

**KLE ENGLISH MEDIUM SCHOOL**  
**JULE SOLAPUR**  
**GRADE- XI SYLLABUS SPLIT 2023-24**

**SUBJECT: COMPUTER SCIENCE**

Sr.No	Month	Unit/Subunit	Values	Activities	Examination
1	Jul-22	<b>Computer System</b>	To develop basic knowledge of computers	Practical based on basics of Computers	
		Introduction to Computer System			
		Evolution of Computer			
		Computer Memory			
		Data Transfer between Memory and CPU			
		Microprocessors			
		Data and Information			
		Software			
		Operating System			
2	Jul-22	<b>Encoding Schemes and Number System</b>	To understand the concept of Encoding and Decoding	Activity based on Encoding and Decoding concept	
		Introduction			
		Number System			
3	Jul-22	<b>Emerging Trends</b>	Develop how to work with new trends in technology	ATAL Lab	
		Introduction			
		Artificial Intelligence (AI)			
		Big Data			
		Internet of Things (IoT)			
		Cloud Computing			
		Grid Computing			
Blockchains					
4	Aug-22	<b>Introduction to Problem Solving</b>	Develops skill of problem solving using Algorithms	Drawing flow chart and Algorithm for program	
		Introduction			
		Steps for Problem Solving			
		Algorithm			
		Representation of Algorithms			
		Flow of Control			
		Verifying Algorithms			
		Comparison of Algorithm			
		Coding			
Decomposition					

5	Sep-22	<b>Getting Started with Python</b>			
		Introduction to Python			
		Python Keywords			
		Identifiers			
		Variables			
		Comments			
		Everything is an Object	Develop Programming	Practical based on creating	
		Data Types	Language Skills	web pages	
		Operators			
		Expressions			
		Statement			
		Input and Output			
		Type Conversion			
		Debugging			
6	Sep-22	<b>Flow of Control</b>	Skills of handling	Practical based on flow	
		Introduction	instruments and accuracy.	control statements	
		Selection	Develops concentration skills		
		Indentation			
		Repetition			
		Break and Continue Statement			
		Nested Loops			
7	Sep-22	<b>Functions</b>	Increase knowledge in		
		Introduction	programming languages with		
		Functions	different functions	Program based on defing	
		User Defined Functions		functions	
		Scope of a Variable			
		Python Standard Library			
8	Nov-22	<b>Strings</b>	Accuracy and knowledge of	Implementing String	
		Introduction	handling Strings in	operations practically.	
		Strings	Programming		
		String Operations			
		Traversing a String			
		String Methods and Built-in Functions			
		Handling Strings			

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9	Nov-22	<b>Lists</b>	Developing Programming Skills	Practical based on List in python	
		Introduction to List			
		List Operations			
		Traversing a List			
		List Methods and Built-in Functions			
		Nested Lists			
		Copying Lists			
		List as Arguments to Function			
		List Manipulation			
10	Dec-22	<b>Tuples and Dictionaries</b>	Adding, Handling tuples and Dictionary Concept	Crating tuples and dictionaries	
		Introduction to Tuples			
		Tuple Operations			
		Tuple Methods and Built-in Functions			
		Tuple Assignment			
		Nested Tuples			
		Tuple Handling			
		Introduction to Dictionaries			
		Dictionaries are Mutable			
		Dictionary Operations			
		Traversing a Dictionary			
		Dictionary Methods and Built-in functions			
		Manipulating Dictionaries			
11	Jan-23	<b>Societal Impact</b>	Knowing how IT impacts on Society	Know how IT impact on society and its solution	
		Introduction			
		Digital Footprints			
		Digital Society and Netizen			
		Data Protection			
		Cyber Crime			
		Indian Information Technology Act (IT Act)			
		Impact on Health			
<b>CHAPTER 1-11 FOR TERM-II EXAMINATION</b>					