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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | **Application Development using Python** | 1.Students learn python for its following feateues:-   * Easy to Read, Learn and Write. * Python is a high-level programming language that has English-like syntax. * Improved Productivity. Python is a very productive language. * Interpreted Language. * Dynamically Typed. * Free and Open-Source. Vast Libraries Support. * Portability.   2. Python programming is a general-purpose, used in almost all fields, including:   * Data science * Scientific and mathematical computing * Web development * Finance and trading * System automation and administration * Computer graphics * Basic game development * Security and penetration testing * General and application-specific scripting * Mapping and geography (GIS software)   . | 1. Chalk and   Talk method   1. PPT | * Business   Ethics   * Human   values | PO1:Engineering Knowledge  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO5:Modern Tool Usage |  |
|  |  | PO12: Life-long  Learning. |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
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|  |  | **CO1:Understand** and **implement** the basic programming constructs with flow control statement, functions and Exception handling.  **CO2:Understand** and **implement** the data structures in python such as List, Tuples, Strings and Dictionaries techniques.  **CO3:Understand** and **demonstrate** pattern matching technique with RE, complete file system and debugging.  **CO4:Interpret** and **apply** OOP’s the concepts such as classes and objects, class and methods, classes and functions and Inheritance in Python.  **CO5:Comprehend** and **apply** theprocesses ofweb scraping, working with Excel spread sheets, PDF, Word, CSV, JSON file formats. |
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