

**KLE ENGLISH MEDIUM SCHOOL****JULE SOLAPUR****GRADE- XII SYLLABUS SPLIT 2023-24****XII- COMPUTER SCIENCE****TERM-I**

<b>SR. NO</b>	<b>MONTH</b>	<b>UNIT / SUBUNIT</b>	<b>VALUES</b>	<b>ACTIVITY/PRO JECT</b>	<b>EXAM</b>
1	<b>April</b>	<b>Review of Python Basics</b> Python tour 1 covered in Class XI	Develops IT skills	Lab activities	
2	<b>June</b>	<b>Review of Python Basics</b> Python tour 2 covered in Class XI	Develops IT skills Develops Problem solving skill Develops Programming skill	Lab activities	
3	<b>July</b>	<b>Functions</b> <ul style="list-style-type: none"><li>• Functions: types of function (built-in functions, functions defined in module, user defined functions)</li><li>• Creating user-defined function</li><li>• Arguments and parameters, default parameters, positional parameters</li><li>• Function returning value(s)</li><li>• Flow of execution</li><li>• Scope of a variable (global scope, local scope)</li></ul>	Develops Problem solving skill Develops Programming skill	Lab activities	
4	<b>August</b>	<b>Data File Handling</b> <ul style="list-style-type: none"><li>• Introduction to files</li><li>• Text file</li><li>• Binary file</li><li>• CSV file</li></ul> <b>Program Efficiency</b> Performance Measurement in terms of the number of operations	Develops Programming skill	Lab activities	

5	September	<b>Data Structures in Python</b> Stack: Operations on stack (push & pop), implementation of stack using list. <b>Computer Networks</b> <ul style="list-style-type: none"> <li>• Evolution of networking</li> <li>• Data communication terminologies</li> <li>• Transmission media</li> <li>• Network devices</li> <li>• Network topologies and Network types</li> <li>• Network protocol</li> <li>• Introduction to web services</li> </ul>	Develops IT skills	Lab activities	
6	October	Revision			I Term
TERM-II					
SR. NO	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT	EXAM
7	November	<b>Relational Database and SQL</b> <ul style="list-style-type: none"> <li>• Database concepts</li> <li>• Relational data model</li> <li>• Structured Query Language</li> <li>• Data type</li> <li>• Constraints</li> <li>• Create, use, show, drop database, show &amp; create table</li> <li>• Aggregate functions</li> <li>• Group by, having clause</li> <li>• Joins</li> </ul>	Develops IT skills Develops Problem solving skill Develops Programming skill	Lab activities	Periodic Test 2
8	December/ January	<b>Interface Python with SQL</b> <ul style="list-style-type: none"> <li>• Interface of python with an SQL database: connecting SQL with Python</li> <li>• Performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount</li> <li>• Creating database connectivity applications</li> </ul>	Develops IT skills Develops Problem solving skill Develops Programming skill	Lab activities	Periodic Test 2
9	January	Revision	Revision		
10	February	Revision	Revision		
CHAPTER 1-10 FOR TERM-II EXAMINATION					