

Curriculum : C (10 weeks)						
Week	Day	Topic	Sub Topic	Type	Hours	
Week 1	1	Pre-Evaluation	Experience Collection & Demographics	Online	2	
		Pre-Evaluation	OOPS concepts Problem Solving skills Computer fundamentals	Online Assessment	2	
		Pre-Evaluation	English Algorithms	Online	4	
	2	IST	IST	Class Room Facilitation	8	
	3	IST	IST	Class Room Facilitation	8	
	4	Programming Fundamentals - Evaluation	Programming Basics Retrieving Data Basic Programming Statement	Sorting and Operators Iterative Statements	Online	4
	5	Programming Fundamentals - Evaluation	Arrays Programming Best Practices	Data Structures	Online	4
Week 2	6	Programming Fundamentals	Algorithm - Flow Chart & Pseudocode Discussion		Class Room Facilitation	2
			Algorithm - Flow Chart & Pseudocode Discussion		Class Room Facilitation	2
			Programming Basics with Sample Programs		Class Room Facilitation	2
	7	Programming Fundamentals	Arrays & Data Structures - Discussion on Use of arrays Different Types of data structures		Class Room Facilitation	2
			Arrays - Implementation		Class Room Facilitation	2
			Arrays - Implementation		Class Room Facilitation	2
	8	Programming Fundamentals	Video: So you want to be a software engineer 1) Ice-breaker - Introduction 2) Email writing - IST Learnings		Class Room Facilitation	2
			Video: C Programmer writng + Grammar exercise		1) Email Class Room Facilitation	2
			Sorting , Searching and Linked List Concepts - Discussion		Class Room Facilitation	2
	9	Programming Fundamentals	Sorting , Searching and Linked List Concepts - Discussion		Class Room Facilitation	2
			Sorting , Searching and Linked List Concepts - Implementation		Assessment	2
			Structures & Pointers - Discussion		Class Room Facilitation	2
	9	Business Communication	Video: Preparation is the Key to Success with Dr Susser PH.D 1) Email writing 2) Passage - Comprehension		Class Room Facilitation	2
PF Assessment 1,2 & 3- Algorithm , Sorting & Searching, Data type, Loops and Conditions			Assessment	2		
PF Assessment 4, 5 & 6 - Arrays & Pointers, Functions & Overall			Assessment	2		
		Business Communication	Video: 20 words that changed your life 1) Poetry "Promise Yourself" 2) Introduction to Communication 3) Why, what of communication	Class Room Facilitation	2	

	10	Database	Introduction to different ways of storing data - Advantages & Disadvantages	Class Room Facilitation	2
		Database	Understanding different types of databases Entity-Relationship Diagram	Class Room Facilitation	3
		Business Communication	Video: IT company - Campus 1) Talk on any topics by the interns 2) Generic Feedback on the topic, improvement areas	Class Room Facilitation	2
		Feedback	Program Fundamentals	Online	1
Week 3	11	Database	DDLs Create Assignment on DDL	Class Room Facilitation	2
		Database	DMLs INSERT UPDATE DELETE Assignment on DML	Class Room Facilitation	2
		Database	<b>DB Assessment 1-ER Diagrams</b>	Assessment	2
		Business Communication	Video: MSIT (Microsoft India Recruitment Team) 1) Channels of Communications	Class Room Facilitation	2
	12	Database	DRLs Select Assignment on DMLs	Class Room Facilitation	2
		Database	DMLs SELECT Group by Having Clause SELECT Order by Assignments on DML	Class Room Facilitation	2
		Database	<b>DB Assessment 2-Normalization</b>	Assessment	2
		Business Communication	1) Channels of communication - contd 2) Exercise : Email exercise on the channels of communication 3) Video : Channels of communication	Class Room Facilitation	2
		Database	DMLs Types of SUBQUERY Assignments on DML	Class Room Facilitation	2
	13	Database	Different types of JOIN UNION & UNION ALL Assignments on DML	Class Room Facilitation	2
		Database	<b>DB Assessment 3 , 4 , 5 - DML</b>	Assessment	2

