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 – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL
INDRA GANESAN COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	**RUBY ON RAILS**
Resource Person:	**Mr. V.Tamilvendhan,** **Project Manager** **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:	CSE IV,III,II, M.E-II, AI&DS -II	**Semester:**	EVEN	**No. of Students Registered:**	100
Venue:	SD Lab Network Lab				

Table of Content

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	1. **Mr.V. Tamilventhan**
	   Director, Lift Technologies
	   Trichy
	
	2. **Mr.G.Ganesh**
	   Project leader
	   Lift Technologies
	   Trichy

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
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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** ➤ 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** ➤ Classes and Objects ➤ Inheritance and Polymorphism ➤ Encapsulation and Abstraction ➤ Modules and Mixins	3	12.06.2023
3	**Web Development with Ruby on Rails** ➤ 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)** ➤ Rvm installation ➤ Rvm commands ➤ Rvm Usage	3	13.06.2023
5	**Working in Linux(Ubuntu) Platform** ➤ 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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Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

Dr. G. Balakrishnan, M.E., Ph.D.,
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	➢ Working with Ruby operators and expressions ➢ Numeric Methods ➢ Rand and Ranges ➢ Strings, Escaping, Interpolation ➢ String methods ➢ Dates and Times		
7	**Ruby Datatypes & Variables** ➢ 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** ➢ 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** ➢ 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** ➢ What is Rails	5	17.06.2023

Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

	➢ 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	-

**VAC Coordinator**

HoD/CSE

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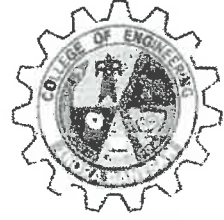
Department of Computer Science & Engineering

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	Kalaiyarasan 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 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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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

Department of Computer Science & Engineering

Academic Year 2022-2023 – Even 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

HoD/CSE

Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

STUDENTS ATTENDANCE LIST

Value Added Course

Ruby on Rails

Dr. G. Balakrishnan, M.E., Ph.D.,
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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	Bala
3.	811219104003	Bharathi S	IV/CSE	P	P	P	A	P	P	P	P	P	P	P	P	11	S.Bharathi
4.	811219104004	Gowtham C	IV/CSE	P	P	P	P	A	P	P	P	P	P	P	P	11	Gowtham
5.	811219104005	Indhumathi S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Indu
6.	811219104006	Ishwarya P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Iswarya
7.	811219104007	Kalaiyarasan V	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	V. Kalai

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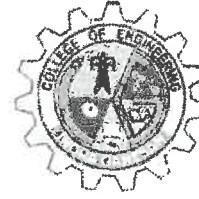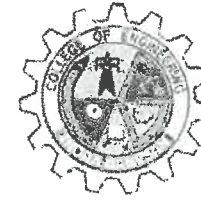
Academic Year 2022-2023 – Even Semester

S.No	Reg. No	Name	Class	Attendance	Total	Signature
8.	811219104008	Keerthika K	IV/CSE	P P P P P A P P P P P P	11	V. Keeritha
9.	811219104009	Keerthika V	IV/CSE	P P P A P P P P P P P A	10	V. Keerthi
10.	811219104010	Krishi Gowtham R	IV/CSE	P P P P A P P P P P P P	11	Krishi Gm R
11.	811219104011	Logadipa Sp	IV/CSE	P P P P P P P P A P P	11	Logadipa Sp
12.	811219104012	Mohamed Nowsath M	IV/CSE	P P P P P P A P P P P P	11	M. Noh
13.	811219104013	Moorthi C	IV/CSE	P P P P A P P P P P P P	11	Moorthi C
14.	811219104014	Nancy C	IV/CSE	P P P P P P A P P P P P	11	C. Nancy
15.	811219104016	Praveen K	IV/CSE	P P P P P P P P P P P A	11	Praveen. K
16.	811219104017	Ranjana S	IV/CSE	A P P P P P A P P P P P	10	Ranjana S
17.	811219104018	Ravinya K	IV/CSE	P P P P P P P P P P P P	12	Raviyan. K
18.	811219104020	Saranya P	IV/CSE	P P P P P P P P P P P P	12	Saranya. P
19.	811219104021	Suvalakshmi P	IV/CSE	P P A P P P P P P P A P	10	Suvalakshmi
20.	811219104022	Sweatha B	IV/CSE	P P P P P P P P P P P P	12	Sweatha

