20CS2701A - JAVA PROGRAMMING

Offe	ring B	ranch	es	CSE											
Course Category:				Open Elective -III							Credits:			3	
Course Type:				Theory							Lecture-Tutorial- Practical:			3-0-0	
											Continuous Evaluation:			30	
Prerequisites:				-							Semester End Evaluation:			70	
														00	
Cours	e Out	comes													
Upon		sful co													
CO1		Inderstand the fundamental concepts of Object Oriented Programming & constructs of ava programming language.									K2				
CO2	App	Apply principles of object oriented programming to solve problems.									K3				
CO3		Apply concepts of interfaces, exception handling mechanisms to solve the given problem.									К3				
CO4		Analyze the problem and apply suitable object oriented programming constructs for olving the given problem.													
	Cor	ntribut		Cour	se Out	comes	towa	rds acl	hieven	nent of l	Progran	n Outco	mes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	3														
CO2	3														
CO3	3														
CO4	2	3			3				3	3					
Avg.	3	3			3		2-Me	J!	3	3		2 11:	_1_		
	1	- Low										3-Hi	gn		
UNIT											CO1 CO2				
UNIT	-2 as me ga ur Si	Classes, Objects and Methods: Introduction, defining a class, declaring objects, assigning object reference variables, introducing methods, accessing class members, returning a value, constructors, parameterized constructors, this keyword, garbage collection, overloading constructors and methods, recursion, understanding static, introducing final, Using command line arguments. Strings: String, String Buffer and String Tokenizer classes.								CO1 CO2					
UNIT	constructor execution, method overriding, dynamic method dispatch, applying method overridden, Abstract classes, Using final with inheritance, The Object class.							CO1 CO2							
UNIT	-4 A in P	interfaces can be extended.								CO1 CO2 CO3					
	Exception Handling: Fundamentals, types, uncaught exceptions, usingtry and														
UNIT	-5 Ca	xception	ultiple	ndling catch	clause	s, nest	ed try	statem	ent, th					CO1	

M	Multi-Threaded programming: Thread model, Creating a Thread: implementing									
ru	runnable, extending Thread, creating multiple threads, using isAlive() and join(),									
Tl	Thread Priorities.									
Learning Resources										
T (D)	1. The Java Complete Reference, Herbert Scheldt, 10 th edition, TMH									
Text Books	Publications, 2018.									
	1. Programming with JAVA, E. Balagurusamy, 2 nd edition, TMH Publications,									
	2014.									
Reference Books	2. Core Java: An Integrated Approach, New: Includes All Versions up-to Java									
DOOKS	8, by R. Nageswara Rao, Dream-Tech Publishers.									
	3. Head First Java, Kathy Sierra, 2 nd edition, Shroff Publishers, 2012									