



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 2

TEACHING-LEARNING AND EVALUATION

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





Criteria2

Teaching-Learning and Evaluation

350

KeyIndicator-2.3.Teaching-Learning Process (40)

2022-2023

PARTICIPATIVE LEARNING

COMPUTER SCIENCE ENGINEERING ,AIDS and ME(CSE)

Activity	Number of Students Attended	Page No.
Value Added Course(VAC)	200	3
TOTAL STUDENTS ATTENDED	200	-



Criteria2

Teaching-Learning and Evaluation

350

KeyIndicator-2.3.Teaching-LearningProcess(40)

2022-2023

COMPUTER SCIENCE ENGINEERING, AIDS and ME (CSE)

PARTICIPATIVE LEARNING

VALUE ADDED COURSE



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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NAAC Accredited, 2(F) Status Institution by UGC



Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

10.12.2022

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with **AXIS V Creatives Pvt, Ltd** is going to organized Value Added Course for BE- II,III,IV&M.E I,II CSE,B.Tech-AI&DS II year students on “**Angular JS**” from 19.12.2022 to 24.12.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus


Resource Persons	<ol style="list-style-type: none">1. Mr.C.Vivek Project Manager, Axis V Creatives Pvt ,Ltd,Chennai2. Mr.B.Rahavan Team leader Axis V Creatives Pvt ,Ltd,Chennai
Venue1	SD LAB
Venue2	NETWORK LAB


HOD/CSE


PRINCIPAL

Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/ CSE
- Class In charges - II, III,IV-CSE II AI&DS
- II, III,IV-CSE II AI&DS Year CSE Students
- Office File
- NoticeBoard


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

Value Added Course on

“Angular JS”

SYLLABUS

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction Overview <ul style="list-style-type: none">➤ Introduction to AngularJS➤ MVC Architecture➤ Conceptual Overview➤ Setting up the Environment➤ First Application Understanding ng attributes	3	19.12.2022
2	Expressions and Data Binding <ul style="list-style-type: none">➤ Number and String Expressions➤ Object Binding and Expressions➤ Working with Arrays➤ Forgiving Behavior➤ Understanding Data binding	3	19.12.2022
3	Working with Directives <ul style="list-style-type: none">➤ Conditional Directives➤ Styles Directives➤ Mouse and Keyboard Events Directives	3	20.12.2022
4	Controllers <ul style="list-style-type: none">➤ Understanding Controllers Programming Controllers➤ & \$scope object Adding Behavior to a Scope Object➤ Passing Parameters to the Methods Having Array as members in Controller Scope➤ Nested Controllers and Scope Inheritance➤ Multiple Controllers and their scopes	3	20.12.2022
5	Filters <ul style="list-style-type: none">➤ Built-In Filters Uppercase and Lowercase Filters	3	21.12.2022



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

	<ul style="list-style-type: none">➤ Currency and Number Formatting Filters➤ OrderBy Filter		
6	Forms <ul style="list-style-type: none">➤ Using Simple Form Working with Select and Options➤ Input Validations Using CSS classes➤ Form Events➤ Custom Model update triggers➤ Custom Validation	3	21.12.2022
7	Modules <ul style="list-style-type: none">➤ Why Module? Module Loading and Dependencies➤ Recommended Setup of Application➤ Creation vs Retrieval	3	22.12.2022
8	Services <ul style="list-style-type: none">➤ Understanding Services Developing Creating Services➤ Using a Service Injecting Dependencies in a Service	5	23.12.2022
9	Ajax in AngularJS <ul style="list-style-type: none">➤ \$http Service \$q Service➤ Ajax Impl using \$http and \$q➤ Service	3	23.12.2022
10	Routing <ul style="list-style-type: none">➤ Introduction to SPA Creating HTML Templates➤ Configuring Route Provider	5	24.12.2022
11	Exam	1	24.12.2022
Total Hours		36	-


VAC Coordinator




HoD/CSE

Dr. G. Balakrishnan, M.E., Ph.D.,
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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

Value Added Course

Angular JS

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

STUDENTS PARTICIPATION LIST

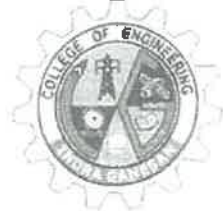
S.No.	Reg.No	Student's Name	Year/ Branch
1.	811219104001	Arun R	IV/CSE
2.	811219104002	Balamanikandaprabhu B R	IV/CSE
3.	811219104003	Bharathi S	IV/CSE
4.	811219104004	Gowtham C	IV/CSE
5.	811219104005	Indhumathi S	IV/CSE
6.	811219104006	Ishwarya P	IV/CSE
7.	811219104007	Kalaiyarsan V	IV/CSE
8.	811219104008	Keerthika K	IV/CSE
9.	811219104009	Keerthika V	IV/CSE
10.	811219104010	Krishi Gowtham R	IV/CSE
11.	811219104011	Logadipa Sp	IV/CSE
12.	811219104012	Mohamed Newsath M	IV/CSE
13.	811219104013	Moorthi C	IV/CSE
14.	811219104014	Nancy C	IV/CSE
15.	811219104016	Praveen K	IV/CSE
16.	811219104017	Ranjana S	IV/CSE
17.	811219104018	Ravinya K	IV/CSE
18.	811219104020	Saranya P	IV/CSE
19.	811219104021	Suvalakshmi P	IV/CSE
20.	811219104022	Sweatha B	IV/CSE
21.	811219104023	Vigneshwaran V	IV/CSE
22.	811219104024	Vijayalakshmi B	IV/CSE
23.	811219104025	Viney Sharmila K	IV/CSE
24.	811219104026	Yathesh M	IV/CSE
25.	811220104002	Akshaya T	III/CSE
26.	811220104004	Appas Ali D	III/CSE
27.	811220104005	Aravindh V K	III/CSE



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch
28.	811220104007	Ayisha Siddeequa A	III/CSE
29.	811220104008	Benasir S	III/CSE
30.	811220104012	Cibina S	III/CSE
31.	811220104013	Devi K	III/CSE
32.	811220104014	Divyadharshini A	III/CSE
33.	811220104015	Divyakeerthan P	III/CSE
34.	811220104016	Gayathri P	III/CSE
35.	811220104017	Gnanaprakasam A	III/CSE
36.	811220104018	Gowrisankar G	III/CSE
37.	811220104019	Hariharan K	III/CSE
38.	811220104024	Kamali A	III/CSE
39.	811220104025	Kamatchi S	III/CSE
40.	811220104027	Kiruthika M	III/CSE
41.	811220104029	Mathavan N	III/CSE
42.	811220104031	Monisha R	III/CSE
43.	811220104032	Priya P	III/CSE
44.	811220104033	Priyadharshini G	III/CSE
45.	811220104039	Sathyapriya N	III/CSE
46.	811220104041	Sivaranjani M	III/CSE
47.	811220104043	Sneka R	III/CSE
48.	811220104046	Sumithira R	III/CSE
49.	811220104048	Swarnambigai V	III/CSE
50.	811220104050	Thirumavalavan K	III/CSE
51.	811220104051	Vinith Roshan A	III/CSE
52.	811220104052	Yuvaraj M	III/CSE
53.	811220104053	Yuva Sri S	III/CSE
54.	811220104301	Santhosh Kumar S	III/CSE
55.	811221104001	Akshay K	II/CSE
56.	811221104002	Bharathkumar S M	II/CSE
57.	811221104004	Dhinesh C	II/CSE
58.	811221104005	Eyarkai Kamali R	II/CSE
59.	811221104006	Gokulnath P R	II/CSE

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Academic Year 2022-2023 – Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch
60.	811221104007	Hariharaswamy M	II/CSE
61.	811221104008	Harish R	II/CSE
62.	811221104009	Harrish M	II/CSE
63.	811221104011	Hema T	II/CSE
64.	811221104012	Jacop Antony L	II/CSE
65.	811221104013	Jeevanantham S	II/CSE
66.	811221104014	Kathirvel K	II/CSE
67.	811221104015	Keerthana J	II/CSE
68.	811221104018	Manikandan N	II/CSE
69.	811221104020	Mohamed Thoufik U	II/CSE
70.	811221104023	Naveenkumar S	II/CSE
71.	811221104024	Nithya A	II/CSE
72.	811221104025	Poornima C	II/CSE
73.	811221104026	Prasanna Balaji C	II/CSE
74.	811221104028	Rajapushpam V	II/CSE
75.	811221104029	Reethika R	II/CSE
76.	811221104030	Resika A V R	II/CSE
77.	811221104031	Santhosh P	II/CSE
78.	811221104032	Saravanaperumal S	II/CSE
79.	811221104034	Selvalakshmi G	II/CSE
80.	811221104035	Sivakumar P	II/CSE
81.	811221104036	Sudhakaran V	II/CSE
82.	811221104037	Sugavaneshwaran S	II/CSE
83.	811221104038	Sumaiya Begam S	II/CSE
84.	811221104040	Suruthi Y	II/CSE
85.	811221104041	Surya D	II/CSE
86.	811221104043	Syed Anwar S	II/CSE
87.	811221104045	Vasanthavel S	II/CSE
88.	811221104046	Vengadeswari M	II/CSE
89.	811221104048	Vishwa S	II/CSE
90.	811221104049	Yogapriya N	II/CSE
91.	811222405001	Goathar Fathima S	I/ME CSE