		Business Communication	Video: IT companies Email feedback - generic (IST emails) 2) 4C's of communication Discussion on 3 situations around correct, clear, complete and climate (components of communication)	1) Class Room Facilitation	2
14		Database	Usage of IN, NOT IN & EXISTS, NOT EXISTS Assignments on DML	Discussion	2
		Database	Concept of INDEX Syntax of INDEX Assignment on DML	Assessment	2
		Database	<b>DB Assessment 6 , 7</b>	Class Room Facilitation	2
		Business Communication	Video: Dice TV_ Demystifying HR's Recruiting Process 1) 4C's of communication Discussion on 3 situations around correct, clear, complete and climate (components of communication) (Contd) 2) Email writing - Assignment (Leave application)	Class Room Facilitation	2
15		Business Communication	1) Importance of accurate information, spellings and grammar 2) Exercise - Creation of signature and catchy headlines presentation (Business news) 3) Video : Got a Job_ by The Miracles	Class Room Facilitation	2
		Ubuntu	Introduction to Ubuntu Environment	Class Room Facilitation	2
		Ubuntu	Basic Linux Commands	Class Room Facilitation	2
		Ubuntu	Use of Text editor in Linux	Class Room Facilitation	2
16		Business Communication	4 C's of Communication - Introduction to scenarios - Situation1, Situation2 and Situation 3	Class Room Facilitation	2
		Database	Database Triggers	Class Room Facilitation	4
			Assignment on triggers	Assignments	2
		Business Communication	Components of Communication - Correctness, Clarity, Completeness and Climate	Class Room Facilitation	2

Week 4	17	C Language	<p>Basics of C Programming</p> <ul style="list-style-type: none"> <li>- Form of C program</li> <li>- Type of files created (Source code, Object code, Executable code)</li> <li>- Role of compiler and linker</li> <li>- Memory map of C program (Code segment/Data segment)(DS,BSS,Stack,Heap, Environment variable and Command line argument)</li> <li>- C data types and sizes</li> <li>- Data type modifiers</li> <li>- C variables and scope of variables (global etc)</li> <li>- Storage class specifiers</li> <li>- Constants, Literal constants and back slash constants</li> </ul> <p>C operators:</p> <ul style="list-style-type: none"> <li>- operators, precedence and order of evaluation</li> </ul>	Class Room Facilitation	4
			Assignment on basic C programs	Assignments	2
		Business Communication	E-mail writing-Exercise and feedback	Class Room Facilitation	2
	18	C Language	<p>Usage of stdio and stdlib library</p> <p>Block/The Compound Statement</p> <p>The Expression and Empty Statement</p> <p>The if and the i f-else Statements</p> <p>The switch Statement</p> <p>The Conditional Operator</p> <p>The while Statement</p> <p>The do Statement</p> <p>The for Statement</p> <p>The Comma Operator</p> <p>The goto Statement</p> <p>The break and continue Statements</p>	Class Room Facilitation	4
			Assignments on conditional and loop statements	Assignments	2
	19	Business Communication	<p>Importance of accurate information, spellings and grammar</p> <p>Exercise - Creation of signature and catchy headlines presentation</p>	Class Room Facilitation	2
		C Language	<p>Arrays - Single and Multi dimensional array</p> <p>Relation between arrays and pointers</p>	Class Room Facilitation	4
			Assignments on arrays	Assignments	2
		Business Communication	<p>Presentation on catchy headlines</p> <p>Feedback to be given on presentation skills</p>	Class Room Facilitation	2

