

Course: MCA (A.Y.-II) 2020 Semester: 3

Prerequisite: knowledge of Core JAVA

Course Objective: To make the students aware of the data driven web applications, web services, MVC architecture and ORM concepts of modern web application development.

Teaching and Examination Scheme

Teaching Scheme					Examination Scheme					
Lecture	Tutorial Lab			Cua dia	Internal Marks			External Marks		Total
Hrs/Week	Hrs/Week	Hrs/Week	Hrs/Week	Credit	Т	CE	Р	Т	Р	
3	1	2	-	5	20	20	20	60	30	150

SEE - Semester End Examination, T - Theory, P - Practical

Cou	rse Content	W - Weightage (%) , T - Teachi	ing h	ours
Sr.	Topics		w	Т
1	Introduction	rking & RMI: a to networking concept, Socket, URL class, URL connection class, HTTPURL Connection, InetAddress ramSocket class	10	5
2	RMI Introduction	, stub, skeleton, RMI Example, implementation with database.	5	3
3		, JAVA FX Architecture, Application, 2D Shapes, Text, Effects, Transformation, Animation, 3D Shapes, Charts, Media with JAVAFX, Event Handling.	10	5
4	exception,fi	n, Features, Example, Interceptors: custom, params, execAndWait, prepare, modelDriven, eUpload, value stack, ActionContext, ActionInvocation, Components, Struts architecture, struts n, Struts Validation	15	6
5	Bundled val	idation tring, stringlength, email, date, int, double, url, regex , custom validation	10	5
6		, Angular JS MVC, Data binding, expressions, directives, controllers, Modules, scopes, dependedncy, es, DOM, Forms, validation Angular Ajax, Animation, CRUD operation.	25	12
7		n, No SQL DB, Advantage over RDBMS, Mongo DB data type, Installation, Mongo DB Data modelling, ommands, CRUD Opeations, Connectivity, Node JS with Mongo DB.	25	12



Reference Boo

1.	Java Server Programming Java EE6 Black Book (TextBook) Dreamtech Press
2.	RESTful Java with JAX-RS 2.0 By Bill Burke O'Reilly 2nd Edition
3.	Core Servlets and Java Server Pages Volume-1 By Mary Hall and Larry Brown Prentice Hall 2nd Edition
4.	Core Servlets and Java Server Pages Volume-2 By Marty Hall, Larry Brown and Yaakov Chaikin Prentice Hall 2nd Edition
5.	MongoDB: The Definitive Guide By Kristina Chodorow
6.	The Little MongoDB Book By Karl Seguin

Course Outcome

After Learning the Course the students shall be able to:

- 1. To design and develop data driven applications using RMI Networking.
- 2. develop MVC based web applications using Struts.
- 3. develop various kind of 2D and 3D object using Java Fx.
- 4. describe significance of Mongo DB.
- 5. develop the database for big data.

List of Practical

1.	WAP to implement connection between client and server using socket programming			
2.	WAP to implement RMI			
3.	WAP to implement 2D object Using JAVA FX			
4.	WAP to implement 3D object Using JAVA FX			
5.	WAP to implement MVC Using Angular JS			
6.	WAP to implement Data binding Using Angular JS			
7.	WAP to implement Animation Using Angular JS			
8.	WAP to impl	ement CRUD operations Using Angular JS		
9.	MogoDB Installation			
10.	WAP to implement database Connectivity using Mongo DB			
11.	WAP to implement CRUD operations Using Mongo DB			
12.	WAP to implement NODE JS with Mongo DB			

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