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No.	Register Number	Name	Year/Dept														Total	Signature
21.	811219104023	Vigneshwaran V	IV/CSE	P	A	P	P	P	P	P	P	A	P	P	P	10	
22.	811219104024	Vijayalakshmi B	IV/CSE	A	P	P	P	P	P	P	P	P	P	P	P	11	Vigeshwaran
23.	811219104025	Vincy Sharmila K	IV/CSE	P	P	P	A	P	P	P	P	P	P	P		11	Vijayala
24.	811219104026	Yathesh M	IV/CSE	P	P	P	P	P	P	P	P	P	P	A	P	11	Vincys
25.	811220104002	Akshaya T	III/CSE	P	P	P	P	P	A	P	P	P	P	P	P	11	Yathesh.M
26.	811220104004	Appas Ali D	III/CSE	P	P	P	P	P	P	P	P	P	P	P	A	11	T.Akshaya
27.	811220104005	Aravindh V K	III/CSE	P	A	P	P	P	P	P	P	P	P	P	P	11	D. Appas Ali
28.	811220104007	Ayisha Siddeequa A	III/CSE	P	P	P	A	P	P	P	P	P	P	P	P	11	V.K.Aravi
29.	811220104008	Benasir S	III/CSE	P	A	P	P	P	P	P	A	P	P	P	P	10	A. Ayisha
30.	811220104012	Cibina S	III/CSE	A	P	P	P	P	P	P	P	A	P	P	P	10	S. Benuf
31.	811220104013	Devi K	III/CSE	P	P	A	P	A	P	P	✓	P	P	P	✓	10	S. Cibin
32.	811220104014	Divyadharshini A	III/CSE	P	P	P	A	P	P	P	P	A	P	P	P	10	K. Devi
33.	811220104015	Divyakeerthan P	III/CSE	P	A	P	P	P	P	P	P	A	P	P	P	10	A. Divyadh
																		Divyakeerthan

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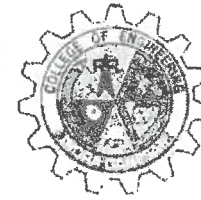### Academic Year 2022-2023 – Even Semester

No.	Reg. No	Name	Class													Total	Signature
34.	811220104016	Gayathri P	III/CSE	P	P	P	P	P	P	A	P	A	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 Gnapra
36.	811220104018	Gowrisankar G	III/CSE	P	A	P	P	P	P	P	A	P	√	P	P	10	Gowri
37.	811220104019	Hariharan K	III/CSE	P	P	P	P	A	P	A	P	P	P	P	√	10	K Hari
38.	811220104024	Kamali A	III/CSE	A	P	A	P	P	P	P	P	P	P	P		10	Kamali.A
39.	811220104025	Kamatchi S	III/CSE	P	A	P	P	P	P	A	P	P	P	P	√	10	Kam.
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	m. Matha
42.	811220104031	Monisha R	III/CSE	P	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	Priya P
44.	811220104033	Priyadharshini G	III/CSE	P	P	P	P	K	P	P	P	A	P	P	P	10	Priyadharshini.
45.	811220104039	Sathyapriya N	III/CSE	P	P	P	P	P	P	P	P	P	P	P	A	11	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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S.No	Register No	Name	Class	Total	Signature
47.	811220104043	Sneka R	III/CSE		
48.	811220104046	Sumithira R	III/CSE	11	R.Sneka
49.	811220104048	Swarnambigai V	III/CSE	10	Sumithra
50.	811220104050	Thirumavalavan K	III/CSE	11	
51.	811220104051	Vinith Roshan A	III/CSE	11	K.Thiruma
52.	811220104052	Yuvaraj M	III/CSE	10	Vishu
53.	811220104053	Yuva Sri S	III/CSE	11	Yuvaraj.M
54.	811220104301	Santhosh Kumar S	III/CSE	11	S.Yuvasri
55.	811221104001	Akshay K	II/CSE	11	S.Santhosh
56.	811221104002	Bharathkumar S M	II/CSE	11	Akshay.K
57.	811221104004	Dhinesh C	II/CSE	10	Bharat
58.	811221104005	Eyarkai Kamali R	II/CSE	11	Dhinesh.C
59.	811221104006	Gokulnath P R	II/CSE	11	Eyarkai

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Academic Year 2022-2023 – Even Semester

