

DCA (1st Sem) Schedule for Personal Contact Program (Regular Mode) Venue: IKGPTU Main Campus Kapurthala						
Time	9.00AM-10.00 AM	10.00 AM-11.00 AM	11.00 AM- 12.00 PM	12.00 PM-1.00 PM	2.00 PM-3.00 PM	3:00 PM- 4:00 PM
Date	Information Technology	Database Management Systems	Programming in C	Communication-I	Software Lab-I (Programming in C) Software Lab-II (Information Technology)	Human Values and Professional Ethics
11-Mar-20	Computer Fundamentals: Block structure of a computer, characteristics of computers, problem solving with computers, generations of computers, and classification of computers on the basis of capacity, purpose, and generation.	An overview of DBMS: Concept of File Processing Systems and database systems, Database Administrator and his responsibilities. Physical and Logical data independence.	Algorithm and Programming Development: Steps in development of a program, Flow charts, Algorithm Development, Program Debugging, Compilation and Execution. Fundamentals of „C“: I/O statements, Assignment Statements, Constants, Variables, Operators and Expressions, Standards and Formatted statements, Keywords, Data Types and Identifiers.	English Language: Sentence, Parts of speech, Tenses, Active passive voice, Direct Indirect speech, Creative writing& vocabulary...	Hardware Lab and Programming in C Lab -1	Course Introduction–Need,BasicGuidelines,Content and Process for Value Education
12-Mar-20	Number System: Bit, byte, binary, decimal, hexadecimal, and octal systems, conversion from one system to the other, representation of characters, integers and fractions. Binary Arithmetic: Addition, subtraction and multiplication.	Three level Architecture of Database System: the external level, conceptual level and the internal level.	Control Structures: Introduction, Decision making with if – statement, if-else and Nested if, while and do while, for loop.	Comprehension passage, Reading of biographies of at least 10 IT business personalities (can be a home assignment or classroom reading).	Software Lab and Programming in C Lab -1	SelfExploration–whatisit?- itscontentandprocess;NaturalAcceptance” andExperientialValidation- asthemechanism for selfexploration.
13-Mar-20	Memory Types: Magnetic core, RAM, ROM, Secondary, Cache, Bubble Memory. Input and Output Units: Keyboard, Mouse, Monitor (CRT and LCD): Light pen, joystick, Mouse, Touch screen; OCR, OMR, MICR Overview of storage devices: Floppy disk, hard disk, compact disk, tape. Printers: Impact, non-impact, working mechanism of Drum printer, Dot Matrix printer, Inkjet printer and Laser printer.	Introduction to Data Models: Entity Relationship Model, Hierarchical, Network and Relational Model. Comparison of Network, Hierarchical and Relational Model.	Jump statements: break, continue, goto, switch Statement	Business communication- Types, Medias, Objectives, Modals, Process,	Programming in C Lab -3	Continuous Happiness and Prosperity- A look at basic Human Aspirations. Right understanding, Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority Understanding Happiness and Prosperity correctly-Acritical appraisal of the current scenario Method to fulfill the above human aspirations:understanding and living in harmony at various levels.
16-Mar-20	Computer languages: Machine language, assembly language, higher level language, 4GL. Introduction to Compiler, Interpreter, Assembler, Assembling, System Software, Application Software	Relational data Model: Relational database, relational algebra and calculus, SQL dependencies, functional dependency, multi-valued dependency	Functions: Introduction to Functions, Function Declaration, Function Categories, Standard Functions, Parameters and Parameter Passing,	Importance Understanding Barriers to communication & ways to handle and improve barriers.	Cloud Coputing Lab and Programming in C Lab -4	Understanding Harmonyin theHumanBeing–Harmonyin Myself!
17-Mar-20	Operating system: Batch, multi-programming, time sharing, network operating system, on-line and real time operating system, Distributed operating system, multi-processor, Multi-tasking. Graphical OS: Fundamentals of windows, types of windows, anatomy of windows, windows explorer, customizing windows, control panel, taskbar setting, Network Neighborhood.	SQL Joins	Call – by value/reference, Recursion, Global and Local Variables, Storage classes.	Presentation skills-Its Purpose in business world, How to find material for presentation, How to sequence the speech with proper introduction and conclusion,	Operating System and IOT Lab and Programming in C Lab -5	Programs to ensure Sanyam and Swasthya
18-Mar-20	Personal Productivity Software: Word processing: Editing features, formatting features, saving, printing, table handling, page settings, spell-checking, macros, mail-merge, equation editors.	SQL Joins	Arrays: Introduction to Arrays, Array Declaration,	How to Prepare PPT & Complete set of required body language while delivering presentation.	Word Processing Lab and Programming in C Lab -6	UnderstandingHarmonyintheFamilyandSociety- HarmonyinHumanHumanRelationship
19-Mar-20	Spreadsheet : Workbook, worksheets, data types, operators, cell formats, freeze panes, editing features, formatting features, creating formulas, using formulas, cell references, replication, sorting, filtering, functions, Charts & Grapbs.	normalization.	Single and Multidimensional Array, Memory Representation, Matrices, Strings, String handling functions.	Reading & writing skills- Importance of reading and writing, improving writing skills through understanding and practicing Notice,	Excel Lab and Programming in C Lab -6	UnderstandingHarmonyintheFamilyandSociety- HarmonyinHumanHumanRelationship

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20-Mar-20	Presentation Graphics Software: Templates, views, formatting slide, slides with graphs, animation, using special features, presenting slide shows.	Database protection: Recovery, ConcurrencyManagement, Database Security, Integrity and Control, Disaster Management	Structure and Union: Declaration of structure, Accessing structure members, Structure Initialization, Arrays of structure, nested structures, Unions	E-mail, Tenders, Advertisement, formal letter.	Infographics Designing Lab and Programming in C Lab -7	UnderstandingHarmonyintheNatureandExistence-Wh oleexistenceas Co-existence
23-Mar-20	Computer Network and Communication: Network types, network topologies, network communication devices, physical communication media.	Distributed databases: Structure of a distributed database,	Pointers: Introduction to Pointers, Address operator and pointers, Declaring and Initializing pointers, Assignment through pointers, Pointers and Arrays	Listening skills-Its importance as individual and as a leader or as a worker, Its types, barriers to listening & remedies to improve listening barriers.	IOT and Programming in C Lab -8	UnderstandingHarmonyintheNatureandExistence-Wh oleexistenceas Co-existence
24-Mar-20	Internet and its Applications: E-mail, TELNET, FTP, World Wide Web, Internet chatting; Intranet, Extranet, Gopher, Mosaic, WAIS.Security management tools: PC tools, Norton Utilities, Virus, worms, threats, virus detection, prevention and cure utilities, Firewalls, Proxy servers.	Design of Distributed Databases	Preprocessor Directives: Introduction and Use, Macros, Conditional Preprocessors, Header Files. Files: Introduction, Creating a data file, opening and closing a data file, processing a data file.	Non verbal Communication- understanding what is called non verbal communication, its importance as an individual, as a student, as a worker and as a leader, its types.	HTML Lab, and Programming in C Lab -9	Implications of the above Holistic Understanding of Harmony on ProfessionalEthics