

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE

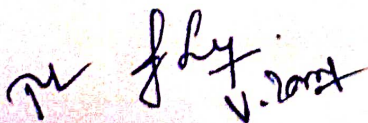
"DEVOPS"

DATE: 19.09.2022 TO 24.09.2022

2020-2024 BATCH STUDENTS

III CSE & III ADS

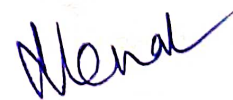
NO. OF PARTICIPANT : 35



Course Coordinator

Mr.M.Rajasekeran,

Ms.J.Lavanya & Mrs.V.Sangeetha



HOD-CSE

Dr.A.Meenakshi

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

S.No	Particulars		Details
1.	Academic Year	:	2022-2023
2.	Regulation	:	2022
3.	Department Name	:	CSE
4.	Name of the Value-added course	:	Value Added Course on Devops
5.	No.of Credits	:	Not Applicable
6.	Category: Theory/Lab/Hands-on/Skill based etc	:	Hands-on
7.	Name and Details of the Joint organization(industry/NGO etc) if any	:	SMI InfoTech Soln Pvt Ltd.
8.	Resource person details	:	Mr.G.S.Raman, Mr.Sanjay, Training & Up skilling Trainer, SMI Info Tech Soln PVT Ltd.
9.	Three Member Committee details	:	Dr.R.Muthuselvi, Professor-CSE Dr.P.Praveen Kumar, AP-CSE Dr.G.Nirmala, AP-CSE
10.	VAC Coordinator Details	:	Dr.G.Nirmala, AP-CSE Dr.G.Uma maheswari, AP-CSE
11.	Duration(30 h mandatory)	:	6 days
12.	Period (From-To)	:	19-09-2022 to 24-09-2022
13.	Venue	:	Cloud Computing Laboratory

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COURSE CO-ORDINATORS

[Handwritten Signature]
HOD - CSE

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16/11/2022
DEAN - ACADEMIC .

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Industry Certified Value Added Programme

on

Devops

19.09.2022 to 24.09.2022

Enclosures:-

Sl.No	Check List	Availability
1	Institution Approval Copy	✓
2	Circular	✓
3	Syllabus copy with Course outcomes	✓
4	BoS Approval	✓
5	Three Member Committee MoM	✓
6	Geo-Tagged Photos	✓
7	Certificated of all Participants	✓
8	Examination Schedule	✓
9	Questions and Answer keys	✓
10	Attendance Sheet	✓
11	Evaluated Answer Script	✓
12	Test Report	✓
13	Mark Statement	✓
14	Grade Sheet	✓
15	Feedback Form	✓
16	Feedback Analysis and Report	✓
17	Programme Summary/ Report	✓
18	Student's oral Feedback(recorded video)	✓
19	VAC- Short Video	✓

V. Lakshmi
Co-ordinators

Murali
HOD-CSE

KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY

An Autonomous Institution - Affiliated to Anna University, Chennai)
 S.P.O. Chidambaram Natar - C. Nagarajal Campus
 S.P.O. C. Nagar, K. Vellakulam - 625 701, (Near Virudhachari), Madurai District.
 Submitted to the SECRETARY for approval through the PRINCIPAL

Form No. 33

CSE

Date 10/08/2022

Approval may please be granted to conduct Value Added Course (VAC) on "Devops" for III CSE and III ADS Students (36 students)

AS hour training - 19/09/2022 to 24/09/2022 (6 days)

Details Budget Enclosed:

Enclosed Quotation: Fees (students) - ~~2500~~ ^{Rs-2500 incl. of} ~~18% GST~~

[Signature]
Signature of Faculty

[Signature]
HOD

[Signature]
PRINCIPAL 10/8/22

OFFICE USE

- 1) Account Head
- 2) Budget allotted
- 3) Amount committed / Spent solar
- 4) Balance available

Value added Course
 We may negotiate thro. Secretary.

[Signature]
OM

Treasurer

[Signature]
Secretary

INVOICE

INVOICE TO Kamaraj College of Engineering & Technology S.P.G.C. Nagar, K.Velbakulam Virudhunagar 625701	BILLING FROM Mr. G.S. RAMAN Consultant	KANIYILAS TECHNOLOGY SERVICES, MADURAI	
		REFERENCE	
		Invoice No.	001
		Invoice Date	04 July 2022

No	ITEM & DESCRIPTION	QTY	RATE (INR)	TOTAL (INR)	AMOUNT (INR)
1	Value Added Course on Building CI/CD Devops Pipeline using Jenkins and docker within AWS Cloud	35	2,500.00	87,500.00	87,500.00
				87,500.00	87,500.00

Rupees Eighty Seven Thousand Five Hundred Only

THANKS FOR YOUR BUSINESS

Bank Details

Account Name: G.S.Raman
Account No: 10578633816
Bank: SBI
Branch: Madurai City
Branch
IFSC: SBIN0011544

M. f. R. V. J. J. J.
Coordinator's

M. Manar
HOD/ISEE

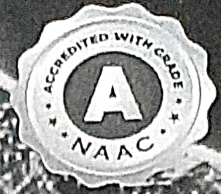
KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).



