

GOVT. POST GRADUATE NEHRU COLLEGE JHAJJAR

LESSON PLAN 2026-27

NAME: DEEPAK

SUBJECT: Business Analytics

CLASS: M.Com.(1st sem)

MONTHS	TOPICS
SEPTEMBER	Business analytics: introduction, types of analytics, characteristics of analytics, business analytics, business intelligence; business analytics process and its relationship with decision making process; Advantage of business analytics: informed decisions, developing distinct capability, creating competitive advantage, key attributes of analytical competitors.
OCTOBER	Analytical methods and models: Descriptive analytics—overview of its tools and techniques, role in business analytics process and its importance in business decision making; Predictive analytics—nature and type of modelling, basics of data mining and machine learning environment, role in business analytics process and its importance in strategic decision making; Prescriptive analytics: basics of its tools and modelling, role in business analytics process.
NOVEMBER	Business analytics in action: applicability and importance of business analytics in different areas—financial analytics, human resource analytics, marketing analytics, health care analytics, supply chain analytics, sport analytics and analytics for Government and non-profit organization.
DECEMBER	Developing analytics: statistician, data scientist and data engineer and their key features, skills required for analytics, big data and its analyst, important analytics software, major companies providing analytical solutions, job opportunities in business analytics.

Deepak

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Assistant Professor (Commerce)

GOVT. POST GRADUATE NEHRU COLLEGE, JHAJJAR

Lesson Plan Session – 2026-27

Name of Assistant Professor: Sh. Deepak

Class: M.Com. 3rd Sem.

Subject: Operational Research

Month	Topic
August	Operations Research: Meaning, Significance and Scope. Linear Programming: Introduction, Application Areas of Linear Programming, Problem Formulation, Duality in Linear Programming. Assignment Problems: Mathematical Models and Solution Models.
September	Transportation Problems: Introduction, Transportation Model, North West Corner Method (NWCN), Row and Column Minima Method, Optimality Test – Stepping Stone Method and MODI Method. Queuing Theory: Structure of a Queuing System, Performance Measures of a Queuing System, Probability Distributions in Queuing Systems.
October	Game Theory: Introduction, Two-Person Zero-Sum Games, Pure and Mixed Strategies, Saddle Point, Rules of Dominance. Replacement Theory: Replacement with and without Time Value of Money, Individual and Group Replacement Policy, Staffing and Equipment Renewal Problems.
November	CPM and PERT: Introduction, Network Components and Precedence Relationships, Finding Critical Paths, Time Estimates, Slack and Float.
December	Revision: Comprehensive revision of all four units, important numerical problems, previous examination-oriented questions, doubt clearing and examination preparation.

Deepak

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GOVT. POST GRADUATE NEHRU COLLEGE, JHAJJAR

Lesson Plan Session – 2025-26

Name of Assistant Professor: Sh. Deepak

Class: M.Com. 3rd Sem.

Subject: Fundamental of Econometrics

Month	Topic
August	Stochastic Processes: Introduction and basic concepts. Unit Root Stochastic Process. Non-stationary Time Series: Meaning and characteristics. Unit Root Test: Concept and purpose.
September	Unit Root Test: Application and interpretation. Structural Breaks in Time Series: Concept, identification and analysis. Introduction to Autoregressive Distributed Lag (ARDL) Models.
October	ARDL Models: Concept and application. Co-integration in time series. Causality in Time Series. Impulse Response Analysis.
November	Introduction, Properties and Estimation of ARMA Models. Introduction, Properties and Estimation of ARIMA Models. Introduction to Panel Data Models: Pooled OLS, Fixed Effects Model and Random Effects Model.
December	Revision: Comprehensive revision of all four units; important numerical and analytical problems; interpretation of econometric results; previous examination-oriented questions; doubt clearing and examination preparation.

Deepak

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