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Academic Year 2022-2023 – Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch
92.	811221405001	Madhumathi K	I/ME CSE
93.	811221405002	Vinitha Devi P	I/ME CSE
94.	811221243002	Abdur Rahman J	II/ AI&DS
95.	811221243004	Arun Kumar M	II/ AI&DS
96.	811221243006	Bharath Kumar R	II/ AI&DS
97.	811221243009	Dharani R	II/ AI&DS
98.	811221243013	Javahar Nisha B	II/ AI&DS
99.	811221243025	Mohamed Fahadh A	II/ AI&DS
100.	811221243032	Rakesh S	II/ AI&DS


VAC Coordinator

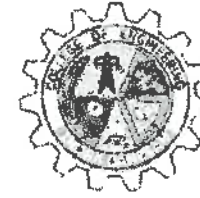


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HoD/CSE



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COLLEGE OF ENGINEERING
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(Handwritten signature)

Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

STUDENTS ATTENDANCE LIST

Value Added Course

Angular JS

Dr. G. Balakrishnan, M.E., Ph.D.,
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 Indra Ganesan College of Engineering
 IG Valley, Madurai Main Road
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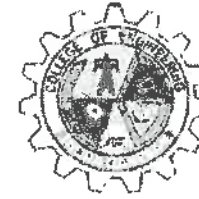
S.No.	Reg.No	Student's Name	Year/ Branch	12.06.23		13.06.23		14.06.23		15.06.23		16.06.23		17.03.23		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1.	811219104001	Arun R	IV/CSE	/	/	✓	✓	/	/	P	P	✓	/	✓	✓	12	<i>(Signature)</i>
2.	811219104002	Balamanikandaprabhu B R	IV/CSE	/	/	✓	✓	/	/	P	P	✓	/	✓	✓	12	<i>(Signature)</i>
3.	811219104003	Bharathi S	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	<i>(Signature)</i>
4.	811219104004	Gowtham C	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	<i>(Signature)</i>
5.	811219104005	Indhumathi S	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	<i>(Signature)</i>
6.	811219104006	Ishwarya P	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	<i>(Signature)</i>
7.	811219104007	Kalaiyarsan V	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	<i>(Signature)</i>
8.	811219104008	Keerthika K	IV/CSE	/	/	✓	✓	/	/	A	A	/	/	✓	✓	10	<i>(Signature)</i>
9.	811219104009	Keerthika V	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	<i>(Signature)</i>
				/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	<i>(Signature)</i>



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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

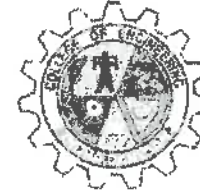
10.	811219104010	Krishi Gowtham R	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Krishi Gowtham R
11.	811219104011	Logadipa Sp	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Logadipa Sp
12.	811219104012	Mohamed Newsath M	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Mohamed Newsath M
13.	811219104013	Moorthi C	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Moorthi C
14.	811219104014	Nancy C	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Nancy C
15.	811219104016	Praveen K	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Praveen K
16.	811219104017	Ranjana S	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Ranjana S
17.	811219104018	Ravinya K	IV/CSE	/	/	A	✓	/	/	P	P	/	/	✓	✓	11	Ravinya K
18.	811219104020	Saranya P	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Saranya P
19.	811219104021	Suvalakshmi P	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Suvalakshmi P
20.	811219104022	Sweatha B	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Sweatha B
21.	811219104023	Vigneshwaran V	IV/CSE	A	A	✓	✓	/	/	P	P	/	/	✓	✓	10	Vigneshwaran V
22.	811219104024	Vijayalakshmi B	IV/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Vijayalakshmi B



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

23.	811219104025	Vincy Sharmila K	IV/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	Vincy
24.	811219104026	Yathesh M	IV/CSE	1	1	✓	✓	1	1	P	P	1	1	A	A	10	Yathesh M
25.	811220104002	Akshaya T	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	T. Akshaya
26.	811220104004	Appas Ali D	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	D. Appas Ali
27.	811220104005	Aravindh V K	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	V.K. Aravindh
28.	811220104007	Ayisha Siddeequa A	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	A. Ayisha
29.	811220104008	Benasir S	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	S. Benasir
30.	811220104012	Cibina S	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	S. Cibina
31.	811220104013	Devi K	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	K. Devi
32.	811220104014	Divyadharshini A	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	A. Divyadharshini
33.	811220104015	Divyakeerthan P	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	P. Divyakeerthan
34.	811220104016	Gayathri P	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	P. Gayathri
35.	811220104017	Gnanaprakasam A	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	A. Gnanaprakasam
36.	811220104018	Gowrisankar G	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	G. Gowrisankar



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(Signature)

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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

37.	811220104019	Hariharan K	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	K. Hariharan
38.	811220104024	Kamali A	III/CSE	1	1	✓	✓	1	1	P	P	A	A	✓	✓	10	Kamali A
39.	811220104025	Kamatchi S	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	Kamatchi S
40.	811220104027	Kiruthika M	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	M. Kiruthika
41.	811220104029	Mathavan N	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	N. Mathavan
42.	811220104031	Monisha R	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	R. Monisha
43.	811220104032	Priya P	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	Priya P
44.	811220104033	Priyadharshini G	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	Priyadharshini G
45.	811220104039	Sathyapriya N	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	Sathyapriya N
46.	811220104041	Sivaranjani M	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	M. Sivaranjani
47.	811220104043	Sneka R	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	R. Sneka
48.	811220104046	Sumithira R	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	Sumithira R
49.	811220104048	Swarnambigai V	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	Swarnambigai V
50.	811220104050	Thirumavalavan K	III/CSE	1	1	✓	✓	1	1	P	P	1	1	✓	✓	12	K. Thirumavalavan



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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

51.	811220104051	Vinith Roshan A	III/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Vinith
52.	811220104052	Yuvaraj M	III/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Yuvaraj M
53.	811220104053	Yuva Sri S	III/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Yuva Sri S
54.	811220104301	Santhosh Kumar S	III/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Santhosh Kumar S
55.	811221104001	Akshay K	II/CSE	/	/	✓	✓	/	/	A	A	/	/	✓	✓	10	Akshay K
56.	811221104002	Bharathkumar S M	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Bharathkumar S M
57.	811221104004	Dhinesh C	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Dhinesh C
58.	811221104005	Eyarkai Kamali R	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Eyarkai Kamali R
59.	811221104006	Gokulnath P R	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Gokulnath P R
60.	811221104007	Hariharaswamy M	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Hariharaswamy M
61.	811221104008	Harish R	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Harish R
62.	811221104009	Harrish M	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Harrish M
63.	811221104011	Hema T	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Hema T
64.	811221104012	Jacop Antony L	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Jacop Antony L



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

65.	811221104013	Jeevanantham S	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Jeevanantham
66.	811221104014	Kathirvel K	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Kathirvel K
67.	811221104015	Keerthana J	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	J. Keerthana
68.	811221104018	Manikandan N	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	N. Manikandan
69.	811221104020	Mohamed Thoufik U	II/CSE	/	/	✓	✓	/	/	P	P	/	/	A	A	10	M. Thoufik U
70.	811221104023	Naveenkumar S	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Naveenkumar
71.	811221104024	Nithya A	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Nithya A
72.	811221104025	Poornima C	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	C. Poornima
73.	811221104026	Prasanna Balaji C	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	C. Prasanna Balaji
74.	811221104028	Rajapushpam V	II/CSE	/	/	✓	✓	/	/	P	P	A	/	✓	✓	11	V. Rajapushpam
75.	811221104029	Reethika R	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	R. Reethika
76.	811221104030	Resika A V R.	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	R. Resika A V R.
77.	811221104031	Santhosh P	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	P. Santhosh
78.	811221104032	Saravanaperumal S	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Saravanaperumal



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Academic Year 2022-2023 –Odd Semester

79.	811221104034	Selvalakshmi G	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Selvalakshmi
80.	811221104035	Sivakumar P	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	P. Sivakumar
81.	811221104036	Sudhakaran V	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	V. Sudhakaran
82.	811221104037	Sugavaneshwaran S	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Sugavaneshwaran
83.	811221104038	Sumaiya Begam S	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Sumaiya Begam
84.	811221104040	Suruthi Y	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Y. Suruthi
85.	811221104041	Surya D	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	11	D. Surya
86.	811221104043	Syed Anwar S	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Anwar
87.	811221104045	Vasanthavel S	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Vasanthavel
88.	811221104046	Vengadeswari M	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	M. Vengadeswari
89.	811221104048	Vishwa S	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Vishwa
90.	811221104049	Yogapriya N	II/CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	N. Yogapriya
91.	811222405001	Goathar Fathima S	I/ME CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	S. Goathar



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92.	811221405001	Madhumathi K	II/ME CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	K.Madhu
93.	811221405002	Vinitha Devi P	II/ME CSE	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Vinitha
94.	811221243002	Abdur Rahman J	II/ AI&DS	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Abdur Rahman
95.	811221243004	Arun Kumar M	II/ AI&DS	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	M.Arun
96.	811221243006	Bharath Kumar R	II/ AI&DS	/	/	✓	✓	/	/	P	P	/	/	✓	✓	11	Bharath Kumar
97.	811221243009	Dharani R	II/ AI&DS	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Dharani
98.	811221243013	Javahar Nisha B	II/ AI&DS	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Javahar Nisha
99.	811221243025	Mohamed Fahadh A	II/ AI&DS	/	/	✓	✓	/	/	P	P	/	/	✓	✓	11	Mohamed Fahadh
100.	811221243032	Rakesh S	II/ AI&DS	/	/	✓	✓	/	/	P	P	/	/	✓	✓	12	Rakesh


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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

Name of the Student : P.R. Gokul Nath

Year/Sem: II/3

AU Register Number: 811221104006

Value Added Course on "Angular JS"

MCQ QUESTIONS (25X4 = 100 Marks)

1) Which of the following statement is correct for AngularJS?

