SERVICE ORIENTED ARCHITECTURE [As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year 2017 -2018) SEMESTER – VI					
Subject Code	17CS665	IA Marks	40		
Number of Lecture Hours/Week	3	Exam Marks	60		
Total Number of Lecture Hours	40	Exam Hours	03	}	
CREDITS – 03					
Module – 1				Teaching Hours	
Objectives of Software Architecture Patterns and Styles, Service oriented Life, Evolution of SOA, Drives for S perspective of SOA, Enterprise-wide SOA, Strawman Architecture For Layers, Application Development Pro Text 1: Ch2: 2.1 – 2.4; Ch3:3.1-3.7;	e, Types of IT A Architecture;Se OA, Dimension of SOA; Considera Enterprise-Wide cess, SOA Metho	Architecture, Architecture, Architecture, Architecture, Architecture, Architecture, Architecture, Son, Key componentions for Enterprise-Ve-SOA-Enterprise, S	eture Daily ents, Vide OA-	8 Hours	
Module – 2					
enterprise Applications; Architecture enterprise application, Softw Applications; Package Application Package Application Package Applications Package Applications, Patterns for Service-Oriented Enterprise Applications, SOA programming mode Text 1: Ch5:5.1, 5.2, 6.1, 6.2 (Page No. 1).	tare platform latforms, Enterpriations; Considera or SOA, Pattern ion(java reference	se Application Platfo tions for Service-Orie a-Based Architecture e model only).Compo	orise rms, nted for	8 Hours	
Module – 3 SOA ANALYSIS AND DESIGN; Design, Design of Activity Services, services and Design of busines SOA; Technologies For Service Integration, Technologies for Service Text 1: Ch 8: 8.1 – 8.6, 9.1 – 9.3	, Design of Data ss process serv Enablement, Tec	sevices, Design of C vices, Technologies	lient of	8 Hours	
Module – 4					
implementation; SOA Governance, SOA implementation, Trends in SOA Advances in SOA. Text 1: Ch 10: 10.1 -10.4, Ch 11: 11.	s, SOA Gove SOA Security, app OA; Technologic	rnance, Security proach for enterprise ves in Relation to S	and wide	8 Hours	
Module – 5			-		
SOA Technologies-PoC; Loan Mana Architectures of LMS SOA based in SOA best practices, Basic SOA of JAVA/XML Mapping in SOA. Text 1:Page No 245-248; Referencel Text 2: Ch 3, Ch4	ntegration; integration; integral using REST. RoBook: Chapter 3;	ating existing application of WSDL,SOAP	and	8 Hours	
Course outcomes: The students should					

- Understand the different IT architectures
- Explain SOA based applications
- Illustrate web service and realization of SOA
- DiscussRESTful services

Question paper pattern:

The question paper will have TEN questions.

There will be TWO questions from each module.

Each question will have questions covering all the topics under a module.

The students will have to answer FIVE full questions, selecting ONE full question from each module.

Text Books:

- 1. Shankar Kambhampaly, "Service–Oriented Architecture for Enterprise Applications", Wiley Second Edition, 2014.
- 2. Mark D. Hansen, "SOA using Java Web Services", Practice Hall, 2007.

Reference Books:

1. WaseemRoshen, "SOA-Based Enterprise Integration", Tata McGraw-HILL, 2009.