AIML DEPARTMENT COURSE OUTCOMES

3rd SEM (2022 SCHEME):

Course Code: BCS302
Course Name: Digital Design and Computer Organization

CO	Course Outcome
CO1	Apply the K–Map techniques to simplify various Boolean expressions.
CO2	Design different types of combinational and sequential circuits along with Verilog programs.
CO3	Describe the fundamentals of machine instructions, addressing modes and Processor performance.
CO4	Explain the approaches involved in achieving communication between processor and I/O devices.
CO5	Analyze internal Organization of Memory and Impact of cache/Pipelining on Processor Performance.

Course Code: BCS303
Course Name: Operating Systems

CO	Course Outcome
CO1	Explain the structure and functionality of operating system.
CO2	Apply appropriate CPU scheduling algorithms for the given problem.
CO3	Analyse the various techniques for process synchronization and deadlock handling.
CO4	Apply the various techniques for memory management.
CO5	Explain file and secondary storage management strategies.
CO6	Describe the need for information protection mechanisms.

Course Code: BCS304
Course Name: Data Structures And Applications

CO	Course Outcome
CO1	Explain different data structures and their applications.
CO2	Apply Arrays, Stacks and Queue data structures to solve the given problems.
CO3	Use the concept of linked list in problem solving.
CO4	Develop solutions using trees and graphs to model the real-world problem.
CO5	Explain the advanced Data Structures concepts such as Hashing Techniques and Optimal Binary Search Trees.

Course Code: BCSL305
Course Name: Data Structures Laboratory

CO	Course Outcome
CO1	Analyze various linear and non-linear data structures.
CO2	Demonstrate the working nature of different types of data structures and their applications.
CO3	Use appropriate searching and sorting algorithms for the give scenario.
CO4	Apply the appropriate data structure for solving real world problems.

Course Code: BDS306B
Course Name: Python Programming for Data Science

CO	Course Outcome
CO1	CO1: Describe the constructs of python programming
CO2	CO2: Use looping and conditional constructs to build programs.
CO3	CO3: Apply the concept of data structure to solve the real world problem.
CO4	CO4: Use the NumPy constructs for matrix manipulations
CO5	CO5: Apply the Panda constructs for data analytics.

Course Code: BSCK307
Course Name: Social Connect & Responsibility

CO	Course Outcome
CO1	Communicate and connect to the surrounding.
CO2	Create a responsible connection with the society.
CO3	Involve in the community in general in which they work.
CO4	Notice the needs and problems of the community and involve them in problem – solving.
CO5	Develop among themselves a sense of social & civic responsibility & utilize their knowledge in finding practical solutions to individual and community problems.
CO6	Develop competence required for group-living and sharing of responsibilities & gain skills in mobilizing community participation to acquire leadership qualities and democratic attitudes.

Course Code: BCS358A
Course Name: Data Analytics with Excel

CO	Course Outcome
CO1	Use advanced functions and productivity tools to assist in developing worksheets.
CO2	Manipulate data lists using Outline and PivotTables.
CO3	Use Consolidation to summarise and report results from multiple worksheets.
CO4	Apply Macros and Autofilter to solve the given real world scenario.