Council of Higher Secondary Education, Odisha Syllabus for IT/ITES (Job Role: **CRM Domestic Voice**)

Class-XI

Paper-I

SCHEME OF UNITS

Part	Units	No of hours for Theory and Practical	No of marks for Theory and Practical
	Employability Skills		
	Unit 1: Communication Skills	12Hrs 45min	2
	Unit 2: Self-management Skills	12Hrs	2
Part-A	Unit 3: Basic ICT Skills	21Hrs 45min	3
	Unit 4: Entrepreneurial Skills	9Hrs	1
	Unit 5: Green Skills	12Hrs	2
Total		67Hrs 30min	10
	Vocational Skills		
	Unit 1: Introduction IT/ITES Industry	7Hrs 30min	6
	Unit 2: Training of CRM Domestic Voice	8Hrs 15min	6
Part-B	Unit 3: Make Outbound Calls: Interaction With Customer	13Hrs 30min	7
	Unit 4: CRM application: Free CRM	12Hrs	7
	Unit 5: Work Management	13Hrs 30min	7
	Unit 6: Workplace Safety & Hazards	12Hrs 45min	7
Total		67Hrs 30min	40

Part A: Employability Skills

Unit-1 Communication Skills		{8Theory+3Practical=17Periods} 1 Period=45 minutes / 1 Practical= 3 periods		
Theory		Practical		
1. <u>Methods of communication</u>	8	Writing pros and cons of written, verbal	3	
Verbal		and non-verbal communication		
Non-verbal		Listing do's and don'ts for avoiding		
Visual		common body language mistakes		
2. <u>Communication styles</u>		Observing and sharing communication		
Assertive Communication		styles of friends, teachers and family		
Passive Communication		members and adapting the best practices		
Aggressive Communication		Role-plays on communication styles		
Passive-				
Aggressive				
Communication				
Nonverbal Communication Collaborative Communication				
Authoritative Communication				
Persuasive Communication				
Empathetic Communication				
Formal vs.				
Informal		Demonstration and practice of writing		
Communication		sentences and paragraphs on topics related to the subject		
3. Writing skills		related to the subject		
Sentence Phrase				
Kinds of Sentences				
Parts of Sentence				
Parts of Speech Articles				
Construction of a Paragraph				
Unit-2		{7 Theory + 3 Practical=16 Periods}		
Self-management Skills		1 Period=45 minutes / 1 Practical= 3 periods		
Theory		Practical		
1 . The importance of	7	Demonstration of impressive appearance	3	
self- management		and groomed personality. Demonstration of		
Dressing appropriately		the ability to self- explore.		
Looking decent and positive				
body language.				
What is grooming, and prepare a				
personal grooming checklist.				
Thetechniques ofself-				
exploration.				

2. Importantfactors	Group discussion onqualities of a good team.
Influence inteam building	Group discussion on strategies that are
Influencing teamwork.	adopted for team building and team work
 3. Meaning and importance of time management Setting and prioritizing goals Creating a schedule Making lists of tasks Balancing work and leisure Using different optimization tools to break large tasks into smaller tasks 	Game on time management. Checklist preparation. To-do-list preparation.
Unit 3 {11Theory-	+6Practical=29 Periods }
Basic ICT Skills	1Period=45 minutes/1Practical=3periods
Theory	Practical

1. Introduction to ICT Role and importance of ICT in personal life and at workplace ICT in our daily life (examples) ICT tools – Mobile, tab, radio, TV,	11	Discussion on the role and importance of ICT in personal life and at workplace. Preparing posters / collages for showing the role of ICT at workplace.	6
 email, etc. 2. Basic components of computer system. . Hardware and software. . Primary and secondary 		Identify and name the various components of computer. List few hardware & software. Identify and name the primary and secondary memory. Identify the various Input, Output and Storage devices.	
 memory. Input, Output and Storage devices Various peripheral devices and their use. Examples of peripherals Perform basic computer operations 		Start the computer in proper sequence and get OS screen. Identify the installed OS on computer. Identify the desktop and its various components. Work with desktop. Create file and folder. Perform keyboard and mouse operations.	
Procedure for starting and shutting down a computer.			
Operating Systems (OS). Types of OS – DOS, Windows, Linux.		Introduce with Internet. Explain the	
Desktop of Windows and		applications of Internet.	
Linux. Files and folder.		List the various Internet Browser.	
Keyboard and mouse operations.			
Common desktop			
operations. 4. Internet and its applications			
4.1. Introduction to Internet.			

