

# SCRIPTING USING ANGULAR JS

## PROGRAM HIGHLIGHTS

- > Basic concept of Java script
- > Basics of angular JS and Model View Controller
- > Filters and Models.
- > Custom directives.
- > JS in forms.

Instantly & Dynamically, Create & Update your Web Sites

2022 –  
2023

Rs. 750

40 hrs

*Objectives: To create dynamic and flexible websites*

*Don't miss it.*



DEPARTMENT OF COMPUTER SCIENCE  
FATIMA COLLEGE (AUTONOMOUS), MADURAI,

**M.Sc. Computer Science**

**VALUE -ADDED COURSE**

*For those who joined in 2021 onwards*

| <b>PROGRAMME CODE</b> | <b>COURSE CODE</b> | <b>COURSE TITLE</b>        | <b>CATEGORY</b> | <b>HRS</b> | <b>CREDITS</b> |
|-----------------------|--------------------|----------------------------|-----------------|------------|----------------|
| PSCS                  | 21PADAJ            | SCRIPTING USING ANGULAR JS | LECTURE         | 40         | 4              |

**COURSE DESCRIPTION**

To understand the concept of design and implementation of angular JS in developing web pages

**COURSE OBJECTIVES**

- To understand the basic concept of Java script
- To understand basics of angular JS and Model View Controller
- To understand the Filters and Models.
- To create custom directives.
- To implement JS in forms.

**UNIT I: INTRODUCTION TO JAVA SCRIPT**

Including Scripts on a Page, Statements, Functions, Types and Variables, JavaScript Operators, Working with Objects, Enumerating Properties, Control Flow, Conditional Statements, Working with Arrays, Enumerating and Modifying Array Values.

**UNIT II: THE BASICS OF ANGULARJS AND MVC**

Basics of AngularJS : Frameworks, Downloading and Installing Angular JS, Browser Support, First AngularJS Application, Directives and Expressions, Introduction to MVC: Design Patterns, Model View Controller.

**UNIT III: FILTERS AND MODULES**

Introduction to Filters, Built-in Filters, AngularJS Modules, Bootstrapping AngularJS, Creating a Custom Filter

## **UNIT IV: DIRECTIVES**

The Basics of Directives, Using Directives, Built-in Directives, Event-Handling Directives, Using the API Documentation, Creating a Custom Directive

## **UNIT V; WORKING WITH FORMS**

HTML Forms Overview, The form Element, The input Element, AngularJS Forms.

### **TEXT BOOKS**

1. Beginning of Angular JS, Andrew Grant, Apress publishing

UNIT I : Chapter 1

UNIT II: Chapter 2,3

UNIT III: Chapter 4

UNIT IV : Chapter 5

UNIT V: Chapter 6

### **REFERENCES:**

1. Learning Angular , Pablo Deeleman, Christoffer Noring, , Publisher(s): Packt Publishing. ISBN: 9781787124929., 2017.
2. AngularJS, Brad Green and Shyam Seshadri, published by O'Reilly 2013

### **Digital Open Educational Resources (DOER)**

1. <https://www.w3schools.com/angular/>
2. <https://www.tutorialspoint.com/angularjs/index.htm>
3. <https://youtu.be/k5E2AVpwsko>

|                | C1      | C2      | C3      | C4         | C5      | Total Scholastic Marks | Non Scholastic Marks C6 | CIA Total | % of Assessment |
|----------------|---------|---------|---------|------------|---------|------------------------|-------------------------|-----------|-----------------|
| Levels         | T1      | T2      | Seminar | Assignment | OBT/PPT |                        |                         |           |                 |
|                | 10 Mks. | 10 Mks. | 5 Mks.  | 5 Mks      | 5 Mks   | 35 Mks.                | 5 Mks.                  | 40M ks.   |                 |
| K2             | 4       | 4       | -       | -          | -       | 8                      | -                       | 8         | 20 %            |
| K3             | 2       | 2       | -       | 5          | -       | 9                      | -                       | 9         | 22.5 %          |
| K4             | 2       | 2       | -       | -          | 5       | 9                      | -                       | 9         | 22.5 %          |
| K5             | 2       | 2       | 5       | -          | -       | 9                      | -                       | 9         | 22.5 %          |
| Non Scholastic | -       | -       | -       | -          | -       |                        | 5                       | 5         | 12.5 %          |
| Total          | 10      | 10      | 5       | 5          | 5       | 35                     | 5                       | 40        | 100 %           |

| CIA            |    |
|----------------|----|
| Scholastic     | 35 |
| Non Scholastic | 5  |
|                | 40 |

✓ The levels of CIA Assessment based on Revised Bloom's Taxonomy are:

K1- Remember, K2-Understand, K3-Apply, K4-Analyse, K5-Synthesis

#### EVALUATION PATTERN

|    | SCHOLASTIC |    |    |    | NON - SCHOLASTIC | MARKS |     |       |
|----|------------|----|----|----|------------------|-------|-----|-------|
| C1 | C2         | C3 | C4 | C5 | C6               | CIA   | ESE | Total |
| 10 | 10         | 5  | 5  | 5  | 5                | 40    | 60  | 100   |

