MOHAMED SATHAK ENGINEERING COLLEGE

Kilakarai- 623806

STAFF NAME: Mrs.K.Samundeeswari

LESSON PLAN

Department of Information Technology

	Department of Information is	cennology	
Name of the Subject		Regulation	2021
Subject Code	CCW331	Year / Sem	III/ VI
Acad Year	2023-2024	Batch	2021-2025

Course Objective

- To understand the Analytics Life Cycle.
- To comprehend the process of acquiring Business Intelligence
- To understand various types of analytics for Business Forecasting
- To model the supply chain management for Analytics.
- To apply analytics for different functions of a business

Course Outcome

- CO1 Acquire the knowledge for the Analytics Life Cycle
- CO2 Understand real-world business problems and models with analytical solutions
- CO3 Identify the business processes for extracting Business Intelligence
- CO4 Learn predictive analytics for business forecasting
- CO5 Apply analytics for supply chain and logistics management
- CO6 Use analytics for marketing and sales

Lesson Plan

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Sl. No.	Topic(s)	Book	Periods Require d	Teaching (Google Meet/BB / PPT /	Blooms Level (L1-L6)	СО
UNI	T I: INTRODUCTION TO BUSINESS AN	ALYTICS (6)			
1	Analytics and data science Analytics life cycle	T1	1	WB	L2	CO1 & CO2
2	Types of Analytics-Business Problem definition	T1	1	WB/NPTEL	L3	CO1 & CO2
3	Data collection- Data preparation	T1	1	WB/NPTEL	L4	CO1 & CO2
4	Hypothesis generation	T1	1	WB	L5	CO1 & CO2
5	Modeling- Validation and Evaluation	T1	1	WB/NPTEL	L2 & L5	CO1 & CO2
6	Interpretation	T1	1	WB/NPTEL	L2	CO1 & CO2
7	Deployment and iteration.	T1	1	WB	L2	CO1 & CO2

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any. Assignment

Evaluation method: Assignment

UNIT II: BUSINESS INTELLIGENCE(6)

8	Data Warehouses and Data Mart	Т2	1	WB	L1	CO3
9	Knowledge Management	Т2	1	WB/NPTEL	L1	CO3
10	Types of Decisions	Т2	1	WB/NPTEL	L2	CO3
11	Decision Making Process	T2	1	WB	L2	CO3
12	Decision Support Systems Business Intelligence	Т2	1	WB/NPTEL	L2	CO3
13	OLAB Analysis formations	T2		WB/NPTEL	L2	CO3
14	OLAP – Analytic functions	T2	2	WB	L4	CO3

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any

Evaluation method: Case studies

UNIT III: BUSINESS FORECASTING(6)

15	Introduction to Business Forecasting and Predictive	1	WB/NPTEL	L4	CO4
16	analytics	1	WB/NFIEL	1.4	CO4
17	Logic and Data Driven Models	1	WB/NPTEL	L4	CO4
18	Logic and Data Driven Models	1	WB/NI IEE	L4	CO4
19	Data Mining and Predictive Analysis Modelling	1	WB/NPTEL	L4& L5	CO4
20	Data Willing and Fredictive Analysis Wodening	1	WB/NI IEE	L4& L3	CO4
21	Machine Learning for Predictive analytics.	1	WB/NPTEL	L4	CO4

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any Assignment

Evaluation method: Quiz/Mini Project

UNIT IV: HR & SUPPLY CHAIN ANALYTICS(6)

22	Human Resources – Planning and Recruitment	T4	1	WB	L2	CO5
23	Training and Development	Т4	1	WB	L2	CO5
24	Supply chain network	Т5	1	WB	L2	CO5
25	Planning Demand, Inventory and Supply	Т4	1	WB	L2	CO5
26	Logistics	Т5	1	WB	L2	CO5
27	Analytics applications in HR & Supply Chain	T4 & T5	1	WB	L3 & L4	CO5
28	Applying HR Analytics to make a prediction of the demand for hourly employees for a year	Т4	1	WB	L3 & L5	CO5

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any Quiz

Evaluation method: Quiz/Mini Project

UNIT V: MARKETING & SALES ANALYTICS(6)

29	Marketing Strategy, Marketing Mix, Customer Behaviour	Т3	2	WB/NPTEL	L2	CO6
30	selling Process	Т3	_	WB/NPTEL	L2	CO6
31	Sales Planning	Т3	2	WB/NPTEL	L2	CO6
32		Т3	_	WB/NPTEL		CO6
33	Analytics applications in Marketing and Sales	Т3	2	WB/NPTEL	L3 & L4	CO6
34	predictive analytics for customers' behaviour in	Т3	2	WB/NPTEL	L4	CO6
35	marketing and sales	Т3	2	WB/NPTEL	۵.	CO6

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any

Evaluation method: Seminar & QuiZ

Content Beyond the Syllabus Planned

- 1 BI and cloud computing BI for ERP systems –Social CRM
- 2 Data Integration -Fact table Dimension Table

Text Books

- 1. R. Evans James, Business Analytics, 2nd Edition, Pearson, 2017
- 2. R N Prasad, Seema Acharya, Fundamentals of Business Analytics, 2nd Edition, Wiley 2016
- 3. Philip Kotler and Kevin Keller, Marketing Management, 15th edition, PHI, 2016
- 4. VSP RAO, Human Resource Management, 3rd Edition, Excel Books, 2010.
- 5. Mahadevan B, "Operations Management -Theory and Practice", 3rd Edition, Pearson Education, 2018.

Website / URL References

www.msec.org.in & https://nptel.ac.in/courses/110105089

Blooms Level

Level 1 (L1) :	Remembering	Lower	Fixed	Leve	l 4 (L4)		Lower	Higher Order		
Level 2 (L2) :	Understanding	Order Thinking		Leve	15 (L5)					
Level 3 (L3) :	Applying		Level 6 (L6): Creating						order	Thinking
	Mapping syllabus with	Bloom's T	axonoi	ny L	OT and	НОТ				
Unit No	Unit Name		L1	L2	L3	L4	L5	L6	LOT	НОТ
Unit 1	Unit 1 INTRODUCTION TO BUSINESS ANALYTICS				1	1	2	0	4	4
Unit 2	BUSINESS INTELLIGENCE		2	4	0	1	0	0	6	1
Unit 3	BUSINESS FORECASTING		0	0	0	7	1	0	0	8
Unit 4	Unit 4 HR & SUPPLY CHAIN ANALYTICS					1	1	0	5	4
Unit 5	MARKETING & SALES ANALYTICS	0	3	2	4	0	0	3	6	
	Total		2	16	5	14	4	0	18	23

CO PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
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CO1	2	2	3	1	1	-	-	-	1	2	1	1	3	2
CO2	3	3	3	2	3	1	1	1	1	2	2	2	3	2
CO3	2	2	3	3	2	-	-	-	3	1	1	3	3	2
CO4	2	1	1	2	2	1	1	-	3	3	2	1	1	2
CO5	2	3	2	3	2	1	1	-	3	3	1	3	3	1
CO6	2	3	2	3	2	1	1	1	3	3	1	3	3	1
Avg	2.17	2.33	2.33	2.33	2	1	1	1	2.33	2.33	1.33	2.17	2.67	1.67
3 High level		2		Moderate level		1		Low level						

Name & Sign of Faculty Incharge: K.Samundeeswari

Name & Sign of Subject Expert : Mrs.Santhana Lakshmi/MBA

Head of the Department :Dr.B.Aysha Banu