25 YEARS OF SERVICE IN TECHNICAL EDUCATION

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ORGANIZES



SIX DAYS VALUE ADDED COURSE ON DEVOPS

IN ASSOCIATION WITH
KANI VILAS TECHNOLOGY SERVICES, MADURAI

RESOURCE PERSON



MR.G.S.RAMAN
TRAINING & UPSKILLING
TRAINER,
SMI INFOTECH SOLN PVT
LTD., MADURAI

CONVENER

Dr.A.Meenakshi
Professor & HOD of CSE

CO-ORDINATORS

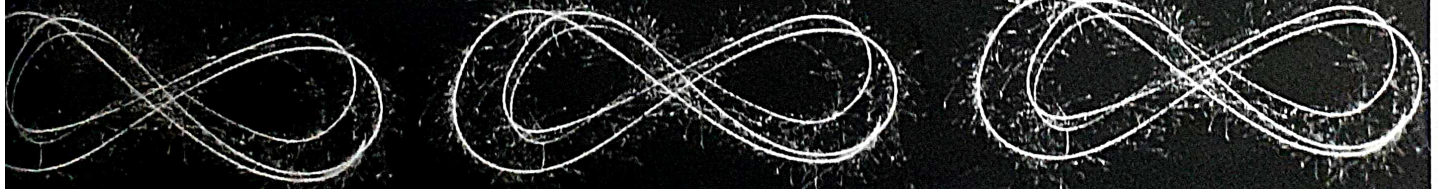
Mr.M.Rajasekaran,AP/CSE
Mrs.J.Lavanya,AP/CSE
Mrs.V.Sangeetha,AP/CSE

DATE: 19.09.2022 TO 24.09.2022

TIME: 9.00 AM TO 4.00 PM

VENUE: CLOUD COMPUTING LABORATORY

Participants: III CSE & ADS students



10/9/22, 11:45 AM

Mail - SANGEETHA.V - Outlook

Invitation for Value added course on "DEVOPS" -reg

LAVANYA J <lavanyacse@kamarajengg.edu.in>

Sat 9/17/2022 5:24 PM

To: ramansriranga@gmail.com <ramansriranga@gmail.com>; raman.g@mookambikainfo.com <raman.g@mookambikainfo.com>

Cc: HODCSE <hodcse@kamarajengg.edu.in>; RAJASEKARAN.M <rajasekarancse@kamarajengg.edu.in>; SANGEETHA.V <sangeethacse@kamarajengg.edu.in>; NIRMALA.G <nirmalacse@kamarajengg.edu.in>

3 attachments (2 MB)

Mr.Raman invitation.pdf; Mr.Sanjay invitation.pdf; brochure.jpg;

Dear Sir
Greetings!

We are glad to invite you as a resource person for the Value added course on DEVOPS from 19.09.2022 to 24.09.2022.

We have hereby attached the Brochure and Invitation letter for your kind perusal.

Venue : Cloud computing laboratory

Timing: 11AM onwards on 19.09.2022 (Monday)

With regards

Co-ordinators

Mr.M.Rajasekaran, AP/CSE

Mrs.J.Lavanya, AP/CSE

Mrs.V.Sangeetha/AP/CSE

CO-ORDINATORS

VAC-COORDINATOR

HOD-CSE

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Dr. A.Meenakshi, M.E., Ph.D.,
Professor & Head,
Department of Computer Science Engineering,
Kamaraj College of Engineering &
Technology, K.Vellakulam-625 701 (Near Virudhunagar),
Tamilnadu, India.

Ph:04549-278171
Mobile:+91-9786821021

Email:hodcse@kamarajengg.edu.in

Ref.No.:KCET/CSE / 2022 - 2023

16-09-2022

To
Mr.G.S.Raman
Director,
Sri Mookambika Info solutions Pvt Ltd ,
Madurai

Dear Sir,

Sub: Invitation to act as a resource person for the Value Added Course-Reg.

Warm Greetings!!!

We are glad to invite you as a resource person for the Value Added Course -
"DEVOPS" from 19-09-2022 to 24-09-2022 at Cloud Computing Laboratory. Your expertise
and experience in this field of work will be an excellent addition to our programme. We would be
glad if you could share your knowledge and expertise with our second year students.

Yours faithfully,



HoD- CSE

Copy to:

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Head of the Department,
Department of Computer Science & Engg.
Kamaraj College of Engg. & Tech.
Virudhunagar - 626 001.

KAMARAJ[®]

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S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

Dr. A.Meenakshi, M.E., Ph.D.,
Professor & Head,
Department of Computer Science Engineering,
Kamaraj College of Engineering &
Technology, K.Vellakulam-625 701 (Near Virudhunagar),
Tamilnada, India.

Ph:04549-278171
Mobile:+91-9786821021

Email:hodcse@kamarajengg.edu.in

Ref.No.:KCET/CSE / 2022 - 2023

16-09-2022

To
Mr.Sanjay
Trainer.
Sri Mookambika Info solutions Pvt Ltd ,
Madurai.

Dear Sir,

Sub: Invitation to act as a resource person for the Value Added Course-Reg.

Warm Greetings!!!

