



Akole Taluka Education Society's  
**TECHNICAL CAMPUS AKOLE**

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Approved by AICTE, New Delhi, Recognized by DTE, Govt. of Maharashtra and Permanently Affiliated to Savitribai Phule Pune University, Pune

**COURSE OUTCOMES (MCA PATTERN 2020)**

YEAR	COURSE CODE	COURSE NAME	COURSE OUTCOME NO.	COURSE OUTCOMES
<b>SEMESTER I</b>				
<b>FIRST YEAR (SEM-I , TERM-I)</b>	IT11	Java Programming	C01	Understand Basic Concepts of OOPs, Java, Inheritance, Package. (Understand)
			C02	Understand Exception handling, arrays and Strings and multi-threading in Java (Understand.)
			C03	Understand collection framework (Understand)
			C04	Develop GUI using Abstract Windows Toolkit (AWT) and event handling (Apply)
			C05	Develop Web application using JSP and Servlet, JDBC (Apply)
	IT12	Data Structure and Algorithms	C01	Demonstrate linear data structures linked list, stack and queue (apply)
			C02	Implement tree, graph, hash table and heap data structures (apply)
			C03	Apply brute force and backtracking techniques (apply)
			C04	Demonstrate greedy and divide-conquer approaches (apply)
			C05	Implement dynamic programming technique (apply)
	IT13	Object Oriented Software Engineering	C01	Distinguish different process model for a software development. (Understand)
			C02	Design software requirements specification solution for a given problem definitions of a software system. (Analyze)
			C03	Apply software engineering analysis/design knowledge to suggest solutions for simulated problems (Analyze)
			C04	Design user interface layout for different types of applications (Apply)
			C05	Recognize and describe current trends in software engineering (Understand)
	IT14	Operating Systems Concepts	C01	Understand structure of OS, process management and synchronization. (Understand)
			C02	Understand multicore and multiprocessing OS. (Understand)
			C03	Explain Realtime and embedded OS (Understand)
			C04	Understand Windows and Linux OS fundamentals and administration. (Understand)
			C05	Solve shell scripting problems (Apply)

	IT15	Network Technologies	C01	Understand the basic concepts of Computer Network, and principle of layering (Understand)
			C02	Apply the error detection and correction techniques used in data transmission (Apply)
			C03	Apply IP addressing schemes and sub netting (Apply)
			C04	Understand the concept of routing protocols, Application layer protocols and Network Security (Understand)
			C05	Apply the socket programming basics to create a simple chat application (Apply)
	IT11L	Practicals	C01	Demonstrate Collection framework (Apply)
			C02	Develop GUI using awt and swing (Apply)
			C03	Develop Web application using JSP and Servlet, JDBC (Apply)
			C04	Apply Data Structure to solve problems using JavaScript (Apply)
	ITC11	Mini Project	C01	Create working project using tools and techniques learnt in this semester (Create)