Applications of Internet.	Search the websites. Create	
Internet Browser.	Email account. Send and	
	receive email.	
Websites and webpages.	Use Social Media in education. Use	
Email applications.	Blog.	
Email accounts.	Use Twitter.	
Sending and receiving	Use Facebook.	
email.	Use You-tube.	
Introduction to social	Use WhatsApp.	
media.	Use Digital India.	
Blog.		
Twitter.		
Facebook.		
You tube.		
WhatsApp.		
Digital India.		
	pry + 2 Practical=12 Periods)	
Entrepreneurial Skills	1Period=45 minutes/1Practical=3periods	
	Trende (5 minutes) Tructicul - Sperious	
Theory	Practical	
1. Significance of	6 Listing of entrepreneurial values by the	2
entrepreneurial values and	students. Group work on identification of	4
attitude	entrepreneurial values and their roles after	
Values in general and	listing or reading 2-3 stories of successful	
entrepreneurial values.	entrepreneur. Exhibiting entrepreneurial	
Entrepreneurial value	values in Ice breaking, rapport building,	
orientation with respect to	group work and home assignments.	
Innovativeness, independence,		
outstanding performance and	Preparing a list of factors that	
respect for work	influence attitude in general and	
	entrepreneurial attitude.	
2. knowledge of attitudinal	Demonstrating and identifying own entrepreneurial attitudes during the	
changes required to	following micro lab activities like thematic	
become an entrepreneur	appreciation test.	
Attitudes in general and	Preparing a short write-up on "who am I".	
entrepreneurial attitudes	Take up a product and suggest how its	
Using imagination/intuition	features can be improved.	
Tendency to take moderate	Group activity for suggesting brand names,	
risk Enjoying freedom of expression	names of enterprises, etc.	
Enjoying freedom of expression and action		
Looking for economic		
opportunities		
Believing that we can change the		
environment		
Analyzing situation and planning		
Analyzing situation and planning action involving in activity.		

Unit 5 Green Skills {7 Theory + 3 Practical=16Periods} 1 Period=45 minutes / 1 Practical= 3 periods

Theory		Practical		
1. Importance of main sector of green economy	7	Preparing a poster on any one of the sectors of green economy.	3	
Main sectors of green economy.		Writing a two-page essay on important initiatives taken in India for promoting		
E-waste management green transportation		green economy.		
Renewal energy. Green construction.				
 Water management. Policy initiatives for greening economy in India. 2. Major green Sectors/ Areas and the role of various stakeholder in green economy Stakeholders in green economy. Role of government and private agencies in greening cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests 		Preparing posters on green Sectors/Areas: cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries.		

Part B: Vocational Skills

<u>Unit 1</u>		{4 Theory + 2Practical=10 Periods}		
Introduction IT/ITeS Industry Theory		1 Period=45 minutes / 1 Practical= 3 periods		
		Practical		
1. Introduction to IT/ITES Growth of IT sector in India Classification of IT industry Employment Trends in IT Introducing Outsourcing Different Sectors in Outsourcing Jobs Introducing Business Process Outsourcing (BPO) Difference between Domestic and International BPO Discuss Inbound and Outbound Calls Define KPO, HRO, LPO	4	 Explain the need and importance of CRM Voice. List the types of CRM Voice. Illustrate the process flow of CRM Voice. Communicate with customer by the selected mode. Verify the customer identity by using the per-registered data. Arrange group discussion to satisfy the customer query. Adopt professionalism and behavior in providing services to customer. Keep the services updated to Serve better to the customer. Provide appropriate solution and services to the customer. 	2	
<u>Unit 2</u>		{2 Theory + 3 Practical=11 Periods}		
Training Of CRM Domestic Voice		1 Period=45 minutes / 1 Practical= 3 period	ods	
Theo		Practic		
ry 1. Training Of CRM Domestic	2	Demonstrate the training	3	
Voice1.ExplPurpoftTrain1.ainoseIhi ngProgram.IDescRoleaI2.ribeInI2.ribeIaIDomesticIIIVoice.1.3. Define Personal Attributes of a CRMDomestic Voice		 steps to insert a record in CRM system. Have the group work in pairs and discuss each of the following: Products and services offered by the company. Record complaints and Receive feedback. 		

1.4. Explain required professional skills		
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<u>Unit 3</u>		{6 Theory + 4 Practical=18 Periods}		
Make Outbound Calls: Interaction With Customer		1 Period=45 minutes / 1 Practical= 3 periods		
Theory		Practic al		
 Make outbound calls & interaction with customer. Interaction with customers. Define to make a good first impression Introducing yourself to peers and bosses Introducing yourself to customer – inbound calls Introducing yourself to customers – tele-selling calls. Introducing yourself to customers – tele-selling calls. Introducing yourself to customers – tele-selling calls. Introducing yourself to customers – tele of meeting and greeting. Importance of meeting and greeting. Need for complimenting and commenting Giving and receiving Compliments and comments. Discuss call flow (routing) define information security Explain Call center metrics Explain provide great customer Describe telephone etiquette Explain qualities to be developed to make a tele-sale call. Challenges during a tele-sales call Introducing up-sell or cross-sell discuss customer's sales record different type of call Define complaint. 	6	 Introducing You in front of class. Role-play of couple confused customer (not sure for their choice of movie DVD) and customer service representative. See online video and practice for vocabulary of outbound call of communication Identifies the information security basic parameters 	4	
<u>Unit 4</u>	{	4Theory + 4 Practical=16Periods}		
CRM application: Free CRM	1	Period=45 minutes / 1 Practical= 3 periods		
Theory		Practic al		
 Introduction CRM Application Introducing CRM application Steps for Login in Free CRM Features of Free CRM 	4	 List out the steps of to use Free CRM application Generate or create an event using Free CRM Create a company and its call 	4	