We are glad to invite you as a resource person for the Value Added Course -
"DEVOPS" from 19-09-2022 to 24-09-2022 at Cloud Computing Laboratory. Your expertise
and experience in this field of work will be an excellent addition to our programme. We would be
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Yoursfaithfully,

HoD- CSE

Head of the Department,
Department of Computer Science & Engg.
Kamaraj College of Engg. & Tech.
Virudhunagar - 626 001.

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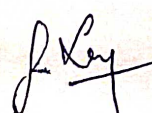
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Venue allotted for conducting Value Added Course

S.No	Name of the course	Allotted Lab
1	Devops	Cloud Computing Lab
2	MERN Stack	Visual Programming Lab
3	MEAN Stack	Information systems (IBM) Lab
4	Data Visualization using Tableau	Modern Application Development Lab


Course Co-ordinator


VAC Co-ordinator


HOD/CSE



ACADEMIC YEAR 2022-23(ODD)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON DEVOPS

19.09.22 – 24.09.22

YEAR: III CSE & ADS

Resource person:Mr.G.S.Raman

Total no of students:36

Regulation : 2020

Objectives:

- To understand AWS cloud essential services using EC2 instance
- To acquire DevOps essentials using GitHub
- To make use of Maven tools and their management
- To acquire knowledge of Distributed Jenkins configuration
- To acquire knowledge of Dockers and containers
- To acquire skills in Container orchestration using Docker Swarm/Kubernetes

UNIT-1 AWS Cloud Essential Services: (7 Hours)

Cloud Computing Basics-Cloud Computing Service & Deployment Models-Architectural Overview of AWS Global Infrastructure- Setting Up with Amazon EC2, Accessing Amazon EC2, Instances and AMIs, Controlling Access to Amazon EC2 Resources, Stopping, Starting and Terminating Instances- AWS Storage Categories Overview, Working with AWS S3 and AWS EBS volume

UNIT - II DevOps Essentials (7 Hours)

DevOps Introduction-Software Development Life Cycles (SDLC)-Waterfall Model-Market Trend and Career Scope for DevOps-DevOps Tools-GIT Architecture & SCM terminologies-Distributed version control using Git

UNIT – III Compile & Build Tool: Maven (7 Hours)

Introduction, Installation, POM files, Maven Build lifecycle, Build phases(compile,build,test,package)
Maven Profiles, Maven repositories(local, central, global),Maven plugins, Maven create and build
Artifacts, Dependency management, Maven Plugin management.

UNIT-IV Distributed Jenkins Configuration (7 Hours)

Introduction to Distributed Jenkins Build-Configuring Master Jenkins node-Configuring the Jenkins slave
Managing nodes and distributing jobs over nodes-Binding Jobs on the master and slave setup-Labeling
the nodes to run a specific job-Deploying an application to an application server-Install and configure
tomcat-Deployment of Simple Java web application using Tomcat-Jenkins Build Pipeline

UNIT - V Docker and Containers (8 Hours)

VM Creation Walkthrough using ec2- Docker Installation & Configuration Single Node- Working with
Docker Container- Working With Docker Images & Docker Repositories - Docker Host Networking-
Docker Custom Bridge Networking- Linking Containers using --link and Dockerfile - Working with
Docker Compose

UNIT- VI Container Orchestration using Docker using Docker Swarm/Kubernetes (9 Hours)

Working With Docker Stack-Install & Configure a Multinode Production Grade Docker SWARM cluster-
Ensuring High Availability in SWARM using Auto Scaling(Scale Up / Scale Down)- Rolling updates &
Rolling Rollback-Kubernetes Introduction-Architecture-Kubernetes Cluster setup using EKS IN AWS-
Kubernetes Objects-POD, Replication Controller

Total: 45 hours

OUTCOMES:

At the end of the course, the students will be able to

CO1: Learnt about the infrastructure using in EC2 instance

CO2:Learnt about the career scope in Devops

CO3:Various phases in Maven and its repositories

CO4:Make use of the Distributed Jenkins for deploying an application

CO5:Apply the Docker for networking and linking a file

CO6:Apply the Kubernetes for autoscaling applications



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ACADEMIC YEAR 2022-23(ODD)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON DEVOPS

DATE: 19.09.2022 - 24.09.2022

SYLLABUS

Duration : 45 hours

Resource person: Mr.G.S.Raman

Objectives:

- To understand AWS cloud essential services using EC2 instance
- To acquire DevOps essentials using GitHub
- To make use of Maven tools and their management
- To acquire knowledge of Distributed Jenkins configuration
- To acquire knowledge of Dockers and containers
- To acquire skills in Container orchestration using Docker Swarm/Kubernetes

Training Schedule:

S.No	Date/Day	Forenoon	Afternoon
1	19.09.22	Cloud Computing Basics-Cloud Computing Service & Deployment Models-Architectural Overview of AWS Global Infrastructure- Setting Up with Amazon EC2, Accessing Amazon EC2, Instances and AMIs,	Controlling Access to Amazon EC2 Resources, Stopping, Starting and Terminating Instances- AWS Storage Categories Overview , Working with AWS S3 and AWS EBS volume
2	20.09.22	DevOps Introduction-Software Development Life Cycles (SDLC)- Waterfall Model-Market Trend and Career Scope for DevOps-DevOps Tools	GIT Architecture & SCM terminologies- Distributed version control using Git
3	21.09.22	Introduction, Installation , POM files,	Maven create and build Artifacts ,

