

Semester	2-MICS230211P
Course	Multi-Disciplinary
Paper Title	PYTHON PROGRAMMING
No. of Credits	3
Theory / Practical / Composite	PRACTICAL
Minimum No. of preparatory hours per week a student has to devote	3
Number of Modules	1
Syllabus	<p>Introduction to Programming</p> <p>Algorithms and Flowcharts to Solve Problems</p> <p>Introduction to Python</p> <p>Operators, Expressions and Python Statements</p> <p>Sequence Data Types</p> <p>Set, Tuple, List, Dictionary and Arrays in Python</p> <p>Functions and parameterized functions</p> <p>File Processing</p> <p>Scope and Modules</p> <p>Basic libraries in Python</p>
Learning Outcomes	<ol style="list-style-type: none"> 1. Learn fundamentals of programming 2. Discover different data types and functions. 3. Learn basic difference between Lists, Tuples and Dictionaries 4. Learn different libraries used in Python. 5. Acquire skills to work with data sets. 6. Visualize data with respect to results using matplotlib. 7. Learn Classification, Clustering and Association of data. 8. Predict data based on some present datasets
Reading/Reference Lists *4	<ol style="list-style-type: none"> 1. Python: The Complete Reference by Martin C. Brown, McGraw Hill Education 2. Head First Python by Paul Barry, O'Reilly

	3. https://nptel.ac.in/courses/106106182 4. https://onlinecourses.swayam2.ac.in/cec22_cs20/preview	
Evaluation	PRACTICAL EXAMINATION	