

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(CAV)

Sem: IV

Course Code: 406

Nomenclature: ADVANCED COMPUTER APPLICATIONS

Dates: 1 Feb, 2023- 17 May, 2023

SYLLABUS

BC-VOC- ADVANCED COMPUTER APPLICATIONS

Maximum Marks: 100

External: 80

Minimum Pass Marks: 35

Internal: 20

Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. Student will be required to attempt FIVE questions in all. Question Number 1 will be compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each Unit.

Networking: fundamentals, LAN/MAN/WAN, topologies, transmission media, ISDN, B-ISDN, protocols-TCP/IP, OSI, ATM, internet services; hardware and software requirements for internet; browsers- internet explorer, mozilla firefox, opera, google chrome; search engines; webpage.

Information technology application in business, E-business, net banking; online purchasing and selling; online banking, electronic payment systems- an overview.

E-governance- concept and examples. digitalization of services – income tax, digital lockers, etc. E-disha, etc., linking AADHAR to service – issues and impact.

Social and ethical aspects of IT. Cyber Laws – IT Act 2000, impact of IT on other laws concerning business; cyber security – threats, anti-virus software, firewalls, etc.

Practical: The students will be able to use the e-governance services – digital locker, file income tax return, file various applications such as passport, access bank accounts, etc.

REFERENCES

- Forouzan, Data Communication & Networking, TMH.
- A.S., Tanenbaum, Computer Networks, 3/e Peterson Education.
- Prabhu, E-Governance, Prentice Hall of India.
- Pavan Duggal, Cyber Law, Universal Law Publishing.

Course Outcomes

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

CO No.	Course Outcome
1.	The students will be able to use the e-governance services – digital locker, filing income tax return, filing various applications such as passport, accessing bankaccounts,etc.
2.	Enable students learn the Social and ethical aspects of IT. Cyber Laws – IT Act2000,impact of IT on other laws concerning business; cyber security – threats, anti-virus software, firewalls, etc.
3.	Student will learn digitalization of services, linking AADHAR to service – issues and impact.

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	

Date	Topics to be Covered	Instructional Technique	Assessment Method
01.02.2023	Networking fundamentals	1	1,2,3,4
05.02.2023	SUNDAY		
06.02.2023	Networking fundamentals	1	1
07.02.2023	LAN/MAN/WAN	1	1,2,3,4
08.02.2023	Networking topologies	2-(PPT/Projector)	1,2,3,4
12.02.2023	SUNDAY		
13.02.2023	Transmission media	2-(PPT/Projector)	1,2,3,4
14.02.2023	ISDN	1	1,2,3,4
15.02.2023	B-ISDN	2-(PPT/Projector)	1,2,3,4
19.02.2023	SUNDAY		

20.02.2023	protocols- TCP/IP	2-(PPT/Projector)	1,2,3,4
21.02.2023	OSI	2-(PPT/Projector)	1,2,3,4
22.02.2023	Difference between OSI and TCP/IP	2-(PPT/Projector)	1,2,3,4
26.02.2023	SUNDAY		
27.02.2023	ATM	1	1,2,3,4
28.02.2023	internet services	2-(PPT/Projector)	1,2,3,4
01.03.2023	hardware and software requirements for internet;	9	1,2,3,4,6
05.03.2023	SUNDAY		
06.03.2023	HOLI VACATIONS		
07.03.2023			
08.03.2023			
09.03.2023			
10.03.2023			
11.03.2023			
12.03.2023	SUNDAY		
13.03.2023	browsers- internet explorer	1	1,2,3,4
14.03.2023	browsers- mozillafirefox, opera, google chrome	2-(PPT/Projector)	1,2,3,4
15.03.2023	search engines	2-(PPT/Projector)	1,2,3,4
19.03.2023	SUNDAY		
20.03.2023	Webpage	2-(PPT/Projector)	1,2,3,4
21.03.2023	Information technology application in business	6	1,2,3,4
22.03.2023	E-business		4
26.03.2023	SUNDAY		
27.03.2023	net banking	2-(PPT/Projector)	1,2,3,4
28.03.2023	online purchasing and selling	1	1,2,3,4
29.03.2023	online banking	2-(PPT/Projector)	1,2,3,4
02.04.2023	SUNDAY		
03.04.2023	Assignment		
04.04.2023	HOLIDAY		
05.04.2023	electronic payment systems	9,10	1,2,3,4

09.04.2023	SUNDAY		
10.04.2023	E-governance- concept and examples	1	1,2,3,4
11.04.2023	digitalization of services – income tax, digital lockers	1	1,2,3,4
12.04.2023	E-disha	1	1,2,3,4
16.04.2023	SUNDAY		
17.04.2023	linking AADHAR to service – issues and impact	1	1,2,3,4
18.04.2023	Social and ethical aspects of IT	2-(PPT/Projector)	1,2,3,4
19.04.2023	Cyber Laws – IT Act 2000	1	1,2,3,4
23.04.2023	SUNDAY		1,2,3,4
24.04.2023	Assignment 2	2-(PPT/Projector)	1,2,3,4
25.04.2023	impact of IT on other laws concerning business	6	1,2,3,4
26.04.2023	Revision	2-(PPT/Projector)	1,2,3,4
30.04.2023	SUNDAY		
01.05.2023	cyber security, Threats	2-(PPT/Projector)	1,2,3,4
02.05.2023	Class test	2-(PPT/Projector)	1,2,3,4
03.05.2023	anti-virus software	1	1,2,3,4
07.05.2023	SUNDAY		
08.05.2023	, firewalls	1	1,2,3,4
09.05.2023	Revision	1	1,2,3,4
10.05.2023	Revision		4
14.05.2023	SUNDAY		
15.05.2023	Revision of Previous Years Question Papers		4
16.05.2023	Revision of Previous Years Question Papers		4
17.05.2023	Revision of Previous Years Question Papers		4

Teacher Incharge

Head of the Department

Name	Arti Sachdeva	Dr. Girdhar Gopal
Sign with Date		