

CBSE | DEPARTMENT OF SKILL EDUCATION

CURRICULUM FOR SESSION 2020-2021

INFORMATION TECHNOLOGY (CODE – 402)

JOB ROLE: DOMESTIC DATA ENTRY OPERATOR

RATIONALIZED CURRICULUM FOR CLASS–X FOR SESSION 2020-21

Total Marks: 100 (Theory-50 + Practical-50)

	UNITS	NO. OF HOURS for Theory and Practical 200		MAX. MARKS for Theory and Practical 100
		Theory (In Hours)	Practical (In Hours)	Marks
Part A	Employability Skills			
	Unit 1 : Communication Skills-II	10		10
	Unit 2 : Self-Management Skills-II	10		
	Unit 3 : Information and Communication Technology Skills-II	10		
	Unit 4 : Entrepreneurial Skills-II	15		
	Unit 5 : Green Skills-II	05		
	Total	50		
Part B	Subject Specific Skills			
	Unit 1: Digital Documentation (Advanced)	12	18	8
	Unit 2: Electronic Spreadsheet (Advanced)	15	23	10
	Unit 3: Database Management System	18	27	12
	Unit 4: Web Applications and Security	15	22	10
	Total	60	90	40
Part C	Practical Work			
	Practical Examination			15
	Written Test			10
	Viva Voce			10
	Total			35
Part D	Project Work/Field Visit			
	Practical File/ Student Portfolio			10
	Viva Voce			05
	Total			15
	GRAND TOTAL	200		100

DETAILED CURRICULUM/TOPICS:

Part-A: EMPLOYABILITY SKILLS

S. No.	Units	Duration in Hours
1.	Unit 1: Communication Skills-II	10
2.	Unit 2: Self-management Skills-II	10
3.	Unit 3: Information and Communication Technology Skills-II	10
4.	Unit 4: Entrepreneurial Skills-II	15
5.	Unit 5: Green Skills-II	05
	TOTAL DURATION	50

NOTE: For detailed Curriculum/ Topics to be covered under Part A: Employability Skills can be downloaded from CBSE website.

Part-B – SUBJECT SPECIFIC SKILLS

S. No.	Units	Duration in Hours
1.	Unit 1: Digital Documentation (Advanced)	30
2.	Unit 2: Electronic Spreadsheet (Advanced)	38
3.	Unit 3: Database Management System	45
4.	Unit 4: Web Applications and Security	37
	TOTAL DURATION	150

UNIT 1: DIGITAL DOCUMENTATION (ADVANCED)

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Create and Apply Styles in the document	<ul style="list-style-type: none">• Styles/ categories in Word Processor• Styles and Formatting window.*• Fill Format.*• Creating and updating new style from selection• Load style from template or another document.• Creating a new style using drag-and-drop.*• Applying styles.	<ul style="list-style-type: none">• List style categories. Select the style from the Styles and Formatting window.• Use Fill Format to apply a style to many different areas quickly.• Create and update new style from a selection.• Load a style from a template or another document.• Create a new style using drag-and-drop.

(* To be assessed in Practicals only. No question shall be asked from this portion in Theory Exams)

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
2.	Insert and use images in document	<ul style="list-style-type: none"> Options to insert image to document from various sources. Options to modify, resize, crop and delete an image. Drawing objects and its properties. Creating drawing objects and changing its properties. Resizing and grouping drawing objects. Positioning image in the text. 	<ul style="list-style-type: none"> Insert an image to document from various sources. Modify, resize, crop and delete an image. Create drawing objects Set or change the properties of a drawing object Resize and group drawing objects Position the image in the text
3.	Create and use template	<ul style="list-style-type: none"> Templates. Using predefined templates. Creating a template. * Set up a custom default template. Updating a document.* Changing to a different template. Using the Template. 	<ul style="list-style-type: none"> Create a template. Use predefined templates. Set up a custom default template. Update a document. Change to a different template. Use the Template.
4.	Create and customize table of contents	<ul style="list-style-type: none"> Table of contents. Hierarchy of headings. Customization of table of contents. Character styles. Maintaining a table of contents. 	<ul style="list-style-type: none"> Create table of contents. Define a hierarchy of headings. Customize a table of contents. Apply character styles. Maintain a table of contents.
5	Implement Mail Merge	<ul style="list-style-type: none"> Advance concept of mail merge in word processing, Creating a main document, Creating the data source, Entering data in the fields, Merging the data source with main document, Editing individual document,* Printing a letter and its address label 	<ul style="list-style-type: none"> Demonstrate to print the label using mail merge, do the following to achieve Create a main document, Create the data source, Enter data in the fields, Merge the data source with main document, Edit individual document, Print the letter and address label

