Questionnaire development, Observation of Behavior, Participant observation, Direct and indirect observation, Evaluating research designs, Using multiple methods, Research Proposal Presentation.

Recommended Books:

1. Schutt, R. K. *Investigating the social world: The process and practice of research*. Latest Edition Pine Forge Press.
2. Collis, J., & Hussey, R. *Business research: A practical guide for undergraduate and postgraduate students*. Latest Edition Macmillan International Higher Education.
3. Gastel, B., & Day, R. A. *How to write and publish a scientific paper*. Latest Edition ABC-CLIO.
4. Don E. Ethridge *Research Methodology in Applied Economics* Latest Edition Blackwell Publisher

COURSE CONTENTS FOR OPTIONAL/ELECTIVE COURSES OF PH.D IN ECONOMICS

Time Series Econometrics

Course Code: ECON-815 **Cr.Hrs-3**

Course Introduction:

The course introduces modern time series econometrics. The first part of the course deals with properties of dependent processes (such as AR, MA and ARMA processes). The second part focuses on statistical inference. We begin with the Bayesian estimation of AR models. After the midterm we will consider the analysis of linear state-space models, which encompass ARMA models, time-varying coefficient models, and factor models. Finally, we consider models with time-varying heteroskedasticity and extensions to vector processes.

Course Objectives:

This course is design to equipped students with the modern tools of analysis and their application in economic theory.

Learning Outcomes:

Students completing this course will be able to decompose time series into its constituent parts, be able to understand and deal with non-stationarity of time series data and be able to estimate and interpret univariate and multivariate time series econometric models. Students will also be able to use estimated time series models for policy analysis and forecasting.

Course Contents:

1. Introduction and overview:

Stationary time series model: Stationarity, autoregressive model, moving average models, ARMA models, autocorrelation functions, partial autocorrelation function, Box Jenkins procedure, model selection criteria, estimation of AR, MA, ARMA (1,1) models, forecasting.

2. Modeling volatility:

Stylized facts of economic time series, symmetric models, ARCH models, GARCH models, ARCH-M models. Asymmetric model, IGARCH models, TARCH and GARCH, estimation and forecasting.

3. Models with trend:

Deterministic and stochastic trend, removing trend, Dickey Fuller test and extension, Seasonal Unit root, tests for structural change, Panel unit root tests. Multi-equation time series models: Transfer function, estimation of multivariate models, dynamic VAR, VAR impulse response, Variance decomposition, Granger causality, structural VARs.

4. Cointegration and Error Correction Models:

Engle Granger methodology, Causality tests, test on multiple cointegration vector, weak exogenity, Johansen cointegration. Non-linear time series models: Markov switching models, TAR model, LSTAR model, generalied imports response function, forecasting.

Recommended Readings/Books:

1. Hamilton, J. D. *Time series analysis* Latest Edition Princeton, NJ: Princeton university press.
2. Brooks, C. *Introductory econometrics for finance*. Latest Edition Cambridge university press.
3. Enders, W. *Applied econometric time series*. Latest Edition John Wiley & Sons.

4. Markus Krätzig, Helmut Lütkepohl *Applied Time Series Econometrics* Latest Edition Cambridge university press

Industrial Economics

Course Code: ECON-816 **Cr.Hrs-3**

Course Introduction:

This course provides a graduate level study of industrial organizations. Primarily, this course provides theoretical and empirical basis for appraising the implications of alternative market structural conditions for economic performance of industrial organizations.

Course Objectives:

This course is design to prepare students to conduct dissertation research in the area. The course integrates theoretical models and empirical work.

Learning Outcomes:

Once completing the course, the students are expected to a). Explain the major elements of the market structure approach to the analysis and solution of marketing problems, b). Identify expected structure-conduct-performance cause and effect relationships, c). Employ several empirical measures of structural parameters, and d). Analyze remedial implications of various performance findings.

Course Contents:

1. Introduction:

Market structure characteristics, degree of seller concentration, degree of buyer concentration, degree of product differentiation, advertising, manufacture reputation, sales and service operations, conditions of entry, vertical conglomerate integration, conditions of exit, cost conditions, demand conditions, legal factors.