- a) AngularJS is an HTML framework b) AngularJS is a Java framework
c) AngularJS is a JavaScript framework d) AngularJS is a SQL framework

2) On which of the Architectural pattern AngularJS is based?

- a) Observer Pattern b) Decorator pattern
c) MVC Architecture pattern d) MVVM Architectural pattern

3) Angular is perfect for?

- a) SPAs b) MPAs
c) DPAs d) CPAs

4) Which of the following directive is used to bind the application data to the HTML view in AngularJS?

- a) ng-app directive b) ng-model directive
c) ng-bind directive d) ng-init directive

5) Which of the following syntax is correct for applying multiple filters in AngularJS?

- a) {{ expression | filter1 | filter2 | ... }} b) {{ expression | filter1 | filter2 | ... }}
c) {{ expression - {filter1} - {filter2} - ... }} d) {{ {filter1} | {filter2} | ... - expression }}

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Academic Year 2022-2023 – Odd Semester

6) Which of the following is an advantage of AngularJS?

- a) AngularJS code is unit testable. b) AngularJS provides reusable components.

✓ c) AngularJS uses dependency injection and makes use of separation of concerns. d) All of the above

7) Which of the following statement is true about \$dirty flag?

- a) \$dirty flag is used to state that value has been changed
b) \$dirty flag is used to state that the form has invalid data.
c) Both of the above. d) None of the above.

8) What will be the output for the following code?

1. `<div ng-app="" ng-init="points=[1,15,19,2,40]">`
2. `<p>The output is {{ points[2] }}</p>`
3. `</div>`

- a) The output is 1 b) The output is 15
c) The output is 19 d) The output is 2

9) What is the use of Angular Controllers in the application?

- a) Angular controllers are used for controlling the data.
b) Angular controllers are used for displaying the data.
c) Both of the above are correct. d) None of the above is correct.

10) Which of the following syntax is used to create a module in AngularJS?

- a) `Var myModule= angular. Module();` b) `var myModule= new Module();`
c) `Module ("app", []);` d) none of the above

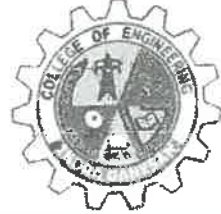

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Academic Year 2022-2023 – Odd Semester

11) Which of the following is used to share data between controller and view in AngularJS?

- a) using Model
b) using services
c) Using factory
d) using \$scope

12) Which of the following statement specifies the data-binding in AngularJS?

- a) Synchronization of data between the model and view components.
b) Synchronization of data between the model and controller components.
c) Synchronization of data between the controller and view components.
d) None of the above

13) Which of the following is not a valid AngularJS filter?

- a) lowercase
b) orderby
c) Email
d) currency

14) Who is known as the father of AngularJS?

- a) Brad Green
b) Misko Hevery
c) Adam Abrons
d) Mike Adams

15) Which of the following directive is used to bind the value of HTML controls to application data?

- a) ng-app
b) ng-init
c) ng-model
d) ng-hide

16) Which of the following community Angular JS belong to?

- a) Twitter
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c) Google
d) Microsoft

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Academic Year 2022-2023 – Odd Semester

17) How would you retrieve a list of items from a server's URL?

- a) create a URL transaction b) Use the HTTP get method
c) Create a get SQL statement d) Use an HTTP package

18) Which of the following is not built-in pipe in Angular?

- a) DatePipe b) Currency Pipe
c) Data Pipe d) Percent Pipe

19) AngularJS is perfect for?

- a) MPAs b) DPAs
c) SPAs d) CPAs

20) On which of the Architectural pattern AngularJS is based?

- a) MVC Architecture pattern b) Observer Pattern
c) Decorator pattern d) MVVM Architectural pattern

21) Which of the following statement is true about the lowercase filter?

- a) The lowercase filter is a function that takes text as input.
b) The lowercase filter converts a text to lower case text.
c) All Of above d) None of above

22) Which of the following statement is true about \$dirty flag?

- a) \$dirty flag is used to state that the form has invalid data
b) \$dirty flag is used to state that value has been changed
c) All of above d) None of above

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Academic Year 2022-2023 – Odd Semester

23) Which of the following syntax is used to create a module in AngularJS?

a) `var myModule= new Module ();` b) `var myModule= angular. Module();`

c) `module("app", []);` d) None of the above

24) Which of the following statement is true in the case of \$routeProvider?

a) It is a module. b) It is a service.

c) It is a component. d) None of the above.

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Academic Year 2022-2023 – Odd Semester

Name of the Student : *Arun Kumar . M*

Year/Sem: *II / III AKDS*

AU Register Number: *811221243004*

21

Value Added Course on "Angular JS"

MCQ QUESTIONS (25X4 = 100 Marks)

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c) `{{ expression - {filter1} - {filter2} - ... }}` d) `{{ {filter1} | {filter2} | ... expression }}`

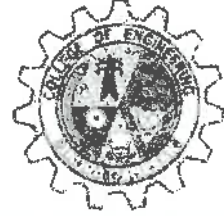
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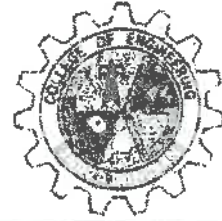

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Value Added Course

Angular JS

ANSWER KEY

1	C	6	D	11	B	16	C	21	B
2	D	7	A	12	B	17	A	22	B
3	A	8	C	13	C	18	C	23	C
4	C	9	A	14	B	19	C	24	B
5	A	10	C	15	C	20	D	25	C


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Indra Ganesan


COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

VALUE ADDED COURSE ASSESMENT SHEET

Angular JS

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1.	811219104001	Arun R	IV/CSE	36	100	20	80	90
2.	811219104002	Balamanikandaprabhu B R	IV/CSE	36	100	15	60	80
3.	811219104003	Bharathi S	IV/CSE	36	100	19	76	88
4.	811219104004	Gowtham C	IV/CSE	36	100	22	88	94
5.	811219104005	Indhumathi S	IV/CSE	36	100	18	72	86
6.	811219104006	Ishwarya P	IV/CSE	36	100	17	68	84
7.	811219104007	Kalaiyaran V	IV/CSE	30	83	18	72	77
8.	811219104008	Keerthika K	IV/CSE	36	100	17	68	84
9.	811219104009	Keerthika V	IV/CSE	36	100	16	64	82
10.	811219104010	Krishi Gowtham R	IV/CSE	36	100	16	64	82
11.	811219104011	Logadipa Sp	IV/CSE	36	100	20	80	90



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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
12.	811219104012	Mohamed Nowsath M	IV/CSE	36	100	20	80	90
13.	811219104013	Moorthi C	IV/CSE	36	100	22	88	94
14.	811219104014	Nancy C	IV/CSE	36	100	17	68	84
15.	811219104016	Praveen K	IV/CSE	36	100	19	76	88
16.	811219104017	Ranjana S	IV/CSE	36	100	19	76	88
17.	811219104018	Ravinya K	IV/CSE	33	92	20	80	86
18.	811219104020	Saranya P	IV/CSE	36	100	16	64	82
19.	811219104021	Suvalakshmi P	IV/CSE	36	100	16	64	82
20.	811219104022	Sweatha B	IV/CSE	36	100	22	88	94
21.	811219104023	Vigneshwaran V	IV/CSE	30	83	18	72	77
22.	811219104024	Vijayalakshmi B	IV/CSE	36	100	22	88	94
23.	811219104025	Vincy Sharmila K	IV/CSE	36	100	22	88	94
24.	811219104026	Yathesh M	IV/CSE	30	83	20	80	81
25.	811220104002	Akshaya T	III/CSE	36	100	19	76	88
26.	811220104004	Appas Ali D	III/CSE	36	100	20	80	90
27.	811220104005	Aravindh V K	III/CSE	36	100	16	64	82




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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

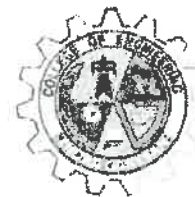
S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
28.	811220104007	Ayisha Siddeequa A	III/CSE	36	100	16	64	82
29.	811220104008	Benasir S	III/CSE	36	100	22	88	94
30.	811220104012	Cibina S	III/CSE	36	100	18	72	86
31.	811220104013	Devi K	III/CSE	36	100	22	88	94
32.	811220104014	Divyadharshini A	III/CSE	36	100	22	88	94
33.	811220104015	Divyakeerthan P	III/CSE	36	100	20	80	90
34.	811220104016	Gayathri P	III/CSE	36	100	20	80	90
35.	811220104017	Gnanaprakasam A	III/CSE	36	100	22	88	94
36.	811220104018	Gowrisankar G	III/CSE	36	100	20	80	90
37.	811220104019	Hariharan K	III/CSE	36	100	20	80	90
38.	811220104024	Kamali A	III/CSE	30	83	22	88	85
39.	811220104025	Kamatchi S	III/CSE	36	100	20	80	90
40.	811220104027	Kiruthika M	III/CSE	36	100	20	80	90
41.	811220104029	Mathavan N	III/CSE	36	100	22	88	94
42.	811220104031	Monisha R	III/CSE	36	100	20	80	90
43.	811220104032	Priya P	III/CSE	36	100	20	80	90



