# Govt. College, Ropar 

## Computer Department (HEIS)

Class B.C.A Sem. 1
(Session 2021-2022).


Department of Computer Science (IIEIS), Covermment College. Ropar
$(2021-22)$
Clas RCI.Scm. IST Subject Fundamental of Information Technology


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Principal

Claws BCI Sem. 1" Subject Programming in C- Language

| Time Period | Topics to be Covered |
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| Week 1 | Programming Process: Problem definition, Algorithm development, Flowchart, Coding, <br> Compilation and debugging. |
| Week 2 | Basic structure of C program: History of C, Structure of a C program, Character set, Identifiers <br> and keywords, constants, variables, data types. |
| Week 3 | Control statements: branching statements (if, if else, switch), loop statements (for, while and <br> do-while), jump statements (break, continue, goto), nested control structures. |
| Week 4 | Functions: Library functions and user defined functions, prototype, definition and call, formal <br> and actual arguments, local and global variables, methods of parameter passing to functions, <br> recursion. <br> I/O functions: formatted \& unformatted console I/O functions |
| Week 5 | Storage Classes: automatic, external, static and register variables. <br> Week 6 |
| Week 7 | Decays: - One dimensional and two dimensional arrays <br> input/output of strings, string handling functions (strlen, strcpy, strcmp, strcat \& strrev), table <br> of strings. |
| Week 8 | MST (Mid-Semester Test) |
| Week 9 | MST (Mid-Semester Test) |
| Week 10 | Structures and unions: using structures and unions, comparison of structure with arrays and <br> union. |
| Week 11 | Pointers: pointer data type, pointer declaration, initialization, accessing values using pointers, |
| Week 12 | pointers and arrays. |
| Week 13 | revision |
| Week 14 | Introduction to Files in C: opening and closing files. |
| Week 15 | Basic I/O operation on files. |
| Week 16 | Queries from students |




HOD's Signature

## - Department of Computer Science (IIEIS), Government College. Ropar

(21)21-22)

Class : BCA Sem. $2^{\text {mid }}$ Subject :- Data Structure

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## Govt. College, Ropar

 Computer Department (HEIS)Class B.C.A Sem. II
(Session 2021-2022)

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