St. Francis Institute of Technology
Borivali (West), Mumbai-400103

Information Technology Department

Academic Year: 2023-2024   **Semester: IV**
Class / Branch / Division: SE - IT A/B
Subject: Paradigms and Computer Programming Fundamentals

INTERNAL ASSESSMENT TEST-2 PORTION

Module 4: Declarative Programming Paradigm: Logic Programming
- Logic Programming with PROLOG - Resolution and Unification, Lists, Arithmetic execution order, imperative control flow, database manipulation,
- PROLOG facilities and deficiencies

Module 5: Alternative Paradigms: Concurrency
- Concurrent Programming Fundamentals, Implementing synchronization,
- Message Passing - Background and Motivation, Multi-threaded programs,
- Communication and Synchronization, Language and Libraries, Thread creation Syntax

Module 6: Alternative Paradigms: Scripting Languages
- Common characteristics, Different Problem domains for using scripting,
- Use of scripting in Web development–server and clients side scripting,
- Innovative features of scripting languages - Names and Scopes, string and pattern manipulation, data types, object orientation.

Text Books:
1. Scott M L, Programming Language Pragmatics, 3rd Edition., Morgan Kaufmann Publishers, 2009 - Ch 11, 12, 13
2. Programming Languages: Concepts and Constructs; 2nd Edition, Ravi Sethi, Pearson Education Asia, 1996. - Ch 11, 12

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