Week 5	20	C Language	<p>Pointer            Pointer Arithmetic - Single/Double Pointer,            Relation between arrays and pointers,            Dynamic memory allocation , alloc.h lib file functions,            creating dynamically single and multi-dim. Array</p>	Class Room Facilitation	4
			Assignments on pointers	Assignments	1
		Business Communication	<p>Email etiquette            Chunking Email etiquette</p>	Class Room Facilitation	2
	21	C Language	<p>Functions - Passing parameters, Passing array as function parameters,            Pointer to functions, function pointer as return value            Recursion (relevant to Functions)            C libraries:            Standard 'C' libraries - maths, file</p>	Class Room Facilitation	4
			Assignments on functions and recursions	Assignments	1
		Business Communication	Grammar -Article, Prepositions, Subject - Predicate, Singular - Plural, Tenses	Class Room Facilitation	2
	22	C Language	<p>String Manipulation -            Usage of string and ctype header library            C library functions</p>	Class Room Facilitation	4
			Assignments on strings	Assessment	1
		Business Communication	Grammar -Article, Prepositions, Subject - Predicate, Singular - Plural, Tenses	Class Room Facilitation	2
	23	C Language	<p>Structures and unions            Bit fields            Byte alignment, padding - equivalent concepts</p>	Class Room Facilitation	4
			Assignments	Class Room Facilitation	2
		Business Communication	<p>Critical thinking            Exercise on critical thinking</p>	Class Room Facilitation	2
	24	C Language	<p>File Management -            File Read/Write/Updated - Binary &amp; Text</p> <p>- Sub-topics to be covered            The Functions fprintf, fscanf, sprintf and sscanf            The Functions fopen and fclose            Sequential and Random access files            File Descriptor Input/Output            File Access Permissions</p>	Class Room Facilitation	4
			Assignments	Assignments	2
	Business Communication	<p>Structuring/ Ws and H, Comprehensiveness vs Detail, MECE, ETVX            Exercise on structuring to work on a topic - 1 slide presentation</p>	Class Room Facilitation	2	

Week 6	25	Data structures and algorithm	<p>Introduction to Data structures  What is Abstract Data Type?  Definition &amp; understanding of stack data structures  Array implementation of stack  Applications of stack  Defination &amp; understanding of queue data structure.  Array implementation of simple queue  Overview of Circular queue, Dequeue &amp; Priority queue</p>	Classroom facilitation	4
			Assessment on stack and queues	Assessment	2
		Business Communication	<p>Structuring presentation  Feedback on structuring</p>	Class Room Facilitation	2
	26	Data structures and algorithm	<p>Understanding of Linked list data structure.  Understanding Single linked list.  Implementing operations on Single linked list.  Applications of single linked list linked list</p> <p>Understanding Double linked list.  Implementing operations on Double linked list.  Applications of double linked list.</p>	Classroom facilitation	5
			Assignments	Assignment	1
		Business Communication	<p>Structuring presentation (Contd.)  Feedback on structuring</p>	Class Room Facilitation	2
	27	Data structures and algorithm	<p>Understanding Tree data structures.  Understanding Binary tree, Binary search tree &amp; Heap tree  Implementation operations on binary search tree.  Implementation of inorder, preorder and postorder tree traversal on binary search tree.</p>	Assignment	2
			Sorting and searching algorithms	Classroom facilitation	2
			Assignments	Assessment	2
		Business Communication	Conversational English - Unfamiliar scenarios	Class Room Facilitation	2
	28	C++	<p>Introduction to OOPS  Explaining the different concepts of OOPS</p> <p>Basic differences between C and C++  I/O statements  Polymorphism</p>	Classroom facilitation	2
			Assignments on cin, cout, new, delete, function overloading	Assignment	2
		Business Communication	<p>Tone and intonation  Choice of words  Assignment - Homophones</p>	Class Room Facilitation	2

