

Department of Mathematics
FYDP MT-460 Final Year Design Project
Project List



F/SOP/FYDP 02/03/00

Batch 2022

Semester Fall 2025 – Spring 2026

S.No. /Project ID	Project Title	Student Name	Supervisor/Co-Supervisor	Industry
1.	Market Crashes and Investor Behaviour in Pakistan: An Empirical and Behavioural Finance Perspective	Mohib Zia CF-22069 Syeda Marjan Zehra CF-22020 Muhammad Zayan Sohail CF-22066 Maasfa Shaukat CF-22038	Mr. Muhammad Amin	
2.	Analyzing Fund Flow Patterns and Market Efficiency in Pakistan with Predictive Models	Roohan Khan CF-22029 Aina Batool CF-22005 Maida Murataza CF-22016 Laiba Sarfaraz CF-22019	Dr. Ubaida Fatima	
3.	Stochastic Optimal Control For Sovereign Debt Sustainability: A Dynamic Framework Integrating Exchange Rates, Growth & External Balances.	Ayesha Sajid CF-22040 Areeba Samad CF-22023 Maham Khan CF-22045	Mr. Sami Ullah Qureshi	
4.	An Econometric Analysis of Macroeconomic Determinants of Currency Risk in Import and Export-Based Companies of Pakistan	Zoha Fatima CF-22007 Hafiza Aleena Ibran CF-22014	Miss Ubaida Fatima	
5.	Design and Statistical Analysis of a Rule-Based Forex Trading Bot Using Fintech Tools.	Bareequa Qaiser CF-22052 Noman Ahmed CF-22033 Musqan khan CF-22303 Javeria sheez CF-22022	Dr. Ubaida Fatima	
6.	Construction of Yield Curve: Empirical Evidence from Pakistan	Rida Fatima CF-22025 Aleeza Khan CF-22304 Muhammad Abdul Aziz CF-22028 Masooma Irfan CF-22010	Mr. Sami ullah Qureshi	Mr. Monis Jawed
7.	Forecasting Liquidity Risk Factors and Classifying PSX-listed Non-Banking Companies Using Supervised and Unsupervised Models.	Farah Fatima Saleem CF-22048 Neha Sabir CF-22039 Hassan Muhammad Irshad CF-22302 Hamza Farooqui CF-22058	Dr. Ubaida Fatima	Mr. Hussain Kamran
8.	Sentiment Analysis of News for Sector-Specific Risk Forecasting	Syed Muhammad Daniyal CF-22054 Mehmood Ali Khan Lodhi CF-22027 Mehak Shoukat CF-22021 Noor-ul-Habib CF -22057	Dr. Komal Batool	

Department of Mathematics
FYDP MT-460 Final Year Design Project
Project List



F/SOP/FYDP 02/03/00

9.	Leveraging Machine Learning to Forecast Inflation and Determine Profitable Investments During Economic Uncertainty in Pakistan.	Humaira Abdul.Rasheed CF-22017 Rehan Murad CF-22055 Fiza Imran CF-22006 Muhammad Zain ul Aabidin CF-22031	Mr. Muhammad Amin	
10.	Forecasting Volatility Modeling Of Stock's Return: A Machine Learning Approach	Maham Shamim CF-22001 Ayesha Jamil CF-22008 Usara Sarwar CF-22009 Quratulain CF-22012	Dr. Ubaida Fatima	
11.	Intelligent Valuation: Combining Traditional Finance and Machine Learning	Laiba Irshad CF-22011 Marium Sabir CF-22042 Aneeqa Arshad CF-22049 Syed Ali Hassan Shah CF-22030	Mr. Muhammad Amin	Mr. Fouzan Akhter
12.	Financial Market Forecasting: Quantitative Insights into Financial Market	Aimen Anis CF-22015 Ushna Khan CF-22046 Fatima Zehra CF-22004 Muneeba Zulfiqar CF-22301	Dr. Komal Batool	
13.	Forecasting Pakistan Pensions System Using Machine Learning Techniques	Faisal CF-22035 Muhammad Haris CF-22072 Laiqa CF-22041 Daniyal Gul CF-22036	Dr. Ubaida Fatima	
14.	AI-Driven Portfolio Optimization Using Market Alternative Data	Bina Siddiqui CF-22068 Khadija Bint e Rizwan CF-22002 Nehaz Naz CF-22013 Syeda Tooba Iqbal CF-22053	Dr. Komal Batool	
15.	Money laundering detection in financial transactions using statistical anomaly scoring.	Muhammad Rehan Jawed CF-22063 Ushna Abbasi CF-22067 Raveen Rao CF-22047 Hamza Barkatullah Nawazi CF-22065	Dr. Ubaida Fatima	
16.	Machine Learning Driven Multi-Asset Portfolio Optimizer	Rukhsar Zainab Bangash CF-22026 Areeba Kamran CF-22003 Saad Hussain Siddiqui CF-22061 Syed Faran Ali CF-22059	Dr. Ubaida Fatima	Mr. Muhammad Ashad Kaleem
17.	Predictive Analytics for Commodity Price Dynamics of Crude Oil	Muhammad Ruhail CF-22032 Mohid Zain CF-22034 Waniya Raza CF-22044	Dr. Komal Batool	

Department of Mathematics
FYDP MT-460 Final Year Design Project
Project List



F/SOP/FYDP 02/03/00

		Alisha Khan CF-22037		
18.	Cybersecurity Risk Assessment & Insurance Pricing Modelling for Pakistan	Muhammad Zaeem Abbas CF-22064 Maha Khan CF-22024 Rafia Ahsan CF-22043 Syed Muhammad Hasan CF-22056	Mr. Sami ullah Qureshi	Mr. Waqas Owais

FYDP Coordinator _____

FYDP Review Committee Head _____

Chairperson _____