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### Course Syllabus: Professional Certificate in Artificial Intelligence

**Batch Name: PCAI**

**Eligibility: 12th**

**Course Start: 1st of Every Month**

**Course Duration: 180 Hours**

#### Courses / Modules Paper

##### Module 1

Paper 1	Paper 2	Paper 3	Paper 4	Paper 5
Computer Science	Language C	Python	Web Programming	Artificial Intelligence

#### Paper 1: Computer Science

- 1.1 Preamble to Computer Science
- 1.2 Introduction to Computer Programming
- 1.3 Computer Memory- Units of memory, types of memory (primary and secondary), data deletion, its recovery and security related concerns
- 1.4 Stacks and Queue
- 1.5 Searching and Sorting
- 1.6 Number System- Decimal, Binary, Octal and Hexadecimal number system and converting a number from a

#### Paper 5: Artificial Intelligence

- 5.1 Search-chancing results to problems
- 5.2 Knowledge- representing information and drawing consequences it
- 5.3 Query- using probability to deal with uncertain events
- 5.4 Optimisation- chancing the stylish way to break a problem
- 5.5 Literacy- using data to ameliorate performnce
- 5.6 Neutral Networks- using brain- such like structures to perform tasks
- 5.7 Language- recycling human's natural language

#### Paper 2: Language C

- 2.1 Data types, drivers, tentative statements, circles, command line
- 2.2 Functions, variables, debugging arrays, command- line arguments
- 2.3 Alogrithms
- 2.4 Memory

#### Paper 3: Python

- 3.1 Python Programme Flow
- 3.2 Functions and Modules
- 3.3 Exceptions Handling
- 3.4 Generators and Iterators
- 3.5 Using SQL with Python

#### Paper 4: Web Programming

- 4.1 Preamble to the Internet, IP, TCP, HTTP
- 4.2 HTML, CSS, JavaScript, DOM
- 4.3 Beaker web waiters and Ajax