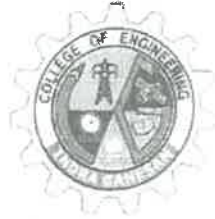| No.	Reg. No.	Name	Class																Total	Signature
60.	811221104007	Hariharaswamy M	II/CSE	✓	✓	✓	A	✓	✓		✓	✓		✓	P	✓	✓		11	
61.	811221104008	Harish R	II/CSE	✓	✓	✓		✓	✓		✓	A		✓	✓				11	haribon
62.	811221104009	Harrish M	II/CSE	✓	✓	✓		✓	✓	A	✓	✓		✓	✓				11	R.Harish
63.	811221104011	Hema T	II/CSE			✓	✓	A	✓	✓		✓	✓		✓	✓			11	Hema
64.	811221104012	Jacop Antony L	II/CSE			A	✓	✓	✓			✓			✓				12	T. hevo
65.	811221104013	Jeevanantham S	II/CSE	✓		✓	✓	A	✓	A	✓	✓			✓				11	Jacop
66.	811221104014	Kathirvel K	II/CSE			✓	✓		✓		✓	✓		✓	✓				10	J.Jeevan
67.	811221104015	Keerthana J	II/CSE			✓	✓		A	✓	✓		✓	A					12	Kathirvel.K
68.	811221104018	Manikandan N	II/CSE	✓			✓	✓		✓	A	✓	✓	✓	✓				10	J.Key
69.	811221104020	Mohamed Thoufik U	II/CSE			✓	A	✓	✓		✓			✓	✓				11	N.Manika
70.	811221104023	Naveenkumar S	II/CSE	✓	✓	✓	✓			A	✓	A	✓	✓					10	Mohammad
71.	811221104024	Nithya A	II/CSE	✓	✓	✓	✓	✓	✓	A	✓	✓							11	S.Naveen
72.	811221104025	Poornima C	II/CSE	✓	✓	✓	✓	A	✓	✓	✓	✓							11	C.Poornima

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Academic Year 2022-2023 – Even Semester

No.	Reg. No.	Name	Class												Total	Signature
73.	811221104026	Prasanna Balaji C	II/CSE	✓	✓	✓	✓	✓		✓	✓	✓	✓		12	
74.	811221104028	Rajapushpam V	II/CSE	A	✓	A	✓	✓	✓	✓	✓	✓	✓		10	
75.	811221104029	Reethika R	II/CSE	✓	✓	✓	✓	✓	A	✓	A	✓	✓		10	
76.	811221104030	Resika A V R	II/CSE	✓	✓	✓	P	P	✓	✓	A	✓	✓		11	
77.	811221104031	Santhosh P	II/CSE	✓	✓	✓	✓	A	✓	✓	✓	✓	✓		11	
78.	811221104032	Saravanaperumal S	II/CSE	✓	✓	✓	✓	A	✓	✓	✓	✓			11	
79.	811221104034	Selvalakshmi G	II/CSE	P	✓	✓	✓	✓	A	✓	✓	✓	✓		11	
80.	811221104035	Sivakumar P	II/CSE	P	P	P	✓	✓	✓	✓	A	✓	✓		11	
81.	811221104036	Sudhakaran V	II/CSE	P	P	✓	A	P	✓	✓	✓	A	✓	✓	10	
82.	811221104037	Sugavaneshwaran S	II/CSE	P	P	P	✓	A	✓	✓	✓	✓	✓		11	
83.	811221104038	Sumaiya Begam S	II/CSE	A	P	P	P	✓	✓	✓	✓	✓	✓		11	
84.	811221104040	Suruthi Y	II/CSE	P	✓	A	✓	A	P	✓	P	P	✓	✓	10	
85.	811221104041	Surya D	II/CSE	P	P	P	P	P	P	P	P	A	P	A	10	

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Academic Year 2022-2023 – Even Semester