2. Market conduct of firms:

pricing and output, coordination, cross-adaptations and sales promotion policies of firms, predatory or exclusionary tactics, product variation policy, sales promotion policy.

3. Market performance:

Price and average cost, relative efficiency in production, relative efficiency in distribution, product characteristics such as design, quality, durability, reliability, and variety. Conservation of resources.

4. Implications for market remedies:

Public policy, price collusion, price discrimination, patent laws, contracts, bureau of standards, SME loans, tariffs, government research, compulsory licensing, government ownership.

5. Industrial policy:

Vertical integration, countervailing power, self-imposed standards of good practice.

Recommended Readings/Books:

1. Tirole, J. *The theory of industrial organization*. Latest Edition MIT press.
2. Martin, S. *Industrial economics: economic analysis and public policy*. Latest Edition Prentice Hall.
3. Scherer, F. M. Ross, Industrial Market Structure and Economic Performance. Latest Edition *A., Boston*.
4. Louis Phlips *Applied Industrial Economics* Latest Edition Cambridge University Press Publishers

Game Theory and Competitive Strategy

Course Code: ECON-817 **Cr.Hrs-3**

Course Introduction:

This course is to introduce theory of games which helps students to understand situations where many agents interact in a strategic setting, where each agent's wellbeing depends on the behavior of all agents.

Course Objectives:

The main goal of this course is to help students; a). Understand selected models and concepts of game theory, b). Understand articles that use intermediate and applied game theory, c). Produce simple economic models with basic game theory and, d). Think strategically in different situations.

Learning Outcomes:

Game theory is a collection of analytic techniques widely used in many sciences. It has provided powerful tools that have successfully been applied in almost every field of economics and in many other disciplines, as well as creative and rigorous ways of developing new ideas and applications.

Course Contents:

Introduction to game theory, Concepts of strategies, Games in strategic form, Dominant strategy equilibrium, Iterative elimination of dominated strategies, Rationalizable strategies, Definition, existence and uniqueness of a Nash equilibrium, Trembling-hand perfect equilibrium, Proper equilibrium, Bayesian decision theory, Bayes-Nash equilibrium, Subgame perfect equilibrium, Perfect Bayesian equilibrium, Sequential equilibrium, Bargaining with Complete Information Theory, Based on the Works of Rubinstein, Bargaining with Complete Information Theory, Based on the Works of Binmore, and Merlo and Wilson, Bargaining with Complete Information, Applications and Extensions, Bargaining with Incomplete Information, One-sided and two-sided Asymmetric Information, Bargaining with Heterogeneous Beliefs, Bargaining: Empirical and Experimental Studies.

Recommended Readings/Books:

1. Binmore, K. *Game Theory: A Very Short Introduction*. Latest Edition Oxford University Press.
2. Carmichael, F. *A Guide to Game Theory*. Latest Edition Parentice Hall.
3. Fudenberg, D., & Tirole, J. Game theory, Latest Edition *Cambridge, Massachusetts*.
4. Ilhan K. Geckil Patrick L. Anderson *Applied Game Theory and Strategic Behavior* , Latest Edition CRC press

Issues in Agricultural Economics

Course Code: ECON-818 **Cr.Hrs-3**

Course Introduction:

This course provides introduction to basic ideas of special theory of relativity. After rationalizing the postulates of the theory its consequences are explained and demonstrated. Four-vector formulism is introduced and its usage in the theory is explained with examples.

Course Objectives:

The main goal of the course is to elaborately study the dimensions and structure of agricultural sector and its problems in production, marketing etc.

Learning Outcomes:

On completion of this module, students should have knowledge and understanding of Agricultural economic and its scope, Production function, Structure of agriculture sector, Issues of agriculture sector in Pakistan, International trade and agriculture sector of Pakistan, Land Reforms and Land Tenure System, Elasticity of substitution and Small Scale Industries.