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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
44.	811220104033	Priyadharshini G	III/CSE	36	100	20	80	90
45.	811220104039	Sathyapriya N	III/CSE	36	100	22	88	94
46.	811220104041	Sivaranjani M	III/CSE	36	100	20	80	90
47.	811220104043	Sneka R	III/CSE	36	100	20	80	90
48.	811220104046	Sumithira R	III/CSE	36	100	22	88	94
49.	811220104048	Swarnambigai V	III/CSE	36	100	20	80	90
50.	811220104050	Thirumavalavan K	III/CSE	36	100	20	80	90
51.	811220104051	Vinith Roshan A	III/CSE	36	100	22	88	94
52.	811220104052	Yuvaraj M	III/CSE	36	100	20	80	90
53.	811220104053	Yuva Sri S	III/CSE	36	100	20	80	90
54.	811220104301	Santhosh Kumar S	III/CSE	36	100	20	80	90
55.	811221104001	Akshay K	II/CSE	30	83	22	88	85
56.	811221104002	Bharathkumar S M	II/CSE	36	100	20	80	90
57.	811221104004	Dhinesh C	II/CSE	36	100	20	80	90
58.	811221104005	Eyarkai Kamali R	II/CSE	36	100	22	88	94
59.	811221104006	Gokulnath P R	II/CSE	36	100	22	88	94



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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
60.	811221104007	Hariharaswamy M	II/CSE	36	100	20	80	90
61.	811221104008	Harish R	II/CSE	36	100	20	80	90
62.	811221104009	Harrish M	II/CSE	36	100	20	80	90
63.	811221104011	Hema T	II/CSE	36	100	22	88	94
64.	811221104012	Jacop Antony L	II/CSE	36	100	20	80	90
65.	811221104013	Jeevanantham S	II/CSE	36	100	20	80	90
66.	811221104014	Kathirvel K	II/CSE	36	100	22	88	94
67.	811221104015	Keerthana J	II/CSE	36	100	20	80	90
68.	811221104018	Manikandan N	II/CSE	36	100	20	80	90
69.	811221104020	Mohamed Thoufik U	II/CSE	30	83	22	88	85
70.	811221104023	Naveenkumar S	II/CSE	36	100	20	80	90
71.	811221104024	Nithya A	II/CSE	36	100	20	80	90
72.	811221104025	Poornima C	II/CSE	36	100	20	80	90
73.	811221104026	Prasanna Balaji C	II/CSE	36	100	22	88	94
74.	811221104028	Rajapushpam V	II/CSE	33	92	20	80	86
75.	811221104029	Reethika R	II/CSE	36	100	20	80	90



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(Signature)

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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
76.	811221104030	Resika A V R	II/CSE	36	100	22	88	94
77.	811221104031	Santhosh P	II/CSE	36	100	20	80	90
78.	811221104032	Saravanaperumal S	II/CSE	36	100	20	80	90
79.	811221104034	Selvalakshmi G	II/CSE	36	100	22	88	94
80.	811221104035	Sivakumar P	II/CSE	36	100	20	80	90
81.	811221104036	Sudhakaran V	II/CSE	36	100	20	80	90
82.	811221104037	Sugavaneshwaran S	II/CSE	36	100	20	80	90
83.	811221104038	Sumaiya Begam S	II/CSE	36	100	22	88	94
84.	811221104040	Suruthi Y	II/CSE	36	100	20	80	90
85.	811221104041	Surya D	II/CSE	33	92	20	80	86
86.	811221104043	Syed Anwar S	II/CSE	36	100	22	88	94
87.	811221104045	Vasanthavel S	II/CSE	36	100	20	80	90
88.	811221104046	Vengadeswari M	II/CSE	36	100	20	80	90
89.	811221104048	Vishwa S	II/CSE	36	100	22	88	94
90.	811221104049	Yogapriya N	II/CSE	36	100	20	80	90
91.	811222405001	Goathar Fathima S	I/ME CSE	36	100	20	80	90



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Department of Computer Science & Engineering

Academic Year 2022-2023 –Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
92.	811221405001	Madhuriathi K	II/ME CSE	36	100	20	80	90
93.	811221405002	Vinitha Devi P	II/ME CSE	36	100	22	88	94
94.	811221243002	Abdur Rahman J	II/ AI&DS	36	100	20	80	90
95.	811221243004	Arun Kumar M	II/AI&DS	36	100	21	84	92
96.	811221243006	Bharath Kumar R	II/AI&DS	33	92	22	88	90
97.	811221243009	Dharani R	II/ AI&DS	36	100	20	80	90
98.	811221243013	Javahar Nisha B	II/ AI&DS	36	100	20	80	90
99.	811221243025	Mohamed Fahadh A	II/ AI&DS	33	92	22	88	90
100.	811221243032	Rakesh S	II/ AI&DS	36	100	20	80	90

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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HoD/CSE



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

Report on Value Added Course

Title:	Angular JS				
Resource Person:	Mr.C.Vivek Project Manager, Axis V Creatives Pvt Ltd,Chennai	Mr.B.Rahavan Team leader Axis V Creatives Pvt Ltd,Chennai			
Date of conduct from :	19.12.2022	To:	24.12.2022	Duration:	36 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	B.E-II,III & IV- Year /CSE I,II ME,B.Tech-II AI&DS	No. of Students Registered :	100		
Venue:	SD LAB,NETWORKLAB				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
<ul style="list-style-type: none">• Know the fundamentals of Angular JS and its architecture .• Discuss Module, controllers, Events• Apply inbuilt and custom pipes• Develop object-oriented Ruby programs using classes and objects• Design forms and Modules in React JS• Explain Services, Animations, Routing .					
Assessment Process					
<ul style="list-style-type: none">• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)					
 VAC Coordinator		 HoD/CSE		 Principal	

Dr. G. Balakrishnan, M.E., Ph.D.,
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Department of Computer Science & Engineering

Academic Year 2022-2023 – Odd Semester

Report on Value Added Course

Title: **Angular JS**

Resource Person: **Mr.C.Vivek**
Project Manager,
Axis V Creatives Pvt
Ltd,Chennai

Mr.B.Rahavan
Team leader
Axis V Creatives Pvt
Ltd,Chennai

Date of conduct from : **19.12.2022** To: **24.12.2022** Duration: **36 Hours**

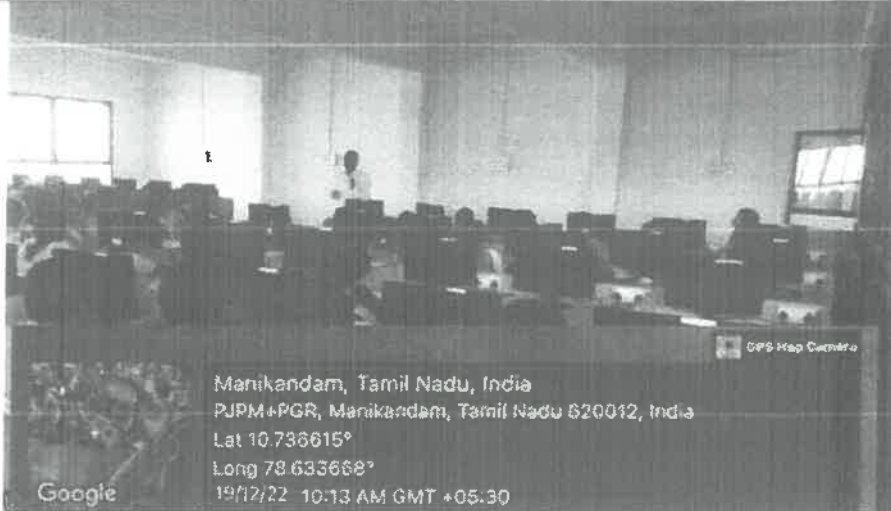
Organized Department : **COMPUTER SCIENCE AND ENGINEERING**

Participant Year: **B.E-II,III & IV- Year /CSE**
I,II ME,B.Tech-II AI&DS

No. of Students Registered : **100**

Venue: **SD LAB,NETWORKLAB**

Sample Photo



A.S.
VAC Coordinator

D. Prudh
HoD/CSE

V. Prudh
Principal

(Signature)

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Saranya P**

..... **IV YEAR CSE** has successfully completed the Value Added Course on
“Angular JS” organized by Department of Computer Science and Engineering and IQAC of our
Institution in Association with **AXIS V Creatives Pvt, Ltd** from 19th December 2022 to December
2022 (6days) during the Academic year 2022-2023.

Mr. C. Vivek,
Project Manager,
AXIS V Creatives Pvt, Ltd

PRINCIPAL



Indra Ganesan
COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Rakesh S**

..... **III YEAR AI&DS** has successfully completed the Value Added Course on
"Angular JS" organized by Department of Computer Science and Engineering and IQAC of our
Institution in Association with **AXIS V Creatives Pvt, Ltd** from 19th December 2022 to December
2022 (6days) during the Academic year 2022-2023.