		Maven Build lifecycle, Build phases(complic,build,test,package) Maven Profiles, Maven repositories(local, central, global),Maven plugins	Dependency management ,Maven Plug management
4	22.09.22	Inroduction to Distributed Jenkins Build-Configuring Master Jenkins node-Configuring the Jenkins slave Managing nodes and distributing jobs over nodes-Binding Jobs on the master and slave setup-Labeling the nodes to run a specific job	Deploying an application to an applic server-Install and configure to the Deployment of Simple Java web applic using Tomcat-Jenkins Build Pipeline
5	23.09.22	VM Creation Walkthrough using ec2-Docker Installation & Configuration Single Node- Working with Docker Container- Working With Docker Images & Docker Repositories - Docker Host Networking- Docker Custom Bridge Networking	Linking Containers using -link Dockerfile - Working with Docker Comp
6	24.09.22	Working With Docker Stack-Install & Configure a Multinode Production Grade Docker SWARM cluster-Ensuring High Availability in SWARM using Auto Scaling(Scale Up / Scale Down)- Rolling updates & Rolling Rollback	Kubernetes Introduction-Architecture- Kubernetes Cluster setup using EKS IN AWS- Kubernetes Objects-POD ,Replication Controller

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OUTCOMES:

At the end of the course, the students will be able to

CO1: Learnt about the infrastructure using in EC2 instance

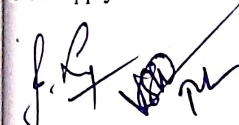
CO2: Learnt about the career scope in Devops

CO3: Various phases in Maven and its repositories

CO4: Make use of the Distributed Jenkins for deploying an application

CO5: Apply the Docker for networking and linking a file

CO6: Apply the Kubernetes for autoscaling applications



Course coordinators



VAC coordinator



HoD/CSE

Department of Computer Science and Engineering

VALUE ADDED COURSES

Circular

The Department of Computer Science and Engineering is planned to organize the following value added courses associated with the industries for third year B.E. CSE and B.Tech ADS during 19-09-22 to 24-09-22.

Objective:

- To build technical skill of the students

Course Outcome:

- Able to enhance the technical knowledge through which the students will fine-tune their career prospect, improve preparedness for campus placement and gain competitive edge.

The following course are planned to be conducted.

S.NO	Date	Name of course
1	19-09-2022 to 24-09-22	Data Visualization using Tableau
2	19-09-2022 to 24-09-22	MERN Stack
3	19-09-2022 to 24-09-22	Devops
4	19-09-2022 to 24-09-22	MEAN Stack


VAC Coordinator


HoD-CSE



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Department of Computer Science and Engineering

VALUE ADDED COURSES

Date and Time of VAC Exam Conducted

S.NO	Name of course	Date and Time of exam conducted
1	Data Visualization using Tableau	24-09-2022 (10:00 am to 11:30 pm)
2	MERN Stack	24.09.2022(02:30 P.M to 04:00 P.M)
3	Devops	24-09-2022(03.00 pm to 04.30 pm)
4	MEAN Stack	30.09.2022 (04.00 pm to 05.30 pm)

Value Added Course Coordinators

HoD-CSE

Department of Computer Science and Engineering

VALUE ADDED COURSES - Minutes

Value Added Courses are very important to bridge the gap between the academic and industry needs. These courses which help a particular individual to develop their own skills in their chosen field of the study are conducted by professionals and industry experts. They help students stand apart from the rest in the job market by adding further value to their resume.

A meeting was conducted on 28-07-2022 at 10.30am in the Department Office to discuss the various points about Value Added Courses.

I.Members present:

1. Dr.A.Meenakshi, Head & Professor
2. Value Added Course Co-ordinators
 - a. Dr.G.Nirmala, AP-CSE
 - b. Dr.G.Uma Maheswari AP-CSE
3. Three Member Committee
 - a. Dr.R.Muthuselvi Prof-CSE
 - b. Dr.P.Praveen Kumar AP-CSE
 - c. Dr.G.Nirmala AP-CSE

II.Agenda

1. Guide lines for Value Added Courses (VAC)
2. Faculty members' domain of interest and Students' options
3. Identification of Value Added Courses and Trainers from Industries

III.Minutes

1. Guidelines of VAC are discussed.

- The students may optionally undergo value added courses offered by experts from industry / other institutions (Academic / Research) / institution faculty on specialized topics.
- Every 15 period course will be given 1 credit.
- If the value added course is a theory, then the contact hours in a day shall not exceed four periods.
- The courses shall be conducted without affecting the regular academic schedule.
- Candidates can complete such courses during 3rd to 8th semesters as and when these courses are offered by departments.

- A candidate will also be permitted to register such course offered by other departments.
- The Department / Course in-charge / Faculty / Expert concerned shall conduct one assessment at the end of the course
- The Head of the Department shall form a committee to monitor the progress of the course.
- Candidates can take a maximum of two one-credit courses / one two- credit course during an academic year if offered.
- Credits earned under this category will be over and above the total credit requirement as prescribed in the Employability Enhancement Courses category excluding the actual credits required for project works.