No.	Reg. No.	Name	Class	Attendance	Total	Signature
86.	811221104043	Syed Anwar S	II/CSE	✓ ✓ ✓ ✓ ✓ ✓ A ✓ ✓ ✓ ✓	11	Syed Anwar
87.	811221104045	Vasanthavel S	II/CSE	✓ ✓ ✓ ✓ A ✓ ✓ ✓ ✓ ✓ ✓	11	S.Vasantha
88.	811221104046	Vengadeswari M	II/CSE	✓ ✓ ✓ ✓ ✓ A ✓ ✓ ✓ ✓ ✓	11	N. Veng
89.	811221104048	Vishwa S	II/CSE	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ A ✓	11	Vishwa
90.	811221104049	Yogapriya N	II/CSE	✓ ✓ ✓ ✓ ✓ A ✓ ✓ ✓ ✓	11	N. Yogapriya
91.	811221243002	Abdur Rahman J	II/AI&DS	✓ ✓ A ✓ ✓ ✓ ✓ ✓ ✓ ✓	11	Abdul
92.	811221243004	Arun Kumar M	II/AI&DS	A ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	11	M.Arun
93.	811221243006	Bharath Kumar R	II/AI&DS	✓ ✓ ✓ A ✓ A ✓ ✓ ✓ ✓	10	Bharathkumar
94.	811221243009	Dharani R	II/AI&DS	✓ ✓ ✓ ✓ ✓ ✓ ✓ A ✓ ✓	11	R.Dharani
95.	811221243013	Javahar Nisha B	II/AI&DS	✓ ✓ ✓ ✓ ✓ ✓ A ✓ ✓ ✓	11	Javahar
96.	811221243025	Mohamed Fahadh A	II/AI&DS	✓ ✓ ✓ ✓ ✓ A ✓ ✓ A ✓	10	A Mum
97.	811221243032	Rakesh S	II/AI&DS	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ A	11	S.Rakesh
98.	811222405001	Goathar Fathima S	I/ME	A ✓ A ✓ ✓ ✓ ✓ ✓ ✓	10	Goathar

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Academic Year 2022-2023 – Even Semester

| 99. | 811221405001 | Madhumathi K | II/ME | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | ✓ | ✓ | ✓ | 11 | K. Nodth |
| 100 | 811221405002 | Vinitha Devi P | II/ME | ✓ | A | ✓ | ✓ | P | ✓ | ✓ | ✓ | ✓ | ✓ | P | 11 | p.Vinthde |

VAC Coordinator

HoD/CSE

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Academic Year 2022-2023 – Even Semester

Name of the Student : Mohamed Jabadb. 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

Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

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

Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

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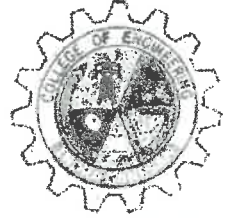
b) <%= f.text_field :name %>

c) <% form_for() %>

d) <%= yield %>

16. If looping through "f" object, how do you make a text field "name"?

a) <%= yield %>

b)... have the same URL

c) <% form_for() %>

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

17. What does a model object do before it saves or updates data?

a) underscores

b) it runs its validators

c) validate

d) rake db:migrate

18. What does "rake" mean?

a) #{1+1}

b) singular

c) ruby make

d) flight_id

19. What does REST stand for?

a) runs State test

b) the request State Transfer

c) Representational State Transfer

d) runs State Transfer

20. What is the status code for "success" when throwing a GET?

a) 300   b) 200   c) 400   d) 150

21. Which of the following folder contains compiled assets and static files?

a) Temp   b) Static   c) Public   d) Bin

22. In the development environment, does rails require you to restart the server?

a) Yes   b) No

23. Which of the following links a controller action to a request?

a) Pipeline   b) Route

c) Model   d) Link

Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

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

Department of Computer Science & Engineering

Academic Year 2022-2023 – Even Semester

Name of the Student : Gnanaprakasan .A   **Year/Sem:** III / VI

AU Register Number: 811820104017

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.

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c) Ruby Version Manager. Install and manage multiple versions of Ruby.

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a) integration test

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

c) <% form_for() %>

d) <%= yield %>

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Academic Year 2022-2023 – Even Semester

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

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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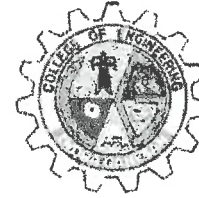### Academic Year 2022-2023 –Even Semester

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VALUE ADDED COURSE ASSESMENT SHEET

Ruby on Rails

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	Kalaiyarasan 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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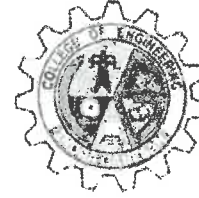
Academic Year 2022-2023 –Even Semester

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)	
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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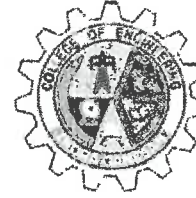
Academic Year 2022-2023 –Even Semester

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)	
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

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)	
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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Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, ~~~~~~~~~~~

Department of Computer Science & Engineering

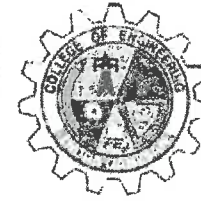## Academic Year 2022-2023 –Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL
				No, of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of 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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Manikandam, Trichy-620 012.

