

**M.L. Dahanukar College of Commerce**

**Teaching Plan: 2017 - 18**

**Department: I.T.**

**Class: T.Y.B.Sc.(I.T.)**

**Semester:VI**

**Subject: Internet Technologies**

**Name of the Faculty: Aruta A Jayswal**

<b>Month</b>	<b>Topics to be Covered</b>	<b>Internal Assessment</b>	<b>Number of Lectures</b>
Nov	Unit 1-Introduction: OSI Model, TCP/IP Protocol Suite, IPV 4 Addresses and Protocol and IPV6 Addresses and Protocol		10 Lectures
Dec	Unit 2-Address Resolution Protocol (ARP), Internet Control Message Protocol Version 4 (ICMPv4), Mobile IP, Unicast Routing Protocols (RIP, OSPF and BGP)		10 Lectures
Jan	Unit 3-User Datagram Protocol (UDP), Transmission Control Protocol (TCP)  Unit 4- Stream Control Transmission Protocol (SCTP), Host Configuration: DHCP, Domain Name System (DNS)		10 Lectures
Feb	Unit 5-Remote Login: TELNET and SSH, File Transfer: FTP and TFTP ; World Wide Web and HTTP		10 Lectures
March	Unit 6-Electronic Mail: SMTP, POP, IMAP and MIME, Multimedia		10 Lectures

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**Teaching Plan: 2017– 18**  
**Department:Information Technology**

**Class: T.Y.B.Sc.(I.T.) – Semester VI**

**Subject: Project Management**

**Name of the Faculty: Navneet Kaur Nagpal**

<b>Month</b>	<b>Topics to be Covered</b>	<b>Number of Lectures</b>
November	Waterfall model, conventional software management performance, software economics, pragmatic software cost estimation, improving software economics(size, process, personnel, environment, quality)	10
December	Principles of conventional software engineering, principles of modern software management, lifecycle phases(engineering stage- inception and elaboration, production stage- construction and transition), artifacts (management, engineering, programmatic), Software process workflow, iteration workflow	15
January	major and minor milestone, periodic status assessment, work breakdown structure, pragmatic planning, iteration planning process, planning guidelines, cost and schedule estimating	15
February	Line of business organization, project organization, project environment, automation, 7 core metrics(management and quality indicators), pragmatic software metrics, metrics automation, process discriminants, software management best practices	10
March	Modern project profiles, next generation software, modern process transitions, culture shift, denouement	10

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**Teaching Plan: 2017 – 18**

**Department: Information Technology**

**Class: T.Y.B.Sc.(I.T.) – Semester VI**

**Subject: Data Warehousing**

**Name of the Faculty: Prof. Supritha Bhandary**

<b>Month</b>	<b>Topics to be Covered</b>	<b>Internal Assessment</b>	<b>Number of Lectures</b>
Dec	<b>Introduction to Data Warehousing:</b> Introduction, Necessity, Framework of the data warehouse, options, developing data warehouses, end points. An Introduction to Oracle Warehouse Builder: Installation of the database and OWB, About hardware and operating systems, Installing Oracle database software, Configuring the listener, Creating the database, Installing the OWB standalone software, OWB components and architecture, Configuring the repository and workspaces.		14
jan	Data Warehousing Design Consideration and Dimensional Modelling: Defining Dimensional Model, Granularity of Facts, Additivity of Facts. Defining and Importing Source Data Structures: An overview of Warehouse Builder Design Center, Importing/defining source metadata, Creating a project, Creating a module, Creating an Oracle Database module, Designing the Target Structure: Data warehouse design, Dimensional design, Cube and dimensions, Implementation of a dimensional model in a database, Relational implementation (star schema), Multidimensional implementation (OLAP)		17
Feb	Designing the ACME data warehouse, Identifying the dimensions, Designing the cube, Data warehouse design in OWB, Creating a target user and module, Create a	Class Test	14

	<p>target user, Create a target module, OWB design objects.</p> <p>Creating the Target Structure in OWB: Creating dimensions in OWB, The Time dimension, Creating a Time dimension with the Time Dimension Wizard, The Product dimension, Product Attributes (attribute type), Product Levels, Product Hierarchy, Creating a cube in OWB, Creating a cube with the wizard, Using the Data Object Editor, ETL BASICS</p>		
Mar	<p><b>Validating, Generating, Deploying, and Executing Objects:</b> Validating, Validating in the Design Center, Validating from the editors, Validating in the Data Object Editor, Validating in the Mapping, Editor, Generating, Generating in the Design Center, Generating from the editors, Generating in the Data Object Editor, Center ,Manager, Executing, Deploying and executing remaining objects, Deployment Order, Execution order.</p> <p><b>Extra Features:</b> change management, Recycle Bin, Cut, copy, and paste, Snapshots, Metadata Loader (MDL) exports and imports, Synchronizing objects, Changes to tables, Changes to dimensional objects and auto-binding, Warehouse Builder online resources.</p> <p><b>Data warehousing and OLAP:</b> Defining OLAP, The Value of Multidimensional data, OLAP terminologies, Multidimensional architectures, Multidimensional views of relational data, Physical Multidimensional databases, Data Explosion, Integrated relational</p>	Class Test	15

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# M.L. Dahanukar College of Commerce

## Teaching Plan: 2017 - 18

Department: I.T.

Class: T.Y.B.Sc.(I.T.)

Semester:VI

Subject: Geographical Information System

Name of the Faculty: : Sujata Patil

Month	Topics to be Covered	Internal Assessment	Number of Lectures
November	Introduction to GIS, Geographically referenced data, Geographic, projected and planer coordinate system, Map projections, Plane coordinate systems		4
December	Vector data model, Raster data model Existing GIS data, Metadata, Conversion of existing data, Creating new data, Geometric transformation, RMS error and its interpretation, Resampling of pixel values.		16
January	Attribute data in GIS Relational model, Data entry, Manipulation of fields and attribute data ,cartographic symbolization, types of maps, typography, map design, map production, Exploration, attribute data query, spatial data query, raster data query, geographic visualization		20
February	Vector data analysis: Introduction, buffering, map overlay, Distance measurement and map manipulation. Raster data analysis: Data analysis environment, local operations, neighbourhood operations, zonal operations	Class test	20
March	Distance measure operations Spatial Interpolation: Elements, Global methods, local methods, Kriging, Comparisons of different methods		16

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