2. Faculty members' Domain of interest and Students options are obtained.

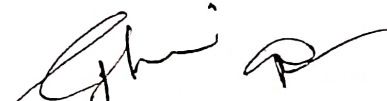
- Faculty members' domain interests are obtained and various courses are suggested. Options from III year students are obtained based on their suggestion.
- According to the meeting Conducted, 7 courses were identified such as
 - MERN Stack
 - MEAN Stack
 - Selenium (Software Testing Tool)
 - Devops(development-Operations)
 - UI / UX (User Interface/ User Experience)
 - VFX(Visual Effects)
 - Data Visualization using Tableau
- The information about the courses was given to the students to know their option of interest and a form was generated to receive their responses.
- According to the responses received from the students 4 courses were primarily identified such as
 - MERN Stack
 - MEAN Stack
 - Data Visualization using Tableau
 - Devops(Development-Operations)
- The faculty coordinators are nominated for each course in accordance to their interest shown. The list is shown as follows:
 - MERN Stack Co-ordinators (Ms.K.Leelarani & Ms.S.Shobika)
 - MEAN Stack Co-ordinators (Ms.T.Rajashree & Ms.G.Vijayalalitha)
 - Data Visualization using Tableau Co-ordinators (Ms.S.Athilakshmi, Ms.S.Janani & Dr.G.Uma Maheswari)
 - Devops(Development-Operations)Co-ordinators (Mr.M.Rajasekaran & Ms.J.Lavanya)


3. Value Added Courses and Industries are identified.

The following industries are identified to conduct the courses

S.NO	COURSES TO BE OFFERED	NAME OF THE COMPANY
1	MERN Stack	Lamdatech Softics, Virudhunagar
2	MEAN Stack	VEI Technologies Pvt Ltd, Chennai
3	Data Visualization using Tableau	Brainswig Edutech Pvt Ltd, Chennai
4	Devops	SMI Infotech Sol Pvt Ltd

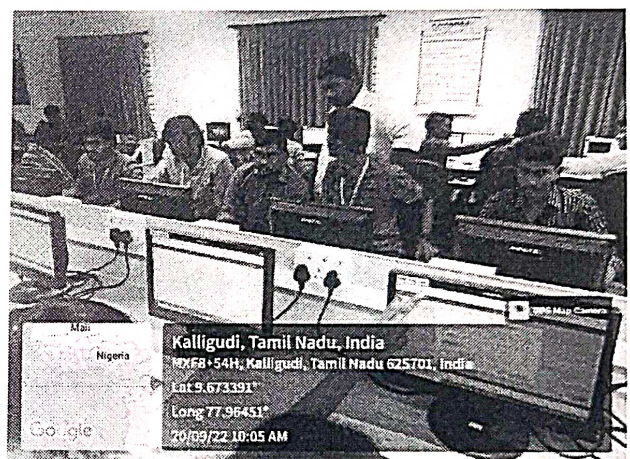
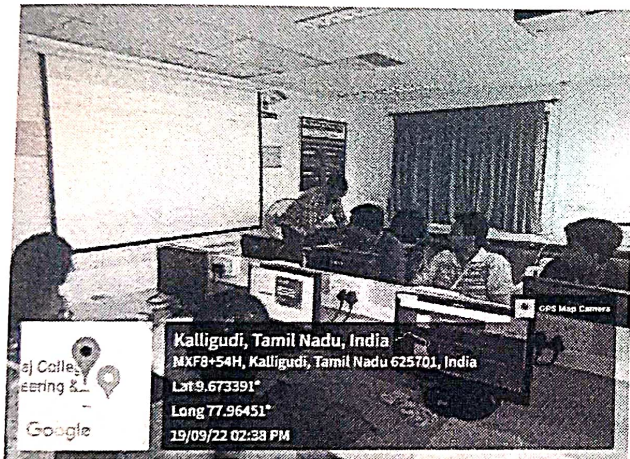
S.No	Name of the course	Venue	Class	Date
1	MERN Stack	Visual Computing Lab	III CSE & ADS	19-09-22 to 24-09-22
2	MEAN Stack	Information Systems Lab		
3	Data Visualization using Tableau	Mobile Application Development Lab		
4	Devops	Cloud Computing Lab		

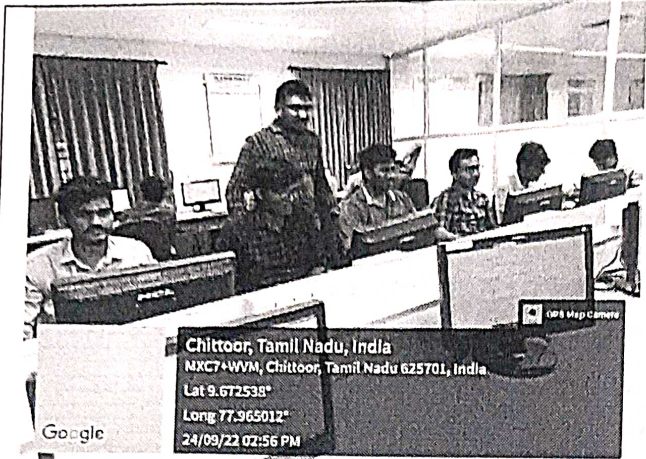

Value Added Course Coordinators


HoD-CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Topic	Value Added Course
Venue	Cloud Computing Lab
Date	19.09.2022 - 24.09.2022
Resource Person	Mr.G.S.Raman & Mr.Sanjay Training & Upskilling Trainer SMI Infotech Soln Pvt Ltd Madurai.