	29	C++	Classes and objects Access specifiers Different ways of creating objects Friend members Static members	Classroom facilitation	4
			Assignments	Assignment	2
	30	Business Communication	Contextual E-mail exercise and feedback		2
		C++	Constructors and Destructors	Classroom facilitation	2
Operator overloading	Classroom facilitation		2		
			Assessment	Assessment	2
Week 7	31	Business Communication	Professionalism - Familiar world Assignment - Professional attributes of Narayan Murthy or Steve Jobs	Class Room Facilitation	2
		C++	Inheritance	Classroom facilitation	4
	Assignments		Assessment	2	
	32	Business Communication	Professionalism - Unfamiliar world + Scenarios	Class Room Facilitation	2
		C++	Runtime polymorphism Dynamic creation of Object Pointer to base and derived object concepts Virtual functions abstract classes	Classroom facilitation	4
			Assignments	Assessment	2
	33	Business Communication	Impression management - Part 1	Class Room Facilitation	2
		C++ Advance	Templates Template functions and Function templates Template classes	Classroom facilitation	4
			Assignments	Assignment	2
	34	Business Communication	Impression management - Part 2 Dressing etiquette	Class Room Facilitation	2
		C++ Advance	Namespaces Exceptions	Classroom facilitation	4
			Assignments	Assignment	2
	35	Business Communication	Communicating Up - Structured conversation (Ws & H, Comprehensive vs Detail)	Class Room Facilitation	2
		C++ Advance	File and IO streams Castings	Classroom facilitation	4
Assignment			Assignment	2	
36	Business Communication	Reading as a thinking tool - Jonathan Livingston Seagull Comprehension on the passage	Class Room Facilitation	2	
	Software engineering	Testing Testing Techniques Phases of Testing  SDLC	Classroom facilitation	4	

Week 8			Assignment	Assignment	2	
	37	Business Communication	Listening Skills Email exercise on the attributes of LISTEN	Class Room Facilitation	2	
		Process	Understand & appreciate Service Requirements Create SRS	Classroom facilitation Assignment	4 2	
	38	Business Communication	Telephone etiquette - Role play Email exercise - Appointment for conference call	Class Room Facilitation	2	
		Process	Level 2 Maintenance & Support Services (Application Landscape) Monitoring application	Classroom facilitation Assignment	4 2	
	39	Business Communication	Probing technique Attention to detail	Class Room Facilitation	2	
		Process	Appreciation of Service Management Monitoring application	Classroom facilitation Assignment	4 2	
	40	Business Communication	Cultural sensitivity Exercise on Culture presentation - Part 1	Class Room Facilitation	2	
		Process	Appreciation of Service Performance Indicators Monitoring application	Classroom facilitation Assignment	4 2	
	Week 9	41	Business Communication	Culture presentation - Part 1 (Contd.) Exercise on Cultural Presentation - Part 2 Presentation skills	Class Room Facilitation	2
			Process	Overall Process understanding Process	Classroom facilitation Assessment	4 2
		42	Business Communication	Team work - 5 stages Team building activity Video : Chak de	Class Room Facilitation	2
Process			Journey through the GDM Monitoring application	Classroom facilitation Assignment	4 2	
43		Business Communication	Culture presentation - Part 2 Overall feedback on Presentation skills	Class Room Facilitation	2	
		Process	L2 Steady State (Working with Code Base, Incidents) Monitoring application	Classroom facilitation Assignment	4 2	
44		Business Communication	Interpersonal skills Assignment on building relations with 2 / 3 strangers	Class Room Facilitation	2	
		Process	Change Management Monitoring application	Classroom facilitation Assignment	4 2	
45		Business Communication	Building relationship - Small talk Relationship wheel + Scenarios	Class Room Facilitation	2	
		Process	Release Management Monitoring application	Classroom facilitation Assignment	4 2	
46		Business Communication	Customer service - Topics to be shared for presentation Exercise on creating PPTs	Class Room Facilitation	2	
		Programming Fundamentals	Overall Revision	Classroom facilitation	6	



Week 10		Programming Fundamentals	Overall Revision	Classroom facilitation	0
	47	Business Communication	Customer service - Presentation - Part 1 Use of Structuring template Exercise on presentation - Part 2	Class Room Facilitation	2
		Database	Overall Revision	Classroom facilitation	6
		OOPS	Overall Revision	Classroom facilitation	
	48	Business Communication	Customer service - Presentation - Part 2	Class Room Facilitation	2
		C / C++	Overall Revision	Classroom facilitation	6
			Overall Revision	Classroom facilitation	
	49	Business Communication	Flexibility + Attitude Ethics & Values	Class Room Facilitation	2
		C / C++	Overall Assessment	Class Room Facilitation	4
			Overall Assessment	Assessment	2
	50	Business Communication	Contextual emails Conversational English Overall feedback	Class Room Facilitation	2
		Process	Overall Revision	Class Room Facilitation	4
			Overall Assessment	Assessment	2