

DEPARTMENT OF COMPUTER SCIENCE

UTKRISH MAHAVIDYALAYA

GOVT. DEGREE COLLEGE THEOG. SHIMLA

The course outcomes of various courses currently taught to B.Sc. Physical Sciences are:-

1. COMP101TH and COMP101PR

(Problem Solving Using Computer)

- In-depth Understanding of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming
- Develop algorithmic solutions to simple computational problems.
- Design programs connecting decision structures, loops and functions
- Able to Use Python data structures – lists, tuples & dictionaries for representing compound data.
- Implementation of files, exception, modules and packages in Python for solving problems.

2. COMPT102TH and COMP102PR

(Office Automation Tools)

- Apply better file management control
- Use MS Word for better documentation
- Formulate data operations using MS Excel
- Demonstrate better presentation skills and communicate their ideas efficiently
- Perform database operations using MS Access

3. COMP201TH

(Computer System Architecture)

- Represent numerical values in various number systems and perform number conversions between different number systems with arithmetic
- Analyze and design digital combinational circuits like decoders, encoders, multiplexers, and de- multiplexers including arithmetic circuits (half adder, full adder).
- Illustrate the fundamentals of different instruction set architectures and their relationship to the CPU design
- Explain about computer buses, input/output modules and data transfer scheme.

4. COMP202TH and COMP202PR

(Database Management System)

- Understand basic idea behind developing a database.
- Design ER-models to represent simple database application scenarios
- Design and convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.
- To design and build a simple database system and demonstrate competences with fundamental task involved with modeling, designing, and implementing a DBMS
- Improve the database design by normalization.

5. COMP203TH

(PHP Programming)

- Able to implement basic concepts with our own idea.
- Understand Tools for website design.
- Understand the concept of image placing, background settings, frames and forms.
- Learn designing web pages with all its features in easy way.

6. COMP204TH

(Computer Networks)

- Understand basic computer network technology.
- Understand Data Communications System and its components.
- Enumerate the layers of the OSI model and TCP/IP reference model.
- Able to identify the different types of network devices, their functions within a network and their applications.
- Understand network security services and mechanisms.

7. COMP301TH

(Operating System)

- Analyze the structure of OS and basic architectural components involved in OS design.
- Use basic Linux commands and Linux documentation and write shell scripts.
- Analyze the various device and resource management techniques for timesharing and distributed systems.

8. COMP304TH

(Web Technologies)

- Learn to create web pages & web portals using HTML,PHP and hosting it on the internet.
- Able to implement client side scripting.
- Able to learn to create responsive pages using CSS

9. COMP307TH

(Multimedia and Applications)

- Developed understanding of technical aspect of Multimedia Systems.
- Understand various file formats for audio, video and text media.
- Develop various Multimedia Systems applicable in real time.
- Apply various networking protocols for multimedia applications.
- Evaluate multimedia application for its optimum performance.

10. COMP308TH

(Software Engineering)

- Get Basic knowledge and understanding of the analysis and design of complex systems.
- Ability to apply software engineering principles and techniques.
- Ability to develop, maintain and evaluate large-scale software systems.
- Able to produce efficient, reliable, robust and cost-effective software solutions.