<u>Unit 5</u>	{6	5 Theory + 4 Practical=18 Periods}	
Work Management	1 Per	riod=45 minutes / 1 Practical= 3 periods	
Theory		Practic al	
 Work Management Explain Work Requirement Discuss type of Voice Process like — Customers Service, Tele- Sales, Collections, Data Entry. Define Standard Organizational Policies Define Standard Organizational Procedures 	6	 Make different group of students and perform as customer support representative and other perform as customer: Customers Service, Tele- Sales, Collections, Data Entry 	4
Unit 6	{57	Theory + 4 Practical=17 Periods}	
Workplace Safety & Hazards	1 Per	iod=45 minutes / 1 Practical= 3 periods	
Theory		Practic al	
 Workplace Safety & Hazards Introducing Workplace Safety & Hazards Prevention of disasters/risk events Define Accidents and Emergencies Define Workplace Safety Rules Discuss Handling Accidents Types of Emergencies Explain protect health and safety at work place. 	5	 List out the prevention of disaster and risk. List out the type of emergencies. 	4

Part A-90 Classes Part B-90 Classes Total= 180 Classes

Syllabus for IT/ITES

Class-11 **Paper-II**

Part A

<u>Unit 1</u>	Unit 1 {2 Theory + 1 Practical=05 Periods}		
Introduction toIT	1 Period=45 minutes / 1 Practical= 3 periods		
Theory		Practic al	
 Introduction to IT Overview of IT and its significance in the modern world. Historical development of IT Ethical and legal considerations in IT Overview of IT and its significance Evolution of computing technology Digital literacy and responsible use of technology 	2	 Make a journal, recording every instance where we use IT in daily lives and discuss how IT has become an integral part of modern life. Provide students with a list of significant IT milestones (e.g., invention of the computer, development of the internet, introduction of smartphones). Encourage students to research and add additional events or inventors relevant to the history of IT. Provide a selection of old computer hardware components (e.g., vintage CPUs, keyboards, and monitors) or pictures of historical computer hardware. 	1
Unit 2	{6	Theory + 2 Practical=12 Periods}	
Computer Languages	1 Pe	eriod=45 minutes /1 Practical= 3 periods	
Theory		Practic al	

 Computer Languages Introduction to computer language: Machine language, Assembly language and High-level language. 4GL translator, Compiler, Interpreter, Assembler, Characteristics of good programming language. Number System : Positional and non- positional number system, Types of numbers, Conversion (Binary, Octal, Decimal, Hexadecimal) Computer Codes (BCD, ASCII, EBCDIC), Sign magnitude Computer Arithmetic (Binary addition, 	6	 List out the languages of Computer. List out the 4GL Translators. Introduce all level program ming languages. Prepare a project on Algorithm and Flow Chart of programming on chart paper. 	2
Subtraction, Multiplication and Division)			
. Algorithm and Flow Chart of programming.			

Unit 3	{6	5 Theory + 4 Practical=18 Periods}	
Basic Trouble Shooting	Shooting1 Period=45 minutes / 1 Practical= 3 periods		
Theory		Practic al	
1. Basic Trouble Shooting Identify the Problem Understand the Context Restart or Reboot Check for Updates Review Error Messages Check Hardware Connections Test in Safe Mode Disable or Uninstall Recent Changes. Scan for Malware and Viruses. Clear Cache and Temporary Files Check Disk Space Run Diagnostic Tools Restore to a Previous State Seek Online Resources	6	 Demonstrate Boot Failure trouble shooting. Provide a set of peripherals (e.g., keyboard, mouse, and monitor) and a computer. Ask students to diagnose the problem and reconnect or configure the peripheral correctly. Set up a simple network with routers, switches, and computers and discuss the trouble shooting. Discuss with the Students about error messages and logs. Guide them through uninstalling, reinstalling, or applying updates to fix the software issue. Set up a printer and discuss where the printer refuses to print or produces low-quality prints. Delete or corrupt a file or folder on a computer. Virus and Malware Removal Overheating and Hardware Issues 	4
Unit 4	{7	Theory + 6 Practical=25Periods}	
Internet VsIntranet	· ·	priod=45 minutes / 1 Practical= 3 periods	
Theory		Practic al	

recovery strategies for the intranet.	 Internet Basics of the Internet, its history, architecture, protocols, and various web services and technologies. TCP/IP and the OSI model DNS (Domain Name System) and IP addressing Introduction to web browsers Navigating the web, bookmarks, and tabs 2. Intranet Design, implementation, and management of intranet networks Concept and purpose of intranets. Design and set up an intranet network. Content management and collaboration tools for intranets. Master intranet security and user access control. Intranet administration. Definition and purpose of intranets Benefits and challenges of intranet 	7	
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{6 Theory + 8 Practical=30 Periods}

