

Agni College of Technology Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.



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OMR, Thalambur, Chennai - 600130, www.act.edu.in

VENDORS NAME: 3 Edge Pvt Ltd

CLASS: II CSE (3rd SEM) <u>SUBJECT: Programming in JAVA</u>

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S.no	Module	Topics to be Covered
1		Introduction to Java Programming, JVM, JDK, JRE, JIT, Hello World, Datatypes and Identifiers
2		Operators, Control Statements - Decision Making
3		Control Statements - Looping & Jump statements and Arrays
4	ava	Searching & Sorting Algorithms using Array
5	ë.	Online & Programming Assessment 1 and OOPS
6	Programming in Java	Classes & Objects, Constructor and Command line Arguments
7	gran	Access Specifiers, Inheritance, and Packages
8	Prog	Abstract class & Interface, Modifiers(static,final), and 'this' keyword
9		Overloading and Overriding
10		Exception Handling
11		String Handling (String, String Buffer and String Builder)
12		Recap and Online & Programming Assessment 2



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VENDORS NAME: 3 Edge Pvt Ltd

CLASS: III CSE (5TH Semester)

SUBJECT: MYSQL, PYTHON, LINUX, APACHE

<u>S.No</u>	Module	Topics to be Covered
		Introduction to Ubuntu Linux, Login in Linux (GUI & Console)
1		
		Directory Structure of Linux Listing Files & Directories (Is)
2	Linux	
	Tiu	Creating, Moving, Deleting Files, Directories, Searching for Files (locate & find) and Shells (Working effectively in the Command Line)
3		
4		Introduction to python,python features,variables and Python Input/Output
		Opeators and Control Statements:Decision statements.
5		
6		Control Statements:Looping,Jumping
7		List:Creation of list,List operators and Usage,methods and functions.
8	nor	List:1D list vs 2D List with demo
9	Python	Online and Programming Assessment-1
10	_	List:Stack and Queue
11		List:Searching and Sorting
12		String handling with relavant method and functions, Dictionary
		Dictionary and tuples with their method and function
13		
14		Set,File Handling,Exception handling
		Introduction about DBMS,Mysql and Sql
15		Statement(DDL,DML,TCL,DCL),
	_	Selection vs projection using where clause, SQL Operators (IN, NOT IN, BETWEEN, ISNULL, Like etc).
4.0	Mysql	Operators(III), IVOT IIII, DET WEEII, ISINOLL, LIKE EIC).
16	_ ≥	Group Function(Avg Sum atc) and SubQuary(Single and
17		Group Function(Avg,Sum,etc) and SubQuery(Single and Multiple Row)
18		Joining(Natural join,Inner,outer,self etc)

		Constraints(Primary key and foreign key,unique etc.)	
19			
		Database API(Insert,delete,update etc) Using Python	
20			
21		Online and Programming Assessment-2	
22	9	Introduction to Apache webserver and usage.	
	Apache	Creatin simple web application using Flask or Django	
23	Ą		
24		Deploying application in Webserver	



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VENDORS NAME: 3 Edge Pvt Ltd

CLASS: IV CSE (7TH Semester)

$\frac{\text{SUBJECT: COMPANY SPECIFIC TRAINING AND PROBLEM SOLVING USING HACKERRANK}}{\text{AND CODINGBAT}}$

S.no	Module	Topics to be Covered
1		Problem solving Introduction and Warmup
2		Problem Solving using Control Statements & Operators - Easy
3		Problem Solving using Control Statements & Operators - Medium
4	t.	Problem Solving using Array - Easy
5	CodingBat	Problem Solving using Array - Medium
6	dir	Problem Solving using Array - Hard
7	3	Problem Solving using String - Easy
8		Problem Solving using String - Medium
9		Problem Solving using String - Hard
10		Problem Solving using Recursion - Easy
11		Problem Solving using Recursion - Hard
12		Problem Solving using Map
13		Problem Solving - Warmup
14		Problem Solving - String
15	HackerRank	Problem Solving - String
16		Problem Solving - 1D and 2D Array
17		Problem Solving - Sorting
18		Problem Solving - Searching
19	ıcke	Problem Solving - Stack and Queue
20	Нас	Problem Solving - Dynamic Programming
21		Problem Solving - Bit Manipulation
22		Problem Solving - Game Theory
23		Problem Solving - Recursion
24		Problem Solving - Debugging



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CLASS: II CSE (4th SEM) <u>SUBJECT: PROGRAMMING IN SERVLET, JSP, MYSQL</u>

S.No	Module	Topics to be Covered
1		Introduction to Advanced Java,Internet Technologies.
2		Servlet: Introduction about servlet,Servlet API, Servlet Life cycles
3		Httpservlet vs Generic Servlet,servlet request interface
4		Servlet Demo
5	Servlet	ServletConfig AND SevletContex with demo
		Servlet: Request Dispatcher vs Sendredirect
6	S	Online & Programming Assessment 1
7		Servlet: Session Management, Cookie, Session,
8		Session Management, URI rewiting, Hidden form Field
9		Filter, Filter Lifecycle and Filter authentication & Demo
10	-	Jsp: Introduction, Jsp Life Cycle, Scriptlet tag and Demo
11		Implicit Objects and Demo
		Online & Programming Assessment 2
13		Directives (Page Directives, Include Directives)-Demo
14	dSt.	Jsp: Action Elements (Include, Forward, Usebean, Set and get properties)
15	Mysql	Jsp: Action Elements(Include, Forward, Usebean, Set and get properties)
16		Introduction about DBMS,Mysql and Sql Statement(DDL),
17		Sql Statement(DML,TCL,DQL),Selection vs projection using where clause
		SQL Operators(IN,NOT IN,BETWEEN,ISNULL,Like etc).

18	-	Online & Programming Assessment 3
19		Group Function(Avg,Sum,etc) and SubQuery(Single and Multiple Row)
20		Joining(Natural join,Inner,outer,self etc)
21		MVC Architecture with CRUD Demo(Insertion & Retrieve) by utilizing JSP & Servlet
22	Project	MVC Architecture with CRUD Demo(Update,Delete) by utilizing JSP & Servlet
23		Revision and Project Review
24		Online & Programming Assessment 4



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CLASS: III CSE (6TH Semester)

SUBJECT: PYTHON, FLASK, BOOTSTRAP and DIANGO

SL.No	Module	Topics to be Covered
		Recap Python(Operators, Conditional Statements, Looping
1		etc)
2	¥	Introduction about Framework and Flask
3	YTHON & F	Flask Installations, Concept of Routing and Url Rewriting
4		Recap MYSQL(DDL and DML), Introduction about Webservices(Restful)
5		Postman Tool, HTTP Methods, Rest Api Create, Retrive
		Rest Api(Update and Delete)
6		Online & programming Assessment -1
7	BOOTSTRAP	Installation of Bootstrap and Its Classes, Layout Designing
8	OTS	Table Designing, Form Designing
9	BO(Introduction to MVC
10	_	Introduction to Django
11		Features, MVT architecture
		Django Installation
12		Online & programming Assessment -1
13	Project DJANGO	Project App Creations
14		Url Configurations
15		Simple Demo program
16		ORM and Model creation
17		Admin UI Designing
		Form Creations
18		Online & programming Assessment -3
19		Form validations
20		Crud Operation:Django+Mysql (Insert & Retreive)
21		Crud Operation:Django+Mysql (Retreive, Update,Delete)
22		Session Management(Sessions and Cookies)

23	Online & programming Assessment -4	
	Revision	
24	Project Review	