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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 method1. PPT
 | * Business

 Ethics* Human

 values | PO1:Engineering KnowledgePO2:Problem AnalysisPO3:Design/Development Of SolutionsPO4:Conduct Investigations Of Complex ProblemsPO5:Modern Tool Usage |  |
|  |  |  PO12: Life-longLearning. |
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|  |  | PSO1:Professional SkillsPSO2: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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