Office automation

1 Period=45 minutes / 1 Practical= 3 periods

Office automation	Period=45 minutes / 1 Practical= 3 periods				
Theory		Practic al			
1. Working with MS Office MS Word MS – EXCEL MS – POWERPOINT Google Docs 2. DESKTOP PUBLISHING (DTP) Introduction to DTP	6	 MS Office & Google Docs Page Maker Corel Draw 	8		
Uses of DTP and print Documents, Uses of fonts, Frames, page layout, etc. PageMaker. Corel Draw. 3. Principles of Double Entry Duality Principle. Accounting Equation. 3.3Debits and Credits. 3.4Types of Accounts: Dual Entry for Every Transaction		 Transaction Analysis. Journal Entries. Ledger Posting. Trial Balance. Adjusting Entries. Financial Statements. Closing Entries. Closing Entries. Comprehensive Case Studies. Errors and Corrections. 			
T-Accounts 3.7Journal Entries 3.8Ledger 3.9Trial Balance Financial Statements Accrual Basis Consistency					

Part B

<u>Unit 1</u>	{2 Theory + 1 Practical=05 Periods}
IT Project Management 1	Period=45 minutes / 1 Practical= 3 periods
Theory	Practic al

1. IT Project Management Introduction to project management principles Planning and executing a small IT project Documentation and reporting.	2	 Key project management and responsibilities. Divide students into teams. Assign a simple IT project simulation (e.g., software development, website creation). Identifying stakeholders and their roles. Estimating project time and resource requirements. Identifying project risks and developing a risk management plan. Conducting project closure meetings. 	1
		 Conducting project closure meetings. Documentation and knowledge transfer. 	

Introduction C Programming

Introduction C Programming		1 Period=45 minutes/1 Practical= 3 periods			
Theo ry		Practic			
		al			
 <u>CProgramming</u> Understand the basic concepts of programming and algorithmic thinking. Write, compile, and debug C Programs. Develop problem-solving skills using programming. Work with fundamental data types, operators, and control structures in C. Develop an understanding of functions, arrays, and pointers. Create simple projects and applications in C. 	6	 Write a simple C program that displays "Hello, World!" on the screen. Explain the basic structure of a C program, including the main function. Create a program that declares and initializes variables of various data types, such as integers, floats, and characters. Develop a program that performs basic arithmetic operations (addition, subtraction, multiplication, and division) on user-input numbers. Write a program that asks the user for their age and determines if they are eligible to vote based on their age. Create programs that demonstrate the use of for and while loops to display patterns (e.g., stars, numbers) or calculate factorial and sum of numbers. Implement a program that uses arrays to store and manipulate a list of numbers, such as finding the maximum and minimum values. Introduce array indexing and loops for array traversal. Develop a program with user-defined functions to perform specific tasks, such as calculating the area of a circle, finding prime numbers, or reversing a string. Create a program that handles strings, including reading input, finding string length, concatenating strings, and comparing strings. Introduce file input/output by writing a program to the use of pointers for memory manipulation, passing by 			

		reference, and dynamic memory allocation (e.g., using `malloc` and `free`).	
Unit 3		{8 Theory + 5 Practical=23 Periods}	
Introduction Python Programmi		1 Period=45 minutes / 1 Practical= 3 periods	
	heo	Practic	
	ry	al > Hello World. 5	
1. Python Programming	8	 Create a simple calculator. 	
1.1. Introducti to Pytho on	n	Build a program that converts between Celsius and	
1.2. Variabl and Data T	/pes	Fahrenheit. Ask the user for	
es		the temperature and the desired	
1.3. Variabl and their us	е.	conversion.Implement a basic to-do list	
es 1.4. User Input and Output		 Implement a basic to-do list where users can add, delete, and 	
1.5. Conditional Statements		view tasks.	
1.6. Loops		Develop a simple text-based	
1.7. Lists		Hangman game where the computer selects a random word,	
1.8. Function		computer servers a random word,	

	S		and the user has to guess it one	
1.9.	Dictionar	and Sets	letter at a time.	
	ies			

1.10. File Handling	 Create a game where the user can play against the computer in a rock-
	paper- scissors match.
	Utilize the Turtle graphics library
	to draw geometric shapes like
	squares, triangles, and circles.
Unit-4	{10 Theory + 3 Practical=19 Periods}
Digital Marketing	1 Period=45 minutes / 1 Practical= 3 periods
Theo	Practic
ry	al

