Subject : Mathematics

Teacher name: Dr Rajesh, Paper 3 Semester 4th

April 2021

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| Programmer’s model of a computer, Algorithms, Flow charts, Data types, Operators and expressions, Input / outputs functions. |

May 2021

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| Decisions control structure: Decision statements, Logical and conditional statements, Implementation of Loops, Switch Statement & Case control structures. Functions, Preprocessors and Arrays. |

June 2021

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| Strings: Character Data Type, Standard String handling Functions, Arithmetic Operations  on Characters. Structures: Definition, using Structures, use of Structures in Arrays and Arrays in Structures. Pointers: Pointers Data type, Pointers and Arrays, Pointers and Functions.  Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method, Secant method, Newton-Raphson’s method. Newton’s iterative method for finding pth root of a number, Order of convergence of above methods. |

July 2021

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| Simultaneous linear algebraic equations: Gauss-elimination method, Gauss-Jordan method, Triangularization method (LU decomposition method). Crout’s method, Cholesky Decomposition method. Iterative method, Jacobi’s method, Gauss-Seidal’s method, Relaxation method. |