Mr. C. Vivek,
Project Manager,
AXIS V Creatives Pvt, Ltd

PRINCIPAL



Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

09.06.2023

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with **Lift Technologies** is going to organized Value Added Course for BE- II,III,IV&M.E I,II CSE,B.Tech-AI&DS II year students on “**Ruby on Rails**” from 12.06.2023 to 17.06.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

Resource Persons	<ol style="list-style-type: none">1. Mr.V. Tamilventhan Director, Lift Technologies Trichy2. Mr.G.Ganesh Project leader Lift Technologies Trichy
Venue1	SD LAB
Venue2	NETWORK LAB

D. G. Balakrishnan
HOD/CSE

V. S. S. S.
PRINCIPAL

Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/ CSE
- Class In charges - II, III,IV-CSE II AI&DS
- II, III,IV-CSE II AI&DS Year CSE Students
- Office File
- NoticeBoard

D. G. Balakrishnan
Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

Value Added Course on

“Ruby on Rails”

SYLLABUS

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Rub <ul style="list-style-type: none">➤ Overview➤ Installation and Setup➤ Ruby Syntax, Variables, Data Types, and Operators➤ Control Structures and Loops➤ Functions and Methods	3	12.06.2023
2	Object-Oriented Programming (OOP) with Ruby <ul style="list-style-type: none">➤ Classes and Objects➤ Inheritance and Polymorphism➤ Encapsulation and Abstraction➤ Modules and Mixins	3	12.06.2023
3	Web Development with Ruby on Rails <ul style="list-style-type: none">➤ Introduction to Ruby on Rails➤ Setting up a Rails Application➤ MVC Architecture➤ Database Integration using ActiveRecord➤ Views and Templates using ERB	3	13.06.2023
4	RVM(ruby version manager) <ul style="list-style-type: none">➤ Rvm installation➤ Rvm commands➤ Rvm Usage	3	13.06.2023
5	Working in Linux(Ubuntu) Platform <ul style="list-style-type: none">➤ Basic Linux commands➤ File/Directory Permissions➤ Changing access rights➤ Text Editors used for ROR	3	14.06.2023
6	Ruby Operators & Ruby Shell IRB – Ruby Shell	3	14.06.2023



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Academic Year 2022-2023 – Even Semester

	<ul style="list-style-type: none"> ➤ Working with Ruby operators and expressions ➤ Numeric Methods ➤ Rand and Ranges ➤ Strings, Escaping, Interpolation ➤ String methods ➤ Dates and Times 		Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.
7	Ruby Datatypes & Variables <ul style="list-style-type: none"> ➤ Ruby Datatypes ➤ Numbers, Boolean, Strings, Arrays, Hashes, Symbols. ➤ Types of Variables(Global, Instance, Class, Local, Constant, Pseudo) ➤ Difference between local & instance variables ➤ Parallel Assignment ➤ Variable conditions 	3	15.06.2023
8	Ruby methods and modules <ul style="list-style-type: none"> ➤ Basic ruby methods ➤ Return values from methods, return statements ➤ Class methods ➤ Different ways to call methods ➤ Ruby modules and Mixins ➤ Ruby require and include statement ➤ Diffence between class and module 	5	15.06.2023
9	OOP in Ruby <ul style="list-style-type: none"> ➤ OOP ➤ Class ➤ The initialize method ➤ The accessor & setter method ➤ Access Control ➤ Class Inheritance ➤ Method Overriding ➤ Operator Overloading ➤ Singleton methods ➤ Metaclass 	3	16.06.2023
10	Rails Installation and Ruby gems <ul style="list-style-type: none"> ➤ What is Rails 	5	17.06.2023



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Academic Year 2022-2023 – Even Semester

	<ul style="list-style-type: none">➤ Full tack Framework➤ Rails Strength➤ COC(convention over configuration)➤ Rails Intallation➤ Ruby and Rails installation on linux➤ Ruby Gems➤ Working with RubyGems➤ Gem commands➤ Framework Technology➤ MVC➤ Rails Components➤ How does Rails works in MVC		
11	Exam	1	17.06.2023
Total Hours		36	-

C. Indu
VAC Coordinator

D. Prudh
HoD/CSE

(Signature)

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Principal
Indra Ganesan College of Engineering
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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

Value Added Course

Ruby on Rails

STUDENTS PARTICIPATION LIST

S.No.	Reg.No	Student's Name	Year/ Branch
1.	811219104001	Arun R	IV/CSE
2.	811219104002	Balamanikandaprabhu B R	IV/CSE
3.	811219104003	Bharathi S	IV/CSE
4.	811219104004	Gowtham C	IV/CSE
5.	811219104005	Indhumathi S	IV/CSE
6.	811219104006	Ishwarya P	IV/CSE
7.	811219104007	Kalaiyaran V	IV/CSE
8.	811219104008	Keerthika K	IV/CSE
9.	811219104009	Keerthika V	IV/CSE
10.	811219104010	Krishi Gowtham R	IV/CSE
11.	811219104011	Logadipa Sp	IV/CSE
12.	811219104012	Mohamed Nowsath M	IV/CSE
13.	811219104013	Moorthi C	IV/CSE
14.	811219104014	Nancy C	IV/CSE
15.	811219104016	Praveen K	IV/CSE
16.	811219104017	Ranjana S	IV/CSE
17.	811219104018	Ravinya K	IV/CSE
18.	811219104020	Saranya P	IV/CSE
19.	811219104021	Suvalakshmi P	IV/CSE
20.	811219104022	Sweatha B	IV/CSE
21.	811219104023	Vigneshwaran V	IV/CSE
22.	811219104024	Vijayalakshmi B	IV/CSE
23.	811219104025	Vincy Sharmila K	IV/CSE
24.	811219104026	Yathesh M	IV/CSE
25.	811220104002	Akshaya T	III/CSE
26.	811220104004	Appas Ali D	III/CSE
27.	811220104005	Aravindh V K	III/CSE

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Academic Year 2022-2023 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch
28.	811220104007	Ayisha Siddeeqa A	III/CSE
29.	811220104008	Benasir S	III/CSE
30.	811220104012	Cibina S	III/CSE
31.	811220104013	Devi K	III/CSE
32.	811220104014	Divyadharshini A	III/CSE
33.	811220104015	Divyakeerthan P	III/CSE
34.	811220104016	Gayathri P	III/CSE
35.	811220104017	Gnanaprakasam A	III/CSE
36.	811220104018	Gowrisankar G	III/CSE
37.	811220104019	Hariharan K	III/CSE
38.	811220104024	Kamali A	III/CSE
39.	811220104025	Kamatchi S	III/CSE
40.	811220104027	Kiruthika M	III/CSE
41.	811220104029	Mathavan N	III/CSE
42.	811220104031	Monisha R	III/CSE
43.	811220104032	Priya P	III/CSE
44.	811220104033	Priyadharshini G	III/CSE
45.	811220104039	Sathyapriya N	III/CSE
46.	811220104041	Sivaranjani M	III/CSE
47.	811220104043	Sneka R	III/CSE
48.	811220104046	Sumithira R	III/CSE
49.	811220104048	Swarnambigai V	III/CSE
50.	811220104050	Thirumavalavan K	III/CSE
51.	811220104051	Vinith Roshan A	III/CSE
52.	811220104052	Yuvaraj M	III/CSE
53.	811220104053	Yuva Sri S	III/CSE
54.	811220104301	Santhosh Kumar S	III/CSE
55.	811221104001	Akshay K	II/CSE
56.	811221104002	Bharathkumar S M	II/CSE
57.	811221104004	Dhinesh C	II/CSE
58.	811221104005	Eyarkai Kamali R	II/CSE
59.	811221104006	Gokulnath P R	II/CSE

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Academic Year 2022-2023 – Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch
60.	811221104007	Hariharaswamy M	II/CSE
61.	811221104008	Harish R	II/CSE
62.	811221104009	Harrish M	II/CSE
63.	811221104011	Hema T	II/CSE
64.	811221104012	Jacop Antony L	II/CSE
65.	811221104013	Jeevanantham S	II/CSE
66.	811221104014	Kathirvel K	II/CSE
67.	811221104015	Keerthana J	II/CSE
68.	811221104018	Manikandan N	II/CSE
69.	811221104020	Mohamed Thoufik U	II/CSE
70.	811221104023	Naveenkumar S	II/CSE
71.	811221104024	Nithya A	II/CSE
72.	811221104025	Poornima C	II/CSE
73.	811221104026	Prasanna Balaji C	II/CSE
74.	811221104028	Rajapushpam V	II/CSE
75.	811221104029	Reethika R	II/CSE
76.	811221104030	Resika A V R	II/CSE
77.	811221104031	Santhosh P	II/CSE
78.	811221104032	Saravanaperumal S	II/CSE
79.	811221104034	Selvalakshmi G	II/CSE
80.	811221104035	Sivakumar P	II/CSE
81.	811221104036	Sudhakaran V	II/CSE
82.	811221104037	Sugavaneshwaran S	II/CSE
83.	811221104038	Sumaiya Begam S	II/CSE
84.	811221104040	Suruthi Y	II/CSE
85.	811221104041	Surya D	II/CSE
86.	811221104043	Syed Anwar S	II/CSE
87.	811221104045	Vasanthavel S	II/CSE
88.	811221104046	Vengadeswari M	II/CSE
89.	811221104048	Vishwa S	II/CSE
90.	811221104049	Yogapriya N	II/CSE
91.	811222405001	Goathar Fathima S	I/ME CSE