 Introduction to Digital Marketing Understanding the significance of digital marketing. Historical evolution of marketing. Traditional vs. digital marketing. Website Basics The importance of having a website. Website design and userexperience. Registering a domain and hosting. Content Marketing What is content marketing? Types of content (blogs, videos, infographics, etc Creating high quality content. Search Engine Optimization(SEO) Introduction to SEO. Content Marketing Introduction to SEO. Social Media Marketing Social Media Marketing Social media platforms overview (Facebook, Instagram, Twitter, LinkedIn, etc.). Creating and optimizing social media profiles. Content creation and posting strategies. Email Marketing Understanding email marketing. Building an email list. Designing effective email campaigns. Pay-Per-Click Advertising (PPC) What is PPC advertising? Creating Google Ads campaigns. Managing and optimizing PPC campaigns. Managing and optimizing PPC campaigns. Measuring on social media platforms. Targeting options and demographics. Measuring adperformance. Influencer Marketing The role of influencers in digital marketing.<th>10</th><th> Create a digital marketing plan for a hypothetical business or improve the online presence of a local small business. Digital marketing campaigns, case studies, and industry trends. Make a sample project. </th><th>3</th>	10	 Create a digital marketing plan for a hypothetical business or improve the online presence of a local small business. Digital marketing campaigns, case studies, and industry trends. Make a sample project. 	3
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10. Analytics and Data			
10.1 Introduction to Google Analytics.			
10. 2 Measuring website traffic and user behavior.			
10.3 Using data for decision-making.			
11. Online Reputation Management			
11.1 Monitoring online reviews and mentions. 11.2			
Strategies for managing online reputation.			
11.3 Case studies of reputation management.			
Unit-5	{10	Theory + 3 Practical=19 Periods}	
Basics of Cyber Security	1 Pe	riod=45 minutes /1 Practical= 3 periods	
Theo		Practic	
ry		al	

 Password Management Use strong, unique passwords for each account. 	10	Practice Strong and Unique Password	3
. Combine letters, numbers, and special characters.			
. Avoid easily guessable information like birthdays or common words.			
. Consider using a password manager to store and generate complex passwords.		Enable two factor authentication	
2. Two-Factor Authentication (2FA):			
Enable 2FA whenever possible for added security.			
2FA requires you to provide two forms of authentication (e.g., password and a one-time code) to access your accounts.		Update antivirus and software	
3. Software Updates:			
Keep your operating system, software, and apps up to date.			
Updates often contain security patches to fix vulnerabilities that attackers may exploit.			
4. Antivirus and Antimalware Software:			
Install reputable			
antivirus and antimalware software			
on your devices.			
Regularly scan for and remove malicious software.			
5. Firewalls:			
Use firewalls, both at the network and device level, to filter incoming and outgoing traffic.			
Configure firewalls to allow only necessary connections.			

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6. Email Safety:	
Be cautious of phishing emails and	
suspicious attachments.	
Verify the sender's identity before	
clicking on links or downloading	
attachments.	
Do not share sensitive information via	
email unless it is secure.	
7. Social Engineering Awareness:	
Be wary of social engineering tactics	
used by attackers to manipulate	
individuals into revealing sensitive	
information or taking harmful actions.	
Always verify the identity of the	
person or organization making a	
request.	
8. Secure Wi-Fi:	
Secure your home Wi-Fi network with a	
strong password.	
Change default router login	
credentials.	
Disable remote management if not	
needed.	
9.Safe Browsing Habits	
Avoid visiting suspicious or untrusted	
websites.	
Look for "https://" and a padlock icon in	
the address bar for secure websites.	
Be cautious when clicking on ads or	
C	
pop-ups.	
10. Regular Audits and	
Vulnerability Scanning:	
Conduct regular security audits	
and vulnerability assessments to	
identify and address weaknesses in	
your systems and networks.	

Part A-90 Classes Part B-90 Classes

Total= 180 Classes

Reference:

- CRM Domestic voice by Skill India & NSDC.
 Employability Skill by Nimi (National Instructional Media Institute).
- Computer Application in Business by Himalaya Publication.
 IT/ITES by Utkal Publication.

