ECONOMICS (ECON)

ECON 110 Economic Principles 3 Credits
Grade Mode: Standard Letter, Audit/Non Audit

This course introduces students to essential concepts and tools used in microeconomic and macroeconomic analysis. Microeconomics deals with the behaviour of individual economic agents (persons, households and businesses) and shows how resources are allocated by the price mechanism through the interaction of consumer and producer decisions (demand and supply forces) under different market structures. Macroeconomics, however, deals with economics at an aggregate level focusing on such topics as the determinants of national income and economic growth, and the effects of fiscal and monetary policies on unemployment and inflation under different exchange rate regimes.

ECON 215 Economic Analysis for Engineering 2 Credits
Grade Mode: Standard Letter, Audit/Non Audit
Prerequisite(s): MATH 161, MATH 161

This course introduces students to the fundamental principles of economic analysis with a focus on their application in engineering contexts. Students will learn to assess the economic viability of engineering projects, considering factors such as cost estimation, financial forecasting, and risk analysis. Prerequisite: MATH 161.

ECON 601 Microeconomics: Theory & Applications 3 Credits
Grade Mode: Standard Letter, Audit/Non Audit

This course introduces the foundational concepts and tools of microeconomic analysis as they apply to real-world decision-making. Designed for economic analysts and policy professionals, it deepens understanding of market behavior, pricing, and strategic interaction. Key topics include elasticity, consumer choice, cost and production, labor markets, monopoly, and game theory. Through a combination of theoretical insights and applied case studies, participants will develop practical modeling skills, apply data-driven approaches, and conduct policy analysis to interpret and influence economic outcomes in both private and public sector contexts.

ECON 602 Macro and Monetary Economics 3 Credits
Grade Mode: Standard Letter, Audit/Non Audit

This module introduces the core concepts and analytical tools of modern macroeconomics. It examines how aggregate outcomes such as economic growth, inflation, unemployment, and trade balances are determined and shaped by fiscal and monetary policy. Students gain a practical understanding of how economies function, how shocks transmit across markets, and how data and case studies can be used to analyse macroeconomic trends and policy implications using Stata.

ECON 603 Applied Econometrics 1 3 Credits
Grade Mode: Standard Letter, Audit/Non Audit

This course introduces students to core econometric methods and their practical application in empirical economic research. Students will learn how to build, estimate, and interpret econometric models using real-world data. Topics include multiple regression analysis, hypothesis testing, time series models, panel data methods, and volatility modelling. The emphasis is on applying techniques to real-world data using STATA, developing critical analytical skills, formulating and evaluating econometric models and translating empirical results into policy-relevant insights.

ECON 604 Research Methods in Economics & Finance 3 Credits
Grade Mode: Standard Letter, Audit/Non Audit

This course equips MSc Economics students with essential research skills for rigorous inquiry in economics and finance. It covers research design, qualitative and quantitative methods, data sources, analytics techniques, and ethical research practices. Students learn to formulate research questions, design robust empirical strategies, analyze economic and financial data, and critically evaluate academic and policy-oriented studies to support evidence-based economic, financial, and sustainability-focused decision-making.

ECON 609 Economics of Climate Risk & ESG 3 Credits
Grade Mode: Standard Letter, Audit/Non Audit

This course examines the economics of climate risk and Environmental, Social, and Governance (ESG) analytics, focusing on how climate-related risks and sustainability factors influence markets, investment decisions, and corporate value. Students will apply economic theories to assess physical and transition risks, analyze ESG metrics, and evaluate policy impacts. Key topics include carbon accounting, greenhouse gas measurement, and net-zero transition strategies. Through case studies, quantitative modelling, and emerging technologies such as AI and blockchain, participants will design strategies to manage risks, screen investment portfolios, and align incentives with global sustainability goals.

ECON 615 International Economics 3 Credits
Grade Mode: Standard Letter, Audit/Non Audit

This elective MSc module provides a rigorous and policy-relevant introduction to international economics, with a strong focus on international trade. Building on students' microeconomic and econometric foundations, it develops the theoretical and empirical tools needed to understand why countries trade, what they trade, and who gains or loses. The module covers classical and modern trade theories, links them to real-world evidence, and examines trade policy, WTO rules, and contemporary challenges shaping the global trading system.

ECON 619 Financial Economics 3 Credits
Grade Mode: Standard Letter

This module offers a comprehensive understanding of the behavior of stocks, portfolios, and derivatives in modern financial markets. It develops the theoretical foundations of optimal portfolio selection, investment decision-making, and the valuation and use of derivatives for risk management and hedging. By integrating theoretical analysis with empirical applications, the course equips students with analytical and technical skills to understand asset pricing, asset allocation, and the role of financial markets in the wider economy.

ECON 690 Capstone Project 6 Credits
Grade Mode: Pass/Non Pass

ECON 695 Master's Thesis Hours 0-6 Credits
Grade Mode: Pass/Non Pass