



SWARNANDHRA

COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3 32 CGPA Recognized under 2(f) & 12(B) of UGC Act 1956. Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W G DT, Narsapur-534280. (Andhra Pradesh)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
20AM5T02	FULL STACK WEB DEVELOPMENT	V	AI&ML	5	2024-25	03-06-2024

Pre-requisites: FULL STACK WEB DEVELOPMENT

COURSE OUTCOMES

1	Design simple web pages using markup languages like HTML and CSS	K4
2	Create dynamic web pages using DHTML and java script that is easy to navigate and use .	K3
3	Create web pages using AngularJS .	K3
4	Build web applications using Servlets, JSP.	K3
5	Understand various operations on MongoDB.	K2

Unit	Out Comes /Bloom's Level	Topics No.	Topics/Activity	Text Book / Reference	Contact Hour	Delivery Method
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UNIT-I: HTML

I	CO1: Design simple web pages using markup languages like HTML and CSS (K4)	1.1.1	An Introduction to HTML,	T1	1	Chalk ,talk
		1.1.2	Basic XHTML Syntax and Semantics,	T1	1	Chalk ,talk
		1.1.3	Basic HTML Elements.	T1	1	PPT
		1.1.4	Images in HTML.	T1	1	Chalk ,talk
		1.1.5	Links in HTML and Lists in HTML.	T1	2	Web Resources
		1.1.6	Tables in HTML.	T1	1	Chalk ,Talk
		1.1.7	Forms in HTML	T1	2	Web Resources
		1.1.8	Frames in HTML.	T1	1	Chalk ,Talk
		1.1.9	Division and Spanning, HTML5.0	T1	1	Chalk ,Talk



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		1.2.1	CSS: Levels of Style sheets, Style specification formats.	T1	1	Chalk ,Talk
		1.2.2	Selector forms	T1	1	Chalk ,Talk
		1.2.3	CSS Colors and Backgrounds and CSS Text and Font Properties,	T1	2	Chalk ,Talk
		1.2.4	The Box Model, CSS Margins, Padding, and Borders	T1	1	Web Resources
		1.2.5	Conflict Resolution	T1	1	PPT
Revision of HTML & CSS				T1	1	talk,ppt
Total					18	
UNIT-II Client Side Scripting using Java Script and DOM						
II	CO2: Create dynamic web pages using DHTML and java script that is easy to navigate and use (K3).	2.1.1	Java Script: The Basics of Java Script,	T2	1	Chalk ,talk
		2.1.2	Objects in Java Script	T2	1	Chalk ,talk
		2.1.3	Primitive operations and Expressions,	T2	1	Chalk , talk
		2.1.4	Screen output and keyboard input,.	T2	2	Chalk ,talk,PPT
		2.1.5	Control statements in Java Script	T2	1	Web Resources
		2.1.6	Object Creation and modification,	T2	1	Web Resources
		2.1.7	Arrays in Java Script	T2	1	Chalk ,talk, PPT
		2.1.8	Functions and Constructors in Java Script	T2	1	PPT
		2.1.9	Pattern matching using Regular Expressions in Java Script	T2	1	Web Resources
		2.2.1	DHTML: Positioning moving in and	T2	1	Chalk ,talk
		2.2.2	Changing Elements in DHTML	T2	2	Web Resources
		2.3.1	DOM: Introduction to the Document Object Model DOM, HTML DOM	T2	1	Web Resources
		2.3.2	Event Handling- Modifying Element Style,	T2	1	PPT
		2.3.3	Document Tree, DOM Event Handling	T2	2	Chalk ,talk, PPT
Revision of Java Script and DOM				T2	1	talk,ppt
Total					18	



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UNIT-III: Introduction to AngularJS

III	CO3: Create web pages using AngularJS (K3).	3.1.1	Introduction to AngularJS	T2	1	Chalk ,talk
		3.1.2	Expressions in AngularJS.	T2	2	Chalk ,talk, PPt
		3.1.3	Modules in AngularJS.	T2	2	Web Resources
		3.1.4	DataBinding in AngularJS.	T2	1	NPTEL video
		3.1.5	Scopes in AngularJS.	T2	1	PPT
		3.1.6	Directives in AngularJS.	T2	1	PPT
		3.1.7	Event in AngularJS.s, Controller Services.	T2	2	Web Resources
		3.1.8	HTTP, Tables,	T2	2	Chalk ,talk
		3.1.9	Select, Fetching Data from MySQL	T2	2	Chalk ,talk
Total					14	

UNIT-IV: JDBC

IV	CO4: Build web applications using Servlets, JSP (K3).	4.1.1	Servlet programming	T2	1	PPT
		4.1.2	Java Server Pages (JSP),	T2	2	Web Resources
		4.1.3	JDBC with Servlets	T2	2	Chalk ,talk
		4.1.4	JDBC with and JSP,	T2	2	PPT
		4.1.5	Remote Method Invocation (RMI),	T2	2	Chalk ,talk
		4.2.1	CORBA Architecture.	T2	2	Web Resources
		Revision of Use JDBC with Servlets and JSP				T2
Total					13	

UNIT-V: Introduction to Mongo DB

V	CO5: Understand various operations on MongoDB (K2).	5.1.1	Introduction to MongoDB.	T3	1	Web Resources
		5.1.2	MongoDB Environment.	T3	1	WebResou rces,Chalk
		5.1.3	Create a Database in MongoDB.	T3	1	Chalk ,talk
		5.2.1	Drop Database in MongoDB.	T3	2	PPT
		5.2.2	Create a Collection in MongoDB.	T3	2	Web Resources
		5.2.3	Drop Collection in MongoDB.	T3	1	Chalk ,talk



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	5.3.1	Read Operations in MongoDB.	T3	2	Web Resources
	5.3.2	Write Operations in MongoDB.	T3	2	Chalk ,talk, ppt
Revision of MongoDB operations				1	PPT
Total				13	
CUMULATIVE PROPOSED PERIODS				76	

Text Books:

S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Jennifer Kyrmin (Author), Laura Lemay (Author), Rafe Colburn (Author), Mastering Html, Css Javascript Web Publishing Paperback – 15 July 2016.
2	Michael M. G. (Mike) Silva (Author), Full Stack AngularJS for Java Developers: Build a Full-Featured Web Application from Scratch Using AngularJS with Spring RESTful-2015
3	Authors: MANU SHARMA, Full Stack Development with MongoDB ISBN: 9789355510143 eISBN: 9789355510150-2022

Reference Books:

S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Chris Northwood (Author), The Full Stack Developer: Your Essential Guide to the Everyday Skills Expected of a Modern Full Stack Web Developer Paperback – Import, 20 November 2018.
2	Author Vinci R, AngularJS Web Application Development Blueprints, Published by Packt Publishing Ltd-2015.

Web Details:

1	https://www.shiksha.com/online-courses/web-development-courses-certification-training-by-nptel-st644
2	https://www.w3schools.com/html/default.asp
3	https://www.freecodecamp.org/news/html-css-and-javascript-explained-for-beginners/

	Name	Signature with Date
i.	Faculty	CH.Chandrika Surya
ii.	Course Coordinator	Dr. G. Sudhakar
iii.	Module Coordinator	K. Jai Prakash
iv.	Programme Coordinator	Dr. B. Ramakrishna


Principal