Course Contents:

Introduction to the subject, Definition, scope, and importance of Agricultural Economics, Introduction to the subject, definition, scope, and importance of Agricultural Economics, Agriculture as an industry, Agricultural production function. Input demand function, Marginal rate of technical substitution, Organization and structure of agriculture sector. Risk management in agriculture. Solving linear programming problems using computers, Important indicators of agriculture sector in Pakistan economy, Issues of agriculture sector in Pakistan, Profit maximization with multiple inputs and multiple products. Impact of policy on agriculture. Land utilization and land use policy. Land tenure systems and land reforms in Pakistan. International trade and agriculture sector of Pakistan. Peculiarities and role in national economy of Agricultural Economics, Farm level and marketing problems, Uncertainty and complete and incomplete markets. Linear programming application in agriculture. Duality, Sensitivity analysis. Elasticity of substitution, Profit maximization. Production elasticity of inputs. Product supply function. Land Reforms. Land Tenure System. Agriculture Credit. Agriculture Marketing and price Policy, 68 years of Pakistan and Agricultural Economy, Small Scale Industries and Agricultural Wastes.

Recommended Books:

1. Beneke, R. R., & Winterboer, R. *Linear programming. Applications to agriculture*. Latest Edition.
2. Debertin, D. L. Agricultural production economics. Latest Edition.
3. Norton, R. D., & Hazell, P. B. *Mathematical programming for economic analysis in agriculture*. Latest Edition Macmillan.
4. Hayami, Y., & Ruttan, V. W. *Agricultural development: an international perspective*. Latest Edition Baltimore, Md/London: The Johns Hopkins Press.

Economics of Institutions

Course Code: ECON-819 **Cr.Hrs-3**

Course Introduction:

This course is designed for students particularly concerned with the practical problems of operating in large formal organizations, either from an operational or a research perspective. It will focus, as the title suggests, upon different forms of economic organizations and institutions in advanced and developing industrial societies and the theories (and theoretical perspectives) which might help us to understand them.

Course Objectives:

The objective of this course is to make an understanding of students about the forms, structure, formulation and setup process of institutions. Moreover this course aims to understand the students about the importance of economic institution in the economy.

Learning Outcomes:

This course will enable students to experience the practical problems of operating in formal organizations either from a research or operational perspective. Moreover, the course will also help student understand the different forms of economic institutions and organizations in developed and developing economies and the theories that might help in understanding them.

Course Contents:

Institutions, Definitions, Functions, Importance, The Demand for Institutions: Transaction Costs (Distribution Costs), Make or Buy, The Supply of Institutions: Collective Action, Cooperation and Corruption, Interactions between Institutions and Technology, Classic Bureaucracy, Street Level Bureaucracy, The Economic Logic of Institutions, Politics and institutions, Culture, Link between culture economy and institutions, The Corporation: Hierarchies and Markets, Evolutionary Theories, Complementarities of Institutions, Institutions and Commitment, Fiscal Federalism, System Competition, Development of capitalist institutions including contemporary issues of alienation, loss of community, and changing values, Contemporary Institutionalist Thought, Institutional problems faced by developing countries, Institutions and Globalization, Private Predation versus Public Predation, Limited Access Order versus Open Access Order, Parliament, Political Process and Policy Making, Institutions and welfare policies in developing countries, Constitutional Rules versus Operating Rules, Dictatorship versus Democracy, Democracy and Economic Incentives, Incentives and Economic Development, Civil Rights, Political Institutions as a Cause of Economic Institutions.

Recommended readings/Books:

1. Hodgson, G. M. (|Latest Edition)., *The evolution of economic institutions: a critical reader*. Edward Elgar Publishing.
2. Acemoglu, D., Johnson, S., & Robinson, J. A. Institutions as a fundamental cause of long-run growth. *Handbook of economic growth*, *1*, Latest Edition.
3. Kapp, K. W. *The foundations of institutional economics*. Latest Edition Routledge.
4. Groenewegen, J., Spithoven, A. H. G. M., & Van den Berg, A. Institutional economics: an introduction Latest Edition.