Chittoor, Tamil Nadu, India
MXC7+4WM, Chittoor, Tamil Nadu 625701, India
Lat 9.672538°
Long 77.965012°
24/09/22 02:56 PM

Google



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MXF8+54H, Kalligudi, Tamil Nadu 625701, India
Lat 9.67347°
Long 77.964479°
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Google



GPS Map Camera

Kalligudi, Tamil Nadu, India
MXF8+54H, Kalligudi, Tamil Nadu 625701, India
Lat 9.673558°
Long 77.964962°
23/09/22 11:12 AM GMT +05:30

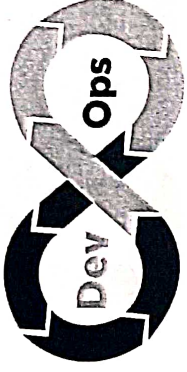
College
Engineering &...
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Google

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Co-ordinators

[Handwritten Signature]
VAC COORDINATORS.

[Handwritten Signature]
HOD-CSE

Kamaraj College of Engineering and Technology, Virudhunagar.
Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/MS TILAK . N.GI has attended
value added course offered by **Reccsar Pvt. Ltd., Madurai on DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 97.7.

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. J. By S. S. S. S.

CO-ORDINATOR (S)

M. S. S. S.

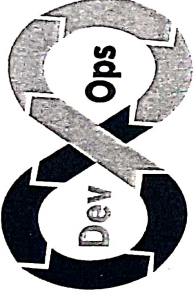
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S. S. S. S.

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms ASHOK KUMAR · K has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 92.7

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Mr. J. Jayaraman

CO-ORDINATOR (S)

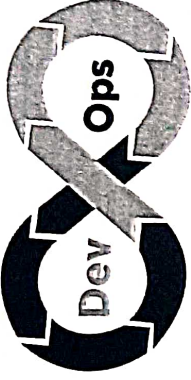
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PRINCIPAL

[Signature]

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms YUVA SIVASAKTHI . G has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 97.1

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Mr. J. Jayaraman

CO-ORDINATOR (S)

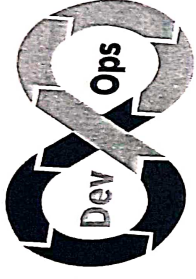
W. S. S. S.

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S. S. S.

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.
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COURSE COMPLETION CERTIFICATE

This is to certify that Mr/MS- SHRIDHARAN . R.B has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on DevOps
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

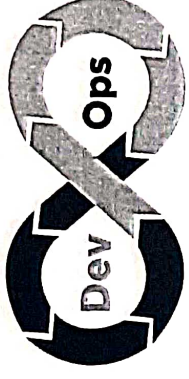
ASSESSMENT MARKS: 95%

<u>S.K. Sanjay Raj</u>	<u>[Signature]</u>	<u>[Signature]</u>
DIRECTOR	CO-ORDINATOR (S)	PRINCIPAL

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



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This is to certify that Mr/MS GOPIKRISHNAN P has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 95%

S.K. Sanjay Raj
S.K. Sanjay Raj
Reccsar Pvt.Ltd.

DIRECTOR

CO-ORDINATOR (S)

[Signature]

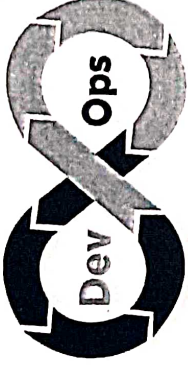
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[Signature]

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms SIVARAJANI . M has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 96%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. J. Jayasudha

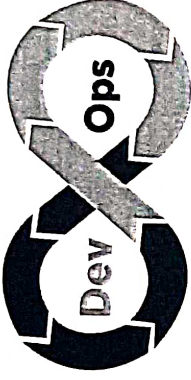
CO-ORDINATOR (S)

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PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



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This is to certify that Mr/Ms SRI DEVI DHARSHINI . K has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 96 %

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. S. Senthil

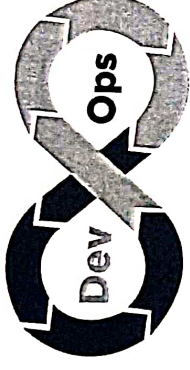
CO-ORDINATOR (S)

HOD - CSE

S. Senthil

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.
Reccsar Pvt.Ltd. - Madurai



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This is to certify that Mr/AMs- JERALD JESUDASAN · J has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 100 %

S.k. Sanjay Raj

DIRECTOR
CO-ORDINATOR (S)

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

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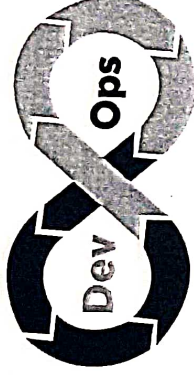
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reccsar

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Reccsar Pvt.Ltd. - Madurai



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This is to certify that Mr/Ms DANIEL . M has attended
value added course offered by **Reccsar Pvt. Ltd., Madurai on DevOps**
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and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

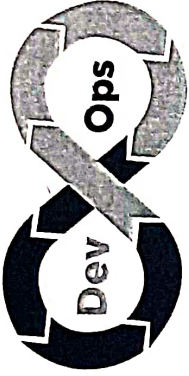
ASSESSMENT MARKS: 95 %

S.K. Sanjay Raj
DIRECTOR
S.K. Sanjay Raj
Reccsar Pvt.Ltd.

