

System and Network Administration-Lab					
Credit Hours:	1	Course Code:	INFT-3109	Prerequisites:	None
Lab Contents:					
Linux commands, Directory and File management commands, Simulator/Emulator installation and configuration, IP addressing, Subnetting and Sub masking, Local Area Network Configuration with Packet Tracer, Remote Configuration, Linux Server Installation, Managing Network Services and Network Monitoring Tools, Configuring Servers (FTP, NFS, Samba, DHCP, DNS, Apache), Windows Server Installation and Configuration, Server and workstation deployment and maintenance, Hands-on with cloud virtual servers, Docker container deployment and management, Scripting labs for automation, Network security exercises related to ACLs and firewall basics.					
Teaching Methodology:					
Lectures, Written Assignments, Practical labs, Semester Project, Presentations.					
Course Assessment:					
Mid Term Exams, Final Term Exams, Assignments, Quizzes, Project, Presentations, Practical Exam					
Reference Material:					
1. Cloud Computing: A Hands-On Approach by Arshdeep Bahga and Vijay Madisetti, Year 2014, ISBN-13: 978-0996025508 2. Mastering Cloud Computing: Foundations and Applications Programming by Rajkumar Buyya, Christian Vecchiola, and S. Thamarai Selvi, 1st Edition, Year 2013, ISBN-13: 978-0124095397 3. Cloud Computing: Principles and Paradigms by Rajkumar Buyya, James Broberg, and Andrzej M. Goscinski, 1st Edition, Year 2011, ISBN-13: 978-1118124536 4. Computing, Communication and Learning: Third International Conference, CoCoLe 2024, Warangal, India, September 13–15, 2024, Revised Selected Papers (Communications ... Computer and Information Science Book 2317) by Sanjaya Kumar Panda and Rajkumar Buyya, Year 2024, ISBN-13: 978-3031790416					