Economics of Social Issues

Course Code: ECON-821 **Cr.Hrs-3**

Course Introduction:

This course is about social issues that can have an economic outcome and explanation. The course will deal with those issues which either directly or indirectly affect the welfare of individuals in society.

Course Objectives:

The goal of this course is to use economics as a window to observe social behavior and analyze pertinent social issues. A broad range of issues will be addressed to facilitate understanding of the role of economics and its relationship to cultural development and social policies.

Learning Outcomes:

This will enable the students to solve relevant issues which arise, whether economic, social, or political.

Course Contents:

Economic Growth / Basic Principles & Laws, Bureaucratic Decisions – FDA, Ethanol, and their Impact on Market Behavior. Rich & Poor Nations. Supply & Demand Topics (Slave Redemption in Sudan, Use of Water, Drugs, Smoking & Prohibition). The Business Cycle / More Supply & Demand and Labor Markets. Understanding Employment & Recessions – Economic History, what is a Recession? Scarcity – Water Use. Price Controls – Rent Control & Minimum Wage. Smoking & Smuggling. Immigration Issues. Fiscal Policy and Market Structures. Government Spending. Tax Issues (The Myths of Social Security, Tax Structure in Pakistan). National Debt Issues. Oil / OPEC/ Cartels. Mortgage Crisis. International Issues /The Environment/Crime, Economics of Crime & Punishment, International (the Opposition to Free Trade, Understanding Free Trade), The Environment (the Trashman and Bison, Greenhouse Economics and Smog).

Recommended Readings/Books:

1. Miller, R. L., Benjamin, D. K., & North, D. C. *The economics of public issues*. Latest Edition Addison Wesley Publishing Company.
2. Knapp, M. R. *The economics of social care*. Latest Edition Macmillan International Higher Education.
3. Sharp, A. M., Register, C. A., Grimes, P. W., & Leftwich, R. H. *Economics of social issues* Latest Edition. Irwin.
4. Becker, G. S. The economics of crime. *Cross Sections*, Latest Edition.

Behavioral Economics

Course Code: ECON-822 **Cr.Hrs-3**

Course Introduction:

This course is meant to deepen students' understanding of the experimental method of investigation in economics and business research. It is being offered at the PhD level. In the course, we will review questions of experimental design and implementation such as appropriate procedures of subject recruitment, programming tools, statistical and econometric analysis of experimental data, and other methodological issues in experimental economics.

Course Objectives:

The course is design to help the students to develop their own experimental pilot project, from design over programming and the actual implementation to the analysis and write-up of a research paper.

Learning Outcomes:

The outcomes of course include; a). To familiar students with the necessary skills, techniques and methods; b). To able students to conduct their own experimental research project.

Course Contents:

Introduction to Experimental Economics, Behavioral Economics in Brief, Methodology: Using Experiments to obtain Economic Understanding, Methodology: Lab Experiments versus Field Experiments, The Induced Value Method, Methodology: Statistics for Experiments, Practical exercise in Statistics for experiments, Presentation and discussion of experiment ideas, Deception& Ethics, Bargaining, personal exchange and public goods, Price Discovery, Asset Markets & auctions, Economic systems design, Presentations and discussions of experimental designs, Experiment preparations, Pilot experiments, Presentation of results; discussion, Heuristics and biases, Risk preferences, Prospect theory, Applications of prospect theory, Time preference and dynamic (in)consistency, Changing behavior: incentives and nudges, Gift exchange at workplace, taking data seriously at workplace, Shrouded prices: markets that exploit consumer inattention, Markets that capitalize on limits of self-control.

Recommended Readings/Books:

1. Brañas-Garza, P., & Cabrales, A. *Experimental Economics: Volume II:* Latest Edition *Economic Applications*. Springer.
2. Tyran, J. R. The foundations of behavioral economic analysis Latest Edition.
3. Dhami, S. *The foundations of behavioral economic analysis*. Latest Edition Oxford University Press.
4. Camerer, C. F., Loewenstein, G., & Rabin, M. *Advances in behavioral economics*. Latest Edition Princeton university press.

