



VENDORS NAME: 3 Edge Pvt Ltd

CLASS: II IT (3<sup>rd</sup> SEM)

SUBJECT: Programming in JAVA

S.no	Module	Topics to be Covered
1	Programming in Java	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		Searching & Sorting Algorithms using Array
5		<b>Online &amp; Programming Assessment 1 and OOPS</b>
6		Classes & Objects, Constructor and Command line Arguments
7		Access Specifiers, Inheritance, and Packages
8		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		<b>Recap and Online &amp; Programming Assessment 2</b>



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CLASS: III IT (5<sup>TH</sup> Semester)

**SUBJECT: MYSQL, PYTHON, LINUX, APACHE**

S.No	Module	Topics to be Covered
1	Linux	Introduction to Ubuntu Linux, Login in Linux (GUI & Console)
2		Directory Structure of Linux Listing Files & Directories (ls)
3		Creating, Moving , Deleting Files , Directories, Searching for Files (locate & find) and Shells (Working effectively in the Command Line)
4	Python	Introduction to python,python features,variables and Python Input/Output
5		Operators and Control Statements:Decision statements.
6		Control Statements:Looping,Jumping
7		List:Creation of list,List operators and Usage,methods and functions.
8		List:1D list vs 2D List with demo
9		<b>Online and Programming Assessment-1</b>
10		List:Stack and Queue
11		List:Searching and Sorting
12		String handling with relevant method and functions,Dictionary
13		Dictionary and tuples with their method and function
14		Set,File Handling,Exception handling
15	Mysql	Introduction about DBMS,Mysql and Sql Statement(DDL,DML,TCL,DCL),
16		Selection vs projection using where clause,SQL Operators(IN,NOT IN,BETWEEN,ISNULL,Like etc).
17		Group Function(Avg,Sum,etc) and SubQuery(Single and Multiple Row)
18		Joining(Natural join,Inner,outer,self etc)

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



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**CLASS:** IV IT (7<sup>TH</sup> Semester)

**SUBJECT: COMPANY SPECIFIC TRAINING AND PROBLEM SOLVING USING HACKERRANK AND CODINGBAT**

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



# Agni College of Technology

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VENDORS NAME: 3 Edge Pvt Ltd

CLASS: II IT (4<sup>th</sup> SEM)

SUBJECT: HTML5 ,CSS3, PHP & MYSQL 8

No	Topics to be Covered
1	HTML:Introduction,Basic Tag and Simple Demo
2	HTML:Form Creation using table,tr,td etc...
3	CSS: Introduction and Basic Css related demo
4	CSS: Applying Css effect in Form.
5	PHP Introduction,syntax,variables ,comments (Exercise)
6	PHP Strings and constants(Exercise)
7	PHP Numbers
8	PHP Operators (Exercise)
9	PHP Control Statements (Looping, Decision,switch)(Exercise)
10	PHP Arrays
11	PHP Functions (Exercise)
12	<b>Online &amp; Programming Assessment 1</b>
13	PHP Form handling and validation (Exercise)
14	Introduction about DBMS,Mysql,Sql Statement(DDL)
15	Sql Statement(DML,TCL,DQL)
16	Where clause, SQL Operators(IN,NOT IN,BETWEEN,ISNULL etc)
17	Like Operators,String Functions
18	Group Functions(AVG,SUM,MIN etc)
19	Sub Query(Single row and multiple row)
20	Joining(Inner join,Outer join)
21	Constraints:Primary key,Foreign key,Not null,Unique etc
22	<b>Online &amp; Programming Assessment 2</b>
23	CRUD Operations(Update and Delete)
24	CRUD Operations(Insert and Fetch)



VENDORS NAME: 3 Edge Pvt Ltd

CLASS: III IT (6<sup>TH</sup> Semester)

**SUBJECT: MACHINE LEARNING USING PYTHON**

<b><u>SL.No</u></b>	<b>Topics to be Covered</b>
1	Recap:Introduction to python,Variable, Data Types,Operators,Looping
2	Recap:Python List, Tuple, Dictionary , Introduction to NumPy, Data Types
3	Arrays, Array Functions
4	Matrix, Matrix Functions
	Mathematical and Statistical Functions
5	Introduction to Pandas,Creating Series, Series Functions
6	Creating Dataframes, Dataframe Functions
7	Reading CSV/Excel Files
8	Pivot Table
9	Pivot Table related demo, <b>Online &amp; Programming Assessment -1</b>
10	Introduction Matplotlib, Line, Titles and Labels
11	Bar Charts, Pie Charts
12	Scatter Plot, Stack Plot
13	Loading Data from Files
14	Introduction to Machine learning , Supervised Vs Unsupervised Learning
15	Python Libraries suitable for machine learning, Linear Regression
16	Non-Linear Regression
17	Model Evaluation Methods
18	K-Nearest Neighbour
19	<b>Online &amp; Programming Assessment -2</b> , Introduction to Decision Tree
20	Building Decision Trees
21	Logistic Regression
22	K-Means Clustering
23	KNN Algorithm