

# कार्यालय प्राचार्य, शासकीय पॉलीटेक्निक जशपुर (छ. ग.)

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## LESSON PLAN SESSION JUL – DEC 2025

SUBJECT: **JAVA PROGRAMMING**

SEMESTER: **5<sup>TH</sup>** BRANCH: - **COMPUTER SCIENCE & ENGINEERING**

UNIT NUMBER	NAME OF THE TOPIC	NO OF CLASS REQUIRED	REMARK
<b>Unit 01: Introduction of Java &amp; Programming Structure</b>	1.1 : Introduction to Java 1.1.1 History, JVM, JDK, JRE 1.1.2 Java Compilation & Interpretation	01	
	1.2 Object Oriented paradigm 1.2.1 Encapsulation 1.2.2 Polymorphism 1.2.3 Inheritance	02	
	1.3 Programming Structure 1.4.1 Data Type, Variable, Constant, Operator and its precedence	01	
	1.5 Control Structure	01	
	1.5.1 if-else, switch, while, for, break & continue	01	
	1.6 Input from KeyBoard, Scanner class, command line argument	01	
	<b>Unit 02: Class, Object &amp; Inheritance</b>	2.1 Class & Object 2.1.1 Definition, Access modifiers, object declaration, methods with and without parameter, methods with returning value	01
2.1.2 Method Overloading 2.1.3 Constructor, default, parameterized, overloading 2.1.4 this keyword		02	
2.1.5 Garbage Collector 2.1.6 Object as a Parameter		02	
2.2 Array 1D, 2D			
2.3 Wrapper Class		01	
2.4 Inheritance its types, defines subclass, subclass constructor, superclass methods, super keyword		01	
2.4.2 Multilevel Inheritance 2.4.3 Method Overriding 2.4.4 Dynamic Method Dispatch		01	
<b>Unit 03: Packages, Interfaces &amp; Exception Handling:</b>	3.1 Abstract Class & its Method	01	
	3.2 Interface 3.2.1 Define, implement & apply	02	
	3.3 Package 3.3.1 Create, access, import	01	
	3.4 Exceptional Handling	01	
	3.4.1 Try & Catch, finally, multiple catch, throw, throws	01	
	3.4.2 User defined exception	01	
<b>Unit 04: Multi-Threading, String &amp; Swing</b>	4.1 Introduction of Thread 4.1.1 Definition, Priority, Name	02	
	4.1.2 Create, Extend, Implement Thread, create multiple Thread, Local variable	01	
	4.2 Synchronization & its method and statements, Inner Thread Communication	01	
	4.3 String. 4.3.1 String Constructor, length, concatenation, toString(), charAt(), toCharArray(),	02	
	4.3.2 String Operations compareTo(), equals(), searching string, indexOf()	02	
4.4 Swing 4.4.1 Introduction, JLabel, JButton, JTextField, Panel	01		
<b>Unit 05: Event Handling &amp; JDBC</b>	5.1 Event Handling 5.1.1 ActionEvent, InputEvent, MouseEvent, KeyEvent Class	02	
	5.1.2 Event Listener, ActionListener, ItemListener Interface, MouseListener, KeyListener Interface	04	
	5.2 JDBC 5.2.1 Introduction, JDBC-ODBC bridge, Native-API, Network Protocol, Thin Driver	02	
	5.2.2 Register the driver class	01	
	5.2.3 forName(), getConnection(), createStatement(), executeQuery(), closing()	02	
<b>Total Class Required</b>		<b>40</b>	

Lecturer Name & Sign: - KAMLESH KUMAR SAHU  
LECTURER, CSE, GPJ

HOD CSE Sign: -