Course-106: Practical

Course Code:	**106**
Course Title:	**Practical**
Total Credits :	06 Credits
Nature of Subject :	Practical only
Teaching per Week:	12 Hours per week per Semester
Minimum weeks per Semester:	15 weeks (Including class work, examination, preparation etc.)
Review/Revision Year:	June, 2020
Purpose of Course :	- Practical implementation of technologies covered as part of syllabus using required software and learning application areas. - Understanding and learning programming concepts, data types and variables using c programming language. - Learning concepts of compiler based programming language and its conditional and iteration structures. - Understanding use and application areas of spread-sheet. Storing and presenting data using charts, use of formulas and formatting data. - Understanding concepts of data and database. - Accessing, storing and controlling data using query language. (Only single table queries).
Objective :	Objective of this course is to introduce essentials of computer programming language, introduction of compiler based programming language, concepts of data and representation of data , use of query languages and storing and accessing data using query languages.
Pre-requisite:	None
Course Outcome :	- At the end of this course, students will have hands on experience of writing and applying codes using compiler based programming language. Students will understand structure of program, concepts of compiling and executing codes using variables, in-built functions, header files and control structures. - Students will have edge over concepts of work-sheets, storage of data, types of data, handling, manipulating and representing data using formulas and charts. - Students will be able to understand concepts of database and storage of data in structured way as well accessing and manipulation of data using structured query language.
Course Content:	1. Creating and performing tasks based on unit 1 and 2 of Course-Paper-105. 2. Practical implementation of SQL based on Unit-3, Unit-4, Unit-5 of Course-Paper-105. 3. Practical implementation based on Course-Paper-104.
Teaching Methodology:	- Practical work - Lab sessions and hands on experience, Discussion, Self-Study - Students will create word document containing SQL based work including tables and queries and represent their work using presentation software at end of the semester.
Evaluation Method:	30% Internal assessment. 70% External assessment. [For Internal and External Examination Suggested distribution of question weight will be :50% - based on Course-paper-104 , 15% - based on Unit-1 & Unit-2 of Course-paper-105 and 35% - based on Unit-3, Unit-4 and Unit-5 of Course-paper-105.)