

Subject: DATABASE ADMINISTRATION AND DATA MINING
Title: DATABASE ADMINISTRATION AND DATA MINING
[GENERIC CORE]

Semester: V	Credits: 3	Subject Code: BB52202	Lectures: 48
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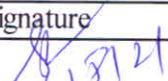
Course Outcomes:

At the end of this course the learner will be able to:

- Identify the concepts of the Database Management System
- Analyze the concepts of RDBMS
- Recognize the concept of Data Mining
- Classify the current trends in Data Management

Unit 1: Introduction to Database Management System	22
<ul style="list-style-type: none"> • Introduction, • Objectives • DBMS concepts <ul style="list-style-type: none"> ○ Entity ○ Attribute ○ Relationship types • Purpose of Database System • Advantages and Disadvantages of Database System 	
Unit 2: Database Administration	8
<ul style="list-style-type: none"> • Introduction • Transaction states • Purpose of Database administration • Concept of Database Administration • Introduction of RDBMS • Transaction management, Properties of Transaction (ACID Properties) 	
Unit 3: Data Warehousing	14
<ul style="list-style-type: none"> • Introduction • Purpose • Data Warehousing concepts • Need of Data Warehousing • Applications 	



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<ul style="list-style-type: none"> • Advantages • Limitations 	
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Unit 4: Data Analytics and Data Mining	4
<ul style="list-style-type: none"> • Introduction • Purpose • Data Analytics Scope, and it's Business Relevance. • Types of Data Analytics. • Data Mining concepts <ul style="list-style-type: none"> ○ Need of Data Mining, ○ Applications ○ Advantages ○ Data Mining Process ○ Limitations • Cloud Computing <ul style="list-style-type: none"> ○ Introduction ○ Purpose ○ Cloud ○ Computing concepts • Need of Cloud Computing <ul style="list-style-type: none"> ○ Applications ○ Advantages ○ Limitations 	

#12 hours for Library work, assignments, practical or field work

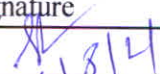
Recommended Text Books:

- ElmasriRamez, NavatheShamkant, *Fundamentals of Database System*, Pearson Education; Seventh edition
- Parteek Bhatia, *Data Mining and Data Warehousing: Principles and Practical Techniques*, Cambridge University Press

Reference Books:


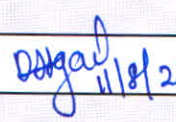
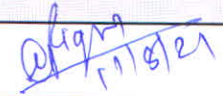
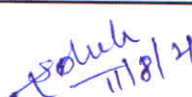
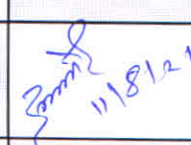
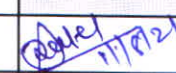

- Abraham Silberschatz, Henry F. Korth, S. Sudarshan, *Database System Concepts*, McGraw Hill Education; Sixth edition
- Pang-Ning Tan, Michael Steinbach, Vipin Kumar, *Introduction to Data Mining*, Pearson Education; First edition
- Sandeep Bhowmik, *Cloud Computing*, Cambridge University Press; First edition

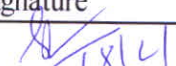


Board Of Studies	Name	Signature
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Websites:

- www.w3cschool.com

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Head of the Department	Asst Prof Smita Borkar		 11/8/21
Faculty*	Asst Prof. Deepali Gupta	 11/8/21	
Faculty*	Asst Prof Monika Rajguru		 11/8/21
Subject Expert (Outside SPPU)	Dr.Sachin Bhoite	 11/8/21	
Subject Expert (Outside SPPU)	Dr. Sagar Jambhorkar		 11/8/21
VC Nominee	Prof Anjum Patel	 11/8/21	
Industry Expert	Ms.Shrutika Wayal		 11/8/21
One Alumni***	Ms. VidhiThakkar		

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