

Mandatory Course 2: HR Analytics

Course Type:	SE: Skill Enhancement Course	Course Credits:	4
Course Code:	H3SE508	Course Duration:	60 hours

Course Objective:

- To introduce foundational concepts and methodologies in human resource analytics.
- To equip students with analytical skills for interpreting HR data and metrics for informed decision-making.
- To demonstrate practical applications of predictive analytics in workforce planning and talent management.
- To train students in leveraging analytics tools for performance management and employee engagement.
- To critically assess ethical and privacy concerns associated with HR analytics implementation.

Course Outcomes:

- CO1: Understanding the basics of Analytics and HR Analytics, Relation of HR Analytics with HR strategies, learning different categories of HR Analytics.
- CO2: Applying HR Analytics to facilitate decision making in organizations.
- CO3: Analysing the business environment and use HR Analytics for various HR Functions.
- CO4: Evaluating the impact of HR Analytics in resolving business challenges.
- CO5: Applying analytics in employee performance, employee engagement, employee turnover, assessing diversity
- CO6: Understanding different advanced HR Analytic Techniques, ethical ways to use AI and enhance organization effectiveness.

Unit / Module	Content	CO Mapping	Hours Assigned
1	Introduction to Analytics: <ul style="list-style-type: none">● Evolution of Analytics● Need for Analytics in Business● Introduction to HR Analytics and link to organizational goals	CO1	4

2	Matrices and Analytics <ul style="list-style-type: none"> Terminology of Matrices and Analytics Descriptive Analytics Prescriptive Analytics Predictive Analytics Models in HR Analytics. 	CO1, CO2	8
3	HR Information Systems and Data <ul style="list-style-type: none"> Information Sources Analysis software options Preparing data: Using SPSS Big Data 	CO2, CO1	5
4	Analysis Strategies <ul style="list-style-type: none"> Descriptive reports to predictive analytics Statistical Significance: Types of data Types of statistical tests: Factor Analysis, Reliability & Validity Analysis, SEM etc. 	CO2, CO3	6
5	Recruitment and Selection Analytics <ul style="list-style-type: none"> Reliability and validity of selection process Human bias in recruitment and selection Predicting Employee Performance Indicators of Performance Methods for Measuring Performance	CO3, CO4	6
6	Predicting Employee Performance <ul style="list-style-type: none"> Indicators of performance: Methods for measuring performance 	CO3, CO4, CO5	4
7	Employee Engagement and Workforce Perceptions <ul style="list-style-type: none"> Measuring Employee Engagement: Interrogating the measures Conceptual Explanation of factor analysis 	CO4, CO5	4
8	Predicting Employee Turnover <ul style="list-style-type: none"> Relevance of employee turnover as an HR indicator Descriptive Turnover Analysis: Measuring and exploring differences between 	CO5, CO4	8

	turnover at an individual and team level <ul style="list-style-type: none"> Equality, diversity and inclusion: Approaches to measuring and managing D&I 		
9	Monitoring the Impact of Interventions <ul style="list-style-type: none"> Tracking the impact of various HR interventions 	CO3, CO4, CO5	3
10	Diversity Analytics <ul style="list-style-type: none"> Equality, diversity and inclusion: Approaches to measuring and managing D&I 		4
11	Advanced HR Analytic Techniques I <ul style="list-style-type: none"> Mediation Processes: Moderation and interaction analysis: multi-level linear modelling: Curvilinear relationships Advanced HR Analytic Techniques II Structural Equation Models: Growth Models: Latent class analysis: Response surface methodology and polynomial regression	CO5, CO6	5
12	Ethics in Analytics: <ul style="list-style-type: none"> Ethical Standards for HR Analytics Limitations of AI	CO6	3

Textbooks:

1. The New HR Analytics: Predicting the economic value of your company's human capital investment: Jac Fitz-enz
2. HR Analytics: The What, Why and How: Tracey Smith
3. HR Analytics Understanding Theories and Applications Dipak Kumar Bhattacharya Sage
4. Practical Applications of HR Analytics Pratyush Banerjee, Jatin Pandey, Manish Gupta Sage

Reference Books:

1. Predictive HR Analytics: Mastering the HR Metric: Dr. Martin R. Edwards,