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S.No.	Reg.No	Student's Name	Year/ Branch
92.	811221405001	Madhumathi K	I/ME CSE
93.	811221405002	Vinitha Devi P	I/ME CSE
94.	811221243002	Abdur Rahman J	II/ AI&DS
95.	811221243004	Arun Kumar M	II/ AI&DS
96.	811221243006	Bharath Kumar R	II/ AI&DS
97.	811221243009	Dharani R	II/ AI&DS
98.	811221243013	Javahar Nisha B	II/ AI&DS
99.	811221243025	Mohamed Fahadh A	II/ AI&DS
100.	811221243032	Rakesh S	II/ AI&DS

C. T. S.

VAC Coordinator

G. B.

D. S.

HoD/CSE

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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

STUDENTS ATTENDANCE LIST

Value Added Course

Ruby on Rails


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S.No.	Reg.No	Student's Name	Year/ Branch	13.02.23		14.02.23		15.02.23		16.02.23		17.02.23		18.02.23		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1.	811219104001	Arun R	IV/CSE	P	P	P	P	P	P	P	P	A	P	P	P	11	Arun R
2.	811219104002	Balamanikandaprabhu B R	IV/CSE	P	P	P	P	P	P	A	P	P	P	P	P	11	Balmanikandaprabhu B R
3.	811219104003	Bharathi S	IV/CSE	P	P	P	A	P	P	P	P	P	P	P	P	11	Bharathi S
4.	811219104004	Gowtham C	IV/CSE	P	P	P	P	A	P	P	P	P	P	P	P	11	Gowtham C
5.	811219104005	Indhumathi S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Indhumathi S
6.	811219104006	Ishwarya P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Ishwarya P
7.	811219104007	Kalaiyarasam V	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Kalaiyarasam V



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

Sl. No.	Registration No.	Name	Branch	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	Signature
8.	811219104008	Keerthika K	IV/CSE																						
9.	811219104009	Keerthika V	IV/CSE	P	P	P	P	P	A	P	P	P	P	P	P									11	K. Keerthika
10.	811219104010	Krishi Gowtham R	IV/CSE	P	P	P	A	P	P	P	P	P	P	P	A									10	K. Jothi
11.	811219104011	Logadipa Sp	IV/CSE	P	P	P	P	A	P	P	P	P	P	P										11	Krishi Gowtham R
12.	811219104012	Mohamed Newsath M	IV/CSE	P	P	P	P	P	P	P	P	P	A	P	P									11	Logadipa Sp
13.	811219104013	Moorthi C	IV/CSE	P	P	P	P	P	P	A	P	P	P	P	P									11	M. Mohan
14.	811219104014	Nancy C	IV/CSE	P	P																			11	N. Mohan
15.	811219104016	Praveen K	IV/CSE	P	P																			11	C. Nancy
16.	811219104017	Ranjana S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	A									11	Praveen K
17.	811219104018	Ravinya K	IV/CSE	A	P	P	P	P	P	A	P	P	P	P										10	Ranjana S
18.	811219104020	Saranya P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P										12	Ravinya K
19.	811219104021	Suvalakshmi P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P										12	Saranya P
20.	811219104022	Sweatha B	IV/CSE	P	P	A	P	P	P	P	P	P	P	A	P									10	Suvalakshmi P
				P	P	P	P	P	P	P	P	P	P	P										12	Sweatha B



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34.	811220104016	Gayathri P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	10	Gayathri P
35.	811220104017	Gnanaprakasam A	III/CSE	A	P	P	P	P	P	P	P	P	P	P	P	11	A. Gnanaprakasam
36.	811220104018	Gowrisankar G	III/CSE	P	A	P	P	P	P	P	A	P	✓	P	P	10	Gowrisankar G
37.	811220104019	Hariharan K	III/CSE	P	P	P	P	A	P	A	P	P	P	✓	P	10	K. Hariharan
38.	811220104024	Kamali A	III/CSE	A	P	A	P	P	P	P	P	P	P	✓	P	10	A. Kamali
39.	811220104025	Kamatchi S	III/CSE	P	A	P	P	P	P	A	P	P	P	✓	P	10	S. Kamatchi
40.	811220104027	Kiruthika M	III/CSE	A	P	P	P	A	P	P	✓	P	P	P	P	10	M. Kiruthika
41.	811220104029	Mathavan N	III/CSE	P	P	P	P	A	P	P	P	✓	P	P	P	11	N. Mathavan
42.	811220104031	Monisha R	III/CSE	P	P	P	P	A	P	P	P	✓	P	P	P	11	R. Monisha
43.	811220104032	Priya P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	P. Priya
44.	811220104033	Priyadharshini G	III/CSE	P	P	P	P	A	P	P	P	A	P	P	P	10	G. Priyadharshini
45.	811220104039	Sathyapriya N	III/CSE	P	P	P	P	P	P	P	P	P	P	P	A	11	N. Sathyapriya
46.	811220104041	Sivaranjani M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	M. Sivaranjani



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Academic Year 2022-2023 – Even Semester

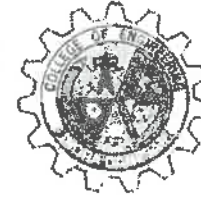
60.	811221104007	Hariharaswamy M	II/CSE	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
61.	811221104008	Harish R	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
62.	811221104009	Harrish M	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
63.	811221104011	Hema T	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
64.	811221104012	Jacop Antony L	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	<i>(Signature)</i>
65.	811221104013	Jeevanantham S	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
66.	811221104014	Kathirvel K	II/CSE	✓	✓	✓	✓	A	✓	A	✓	✓	✓	✓	✓	10	<i>(Signature)</i>
67.	811221104015	Keerthana J	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	<i>(Signature)</i>
68.	811221104018	Manikandan N	II/CSE	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	A	10	<i>(Signature)</i>
69.	811221104020	Mohamed Thoufik U	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	11	<i>(Signature)</i>
70.	811221104023	Naveenkumar S	II/CSE	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
71.	811221104024	Nithya A	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	A	✓	10	<i>(Signature)</i>
72.	811221104025	Poornima C	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	11	<i>(Signature)</i>
				✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>



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Academic Year 2022-2023 – Even Semester

73.	811221104026	Prasanna Balaji C	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	Prasanna Balaji C
74.	811221104028	Rajapushpam V	II/CSE	A	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Rajapushpam V
75.	811221104029	Reethika R	II/CSE	✓	✓	✓	✓	✓	✓	A	✓	A	✓	✓	✓	✓	✓	10	Reethika R
76.	811221104030	Resika A V R	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	Resika A V R
77.	811221104031	Santhosh P	II/CSE	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	11	Santhosh P
78.	811221104032	Saravanaperumal S	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	Saravanaperumal S
79.	811221104034	Selvalakshmi G	II/CSE	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	Selvalakshmi G
80.	811221104035	Sivakumar P	II/CSE	P	P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	Sivakumar P
81.	811221104036	Sudhakaran V	II/CSE	P	P	✓	A	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	Sudhakaran V
82.	811221104037	Sugavaneshwaran S	II/CSE	P	P	P	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Sugavaneshwaran S
83.	811221104038	Sumaiya Begam S	II/CSE	A	P	P	P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	Sumaiya Begam S
84.	811221104040	Suruthi Y	II/CSE	P	✓	A	✓	A	P	✓	P	P	✓	✓	✓	✓	✓	11	Suruthi Y
85.	811221104041	Surya D	II/CSE	P	P	P	P	P	P	P	P	P	A	P	A	P	✓	10	Surya D



(Signature)

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Academic Year 2022-2023 – Even Semester

86.	811221104043	Syed Anwar S	II/CSE	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	11	<i>(Signature)</i>
87.	811221104045	Vasanthavel S	II/CSE	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
88.	811221104046	Vengadeswari M	II/CSE	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
89.	811221104048	Vishwa S	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
90.	811221104049	Yogapriya N	II/CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	11	<i>(Signature)</i>
91.	811221243002	Abdur Rahman J	II/AI&DS	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	11	<i>(Signature)</i>
92.	811221243004	Arun Kumar M	II/AI&DS	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
93.	811221243006	Bharath Kumar R	II/AI&DS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	<i>(Signature)</i>
94.	811221243009	Dharani R	II/AI&DS	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	10	<i>(Signature)</i>
95.	811221243013	Javahar Nisha B	II/AI&DS	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	11	<i>(Signature)</i>
96.	811221243025	Mohamed Fahadh A	II/AI&DS	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	11	<i>(Signature)</i>
97.	811221243032	Rakesh S	II/AI&DS	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	10	<i>(Signature)</i>
98.	811222405001	Goathar Fathima S	I/ME	A	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>(Signature)</i>



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

99.	811221405001	Madhumathi K	II/ME	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	11	R. Madh.
100	811221405002	Vinitha Devi P	II/ME	✓	A	✓	✓	✓	P	✓	✓	✓	✓	✓	P	11	P. Vinitha

C. T. S.
 VAC Coordinator

D. Sudd
 HoD/CSE

G. B.
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Academic Year 2022-2023 – Even Semester

Name of the Student : Mohamed Fahaedh. A Year/Sem: II / IV

AU Register Number: 811221243025

Value Added Course on "Ruby on Rails"

MCQ QUESTIONS (25X4 = 100 Marks)

1. What is gemset?

- a) self-contained bundles of gems. Useful for versioning.
- b) Self-contained packages of Ruby code
- c) Ruby Version Manager. Install and manage multiple versions of Ruby.
- d) rails generate scaffold User name:string email:string

2. What is rake?


- a) Self-contained bundles of gems. Useful for versioning.
- b) Bundle exec rake db:migrate. Using bundle exec ensures that the rake version in our Gemfile is used.
- c) rails generate scaffold User name:string email:string
- d) Ruby Version Manager. Install and manage multiple versions of Ruby.