Syllabus for IT/ITES

Class-12

Paper-III

Part A: Employability Skills

	nit-1 ommunication Skills-I\	/	{8 Theory + 3 Practical= 17Perio 1 Period=45 minutes / 1 Practical= 3 per	-
	Theory		Practical	
1.	Importance of active listening at workplace	8	Demonstration of the key aspects of becoming active listener.	3
2.	Steps to active listening. 2.1 Pay Attention 2.2 Show That You're Listening 2.3 Paraphrase 2.4 Clarify 2.5 Reflect Feelings 2.6 Empathize 2.7 Avoid Interrupting 2.8 Provide Feedback 2.9 Suspend Judgment 2.10Respond Appropriately Writing skills to the following: 2.1 Sentence		Preparing posters of steps for active listening. Demonstration and practice of writing sentences	
<u>U</u>	 2.1 Sentence 2.2 Phrase 2.3 Kinds of Sentences 2.4 Parts of Sentence 2.5 Parts of Speech Articles 2.6 Construction of a Paragraph 		and paragraphs on topics related to the subject {7 Theory + 3 Practical=16 Period	s}
<u>Se</u>	elf-management Skills	-IV :	1 Period=45 minutes / 1 Practical= 3 peri	ods
	Theory		Practical	
1. 2.	Finding and listing motives (needs and desires); Finding sources of motivation and inspiration (music, books,	7	Group discussion on identifying needs and desire.	3
3.	activities); expansive thoughts; living fully in the present moment; dreaming big Describe the meaning of personality. Describe how personality		Discussion on sources of motivation and inspiration.	

influence others. Describe basic personality traits. Describe common personality disorders- paranoid, antisocial, schizoid, borderline, narcissistic, avoidant, dependent and obsessive.	Demonstrate the knowledge of different personality types.	
Unit 3 Pagie ICT Skille	{11 Theory + 6 Practical=29 Perio	-
Basic ICT Skills	1 Period=45 minutes / 1 Practical= 3 pe	riods

Theory		Practical	
1. Introduction to word	11	List the software and features	6
processing.		for word processing.	
Software packages for word		Open and exit the word processor.	
processing.		Create a document.	
Opening and exiting the word		Edit the text.	
processor. Creating a document.		Wrap and align the text.	
Saving document.		Change the font type, size, and face.	
Text editing.		Insert Header and Footer.	
Word wrap and alignment.		Use Autocorrect option.	
Font size, type and face.		Assign numbering and bullets to	
Header and Footer.		list items. Create Table.	
Auto Correct.		Save the document.	
Numbering and Bullet.		Protect the document with password.	
Creating Table.		Print the document. Use Find and	
Password protection.		Replace. Give page numbering.	
Printing document.		Save the document in various formats.	
Find and Replace.			
Page numbering.			
Saving a document in various			
formats			
2. Introduction to			
spreadsheet application.		Introduce with the spreadsheet	
Various spreadsheet		application. List the spreadsheet applications.	
applications. Creating a new worksheet.		Create a new worksheet. Open the	
Opening workbook and entering		workbook and enter text.	
data.		Resize fonts and styles. Copy & move the	
Resizing fonts and styles.		cell data. Sort and Filter the data.	
Copying and moving. Filter and sorting.		Apply elementary formulas and functions.	
Formulas and functions.		Protect the spreadsheet with password.	
Password protection.		Print a spreadsheet.	
Printing a spreadsheet.		Save the spreadsheet in various formats.	
Saving a spreadsheet in various			
formats.			

Software packages for presentation.presentation.Creating a presentation. Entering and editing text. Adding a slide.presentation. Create a new presentation. Add a slide to presentation. Delete a slide.Deleting a slide. Formatting text.Enter and edit text. Format text.Inserting clipart & images. Slide layout.Insert clipart & images. Slide layout.Slide transition and custom animation.Save a presentation.	Saving a presentation. Printing a presentation.	
Software packages for presentation.presentation.Creating a presentation. Entering and editing text. Adding a slide.presentation. Create a new presentation. Add a slide to presentation. Delete a slide.Deleting a slide. Formatting text. Inserting clipart & images. SlideEnter and edit text. Format text.Insert clipart & images. SlideInsert clipart & images. Slide layout.	animation.	· · · · · · · · · · · · · · · · · · ·
Software packages for presentation.presentation.Creating a presentation. Entering and editing text. Adding a slide.presentation. Create a new presentation. Add a slide to presentation. Delete a slide.Deleting a slide. Formatting text.Enter and edit text. Format text.		
Software packages for presentation.presentation.Creating a presentation. Entering and editing text. Adding a slide.Create a new presentation. Add a slide to presentation. Delete a slide.	v	
Software packages for presentation.		to presentation. Delete a slide.
3. Introduction to presentation software. Explain the features of presentation.	software . Software packages for	List the software packages for presentation.

<u>Unit 4</u> Entrepreneurial Skills-IV

{6 Theory + 2 Practical=12 Periods} 1 Period=45 minutes / 1 Practical= 3 periods

Theory		Practical	
 Barriers to becoming entrepreneur. Behavioural and entrepreneurial competencies , adaptability/ decisiveness, initiative/perseverance, interpersonal skills, organizational skills, stress management, valuing service and diversity. 	6	Administering self-rating questionnaire and score responses on each of the Competencies. Collect small story/ anecdote Of prominent successful Entrepreneurs. Identify entrepreneurial competencies reflected in each story and connect it to the definition of behavioural Competencies. Preparation of competency profile of students.	2
 Entrepreneurial competency in particular: self-confidence, initiative, seeing and acting on opportunities, concern for quality, goal setting and risk taking, problem solving and creativity, systematic planning and efficiency, information seeking, persistence, influencing and negotiating, team building. 		Games and exercises on changing entrepreneurial behaviour and development of competencies for enhancing self-confidence, problem solving, goal setting, information seeking, team building and creativity.	