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
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of 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 –Even Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL
				No, of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of 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

VAC Coordinator

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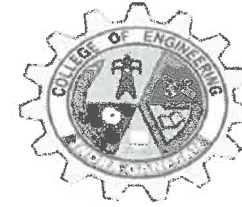IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

HoD/CSE

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)
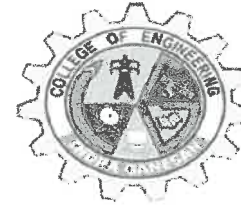
VAC Coordinator

HoD/CSE

Principal

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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

Manikandam, Tamil Nadu, India
PJPM+PGR, Manikandam, Tamil Nadu 620012, India
Lat 10.738615°
Long 78.633668°
12/06/23 10:13 AM GMT +05:30

VAC Coordinator

HoD/CSE

Principal
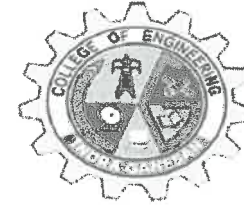
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Jeevanantham S** of **II 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

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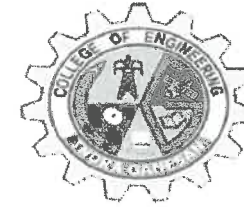IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

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LIFT-TEK

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Jacop Antony L** .... of

..........**II 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.

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Principal
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Manikandam, Trichy-620 012.

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Director,
Lift Technologies

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This is to certify that Mr/Ms. **Hema T** of

II 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)

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Principal
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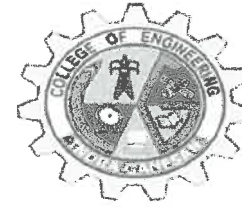**Mr. V. Tamilventhan**
Director,
Lift Technologies

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This is to certify that Mr/Ms. **Harish R** of

II YEAR CSE has successfully completed the Value Added Course on

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Institution in Association with **Lift Technologies** from 12th June 2023 to 17th June 2023 (6days)

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This is to certify that Mr/Ms. **Gokulnath P R** of

II 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)

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Director,
Lift Technologies

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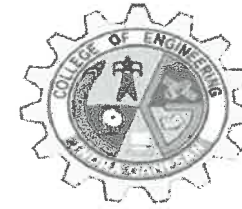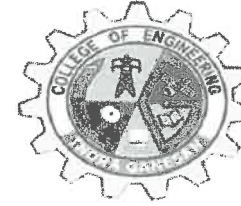Manikandam, Trichy-620 012.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Eyarkai Kamali R** of

II 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.

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Principal
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Mr. V. Tamilventhan
Director,
Lift Technologies

PRINCIPAL

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Hariharan K** of

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 17ᵗʰJune 2023 (6days)*

during the Academic year 2022-2023.

Mr. V. Tamilventhan
Director,
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Dr. G. Balakrishnan, M.E., Ph.D.,
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This is to certify that Mr/Ms. **Gnanaprakasam A** .... of .... **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

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
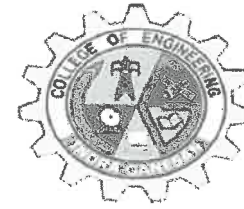IG Valley, Madurai Main Road
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This is to certify that Mr/Ms. **Kiruthika M** of **III YEAR CSE** has successfully completed the Value Added Course on "Ruby on Rails" organized by Department of Computer Science and Engineering and IQAC of our Institution 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

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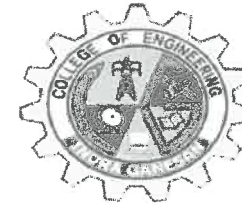Manikandam, Trichy-620 012.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Divyakeerthan P** of **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

Dr. G. Balakrishnan, M.E., Ph.D.,
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. ....**Divyadharshini A**............... of

............**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)

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Mr. V. Tamilventhan
Director,
Lift Technologies

Dr. G. Balakrishnan, M.E, Ph.D.,
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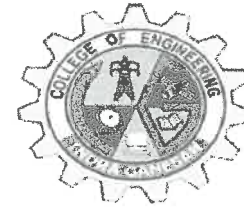IG Valley, Madurai Main Road
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Benasir S** .... of
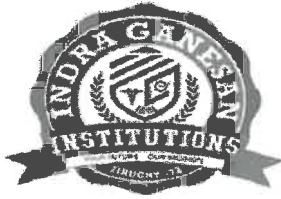
................**III YEAR CSE**........................ has successfully completed the Value Added Course on