### COURSE OUTCOMES (CO)

On the successful completion of the course, students will be able to

| NO.  | COURSE OUTCOMES                                                         | KNOWLEDGE LEVEL<br>(ACCORDING TO REVISED BLOOM'S TAXONOMY) | PSOs ADDRESSED | POs ADDRESSED |
|------|-------------------------------------------------------------------------|------------------------------------------------------------|----------------|---------------|
| CO 1 | Explain the concept of Java Scripts                                     | K1                                                         | PSO1& PSO2     | PO1           |
| CO 2 | Design web page by using basic concept of Angular JS.                   | K1,,K2                                                     | PSO3& PSO4     | PO4           |
| CO 3 | Design and validate web page by using filters and modules in angular JS | K1, K3,,K4                                                 | PSO7           | PO4           |
| CO 4 | Implement directives of angular JS while designing web page             | K3, K4                                                     | PSO5           | PO3           |
| CO 5 | Create forms using angular JS elements while creating web page.         | K1,K2                                                      | PSO6           | PO3           |

### Mapping COs Consistency with PSOs

| CO/<br>PSO | PS<br>O1 | PSO<br>2 | PSO<br>3 | PSO<br>4 | PSO<br>5 | PSO<br>6 | PSO<br>7 |
|------------|----------|----------|----------|----------|----------|----------|----------|
| CO1        | 1        | 3        | 1        | 1        | 1        | 2        | 2        |
| CO2        | 1        | 1        | 3        | 3        | 1        | 2        | 2        |
| CO3        | 2        | 2        | 2        | 2        | 3        | 2        | 2        |
| CO4        | 2        | 2        | 2        | 2        | 1        | 3        | 1        |
| CO5        | 2        | 2        | 2        | 2        | 1        | 1        | 3        |

**Note:** ♦ Strongly Correlated – 3

♦ Moderately Correlated – 2

♦ Weakly Correlated -1

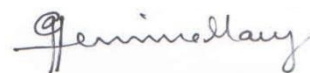
### Mapping of COs with POs

| CO/<br>PSO | PO1 | PO2 | PO3 | PO4 |
|------------|-----|-----|-----|-----|
| CO1        | 3   | 2   | 2   | 2   |
| CO2        | 2   | 2   | 1   | 3   |
| CO3        | 2   | 2   | 1   | 3   |
| CO4        | 2   | 2   | 3   | 1   |
| CO5        | 2   | 2   | 3   | 1   |

**COURSE DESIGNER:**

**Dr.P.Meenakshi Sundari**

**Forwarded By**



**(Dr.G.Germine Mary)**

**HOD'S Signature & Name**



| S.No | Register Number | Name                    | 15.12.22 | 16.12.22 | 19.12.22 | 20.12.22 | 21.12.22 | 4.1.23 | 5.1.23 | 9.1.23 | 10.1.23 | 19.1.23 | 20.1.23 | 23.1.23 | 26.1.23 | 6.2.23 | 7.2.23 | 8.2.23 | 14.2.23 | 16.2.23 | 20.2.23 | 21.2.23 | 23.2.23 | 27.2.23 |
|------|-----------------|-------------------------|----------|----------|----------|----------|----------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 1.   | 2022MSCB01      | Angeeshwari R           | /        | /        | /        | /        | /        | /      | /      | a      | a       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB02      | Anupriya B              | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB03      | Arackia Eugina Baptista | a        | /        | /        | /        | /        | a      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | a       | /       | /       | /       |
|      | 2022MSCB04      | Arackia Leticia F       | /        | /        | /        | /        | /        | /      | /      | /      | a       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB05      | Dhanalakshmi A          | /        | /        | /        | /        | /        | /      | a      | /      | /       | /       | /       | /       | /       | a      | a      | a      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB06      | Dharshini K             | a        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | a       | /       | /       |
|      | 2022MSCB07      | Divya Shree R           | /        | /        | /        | /        | /        | /      | /      | a      | /       | a       | /       | /       | /       | /      | /      | /      | /       | a       | /       | /       | /       | /       |
|      | 2022MSCB08      | Divya S                 | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB09      | Gayathri Shree R        | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | a       | /       | /       | /       |
|      | 2022MSCB10      | Jasani A S              | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB11      | Koushigavandhini R      | /        | /        | /        | /        | /        | /      | /      | /      | /       | a       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB12      | Krishnaveni K           | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB13      | Manisankari R.V         | /        | /        | a        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB14      | Nancy M                 | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | a       | /       | /       | a      | a      | a      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB15      | Poornima M              | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | a       | /       | /       |
|      | 2022MSCB16      | Priyadarshini K         | /        | /        | /        | a        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB17      | Rexlin Fredo A          | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB18      | Rosary Nancy J          | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | a       | /       | /       | /       | /       |
|      | 2022MSCB19      | Sharnitha T             | /        | /        | /        | /        | /        | /      | a      | /      | /       | a       | /       | /       | /       | /      | /      | /      | /       | /       | a       | /       | /       | /       |
|      | 2022MSCB20      | Sneha M                 | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB21      | Sneha P                 | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB22      | Swetha B                | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | a       | /       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |
|      | 2022MSCB23      | Varshini M              | /        | /        | /        | /        | /        | /      | /      | /      | /       | /       | /       | a       | /       | /      | /      | /      | /       | /       | /       | /       | /       | /       |

85  
12/07/23

P. Meenakshi  
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