DEPARTMENTOFECONOMICS
UNIVERSITY OF MALAKAND

PROPOSED PANEL OF EXAMINERS FOR THESIS EVALUATION, PAPER SETTER AND VIVA VOICE OF
BS (4-YEAR) AND M.SC (2-YEAR) PROGRAMS-2019

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02	Dr. Muhammad Azam Khan	Professor	Department of Economics, Abdul Wali Khan University Mardan E-mail: drazam75@awkum.edu.pk
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05	Dr. Muhammad Abdul Kamal	Assistant Professor	Department of Economics, Abdul Wali Khan University Mardan E-mail: kamal@awkum.edu.pk
05	Dr. Saleem Khan	Assistant Professor	Department of Economics, Abdul Wali Khan University Mardan E-mail: drsaleem.eco@awkum.edu.pk
06	Dr. Fazli Rabbi	Assistant Professor	Department of Economics and Development Studies, University of Swat E-mail:rabbi.eco@uswat.edu.pk
07	Dr. Umar Hayat	Assistant Professor	Department of Economics and Development Studies, University of Swat E-mail:umarhayat@uswat.edu.pk
08	Mr. Shahid Ali	Lecturer	Department of Economics and Development Studies, University of Swat E-mail:shahid@uswat.edu.pk
09	Dr. Zilakat Khan	Professor	Department of Economics, University of Peshawar E-mail: zilakat@uop.edu.pk
10	Dr. Amjad Amin	Assistant Professor	Department of Economics, University of Peshawar

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11	Dr. Kashif Saeed	Assistant Professor	Department of Economics, University of Peshawar E-mail:kashifsdkhan@uop.edu.pk
12	Mr.Nadeem Iqbal	Assistant Professor	Department of Economics, University of Peshawar E-mail: nadeemiqbal@uop.edu.pk
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15	Dr. Sher Ali	Assistant Professor	Department of Economics, Islamia College Peshawar E-mail: N/A
16	Dr. Bashir Ahmad	Assistant Professor	Department of Economics, Islamia College Peshawar E-mail: N/A
17	Dr. Gulzar Ali	Assistant Professor	Department of Economics, Islamia College Peshawar E-mail: N/A
18	Dr. Zamin Shah	Lecturer	Department of Economics, Islamia College Peshawar E-mail: N/A
19	Mr. Abid Ali	Lecturer	Department of Economics, Islamia College Peshawar E-mail: N/A
20	Dr. HidayatUllah Khan	Professor	Kohat University of Science and Technology E-mail:
21	Dr. Dilawar Khan	Associate Professor	Kohat University of Science and Technology E-mail:
22	Dr. Alam Khan	Assistant Professor	Kohat University of Science and Technology E-mail:
23	Dr. IhtishamulHaq	Assistant Professor	Kohat University of Science and Technology E-mail:
24	Mr. Muhammad Shoaib	Lecturer	Kohat University of Science and Technology E-mail:
25	Dr. Zahoor khan	Assistant Professor	IM Sciences Peshawar E-mail:
26	DR. Muhammad Rafiq	Associate	IM Sciences Peshawar

		Professor	E-mail:
27	Mr. Mukkamal Shah	Assistant Professor	IM Sciences Peshawar E-mail:
28	Mr. Ali Bahadar	Assistant Professor	Degree College Gulabad E-mail:
29	Mr. Javed Ahmad	Assistant Professor	Post Graduate College Timergara E-mail:
30	Mr. Naveed Ali	Lecturer	University of Swat E-mail:

Note: For BS (4-Year) Economics and Master (2-year) Economics student's thesis evaluation and paper setting of affiliated colleges/institutions, the above list include faculty members of the Department of Economics UOM.

DEPARTMENTOFECONOMICS
UNIVERSITY OF MALAKAND

PROPOSED PANEL OF EXAMINERS FOR THESIS EVALUATION/VIVA VOCE/DEFENSE OF M.PHIL-2019

S.No	Name	Designation	Address
01	Dr. Zahoor-ul-Haq zahoor.haq@awkum.edu.pk	Professor	Department of Economics Abdul Wali Khan University Mardan
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