<u>Unit 5</u> Green Skills-IV

{7 Theory + 3 Practical=16 Periods} 1 Period=45 minutes / 1 Practical= 3 periods

Theory		Practical	
 Role of green jobs in toxin- free homes. Green organic gardening, public transport and energy conservation, Green jobs in water conservation. Green jobs in solar and wind power, waste reduction, reuse and recycling of wastes, Green jobs in green tourism Green jobs in building and construction. Green jobs in appropriate technology. Role of green jobs in Improving energy and raw materials use Role of green jobs in limiting greenhouse gas emissions Role of green jobs minimizing waste and pollution 	7	Practical Listing of green jobs and preparation of posters on green job profiles. Prepare posters on green jobs.	3
pollution Role of green jobs in protecting and restoring ecosystems Role of green jobs in support adaptation to the effects of climate change.			

Part B: Vocational Skills

<u>Unit 1</u>		{21 Theory + 4 Practical=33 Per	iods}
Fundamentals of ERP	1	L Period=45 minutes / 1 Practical= 3 pe	eriods
Theory		Practical	
 Define Enterprise. Define Planning. Challenges of enterprise systems. Uses of enterprise resource planning. Understanding the factors affecting ERP. Advantages of ERP. ERP vendors 	4	List the advantages of ERP. List the components of ERP. List the ERP vendors. Explain basic structure of an Enterprise Resource Planning system. Communicate typical integrated business processes in an ERP such as procurement. Perform common business transactions as an end-user in an ERP system. Configure an ERP system for specific business processes. Perform an activity to Contribute as a member of an ERP implementation or configuration.	2
 Define time management concept and importance of time management. Understanding the improve time management skills. Define time management in IT. 		Interpret the concept and importance of time management. List the ways to improve time management skills. Improve time management skills. Promote sharing of ideas and group participation to resolve a problem or question.	
Unit 2		{10 Theory + 4 Practical=22 Per	iods}
Basics of Procurement Policy and BPO's		1 Period=45 minutes / 1 Practical= 3 p	-
Theory		Practical	
 Introduction Procurement Policies. Explain the Benefits and Limitations Procurement Policies. 	2	Interpreted the Importance of Procurement Policies. List the Benefits and Limitations of Procurement Policies.	3
 Define Business Process. Introduction to BPO Industry. Understanding Role of BPO 		List the various leading Indian BPO. Explain the applications Area of BPO. List the Different services of BPO. Interpreted the importance of BPO	

List the Indian leading BPO Company.

Case study about a BPO

industry.

Company.

Industry. Understanding type of BPO services.

Explain Benefits and Limitations of BPO. Define Payroll. Define Quality Assurance. Working environment in BPO. Unit 3 Fundamentals of Learning		{20 Theory + 5 Practical=35 Periods} Period=45 minutes / 1 Practical= 3 periods
Theory		Practical
 Understanding concepts of learning, knowledge and skill. Introduction to learning concept of learning Importance of learning. Characteristics of learning. Different type of learning. Factors affecting learning. Introduction to sources of learning. Use of learning. Explain knowledge and skill Understanding the importance sources of learning. Difference between knowledge and skill. Types of knowledge. 	6	 Identify knowledge between learning, knowledge and skill List the characteristics of learning Identify Factors affecting learning Interpret the importance of English in communication Interpret the importance of learning. Identify the knowledge. Identify the skill. List the type of knowledge Interpreted the importance of sources of learning. Identify the difference between knowledge and skill.

