INFORMATION TECHNOLGY (802)
SESSION-2019-20
JOB ROLE: Domestic IT Helpdesk Assistant

The present course curriculum offers an opportunity for students to understand the basics of computer software and hardware for working efficiently on computer. This course will enable students to hone skills to develop desktop based applications etc. With extensive demand of designers the course aims at inculcating not only programming skills but also the understanding of graphics. Graphics in itself is a wide and very interesting area which helps in shaping the creativity of a student.

Preamble

Computer is now affecting energy sphere of human activity. It is instrumental in bringing revolutionary changes in industry, scientific research and education. This is not only the demand of time but also the demand of almost each and every subject to have an associated computer learning to equip a student with start-of-art technology to prove himself/herself a better candidate than those without computer knowledge.

Class XII (2019-20)

Total Marks: 100 (Theory-60+Practical-40)

SCHEME OF UNITS

This course is a planned sequence of instructions consisting of units meant for developing employability and vocational competencies of students of Class XII opting for vocational subject along with general education subjects. The unit-wise distribution of hours and marks for class XII is as follow:

Information Technology (802) CLASS XII Session 2019-20			
	Units	**No. of Hours for Theory and Practical 260**	**Max. Marks for Theory and Practical 100**
Part A	**Employability Skills**		
	Unit 1 : Communication Skills-IV	10	10
	Unit 2 : Self-Management Skills-IV	10	
	Unit 3 : Information and Communication Technology Skills-IV	10	
	Unit 4 : Entrepreneurial Skills-IV	15	
	Unit 5 : Green Skills-IV	05	
	Total	**50**	**10**
Part B	**Vocational Skills**	**Theory Periods** / **Practical Periods**	**Marks**
	Unit 1– Database Concepts – RDBMS Tool	30 / 45	10
	Unit 2– Operating Web Based Applications	15 / 20	12
	Unit 3 – Fundamentals of Java programming, Introduction to Java, Object Oriented Programming, Java Language Elements, Operators, Control Flow, Array, Class Design, Exception Handling, Assertions, Threads , Wrapper Classes, String Manipulation.	30 / 50	20
	Unit 4– Work Integrated Learning IT – DMA	10 / 10	8
	Total	**85** / **125**	**50**

Part C	Practical Work			
	Practical Examination			15
	Written Test			10
	Viva Voce			05
	Total			**30**
Part D	**Project Work/Field Visit**			
	Practical File/ Student Portfolio			10
	Total			**10**
	Total Periods	**50+85+125=260**	**Total Marks**	**100**

Note:-Detailed Curriculum/ Topics to be covered under employability skill can be downloaded for CBSE website.

Part-B

	Unit Title	Total Marks
Unit: 1	Database Concepts – RDBMS Tool. Basics of RDBMS. SQL – Creating and Opening Database. Creating and populating tables. Modifying the content and structure of table. Ordering and Grouping. Operating with multiple tables.	10
Unit : 2	Operating Web Based Applications. Online Reservation Systems. E-Governance. Online Shopping and Bill payments. Online Tutorials and Tests. Project Management – Web Based Application development. Project essentials and tips. Case Study - Online Game. Case Study - Online Quiz. Case Study – Online Bill Calculator.	12
Unit: 3	Fundamentals of Java programming, Introduction to Java, Object	20

	Oriented Programming, Java Language Elements, Operators, Control Flow, Array, Class Design, Exception Handling, Assertions, Threads , Wrapper Classes, String Manipulation .	

Unit: 4	Work Integrated Learning IT – DMA.
	
	  Identification of Work Areas.
	  Work Experience.
		8

	Total	50

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Practical   *Marks: 40*

Details	Marks Distribution

Programs / Practical Questions.
      SQL Queries (10 Marks).
      JAVA Programs (10 Marks).
      Operating Web Based Application (5 Marks).
	25

Project / Practical File	10
Viva Voce	5
Total	**40**