SANATAN DHARMA COLLEGE, AMBALA CANTT

College with Potential for Excellence, UGC,New Delhi
NAAC Accredited Grade "A+" with CGPA 3.51 in 3rd cycle
ISO 9001:2015 & ISO 14001:2015 Certified

Department of Computer Science

Lesson Plan (Session 2022-2023)

Class: B.Com OMSP **Sem: I** **Course Code:** BC(Voc)-106 **Nomenclature: INTRODUCTION TO COMPUTER APPLICATIONS**

Duration: 16 Weeks **Dates: 5 Sep,2022- 25 Dec, 2022**

SYLLABUS

BC(Voc)-106
INTRODUCTION TO COMPUTER APPLICATIONS

External Marks: 80
Internal Marks: 20
Time: 3 Hours

Note: Paper setter will set nine questions in all. Question No. 1 comprising of five short types questions carrying four (4) marks each is compulsory. It covers the entire syllabus. Answer to each question should not be more than one page. Candidate is required to attempt four questions from the remaining eight questions carrying 15 marks each.

Introduction to computers: definition, components and characteristics of computers; input and output devices; introduction to modern CPU and processor.
Computer software: introduction; types of software - system, application and utility software; programming languages, introduction to operating system: types and functions of operating system, real time applications, operating systems for tabs, mobile phones, android, etc.; open source software: definition, history, principles, success and methodologies.
Introduction to google applications, spreadsheets, word processors, database management software; networks basic, types of networks, topologies, media, hardware and software required for networking; introduction of LAN (Local Area Network) and WAN (Wide Area Network).

Concept and evolution of internet: World Wide Web; multimedia technologies; video conferencing; broadband networks; introduction to html, http, shttp, etc.; internet services – search engines, social networking, email, etc.

REFERENCES

- Leon, Alexis: Fundamental of Information Technology, Vikas Publication House (P) Ltd., New Delhi.
- Mansfield, Ron: The Compact Guide to Microsoft Office, BPB Publication, Delhi.
- Minoli, Daniel, Internet and Intranet Engineering, Tata McGraw-Hill Publishing Co Ltd., New Delhi.
- Saxena, Sanjay: A First Course in Computer, Vikas Publication House (P) Ltd., New Delhi.

Course Outcomes

After the completion of this course, prospective Computer professionals will have the ability to

CO No.	Course Outcome
1.	Understand about the Computers and its components.
2.	Understand about the various computer software's and the operating system
3.	Analyse about the various google applications, database management system
4.	Practically apply various multimedia technologies and use of internet services

S.No	Instructional Technique	Assessment Methods (AM)
1	Chalk & Talk	**Assignments**
2	ICT tools	**Quiz**
3	Group discussions	**Group Discussions**
4	Industrial visit	**Oral Tests**
5	Case studies	**Sessional**
6	Small Projects	**Presentations**
7	Workshop	**Seminar**
8	Spoken Tutorials	**University Exams**
9	Flipped Class	
10.	**E-Resources**	