3. Rails' application framework is called -----?

- a) ActionPack
- b) Active Record
- c) a web page
- d) an object

4. How do you run a migration?

- a) Camel Case
- b) ruby make
- c) an object
- d) rake db:migrate

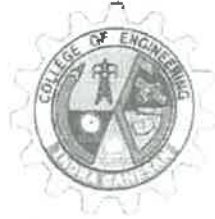

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5. How do you update?

- a) update_attributes (as in @ad.update_attributes(params[: ad]))
- b) Unit, functional, and integration tests
- c) Format (that period is a concatenation period)

d) It is not associated with a model

6. What comes after <% form_for ()... ?

a) redirect_to " ... "

b) the request parameters table

c) <%= f.text_field :name %>

d) do |f| (where "f" can be anything)

7. What kind of tests are there?

a) unit, functional, and integration tests

b) it is not associated with a model

c) id, created_at, updated_at

d) it runs its validators

8. What is "migration"?

a) It is a format (that period is a concatenation period)

b) A script that alters the structure of the underlying database

c) Their names begin with an underscore

d) The data being presented by the web page


9. What steps get you from fild.erb to file.html?

a) Data from model objects AND the page template

b) .erb -> Embedded Ruby -> ruby code (file.rb -> fild.html)

c) The method within the controller to call

d) the data being presented by the web page


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10. What is the filter code that calls on the "check_logged_in" method for only the "edit" and "update" methods?

- a) the data being presented by the web page
- b) HTTP methods (post, get, put, delete)
- c) data from model objects AND the page template
- d) before_filter :check_logged_in, :only => [:edit, :update]

11. Converts database records to objects is called -----.

- a) for ad in @ads
- b) integration test
- c) Representational State Transfer
- d) an object-relational mapping library

12. What checks if an input is numeric?

- a) integration test
- b) a responder object
- c) validate
- d) validates_numericality_of

13. How do you express error messages in a form (do {f})?

- a) ruby make
- b) f.error_messages
- c) for ad in @ads
- d) underscores

14. What are the three "magic columns"?

- a) id, created_at, updated_at
- b) render :partial:id
- c) integration test
- d) rake db:migrate:id:delete

15. What tag starts a form?

- a) integration test
- b) <%= f.text_field :name %>
- c) <% form_for() %>
- d) <%= yield %>


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24. In Rails applications, migrations are written in ____.

a) Ruby

b) Python

c) Perl

d) C#

25. We can inspect what routes are mapped by running which of the following command?

a) bin/rails routes

b) bin/rails routing mapped

c) bin/rails mapped

d) bin/rails route_mapped

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Academic Year 2022-2023 – Even Semester

Name of the Student : G. N. ANAPRAKASAM . A

Year/Sem: III / VI

AU Register Number: 8121220104017

Value Added Course on "Ruby on Rails"

MCQ QUESTIONS (25X4 = 100 Marks)

1. What is gemset?

- a) Self-contained bundles of gems. Useful for versioning.
- b) Self-contained packages of Ruby code
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- a) Camel Case
- b) ruby make
- c) an object
- d) rake db:migrate


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10. What is the filter code that calls on the "check_logged_in" method for only the "edit" and "update" methods?

- a) the data being presented by the web page
- b) HTTP methods (post, get, put, delete)
- c) data from model objects AND the page template
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Value Added Course

Ruby on Rails

ANSWER KEY

1	A	6	D	11	A	16	D	21	B
2	D	7	B	12	A	17	A	22	A
3	D	8	C	13	D	18	C	23	D
4	B	9	C	14	D	19	D	24	A
5	D	10	B	15	A	20	D	25	A


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VALUE ADDED COURSE ASSESMENT SHEET

Ruby on Rails

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S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1.	811219104001	Arun R	IV/CSE	36	100	15	60	80
2.	811219104002	Balamanikandaprabhu B R	IV/CSE	36	100	15	60	80
3.	811219104003	Bharathi S	IV/CSE	36	100	17	68	84
4.	811219104004	Gowtham C	IV/CSE	36	100	22	88	94
5.	811219104005	Indhumathi S	IV/CSE	36	100	18	72	86
6.	811219104006	Ishwarya P	IV/CSE	36	100	17	68	84
7.	811219104007	Kalaiyaran V	IV/CSE	30	83	18	72	77
8.	811219104008	Keerthika K	IV/CSE	36	100	17	68	84
9.	811219104009	Keerthika V	IV/CSE	36	100	16	64	82
10.	811219104010	Krishi Gowtham R	IV/CSE	36	100	16	64	82
11.	811219104011	Logadipa Sp	IV/CSE	36	100	20	80	90



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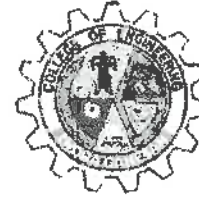
S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
12.	811219104012	Mohamed Nowsath M	IV/CSE	36	100	17	68	84
13.	811219104013	Moorthi C	IV/CSE	36	100	22	88	94
14.	811219104014	Nancy C	IV/CSE	36	100	17	68	84
15.	811219104016	Praveen K	IV/CSE	36	100	19	76	88
16.	811219104017	Ranjana S	IV/CSE	36	100	19	76	88
17.	811219104018	Ravinya K	IV/CSE	33	92	20	80	86
18.	811219104020	Saranya P	IV/CSE	36	100	16	64	82
19.	811219104021	Suvalakshmi P	IV/CSE	36	100	16	64	82
20.	811219104022	Sweatha B	IV/CSE	36	100	22	88	94
21.	811219104023	Vigneshwaran V	IV/CSE	30	83	18	72	77
22.	811219104024	Vijayalakshmi B	IV/CSE	36	100	22	88	94
23.	811219104025	Vincy Sharmila K	IV/CSE	36	100	22	88	94
24.	811219104026	Yathesh M	IV/CSE	30	83	20	80	81
25.	811220104002	Akshaya T	III/CSE	36	100	19	76	88
26.	811220104004	Appas Ali D	III/CSE	36	100	20	80	90
27.	811220104005	Aravindh V K	III/CSE	36	100	16	64	82



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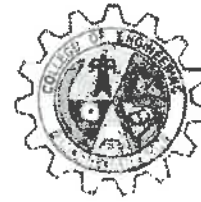
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S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
28.	811220104007	Ayisha Siddeequa A	III/CSE	36	100	17	68	84
29.	811220104008	Benasir S	III/CSE	36	100	22	88	94
30.	811220104012	Cibina S	III/CSE	36	100	18	72	86
31.	811220104013	Devi K	III/CSE	36	100	22	88	94
32.	811220104014	Divyadharshini A	III/CSE	36	100	22	88	94
33.	811220104015	Divyakeerthan P	III/CSE	36	100	20	80	90
34.	811220104016	Gayathri P	III/CSE	36	100	20	80	90
35.	811220104017	Gnanaprakasam A	III/CSE	36	100	23	92	91
36.	811220104018	Gowrisankar G	III/CSE	36	100	20	80	90
37.	811220104019	Hariharan K	III/CSE	36	100	20	80	90
38.	811220104024	Kamali A	III/CSE	30	83	22	88	85
39.	811220104025	Kamatchi S	III/CSE	36	100	20	80	90
40.	811220104027	Kiruthika M	III/CSE	36	100	20	80	90
41.	811220104029	Mathavan N	III/CSE	36	100	22	88	94
42.	811220104031	Monisha R	III/CSE	36	100	20	80	90
43.	811220104032	Priya P	III/CSE	36	100	20	80	90



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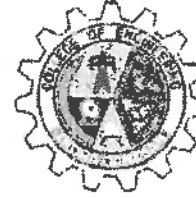
S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
44.	811220104033	Priyadharshini G	III/CSE	36	100	22	88	94
45.	811220104039	Sathyapriya N	III/CSE	36	100	22	88	94
46.	811220104041	Sivaranjani M	III/CSE	36	100	20	80	90
47.	811220104043	Sneka R	III/CSE	36	100	20	80	90
48.	811220104046	Sumithira R	III/CSE	36	100	22	88	94
49.	811220104048	Swarnambigai V	III/CSE	36	100	20	80	90
50.	811220104050	Thirumavalavan K	III/CSE	36	100	20	80	90
51.	811220104051	Vinith Roshan A	III/CSE	36	100	22	88	94
52.	811220104052	Yuvaraj M	III/CSE	36	100	20	80	90
53.	811220104053	Yuva Sri S	III/CSE	36	100	20	80	90
54.	811220104301	Santhosh Kumar S	III/CSE	36	100	20	80	90
55.	811221104001	Akshay K	II/CSE	30	83	22	88	85
56.	811221104002	Bharathkumar S M	II/CSE	36	100	20	80	90
57.	811221104004	Dhinesh C	II/CSE	36	100	20	80	90
58.	811221104005	Eyarkai Kamali R	II/CSE	36	100	22	88	94
59.	811221104006	Gokulnath P R	II/CSE	36	100	22	88	94



