

The Orchid School
Baner
Weekly Syllabus Overview 2015- 2016
Std : XI
Subject : Informatics Practices

Month	Lesson / Topic	Expected Learning Objective	Activities/ FAs Planned	Remark
March	Chapter 1 : Hardware Concepts	To learn about the computer machine,what it is and how it evolved to make our work easier.		
APRIL	Chapter 1: Hardware Concepts	To learn about the functioning mechanism of computer, how it takes instruction and gives processed result.	Group oral question session(how computer functions,using real life)	
	Chapter 1: Hardware Concepts	To make students understand about the various types of computer.	Prepared charts for types of computers.	
	Chapter 1: Hardware Concepts	To discuss and understand about the basic I/O and memory devices.	Research on I/O & memory devices from internet & discussion on them	
	Chapter 1: Hardware Concepts	To learn about how the communication buses,ports and use of memory cards helps the computer system to work properly.	PPT Presentation on Hardware Concepts	
MAY	Chapter 1: Hardware Concepts	To understand the benefits of e-waste recycling	Group discussion	

MAY	Chapter 1: Hardware Concepts	Revising all the topics from the chapter	Worksheet on Hardware concepts	
JUNE	Chapter 2: Software Concepts	To understand what is a software component in computer system and how does it collaborates with the hardware to work efficiently. To learn about the types of softwares with their usage in daily life.	PPT Presentation	
	Chapter 2: Software Concepts	To read and discuss about the security of computer system.	Debate among students.	
	Revision	To revise the taught portion	Worksheets + oral revision in class	
	Chapter 3: Getting Started with programming using IDE	To make students learn about the basics of JAVA, and java GUI toolkit.		
JULY	Chapter3: Getting Started with programming using IDE	Creating a project in Netbeans GUI Builder	Lab Activity & assignments	
	Chapter4: Programming Fundamentals	To understand about the object naming conventions,components, events and working with labels.		
	Chapter 4: Programming Fundamentals	To brief students about tokens used in java languageand concept of datatypes.		
UT 1				

JULY	Chapter5: Flow of Control	To have introduction of programming elements, constructs and statements.	Small assignments on flow of control	
	Chapter5: Flow of Control	To grasp the concept of loops in java, along with jump statements.	Comparative study of different types of Looping Structures	
AUG	Chapter6: Java IDE programming - I	To introduce students to java programming language, where to type programs, how to execute them as well.		
	Chapter6: Java IDE programming - I	To understand swing components,working with containers,using HTML in swing components.		
	Chapter6: Java IDE programming - I	To discover about methods in java,and methodology to work with Push buttons.	Lab Assignments on Event Handlers	
	Chapter7: Java IDE programming - II	To learn how to use labels(Jlabel type component) and the use of scroll pane in java.	Lab Assignments on Swing controls like Label, Scroll Pane, Text Field, Password Field	
SEPT	Chapter7: Java IDE programming - II	To elaborate more about the controls used in java like Text Area, Check Boxes, Radio Buttons etc	Lab Assignments on Swing controls like Text Area, Check Boxes, Radio Buttons	
	Chapter8: Java IDE programming - III	To introduce/brief the students about List controls.	Lab assignments on List Control	
	Chapter8: Java IDE programming - III	To learn how to work with lists in java.		

	Chapter8: Java IDE programming - III	To learn the working of combo boxes with their practical usage.	Lab assignments on Combo box Control	
	Revision	Revise the taught portion.	Worksheet + Lab Practicals.	
Term 1 Exam				
OCT	Chapter10: DBMS Concepts	To brief the students about DBMS, its purpose of use,concept of RDBMS,views and stucture of relational database.		
	Chapter11: Introduction to MySQL	To discover a brief history about My SQL,processing capabilities of SQL,DDL,Classification of SQL statements.		
	Chapter14: Table Creation & Data Manipulation commands	To make students learn about databases in SQL(creation,opening,removal).	Lab practical work.	
	Chapter14: Table Creation & Data Manipulation commands	To make them understand how they can create tables using integrity constraints, insertion ,modification and deletion of data from tables.	Table data manupulation Activities in Lab	
NOV	Chapter14: Table Creation & Data Manipulation commands	To discover more DDL commands, use of ALTER and DROP commands.	Query writing Practice	
	Chapter12: Simple Queries in SQL	To make students learn what are types of queries in SQL,My SQL elements.	Executing simple queries in Lab	

	Chapter12: Simple Queries in SQL	To make them learn how to run simple queries (select command,view data,DISTINCT keyword etc.)	Executing simple queries in Lab	
DEC	Chapter12: Simple Queries in SQL	To make them understand othe queries too as WHERE clause, handling nulls,operator precedence.	Worksheet on Queries	
	Chapter12: Simple Queries in SQL	Revising the use of queries.	Worksheet on Queries	
	Chapter13: MY SQL functions	To make the understand the basic SQL functions as string, numeric and DATE/TIME functions.	Executing different MySQL Functions in Lab	
	Revision	Revise the taught portion.	Worksheets + lab work.	
	UT 2			
JAN	Chapter9: Programming Guidelines	To understand Stylistic Guidelines of a good Program	Chart on stages of Program development.	
	Chapter9: Programming Guidelines	To learn about Types of Errors & Exception handling in programming	Presentation on Exception Handling & Types of errors	
	Chapter15: IT Applications	IT Applications in E-Governance, E-Business, E-Learning, Know about impact of ICT on society	Group Discussion about ICT impact	
	Java Project	Real time project development	Building a simple application in Java	

FEB	Java Project	Real time project development	Building a simple application in Java	
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	Revision	Revise the taught portion.	Worksheets + lab work.	
Final Exam				