



Indraprastha College for Women

University of Delhi

Course Name:	B.A. (P)
Paper Title:	Software Tools and Techniques
Unique Paper Code:	234167680001
Semester:	VIIth
Faculty(s):	Dr. Nisha
Year:	2026-2027

Work Plan			
Period	Unit No.	Learning Objective	Topics to be Covered
28 th July -31 st July	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Advanced Tools and Applications: Version Control (Git)
1 st Aug -3 rd Aug	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Advanced Tools and Applications: Version Control (Git)
5 th Aug-10 th Aug	2	Introduction Basics of Client Server applications Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Advanced Tools and Applications: Version Control (Git)
12 th Aug-17 th Aug	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Advanced Tools and Applications: Version Control (Git)
19 th Aug-24 th Aug	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Markdown language, Backup strategies:
26 th Aug-31 st Aug	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Markdown language, Backup strategies:
2 nd Sep-7 th Sep	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	full, incremental, and differential

9 th Sep-14 th Sep	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	full, incremental, and differential
16 th Sep-21 st Sep	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	full, incremental, and differential
23 rd Sep-28 th Sep	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Vagrant and VMs, Docker and Containerization
30 th Sep-5 th Oct	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Vagrant and VMs, Docker and Containerization
7 th Oct-12 th Oct	2	Use Git for version control, including branching, merging, and resolving conflicts in collaborative software development	Vagrant and VMs, Docker and Containerization
14 th Oct-19 th Oct	2		Cloud Providers Overview
21 st Oct-26 th Oct	2		Cloud Providers Overview
4 th Nov-9 th Nov	2		manage public and private clouds using OpenStack
11 th Nov-16 th Nov	2		manage public and private clouds using OpenStack
17 th Nov-20 th Nov	2		manage public and private clouds using OpenStack

Unit	TOPICS
II	Advanced Tools and Applications: Version Control (Git), Markdown language, Backup strategies: full, incremental, and differential, Vagrant and VMs, Docker and Containerization, Cloud Providers Overview, manage public and private clouds using OpenStack.
S. No.	Name of Authors/Books/Publishers

1.	Newham C., Learning the bash shell: Unix shell programming. O'Reilly Media, Inc., 2005
2.	Shotts W. The Linux command line: a complete introduction. No Starch Press. 2019.
3.	https://git-scm.com/book/en/v2 https://www.techtarget.com/searchdatabackup/feature/Full-incremental-or-differentialHow-to-choose-the-correct-backup-type https://developer.hashicorp.com/vagrant/docs https://docs.docker.com/get-started/ https://docs.openstack.org/2025.1/

Paper Components			
Credits	Lecture (L)	Tutorial (T)	Practical (P)
2	0	0	2
Assessment Scheme			
S.No.	Component	Marking Scheme	Total Marks
1	Internal Assessment - Assignment/Quiz/Project/Presentation - Class Test - Attendance		
2.	Continuous Assessment (Tutorial) - Activity 1 + Activity 2 - Activity 3 + Activity 4 - Attendance		80
		40	
		40	
3.	Practical - Continuous Assessment - End Term Written/Practical Exam - Viva		
4.	End Semester Examination		