H. N. N. N.
HOD - CSE

Principal
PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.
Reccsar Pvt.Ltd. - Madurai



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This is to certify that Mr/Ms HARIKARAN . M . S has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 95%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Mr. J. Jayaraman

CO-ORDINATOR (S)

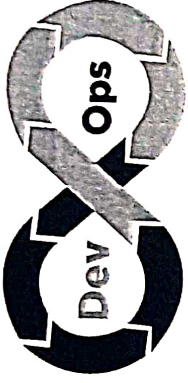
Harish

HOD - CSE

Santhosh

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.
Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/MS SARVESH S.S has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on DevOps
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 96 %

S.k. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Mr. Sanjay S. Raj

CO-ORDINATOR (S)

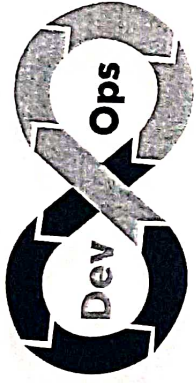
Mr. S. S. Sarvesh

HOD - CSE

S. S. Sarvesh

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.
Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms MANICK JOE BEVAN . A has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 95%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

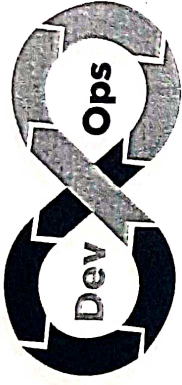
Dr. J. S. Sankar

CO-ORDINATOR (S)

HOD - CSE

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.
Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms DHAMOTHARAN . S has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 98%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. J. Raj

CO-ORDINATOR (S)

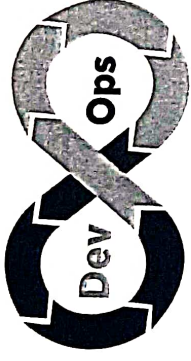
M. J. Raj

HOD - CSE

S. K. Sanjay Raj

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.
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This is to certify that Mr/Ms LATHA · K has attended
value added course offered by **Reccsar Pvt. Ltd., Madurai** on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 95%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Dr. Jeyaraj

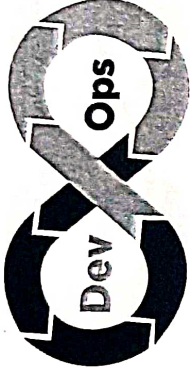
CO-ORDINATOR (S)

Dr. Jeyaraj

HOD - CSE

Dr. Jeyaraj

PRINCIPAL



COURSE COMPLETION CERTIFICATE

This is to certify that MR/MS MARIAMMAL . D has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhumagar

ASSESSMENT MARKS: 100%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Mr. J. J. J. J.

CO-ORDINATOR (S)

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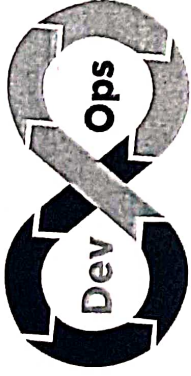
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Handwritten signature

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms RAJ FLINTOFF S has attended value added course offered by **Reccsar Pvt. Ltd., Madurai on DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 97%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Mr. S. Sanjay Raj

CO-ORDINATOR (S)

S. Sanjay Raj

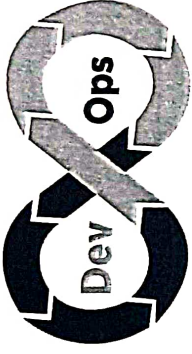
HOD - CSE

S. Sanjay Raj

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms- JAYANTHAN · R has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 100%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

re f. by 11/09/22

CO-ORDINATOR (S)

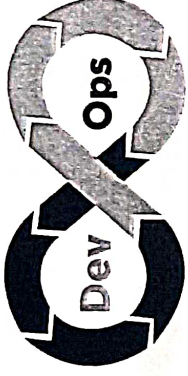
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PRINCIPAL

[Signature]

Kamaraj College of Engineering and Technology, Virudhunagar.

