2-1 R09

1. **Data Communication Systems**

Course Outcomes:

- Students should be understand and explore the basics of Computer Networks and Various Protocols. He/She will be in a position to understand the World Wide Web concepts.
- Students will be in a position to administrate a network and flow of information further he/she can understand easily the concepts of network security, Mobile and ad hoc networks.
- Able to introduce the fundamental various types of laptop networks.
- Get introduce with demonstration of the TCP/IP and OSI fashions with merits and demerits.
- Award with the knowledge to explore the various layers of OSI model.
- Able to introduce UDP and TCP models.

2. **Mathematical Foundations of Computer Science**

Course Outcomes:

- Ability to apply mathematical logic to solve troubles.

- Apprehend sets, family members, features, and discrete structures.

- Capable of use logical notation to define and cause about essential mathematical concepts along with sets, family members, and functions.

- Capable of formulate problems and resolve recurrence family members.

- Able to version and solve actual-international problems the usage of graphs and trees.

3. Data Structures through C++
Course Outcomes:

• Potential to pick suitable data structures to represent facts items in real international problems.

• Capability to analyze the time and space complexities of algorithms.

• Capacity to layout applications the usage of a variety of information systems such as stacks, queues, hash tables, binary timber, seek timber, thousands, graphs, and b-bushes.

• Able to research and put in force diverse styles of searching and sorting techniques.

4. Digital Logic Design & and Computer Organization

Course Outcomes:

Computer Organization Course Outcomes

- Able to apprehend the simple components and the layout of cpu, alu and manage unit.

• Capability to understand memory hierarchy and its effect on computer cost/performance.

• Ability to understand the benefit of guidance degree parallelism and pipelining for high overall performance processor layout.

• Capability to recognize the preparation set, training codecs and addressing modes of 8086.

• Capacity to put in writing meeting language applications to resolve issues.

Digital Logic Design Course Outcomes:

• Able to apprehend number systems and codes.

• Able to solve Boolean expressions using minimization strategies.

• Capable of design the sequential and combinational circuits.

• Able to apply nation reduction strategies to resolve sequential circuits

5. Basic Electrical Engineering:

Outcomes:

After this route, the scholar might be able

• To research and clear up troubles of electrical circuits the use of community laws and theorems.

• To discover and signify diodes and diverse kinds of transistors.

- This course introduce the concept of basic electrical engineering parameters ,quantites ,analysis of AC and DC circuits ,the construction operation and analysis of transformers , DC and AC machines .
- It also gives knowledge about measuring instruments operation in detail.
- It introduce also about network analysis.

6. Electronic Devices & Circuits

- Students will understand alternating current concepts with application to solid-state devices.
- Will understand the theory of operation of solid-state devices.
- Will be able to apply circuit techniques to AC solid-state circuits.
- Will understand the analysis of solid-state circuits utilizing characteristic curves.
- Will understand the analysis of solid-state circuits utilizing equivalent circuits or models and applying the fundamental circuit theorems rather than memorizing equations.
- Will be able to explain the functioning of various solid-state devices, including several types of diodes (conventional, Zener, and light-emitting), bi-polar junction transistors, and field-effect transistors.

- Will be able to explain basic circuits like dc and biasing circuits, small-signal ac circuits with emphasis on single-stage amplifiers, and digital switching circuits.
- Will be able to acquire hands-on laboratory experience, utilizing oscilloscopes and other modern test equipment.

7. C Data Structures Lab through:

COURSE OUTCOME:

- Ability to identify the appropriate data structure to given problem.
- Graduate able to design and analyze the time and space complexity of algorithm or program.
- Ability to effectively use compilers includes library functions, debuggers and trouble shooting.

8. Electrical and Electronics Lab:

COURSE OUTCOMES:

After completion of this course, the student

- Understand different types of measuring instruments, their construction, operation and characteristics
- Identify the instruments suitable for typical measurements
- Apply the knowledge about transducers and instrument transformers to use them effectively.