"*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)

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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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Mr. V. Tamilventhan
Director,
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. .... **Mohamed Nowsath M** .... 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

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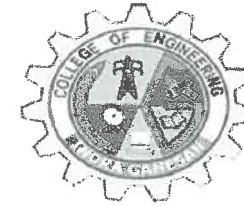IG Valley, Madurai Main Road
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COLLEGE OF ENGINEERING

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

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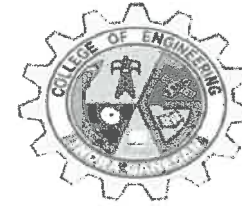IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

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CERTIFICATE OF PARTICIPATION

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

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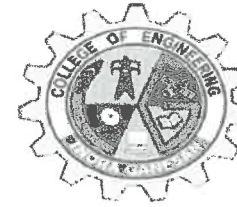Manikandam, Trichy-620 012.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Ravinya K** .... 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)

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Dr. G. Balakrishnan, M.E., Ph.D.,
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Manikandam, Trichy-620 012.

Mr. V. Tamilventhan
Director,
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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli – 620 012
Approved by AICTE, NewDelhi & 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. **Praveen K** .... 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 17ᵗʰJune 2023 (6days)

during the Academic year 2022-2023.

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

Mr. V. Tamilventhan
Director,
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Indhumathi S** 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 17thJune 2023 (6days) during the Academic year 2022-2023.

Mr. V. Tamilventhan
Director,
Lift Technologies

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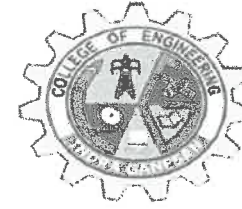IG Valley, Madurai Main Road
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. ....Goathar Fathima S................ of

.............I/ME..................... 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)

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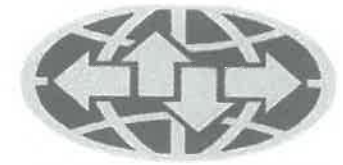NAAC Accredited, 2(F) Status Institution by UGC

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CERTIFICATE OF PARTICIPATION

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

.... **II YEAR AI&DS** .... has successfully completed the Value Added Course on

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Dr. G. Balakrishnan
Principal
Indra Ganesan College of Engineering
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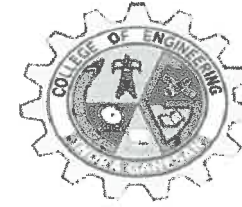Mr. V. Tamilventhan
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This is to certify that Mr/Ms. **Mohamed Fahadh A** of

II YEAR AI&DS has successfully completed the Value Added Course on

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Dr. G. Balakrishnan, M.E., Ph.D.,
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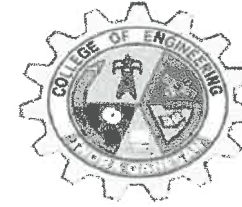IG Valley, Madurai Main Road
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This is to certify that Mr/Ms. **Javahar Nisha B** .... of

...... **II YEAR AI&DS** .... has successfully completed the Value Added Course on

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This is to certify that Mr/Ms. ....Bharath.Kumar.R................ of
..............II / AI&DS.................. has successfully completed the Value Added Course on
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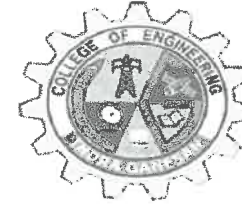Manikandam, Trichy-620 012.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Dharani R** .... of

................**II YEAR 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 17ᵗʰJune 2023 (6days)*

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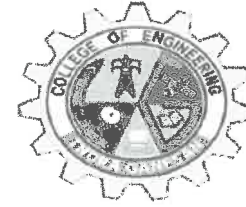IG Valley, Madurai Main Road
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This is to certify that Mr/Ms. **Arun Kumar M** of **II YEAR AI&DS** has successfully completed the Value Added Course on *"Ruby on Rails"* organized by Department of Computer Science and Engineering and IQAC of our Institution in Association with **Lift Technologies** from 12th June 2023 to 17th June 2023 (6days) during the Academic year 2022-2023.

Mr. V. Tamilventhan
Director,
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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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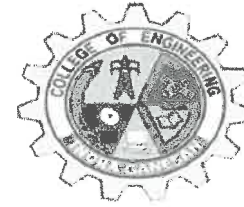IG Valley, Madurai Main Road
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Abdur Rahman J** .... of

........**II YEAR 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

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Director,
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