**GOVERNMENT COLLEGE BAROTA GOHANA (SONIPAT)**

**Summary of Lesson Plans of College Faculty for Academic Session 2024 - 2025**

 **Nam of Assistant/Associate Professor:- Dr. Jyoti**

**Class:- B.A/ B.sc -1 From:- July 2024-Nov 2024**

**Subject:- Mathematical programming in C and Numerical methods Semester:- ODD Semester**

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| **Months** | **Week**  | **Topics/ Chapters to be Covered** |
| **JULY** | **4th week** | **Programmer's model of a computer, Algorithms, Flow charts.** |
| **AUGUST** | **1st week** | **Data types, Operators and expressions, Input/ Output functions. Decisions control structure.** |
| **2nd week** |  Decision statements, Logical and conditional statements, Implementation of Loops, Switch Statement. |
| **3rd week** |  **Case control structures. Functions, Preprocessors and Arrays** |
| **4th week** | **Strings: Character Data Type, Standard String handling Functions, Arithmetic Operations on Characters.**  |
| **SEPTEMBER** | **1st week** | Structures: Definition, using Structures, use of Structures in Arrays and Arrays in Structures. Pointers: Pointers |
| **2nd week** | **Data type, Pointers and Arrays, Pointers and Functions. Solution of Algebraic and Transcendental equations.** |
| **3rd week** | Bisection method, Regula-Falsi method, Secant method, Newton-Raphson's method.  |
| **4th week** | **Newton's iterative method for finding pth root of a number, Order of convergence of above methods** |
| **OCTOBER** | **1st week** | Simultaneous linear algebraic equations: Gauss-elimination method. |
| **2nd week** | **Gauss-Jordan method, Triangularization method (LU decomposition method).**  |
| **3rd week** |  **Crout's method, Cholesky Decomposition method.**  |
| **4th week** | Iterative method, Jacobi's method, Gauss-Seidal's method, Relaxation method. |
| **NOVEMBER** | **1st week** | **Revision of unit 1 and Test**  |
| **2nd week** | **Revision of unit 2 and Test**  |
| **3rd week** | Revision of unit 3 and Test  |