



Govt. Science College, Jabalpur

B.Sc 2nd year

Computer Science

Computer Network & Information Security (Major1) Course Learning Outcomes (CLO)

- Define and describe the components of Data Communications Systems such as Various protocols, OSI Model, data transmission analog and digital format.
- Identity and differentiate among the network devices and drivers.
- Learn and describe various error detection and correction methods .define the various terminologies used in Network and application layers.
- Compare the various network technologies and can decide the suitable technology installation as per requirements and environment at any work place.
- Describe the various protocols and can identify the application areas of each protocol.
- Know the fundamental of network and information security issues, laws, and various security technologies which can be applied on work place.



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**Object Oriented Programming with Java (Major 2/ Minor/
Elective)**

Course Learning Outcomes (CLO)

- Implement Object Oriented Programming concept using basic syntaxes of control structures, string and function for developing skills of logic building activity.
- Identify classes, objects, members of a class and the relationship among them needed for a finding the solution to specific problem.
- Demonstrates how the achieve reusability using inheritance, interface and packages and describe faster application development can be achieved.
- Demonstrate understanding and use of different exception handling mechanisms and concept of multi-threading for robust faster and efficient application development.
- Identify and describe common abstract use interface components to design GUI in java Using Applet & AWT along with response to events.
- Identify, Design & Develop complex Graphical user interface using principal java Swing classes based on MVC architecture.