

Course No: MCA-4EL5
Course Title: Programming Languages and Paradigms

UNIT I

Attributes of a good language; Effect of environment; Virtual computers and binding times syntactic elements; Stages of translation; Data types and objects.

UNIT II

Expression control: Arithmetic and non-arithmetic expressions. Control between statements. Subprogram control: Sequence control, data control and stored data.

UNIT III

Procedural languages: Data objects, sequence control, subprograms and storage management.

UNIT IV

Output-based languages: Data objects, sequence control, subprogram and storage management, abstraction and encapsulation. Functional languages: Data objects, sequence control, subprograms and storage management. Logic programming languages: Data objects, sequence control, subprograms and storage management.

Reference Books :

1. Pratt T W et al., Programming languages: Design and Implementation, 3rd Edn. Pearson