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Department of Computer Science & Engineering

Academic Year 2022-2023 –Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
60.	811221104007	Hariharaswamy M	II/CSE	36	100	22	88	94
61.	811221104008	Harish R	II/CSE	36	100	20	80	90
62.	811221104009	Harrish M	II/CSE	36	100	20	80	90
63.	811221104011	Hema T	II/CSE	36	100	22	88	94
64.	811221104012	Jacop Antony L	II/CSE	36	100	20	80	90
65.	811221104013	Jeevanantham S	II/CSE	36	100	20	80	90
66.	811221104014	Kathirvel K	II/CSE	36	100	22	88	94
67.	811221104015	Keerthana J	II/CSE	36	100	20	80	90
68.	811221104018	Manikandan N	II/CSE	36	100	20	80	90
69.	811221104020	Mohamed Thoufik U	II/CSE	30	83	22	88	85
70.	811221104023	Naveenkumar S	II/CSE	36	100	20	80	90
71.	811221104024	Nithya A	II/CSE	36	100	20	80	90
72.	811221104025	Poornima C	II/CSE	36	100	20	80	90
73.	811221104026	Prasanna Balaji C	II/CSE	36	100	22	88	94
74.	811221104028	Rajapushpam V	II/CSE	33	92	20	80	86
75.	811221104029	Reethika R	II/CSE	36	100	20	80	90



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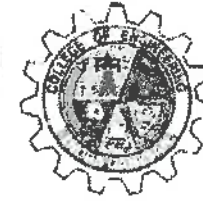
S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
76.	811221104030	Resika A V R	II/CSE	36	100	22	88	94
77.	811221104031	Santhosh P	II/CSE	36	100	20	80	90
78.	811221104032	Saravanaperumal S	II/CSE	36	100	20	80	90
79.	811221104034	Selvalakshmi G	II/CSE	36	100	22	88	94
80.	811221104035	Sivakumar P	II/CSE	36	100	20	80	90
81.	811221104036	Sudhakaran V	II/CSE	36	100	20	80	90
82.	811221104037	Sugavaneshwaran S	II/CSE	36	100	20	80	90
83.	811221104038	Sumaiya Begam S	II/CSE	36	100	22	88	94
84.	811221104040	Suruthi Y	II/CSE	36	100	20	80	90
85.	811221104041	Surya D	II/CSE	33	92	20	80	86
86.	811221104043	Syed Anwar S	II/CSE	36	100	22	88	94
87.	811221104045	Vasanthavel S	II/CSE	36	100	20	80	90
88.	811221104046	Vengadeswari M	II/CSE	36	100	20	80	90
89.	811221104048	Vishwa S	II/CSE	36	100	22	88	94
90.	811221104049	Yogapriya N	II/CSE	36	100	20	80	90
91.	811222405001	Goathar Fathima S	I/ME CSE	36	100	20	80	90



Indra Ganesan

COLLEGE OF ENGINEERING

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Department of Computer Science & Engineering

Academic Year 2022-2023 –Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
92.	811221405001	Madhumathi K	I/ME CSE	36	100	20	80	90
93.	811221405002	Vinitha Devi P	I/ME CSE	36	100	22	88	94
94.	811221243002	Abdur Rahman J	II/ AI&DS	36	100	20	80	90
95.	811221243004	Arun Kumar M	II/AI&DS	36	100	21	84	92
96.	811221243006	Bharath Kumar R	II/AI&DS	33	92	22	88	90
97.	811221243009	Dharani R	II/ AI&DS	36	100	20	80	90
98.	811221243013	Javahar Nisha B	II/ AI&DS	36	100	20	80	90
99.	811221243025	Mohamed Fahadh A	II/ AI&DS	33	92	19	76	79
100.	811221243032	Rakesh S	II/ AI&DS	36	100	20	80	90

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

C. T. Indu
VAC Coordinator

D. V. Reddy
HoD/CSE



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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

Report on Value Added Course

Title: **Ruby on Rails**

Resource Person: **Mr.V. Tamilventhan**
Director, Lift Technologies
Trichy

Mr.G.Ganesh
Project leader
Lift Technologies
Trichy

Date of conduct from : **12.06.2023** To: **17.06.2023** Duration: **36 Hours**

Organized Department : **COMPUTER SCIENCE AND ENGINEERING**

Participant Year: **B.E-II,III & IV- Year /CSE**
I,II ME,B.Tech-II AI&DS No. of Students Registered : **100**

Venue: **SD LAB,NETWORKLAB**

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Gain knowledge e the main features of Rub
- Know the Ruby's built-in methods for manipulating strings, files, and hashes
- Develop object-oriented Ruby programs using classes and objects
- Manipulate strings using regular expressions
- Create useful stand-alone applications in Ruby
- Develop distributed web application using RMI, Servlets and JSP.
- Install Ruby gems (third-party libraries) using the gem utility

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

C. Tink
VAC Coordinator

D. Prudh
HoD/CSE

Prudh
Principal

Dr. G. Balakrishnan
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



Indra Ganesan

COLLEGE OF ENGINEERING

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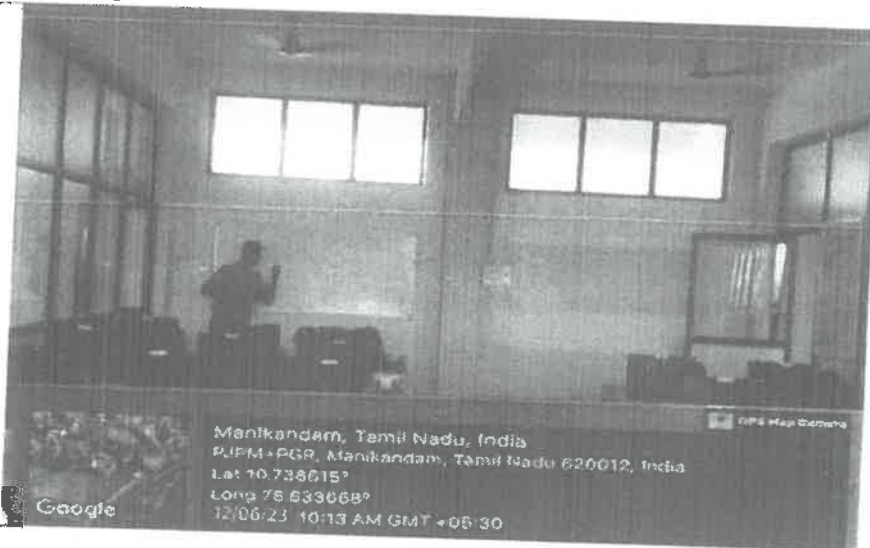
Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

Report on Value Added Course

Title:	Ruby on Rails		
Resource Person:	Mr.V. Tamilventhan Director, Lift Technologies Trichy	Mr.G.Ganesh Project leader Lift Technologies Trichy	
Date of conduct from :	12.06.2023	To:	17.06.2023
		Duration:	36 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING		
Participant Year:	B.E-II,III & IV- Year /CSE I,II ME,B.Tech-II AI&DS	No. of Students Registered :	100
Venue:	SD LAB,NETWORKLAB		

Sample Photo



C. Thiruv
VAC Coordinator

D. Jeyaraj
HoD/CSE

V. Prasad
Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

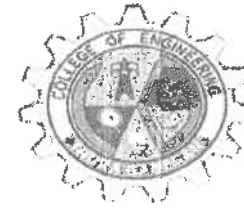


Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchireppalli - 620 012

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CERTIFICATE OF PARTICIPATION

*This is to certify that Mr/Ms. Nancy.C..... of
..... IV YEAR CSE has successfully completed the Value Added Course on
"Ruby on Rails" organized by Department of Computer Science and Engineering and IQAC of our
Institution in Association with Lift Technologies from 12th June 2023 to 17th June 2023 (6days)
during the Academic year 2022-2023.*

Mr. V. Tamilventhan
Director,
Lift Technologies

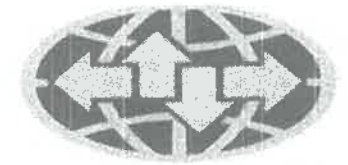
PRINCIPAL



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Marikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC



LIFT-TEK

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.Dharani.R..... of
..... II / AI&DS has successfully completed the Value Added Course on
“Ruby on Rails” organized by Department of Computer Science and Engineering and IQAC of our
Institution in Association with Lift Technologies from 12th June 2023 to 17th June 2023 (6days)
during the Academic year 2022-2023.

Mr. V. Tamilventhan
Director,
Lift Technologies

PRINCIPAL



Indra Ganesan
COLLEGE OF ENGINEERING
 Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Kamatchi S**

III YEAR CSE

has successfully completed the Value Added Course on "Ruby on Rails" organized by Department of Computer Science and Engineering and IQAC of our Institution in Association with Lift Technologies from 12th June 2023 to 17th June 2023 (6days) during the Academic year 2022-2023.

Mr. V. Tamilventhan
 Director,
 Lift Technologies

PRINCIPAL