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ED5073 INFORMATION ANALYTICS

DETAILED SYLLABUS

OBJECTIVE

To expose the students with fundamental concepts and the tools needed to understand emerging role of information analytics in the organisation.

UNIT - I DATA ANALYTICS LIFE CYCLE

Introduction to Big data Business Analytics - State of the practice in analytics role of data scientists - Key roles for successful analytic project - Main phases of life cycle – Developing core deliverables for stakeholders.

UNIT - II STATISTICS

Sampling Techniques- Data classification, Tabulation, Frequency and Graphic representation-Measures of central value - Arithmetic mean, Geometric mean, Harmonic mean, Mode, Median, Quartiles, Deciles, Percentile - Measures of variation - Range, IQR, Quartile deviation, Mean deviation, standard deviation, coefficient variance, skewness, Moments & Kurtosis.

UNIT - III PROBABILITY AND HYPOTHESIS TESTING

Random variable, distributions, two dimensional R.V, joint probability function, marginal density function. Random vectors - Some special probability distribution - Binomial, Poison, Geometric, uniform, exponential, normal, gamma and Erlang. Multivariate normal distribution-Sampling distribution - Estimation - point, confidence - Test of significance, 1& 2 tailed test, uses of the distribution, F-distribution, χ 2 distribution.

UNIT – IV PREDICTIVE ANALYTICS

Predictive modeling and Analysis - Regression Analysis, Multicollinearity, Correlation analysis, Rank correlation coefficient, Multiple correlation, Least square, Curve fitting and good ness of fit.

UNIT – V TIME SERIES FORECASTING AND DESIGN OF EXPERIMENTS

Forecasting Models for Time series: MA, SES, TS with trend, season - Design of Experiments, one way classification, two way classification, ANOVA, Latin square, Factorial Design.

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- 2. Chris Eaton, Dirk Deroos, Tom Deutsch et al., "Understanding Big Data", McGrawHIII, 2012.
- 3. James R Evans, "Business Analytics Methods, Models and Decisions", Pearson 2013.
- 4. R. N. Prasad, Seema Acharya, "Fundamentals of Business Analytics", Wiley, 2015.
- 5. S M Ross, "Introduction to Probability and Statistics for Engineers and Scientists", Academic Foundation, 2011.