Detailed Lesson Plan Sec-A

Week	Date	Topic to be Covered	Instructional Technique	Assessment Method
1	8- Sep-22	Introduction to computers: definition	**2-(PPT/Projector)**	**----**
	9- Sep-22	components and characteristics of computers	**2(PPT/Projector)**	**1**
	10-Sep-22	input devices	**1**	**1**
2	15-Sep-22	input and output devices	**1**	**1,2,3,4**
	16-Sep-22	introduction to modern CPU and processor	**2-(PPT/Projector)**	**1,2,3,4**
	17-Sep-22	Modern CPU and processor	**2-(PPT/Projector)**	**1,2,3,4**
3	22-Sep-22	Computer software: introduction	**2-(PPT/Projector)**	**1,2,3,4**
	23-Sep-22	Holiday	**1**	**1,2,3,4**
	24-Sep-22	types of software - system, application and utility software	**2-(PPT/Projector)**	**1,2,3,4**
4	29-Sept-22	types of software - system, application and utility software	**--**	**---**
	30-Sept-22	programming languages	**2-(PPT/Projector)**	**1,2,3,4**
	1-Oct-22	introduction to operating system	**2-(PPT/Projector)**	**1,2,3,4**
5	6-Oct-22	**Assignment -1**	**9**	**1,2,3,4**
	7-Oct-22	types and functions of operating system	**2-(PPT/Projector)**	**1,2,3,4**
	8-Oct-22	types and functions of operating system	**2-(PPT/Projector)**	**1,2,3,4**
6	13-Oct-22	Holiday	**---**	
	14-Oct-22	real time applications	**9**	**1,2,3,4,6**
	15-Oct-22	operating systems for tabs	**8,10,2**	**1,2,3,4,**
7	20-Oct-22	operating systems for mobile phones	**8,10,2**	**1,2,3,4,**
	21-Oct-22	operating systems android	**6**	**1,2,3,4**
	22-Oct-22 to 26-Oct-22	Diwali Vacation		
8	27-Oct-22	open source software: definition	**2-(PPT/Projector)**	**1,2,3,4**
	28-Oct-22	open source software: history, principles		
	29-Oct-22	open source software: success and methodologies.	**2-(PPT/Projector)**	**1,2,3,4**
9	3-Nov-22	Introduction to google applications, spreadsheets	**2-(PPT/Projector)**	**1,2,3,4**
	4-Nov-22	word processors		
	5-Nov-22	database management software	**2-(PPT/Projector)**	**1,2,3,4**
10	10-Nov-22	**Assignment-2**	**2-(PPT/Projector)**	**1,2,3,4**
	11-Nov-22	networks basic, types of networks, topologies, media	**6**	**1,2,3,4**
	12-Nov-22	hardware and software required for networking	**6**	**1,2,3,4**

11	17-Nov-22	introduction of LAN (Local Area Network) and WAN (Wide Area Network).	**--**	**5**
	18-Nov-22	**Revision**	**2-(PPT/Projector)**	**1,2,3,4**
	19-Nov-22	**Sessional**	**2-(PPT/Projector)**	**1,2,3,4**
12	24-Nov-22	Concept and evolution of internet	**6**	**1,2,3,4**
	25-Nov-22	World Wide Web	**2-(PPT/Projector)**	**1,2,3,4**
	26-Nov-22	multimedia technologies	**6**	**1,2,3,4**
13	1-Dec-22	video conferencing	**2-(PPT/Projector)**	**1,2,3,4**
	2-Dec-22	broadband networks	**9,10**	**1,2,3,4**
	3-Dec-22	introduction to html, http, shttp	**9,10**	**1,2,3,4**
14	8-Dec-22	Revision	**2-(PPT/Projector)**	**1,2,3,4**
	9-Dec-22	Revision	**2-(PPT/Projector)**	**1,2,3,4**
	10-Dec-22	Class Test	**6**	**1,2,3,4**
15	15-Dec-22	internet services – search engines	**6**	**1,2,3,4**
	16-Dec-22	Various search engines	**2-(PPT/Projector)**	**1,2,3,4**
	17-Dec-22	internet services – social networking, email	**6**	**1,2,3,4**
16	22-Dec-22	Revision	**--**	**--**
	23-Dec-22	Revision	**--**	**--**
	24-Dec-22	Revision		