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UNIT 2: ELECTRONIC SPREADSHEET (ADVANCED)

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Analyse data using scenarios and goal seek.	<ul style="list-style-type: none"> • Using consolidating data. Creating subtotals. • Using “what if” scenarios. Using “what if” tools • Using goal seek and solver. 	<ul style="list-style-type: none"> • Use consolidating data Create subtotals • Use “what if” scenarios Use “what if” tools • Use goal seek and solver
2.	Link data and spreadsheets	<ul style="list-style-type: none"> • Setting up multiple sheets. Creating reference to other sheets by using keyboard and mouse. • Creating reference to other document by using keyboard and mouse.* • Relative and absolute hyperlinks • Hyperlinks to the sheet. <ul style="list-style-type: none"> ○ Linking to external data. ○ Linking to registered data sources. 	<ul style="list-style-type: none"> • Setup multiple sheets by inserting new sheets. • Create reference to other sheets by using keyboard and mouse. • Create reference to other document by using keyboard and mouse. • Create, Edit and Remove hyperlinks to the sheet. • Link to external data. • Link to registered data source.
3.	Share and review a spreadsheet	<ul style="list-style-type: none"> • Setting up a spreadsheet for sharing.* • Opening and saving a shared spreadsheet. Recording changes. • Add, Edit and Format the comments. • Reviewing changes – view, accept or reject changes. Merging and comparing. 	<ul style="list-style-type: none"> • Set up a spreadsheet for sharing. • Open and save a shared spreadsheet. • Record changes. • Add, Edit and Format the comments. • Review changes – view, accept or reject changes. • Merge and compare sheets.
4.	Create and Use Macros in spreadsheet	<ul style="list-style-type: none"> • Using the macro recorder. Creating a simple macro. Using a macro as a function. • Passing arguments to a macro. • Passing the arguments areas values. • Macros to work like built-in functions. • Accessing cells directly. • Sorting the columns using macro. 	<ul style="list-style-type: none"> • Use the macro recorder. Create a simple macro. Use a macro as a function. • Pass arguments to a macro. • Pass the arguments are as values. • Write macros that act like built-in functions • Access cells directly. • Sort the columns using macro.

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UNIT 3: DATABASE MANAGEMENT SYSTEM

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Appreciate the concept of Database Management System	<ul style="list-style-type: none"> • Concept and examples of data and information, • Concept of database, • Advantages of database, • Features of database, • Concept and examples of Relational database, • Concept and examples of field, record, table, database, • Concept and examples of Primary key, composite primary key, foreign key, • Relational Data base management system (RDBMS) software. 	<ul style="list-style-type: none"> • Identify the data and information, • Identify the field, record, table in the database, • Prepare the sample table with some standard fields. • Assign the primary key to the field, • Identify the primary key, composite primary key, foreign key.
2.	Create and edit tables using wizard and SQL commands	<ul style="list-style-type: none"> • Introduction to a RDBMS • Database objects – tables, queries, forms, and reports of the database, • Terms in database – table, field, record, • Steps to create a table using table wizard, * • Data types in Base, • Option to set primary key Table Data View dialog box • DDL Commands 	<ul style="list-style-type: none"> • Start the RDBMS and observe the parts of main window, • Identify the data base objects Create the sample table in any category using wizard, Practice to create different tables from the available list and choosing fields from the available fields. • Assign data types of field, Set primary key, • Edit the table in design view, Enter the data in the fields. • Create and edit table using DDL Commands
3.	Perform operations on table	<ul style="list-style-type: none"> • Inserting data in the table, • Editing records in the table, • Deleting records from the table, • Sorting data in the table, Referential integrity, • Creating and editing relationships – one to one, one to many, many to many, • Field properties. 	<p>Demonstrate to:</p> <ul style="list-style-type: none"> • Insert data in the table, Edit records in the table, Delete records from table, Sort data in the table, • Create and edit relationships • one to one, one to many, many to many, • Enter various field properties.

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S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
4.	Retrieve data using query	<ul style="list-style-type: none"> • Database query, • Defining query, • Query creation using wizard,* • Creation of query using design view,* • Editing a query, • Applying criteria in query – single field, multiple fields, using wildcard, • Performing calculations, • Grouping of data, • Structured Query Language (SQL). 	<ul style="list-style-type: none"> • Prepare a query for given criteria, • Demonstrate to create query using wizard, and using design view, • Edit a query, • Demonstrate to apply various criteria in query – single field, multiple fields, using wild card, • Performing calculations using query in Base, • Demonstrate to group data, • Use basic SQL commands,
5.	Create Forms and Reports using wizard	<ul style="list-style-type: none"> • Forms in Base, • Creating form using wizard,* • Steps to create form using Form Wizard,* • Options to enter or remove data from forms • Modifying form, • Changing label, background, • Searching record using Form, • Inserting and deleting record using Form View, • Concept of Report in Base, • Creating Report using wizard,* • Steps to create Report using Wizard.* 	<ul style="list-style-type: none"> • Illustrate the various steps to create Form using Form Wizard, • Enter or remove data from Forms, • Demonstrate to modify Forms, • Demonstrate to change label, background, • Search record using Form, • Insert and delete record using Form View, • Illustrate the various steps to create Report using Report Wizard, • Demonstrate various examples of Report.

