Course Code PIT21S3	O1J Course WEE		NT USING ANGULARJS		ours	The same of	S		Ski	II E	nha	ance	em	ent	Co	urs	es		L	T 0	P 2	C 4
Pre- requisite Courses	Nil	Co- requisite Courses	Nil		rogr									N	lil							
Course Offering Department	Computer S	cience	Data Book / Codes/Standards	Ni	il<	1	1	>		K												
Course Learning Rationale (CLR):	The purpos	e of learning this	s course is to:		Lea	arni	ng	E	2	Pr	ogra	am	Lea	rnir	ng C	Duto	com	es	(PL	.O)		
behavior	of dynamic web p	ages	stand the functional	1	2	3		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2: Understand presentation components that look like HTML elements CLR-3: Build corner to corner interactive components in dynamic web pages CLR-4: Understand MVC framework/architecture of web programming/client-					(%)	(%)	- P	ge	100	nt	search	1		inability		ork		Se				
CLR-5 : Build synchronized objects across view and model components CLR-6 : Understanding JSON in DBs, helps building applications for large scale data storage					roficiency	ttainment	178	Knowledge	Analysis	Developme	Design, Res	Usage	Culture	& Sustai		Team Wo	ation	& Financ	arning			
				of Thinking	cted P	cted A		Engineering	30	∞	ysis, De	ern Tool	∞ర	vironment	S	Individual &	municat	ect Mgt.	Long Le	- 1	- 2	-3
Course Learning Outcomes (CLO):			rners will be able to:	Leve		Expe		Engi	Problem	Design	Anal	Modern	Society	Envi	Ethics	Indiv	Com	Project	Life	PSO	PSO	PSO
CLO-1: Make use of expressions, do data binding with external components				3	90			Н	L	M	M	Н	-	-	-	-	-	-	-		М	Н
CLO-2 : Distinguish the role of MVC in creating dynamic web applications					90	90		Н	M	M	M	Н	-	-	-	-	-	-	-	М	М	Н
CLO-3: Understand the role of reusability and data encapsulation in the form of objects					85	85		Н	М	М	М	Н	-	-	-	-	-	-	-	М	М	Н
CLO-4 : Distinguish RDBMS and schema design of MongoDB					90		L/A	H	M			Н	-	-	-	-	-	-	-	-	_	Н
CLO-5 : Perform query operations using MongoDB					90	90		Н	M	M	M	Н	-	-	-	-	-	-	-	М	М	Н
CLO-6 : Understa		al relationships	between documents using	4	85	85		Н	Н	Н	Н	Н	-	-	-	-	-	-	-	М	М	Н

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	Duration (Hour)		15	15	15	15
S-1	SLO-1	SLO-1 Introduction of :indexOf, joi		Angular JS	Angular JS Scope	Document with different types of values
	Need of Scripting Array Me		Array Methods: lasIndexOf, toString	Arrays	Angular JS Scope	i)Document with Scalar Values
S-2	SLO-1	Difference between client and server side scripting Script tag in HTML	Array Methods:reduce, reverse, Function Definition	Angular JS Expressions Modules	Understanding the scope Angular JS Filters	ii)Document with Documents as values iii)Document with Array as values
5,207,000,000	SLO-2	client and server side scripting Java Script declaration	Array Methods:slice, some, sort Function Parameters	vs Java Script Expressions Creating a Module	Understanding the scope Adding Filters to Directives	ii) Document with Documents CRUD operation :Insert Operation i) insertOne() and ii) insertMany() with examples
6.2	SLO-1	Java script statements	Calling a Function	Adding a Controller	The filter	Perform Query Operation for the following situations i)Query on nested documents ii)Query an array
S-3	SLO-2	Comments and Variables	Return Statements	Adding a Directive	Filter an Array Based on User Input	ii)Query an array of nested documents iv)Geospatial Queries Query Operation Examples
S4-5	SLO-1	Laboratory 1: Java Script Input	Laboratory 4:	Laboratory 7:	Laboratory 10: Sorting an Array based on	Laboratory 13: Update Operation:
0.0	SLO-2	and Output	Functions	Modules in Files	Userinput	updateOne(), updateMany()
S-6	SLO-1	Java script Operators - Logical	Angular Environment set up – windows	Controllers in Files	using filters	Working with CURD operations
SLO-2 Bitwise Arithmetic		Bitwise	Angular JS Framework	Using controllers	Custom Filters	replaceOne(), findAndModify() Update operation :Examples
S- 7	SLO-1	Assignment operators	Angular JS Framework	controllers	Filters	Insert

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	SLO-2	Java Script	Angular JS with HTML	Directives	Angular Service	Query		
S-8	3-8		Angular JS with HTML	Angular JS Directives	Angular Service \$http Service, \$timeout Service, \$interval service	Delete Operation: deleteMany(), deleteOne()		
3-0	SLO-2	Conditional statements	Angular ng directives	iii)findOneAndDelete() Delete operation Examples				
SLO-1 S9-10		Laboratory 2 : Java Script Operators and	Laboratory 5: Angular ng directives	Laboratory 8: data binding	Laboratory 11 : location service and timeout	Laboratory 14: Aggregation in Mongodb: i)aggregate() method Aggregate expressions:		
	SLO-2	Conditions	E PART		service	i) \$sum ii) \$avg iii) \$min iv) \$max		
C 11	SLO-1	SLU-1 lindex innut. Tandillar is stringe.		Introduction to entities of MongoDB: i)Databases i)Collections	Monitoring Deployment using Mongodb: i) mongostat,			
S-11	SLO-2 Array Methods Angular IS Objects Con		Controller Methods	Database: i) createDatabase() method with example	iii)serverStatus, dbStats			
S-12	SLO-1	Array Properties : prototype	Strings	Controller	Introduction to entities of MongoDB:	Monitoring Deployment using Mongodb: mongotop		
	SLO-2	Array Methods Objects Methods Database: example		Database: example	collStats			
S-13	SLO-1	Looping Statements	Manipulating strings	Data binding: controllers	creating dbs	Creating different types of indexes ii) Perform Mongodb data Export		
	SLO-2	Looping Statements	Manipulating numbers	external files	creating dbs	Import using shell as well as mongo compass		
S14- 15	SLO-1	Laboratory 3 : Looping Statements	Laboratory 6: Manipulating strings and external files Laboratory 9: Data binding: controllers and external files Laboratory 12: creating dbs			Laboratory 15:Creating different types of indexes ii) Perform Mongodb data Export and Import using shell as well as mongo compass.		

Learning Resources			2015), "Lear opment", O'F		rJS: A Guide	e to			cs.AngularJ mongodb.co	S.org/api om/manual/tu	ıtorial/
Learning A	ssessment	0									
Die	oom's		С	ontinuous L	earning Asso	essment (50	% weightage	e)		Final Exam	ination (50%
		CLA -	1 (10%)	CLA -	2 (10%)	CLA -	3 (20%)	CLA - 4	1 (10%)#	weigl	htage)
Level o	f Thinking	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice
Level 1	Remember Understand	20%	20%	15%	15%	15%	15%	15%	15%	15%	15%
Level 2	Apply Analyze	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Level 3	Evaluate Create	10%	10%	15%	15%	15%	15%	15%	15%	15%	15%
	Total	100	0 %	10	0 %	10	0 %	10	0 %	10	0%

CLA – 4 can be from any combination of these: Assignments, Seminars, Short Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
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