Course Title: Time Series Analysis in Data Science				
Course code: UDS 202	No. of credits:	: 4	L-T-P: 34-10-32	Learning hours: 60
Pre-requisite course code and title (if any): None				
Department: Natural and Applied Sciences				
Course coordinator:		Course instructor:		
Contact details:				
Course type: Major		Course offered in: Semester 4		
<b>Course Description:</b> The course provides an in-depth understanding of time series analysis, equipping students with skills in stationarity, noise, trend analysis and advanced forecasting techniques, supported by real-world case studies. The students will also learn to apply linear stochastic models, enhancing their quantitative skills and data-driven decision-making.				
Course objectives				
The course aims to provide a foundational understanding of:				
• Fundamentals of time s and the application of 1	series analysis, i inear stochastic	includi models	ng concepts of outli	er, noise, stationarity, trend

• Various linear stochastic models and forecasting techniques, using real-world case studies to develop practical skills in making accurate time series prediction.