Part A-90 Classes

Part B-90 Classes

Total= 180 Classes

Syllabus for IT/ITES

Class-12

Paper-IV

Part A

{2	Theory + 1 Practical=05 Periods}	}
1 Pe	riod=45 minutes / 1 Practical= 3 perio	ds
	Practical	
2	Creating Charts and Graphs: Use spreadsheet software like Microsoft Excel or Google Sheets to create different types of charts and graphs such as bar charts, line graphs, pie charts, and scatter plots.Data Visualization Tools: Explore data visualization tools like Tableau, Power BI, or Google Data Studio.	1
	Microsoft Office Suite (Word, Excel, PowerPoint), Microsoft Teams, Microsoft Azure, Power BI, Visual Studio, Microsoft SQL Server Microsoft Power Automate, Microsoft Dynamics 365 Microsoft Access Microsoft SharePoint	
	Anti -Virus Software Installation	
{6	Theory + 2 Practical=12 Periods	}
<u>1</u> Per	riod=45 minutes / 1 Practical= 3 period	ds
	Practical	
6	 Arrays Linked Lists Stacks Queues Trees 	2
	1 Pe	 Creating Charts and Graphs: Use spreadsheet software like Microsoft Excel or Google Sheets to create different types of charts and graphs such as bar charts, line graphs, pie charts, and scatter plots.Data Visualization Tools: Explore data visualization tools like Tableau, Power BI, or Google Data Studio. Microsoft Office Suite (Word, Excel, PowerPoint), Microsoft Teams, Microsoft Azure, Power BI, Visual Studio, Microsoft SQL Server Microsoft Dynamics 365 Microsoft Access Microsoft SharePoint Anti -Virus Software Installation Feriod=45 minutes / 1 Practical= 3 period Arrays Linked Lists Stacks Queues

Unit 3	{6	5 Theory + 4 Practical=18 Periods	;}
Trouble Shooting With DOS	1 Pe	eriod=45 minutes / 1 Practical= 3 perio	ods
Theory		Practical	
 Introduction to DOS Field of Application Structure information System environment The Command Prompt 	6	Basic DOS Commands	4
Unit 4	{7	Theory + 6 Practical=25 Periods	}
Database Management System	-	riod=45 minutes / 1 Practical= 3 perio	
Theory	110	Practical	45
 Data processing concept and file structure File utilities Data Models 	7	 Writing Basic SQL SELECT Statements Restricting and Sorting Data Single-Row Functions Creating and Managing Tables 	6
4. Query Language		C Theory I & Drastical 20 Deviada	<u>ן</u>
Unit 5	1	6 Theory + 8 Practical=30 Periods	}
Computer applications in business	1 P	eriod=45 minutes / 1 Practical= 3 peri	ods
Theory		Practical	
 Accounting Software Customer Relationship Management (CRM) Enterprise Resource Planning (ERP) Data Analytics and Business Intelligence (BI) Project Management Tools Document Management Systems (DMS) E-commerce Platforms Supply Chain Management (SCM) Communication Tools Cybersecurity Solutions 	6	 Make introduce to all type of applications like: Payroll Zoho Sap Google analytics Trello Google drive Woo commerce SAP SCM Zoom Firewalls 	8

Part B

Unit 1	{4 Theory + 4 Practical=16 Periods}		
C++ Programming	1 Period=45 minutes / 1 Practical= 3 periods		
Theory		Practical	
 Introduction to C++ Usage of C++ 	2	 Write a program in C++ to print welcome text on a separate line Write a program in C++ to print the sum of two numbers. Write a in C++ program to find the size of fundamental data types. Write a program in C++ to print the sum of two numbers using variables. 	1

Unit 2		{6 Theory + 6 Practical=24 Period	s}
<u>HTML</u>	1 F	Period=45 minutes / 1 Practical= 3 perio	ods
Theory		Practical	
 What is HTML Tags Attributes Structure Text Content Links and Images Comments 	6	 Write Some Programmes Using HTML like: Hello World Paragraph and Line Breaks Unordered List Ordered List Link Image etc 	
<u>Unit 3</u> <u>Programming with JAVA Script</u> Theory	1 Per	{7 Theory + 8 Practical=31 Periods riod=45 minutes / 1 Practical= 3 periods Practical	-
 Introduction to JAVA Script Client-side Scripting Syntax Variables and Data Types Functions DOM Manipulation Event Handling Asynchronous Programming Error Handling Browser Compatibility 	8	 Write Below Programs using JAVA Script Hello World Alert Variables and Output User Input and Output DOM Manipulation Event Handling 	5

Unit-4	{10 Theory + 3 Practical=19 Periods}	
Introduction to AI	1 Period=45 minutes / 1 Practical= 3 periods	
Theory		Practical
1. Introduction to AI	10	 Do multiple tasks like Letter Writing, Project Making, Making Spreadsheets etc using AI
2. Different Uses of Al		Making, Making Spreadsheets etc using Ai
3. Al in Business Organizations		

Part A-90 Classes

Part B-90 Classes

Total= 180 Classes

Reference Books for IT/ITes for Class XII

- 1. "Information Technology Class XII" by NCERT
- 2. Employability-skills-class-12 by NCERT
- 3. IT and ITes Skills" by CBSE
- 4. Data Structures and Algorithms Made Easy" by Narasimha Karumanchi.
- 5. "Fundamentals of Computers" by V. Rajaraman
- 6. "Introduction to Database Management" by Atul Kahate
- 7. Computer applications in business-by Himalaya Publication
- 8. "Object-Oriented Programming with C++" by E. Balagurusamy
- 9. "Web Designing and Development Using HTML5" by Satish Jain and M. Geetha Iyer
- 10. "JavaScript: The Ultimate Beginners Guide for Learning JavaScript Programming" by Abhinav Prakash