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UNIT 4: WEB APPLICATIONS AND SECURITY

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Working With Accessibility Options.	<ul style="list-style-type: none"> • Understand various types of impairment that impact computer usage • Computer Accessibility Dialog box and its tabs • Serial Keys 	<ul style="list-style-type: none"> • Illustrate use of various options under Computer Accessibility like Keyboard , mouse, sound, display setting serial keys, cursor options • use of toggle keys, filter keys, sticky keys, • sound sentry, show sounds etc.
2.	Understand Networking Fundamentals	<ul style="list-style-type: none"> • Network and its types. • Client Server Architecture, Peer-to-peer (P2P) Architecture, • internet, World Wide Web, • benefits of networking • internet, getting access to internet, • internet terminology • Some of the commonly used Internet connectivity options • Data transfer on the Internet 	<ul style="list-style-type: none"> • Identify applications of Internet • comparing various internet technologies • identifying types of networks and selecting internet
3.	Introduction to Instant Messaging	<ul style="list-style-type: none"> • learn key features of instant messaging • Creating an instant messaging account • Launching Google Talk * • Signing In into your Google Talk Account* 	<ul style="list-style-type: none"> • Illustrate steps to create instant messaging account • Signing In into your Google Talk Account
4.	Chatting With a Contact – Google Talk	<ul style="list-style-type: none"> • learn to chat with a contact that is already added to your contact list. • sending text chat messages instantly by double-clicking on a contact. • general rules and etiquettes to be followed while chatting. • chatting on various types of messengers 	<ul style="list-style-type: none"> • Illustrate chat with a contact and send messages, • chatting with various messenger services
5	Creating and Publishing Web Pages – Blog ...-	<ul style="list-style-type: none"> • learn and appreciate a blog and its creation with the help of some blog providers* • set up title and other parameters in a blog posting comments • using offline blog editors 	<ul style="list-style-type: none"> • Illustrate Blog Creation and setting various parameters in it

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S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
6	Using Offline Blog Editors	<ul style="list-style-type: none"> • Concept to create blogs using a blog application and publish the blog whenever internet connectivity is available. 	<ul style="list-style-type: none"> • Demonstration on how to create blogs using a blog application offline. • posting messages in an offline application • Publish the blog whenever internet connectivity is available using various examples
7	Online Transaction	<ul style="list-style-type: none"> • concept of e-commerce and various online applications • importance of secure passwords 	<ul style="list-style-type: none"> • Illustration of online shopping using various e-commerce sites • Demonstration of securing passwords for online transactions.
8.	Internet Security	<ul style="list-style-type: none"> • Need of internet security • Cyber threats like phishing, email-spoofing, char spoofing etc. • best practices for internet security and secure passwords • concept of browser, cookies, backup, antivirus • clearing data in browsers 	<ul style="list-style-type: none"> • Illustration of internet security threats through various ways • Cyber security tips • Tips for secure passwords • Demonstration of strong passwords using various websites. • Clearing data stored in browser applications.
9.	Maintain workplace safety	<ul style="list-style-type: none"> • Basic safety rules to follow at workplace – Fire safety, • Falls and slips, Electrical safety, • Use of first aid. • Case Studies of hazardous situations. 	<ul style="list-style-type: none"> • Practice to follow basic safety rules at workplace to prevent accidents and protect workers – Fire safety, • Falls and slips, Electrical safety, Use of first aid.
10.	Prevent Accidents and Emergencies	<ul style="list-style-type: none"> • Accidents and emergency, • Types of Accidents, • Handling Accidents • Types of Emergencies. 	<ul style="list-style-type: none"> • Illustrate to handle accidents at workplace, • Demonstrate to follow evacuation plan and procedure in case of an emergency.
11.	Protect Health and Safety at work	<ul style="list-style-type: none"> • Hazards and sources of hazards, • General evacuation procedures, • Healthy living. 	<ul style="list-style-type: none"> • Identify hazards and sources of hazards, • identify the problems at workplace that could cause accidents,

			<ul style="list-style-type: none">• Practice the general evacuation procedures in case of an emergency.
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