Detailed Lesson Plan Sec B

Week	Date	Topic to be Covered	Instructional Technique	Assessment Method
1	8- Sep-22	Explain Course Outcomes	**2-(PPT/Projector)**	----
	9- Sep-22	Overview of C: History of C, Importance of C	**2(PPT/Projector)**	**1**
	10-Sep-22	Algorithm Development	**1**	**1**
2	15-Sep-22	C character Set, identifiers and keywords	**1**	**1,2,3,4**
	16-Sep-22	Data types,	**2-(PPT/Projector)**	**1,2,3,4**
	17-Sep-22	Data Types	**2-(PPT/Projector)**	**1,2,3,4**
3	22-Sep-22	Data Types	**2-(PPT/Projector)**	**1,2,3,4**
	23-Sep-22	Constants and Variables	1	1,2,3,4
	24-Sep-22	Formatted Input Function Scanf	2-(PPT/Projector)	1,2,3,4
4	29-Sept-22	Holiday		
	30-Sept-22	Unformatted Input Function getch(), getche(), getchar(), gets()	2-(PPT/Projector)	1,2,3,4
	01-OCT-22	Formatted Output function printf()	2-(PPT/Projector)	1,2,3,4
5	6-Oct-22	Output functions (printf(), putch(), putchar(), puts()).	9	1,2,3,4
	7-Oct-22	Operators & Expression: Arithmetic, relational, logical, Assignment-1 for CIE	2-(PPT/Projector)	1,2,3,4
	8-Oct-22	Operators & Expression: bitwise, unary, assignment	2-(PPT/Projector)	1,2,3,4
6	13-Oct-22	Holiday		
	14-Oct-22	Syllabus covered till date	---	6
	15-Oct-22	Conditional operators and special operators.	9	1,2,3,4,6
7	20-Oct-22	Arithmetic expressions, evaluation of arithmetic expression,	8,10,2	1,2,3,4,
	21-Oct-22	type casting and conversion,	8,10,2	1,2,3,4,
	22-Oct-22 to 26-Oct-22	Diwali Vaccation		
8	27-Oct-22	type casting and conversion,	6	1,2,3,4
	28-Oct-22	operator hierarchy & associativity.	6	1,2,3,4
	29-Oct-22	Decision making with IF statement, IF-ELSE	2-(PPT/Projector)	1,2,3,4

		statement, .		
9	3-Nov-22	Nested IF statement, ELSE-IF ladder,	2-(PPT/Projector)	1,2,3,4
	4-Nov-22	Holiday		
	5-Nov-22	switch statement, goto statement Assignment-2 for CIE	2-(PPT/Projector)	1,2,3,4
10	10-Nov-22	For, while, and do-while loop	2-(PPT/Projector)	1,2,3,4
	11-Nov-22	Holiday		
	12-Nov-22	jumps in loops, break, continue statement	2-(PPT/Projector)	1,2,3,4
11	17-Nov-22	For, while, and do-while loop	6	1,2,3,4
	18-Nov-22	For, while, and do-while loop	6	1,2,3,4
	19-Nov-22	Sessional for CIE	--	5
12	24-Nov-22	Functions: Definition, prototype, calling	2-(PPT/Projector)	1,2,3,4
	25-Nov-22	Functions: Definition, prototype, calling	2-(PPT/Projector)	1,2,3,4
	26-Nov-22	Functions: Definition, prototype, calling	6	1,2,3,4
13	1-Dec-22	passing parameters,	2-(PPT/Projector)	1,2,3,4
	2-Dec-22	passing parameters,	6	1,2,3,4
	3-Dec-22	Recursion.	2-(PPT/Projector)	1,2,3,4
14	8-Dec-22	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.	9,10	1,2,3,4
	9-Dec-22	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.	9,10	1,2,3,4
	10-Dec-22	Arrays: Definition, types, initialization,	2-(PPT/Projector)	1,2,3,4
15	15-Dec-22	processing an array,	2-(PPT/Projector)	1,2,3,4
	16-Dec-22	processing an array,	6	1,2,3,4
	17-Dec-22	processing an array,	6	1,2,3,4

16	22-Dec-22	passing arrays to functions, Strings & arrays.	2-(PPT/Projector)	1,2,3,4
	23-Dec-22	passing arrays to functions, Strings & arrays.	6	1,2,3,4
	24-Dec-22	Problem Solving Session Revision	--	--

	Teacher Incharge	Head of the Department
Name	Amandeep Kaur	Dr. Girdhar Gopal
Sign with Date		