Placement Oriented Technical (POT) Training

By Prof. Dipak Baral & Dr. Rajesh Kumar Panda

Placement Oriented Technical (POT) Training consists of following papers which is mandatory knowledge required for most of the companies.

- 1. Coding using C. (Complete Syllabus)
- 2. Data Structure (Complete Syllabus)
- 3. OOP concepts with Tech PI
- 4. RDBMS concepts with Tech PI
- > Brief Syllabus of above papers in the next page.

We focus on the following points.

- Conceptual Clarity
- Converting your logic into program
- Enhancing Problem solving ability
- On the spot doubt clear
- Competitive Problem Solving

Placement Oriented Technical (POT) Training By Prof. Dipak Baral & Dr. Rajesh Kumar Panda

1. Coding Using C with More than 500 programs

Note: Adding CODE TUNING TECHNIQUE in programming.

SI No	Chapter Name
1	Introduction to Programming
	Language and 'C'
2	Fundamental of C Language
3	Data Types
4	Variable
5	Input / Output
6	Operators
7	Control Statements
8	Storage class & Scope
	Pointer
9	And
	its implementations
10	Array
11	Pointer & Array
12	String
13	Pointer & String
14	Function
15	Function & Array
16	Function & String
17	Function & Storage class
18	Recursion
19	Structure, union, enum
20	Preprocessor
21	File

Chapte	Chapter Wise Approx. No of Programs will			
be solved with explanation				
SI No.	Chapter Name	Approx. No of Programs		
1	Operator	30		
2	Input/ Output	10		
3	Scope of variables	6		
4	Control statements	 Star Pyramid - 30 Number Pyramid - 30 Alphabet Pyramid - 10 Number Program - 24 Series Program - 10 		
5	Array (1-d, 2-d)	30		
6	String	50		
7	Pointer	30		
8	Function	20		
9	Recursion	25		
10	Structure, union, enum	10		
11	Preprocessor	15		
12	File	10		
Total No. of Long Program: 340 (Approximately)				
MCQ & Find Out the Output More than 200				

Placement Oriented Technical (POT) Training By Prof. Dipak Baral & Dr. Rajesh Kumar Panda

2. Brief Syllabus of Data Structure Using C

SI. No	Data Structure		
	Chapter Name		
1	Time Complexity		
2	Array		
3	Linked list		
4	Stack (Using Array & Linked List)		
5	Queue (Using Array & Linked List)		
6	Tree (Using Array & Linked List)		
7	Graph (Using Array & Linked List)		
8	Searching		
9	Sorting		
10	Hashing		
11	Dynamic programming		
12	Back Tracking		
13	Greedy Algorithm		
14	Divide and Conquer		
	Total No of program= 135 programs		
	And Numerous MCQ.		

3. Brief Syllabus of OOP

SI. No	ООР
	Chapter Name
1	Explaining Object and Object Oriented Programming
2	Feature of OOP
3	Class and its Features
4	Constructor & Destructor
5	New and delete
6	Polymorphism
7	Explaining Method Overloading with example
8	Inheritances
9	Explaining Method Overriding with example
10	Dynamic Binding
11	Abstract class & Abstract Method

Placement Oriented Technical (POT) Training

By Prof. Dipak Baral & Dr. Rajesh Kumar Panda

4. Brief Syllabus of RDBMS mapping with CAMPUS test.

RDBMS

Chapter Name

Database Management System Concepts: DBMS Vs RDBMS. **Database System Architecture:** Three Level Architecture of DBMS.

Database Models: Data Model and Types of Data Model, Relational Data Model, Hierarchical Model, Network Data Model, Object/Relational Model, Object-Oriented Model; Entity-Relationship Model, Modeling using E-R Diagrams, Notation used in E-R Model,

An Introduction to RDBMS: An informal look at the relational model; Relational Database Management System; RDBMS Properties, The Entity-Relationship Model;

Normalization: Functional Dependency; Anomalies in a Database; Properties of Normalized Relations; First Normalization; Second Normal Form Relation; Third Normal Form; Boyce-Codd Normal Form (BNCF); Fourth and Fifth Normal Form.

Query Processing: Join operation.