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COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms SUBIKSHA . A has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 92.71

S.K. Sanjay Raj

DIRECTOR
S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. Senthil

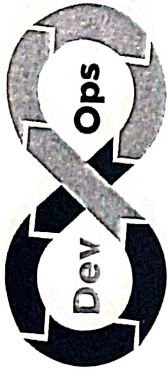
CO-ORDINATOR (S)
HOD - CSE

S. Senthil

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms SANTAY KUMAR · S has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 96 %

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Mr. J. Jayasankar

CO-ORDINATOR (S)

Hemah

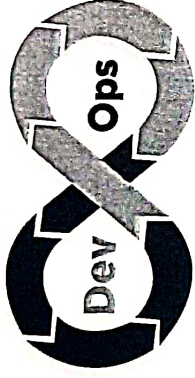
HOD - CSE

Santay

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms SUBASH KUMAR . M has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 94%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

reccsar 12/09/2022

CO-ORDINATOR (S)

Subash

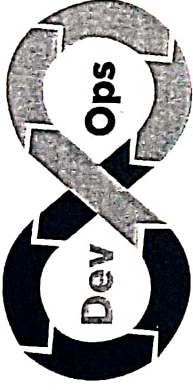
HOD - CSE

Subash

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms MANOJ KUMAR . M has attended value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 97 %

S.k. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Per J. Jayaraj

CO-ORDINATOR (S)

Manoj

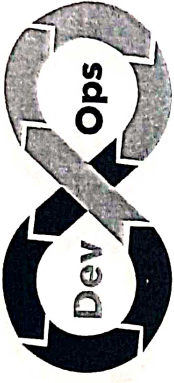
HOD - CSE

S.K. Thirude

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms MANOSRI . R has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
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and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 95%

S.K. Sanjay Raj
CO-ORDINATOR (S)

DIRECTOR

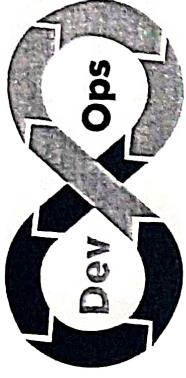
S.K. Sanjay Raj
Reccsar Pvt.Ltd.

N. Venk
HOD - CSE

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



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This is to certify that Mr/MS MADHAN · S has attended

value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 100%

S.K Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. S. Sanjay

CO-ORDINATOR (S)

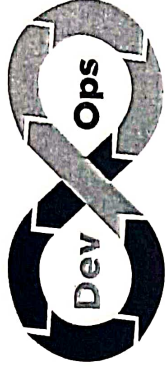
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S. K. Sanjay

PRINCIPAL



Kamaraj College of Engineering and Technology, Virudhunagar.
Reccesar Pvt.Ltd. - Madurai



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This is to certify that Mr/Ms RAGUL A.S has attended
value added course offered by **Reccesar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 977.

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccesar Pvt.Ltd.

M. J. Sanjay

CO-ORDINATOR (S)

M. J. Sanjay

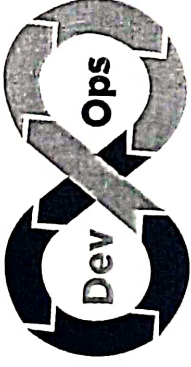
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S. K. Sanjay Raj

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/MS- T. Joshua has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 97%

S.K. Sanjay Raj

DIRECTOR
S.K. Sanjay Raj
Reccsar Pvt.Ltd.

reccsar

CO-ORDINATOR (S)

reccsar

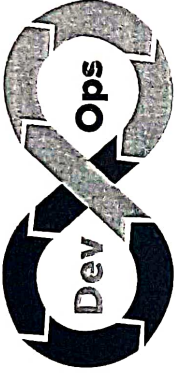
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PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



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This is to certify that Mr/Ms SHARUMATHI . A has attended
value added course offered by **Reccsar Pvt. Ltd., Madurai** on **DevOps**
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and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 97.7.

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

S.K. Sanjay Raj

CO-ORDINATOR (S)

HOD - CSE

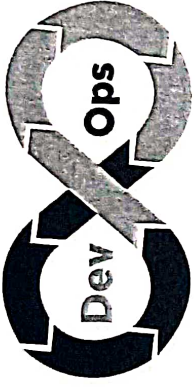
PRINCIPAL

S.K. Sanjay Raj

S.K. Sanjay Raj

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms KAVIYA RAJESWARI . S has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 98%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Dr. J. Jayaraman

CO-ORDINATOR (S)

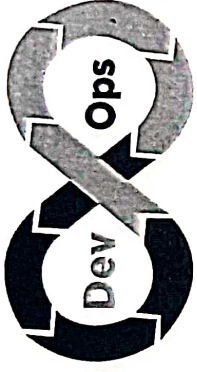
HOD - CSE

S. Subramanian

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/MS- GURIVASAN · S.V has attended

value added course offered by **Reccsar Pvt. Ltd.**, Madurai on DevOps from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 97%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. J. Jayaram

CO-ORDINATOR (S)

D. V. V. V.

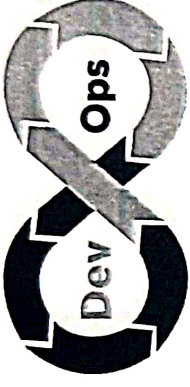
HOD - CSE

S. S. S.

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms MANOJ. K has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on DevOps
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 95 %

S.K Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. f. loy s. rook

CO-ORDINATOR (S)

M. Moh

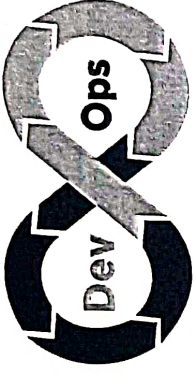
HOD - CSE

Shanmuga

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms MADHUBALAN · S has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 93%

S.k. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Mr. J. Jayaram

CO-ORDINATOR (S)

Shanmugam

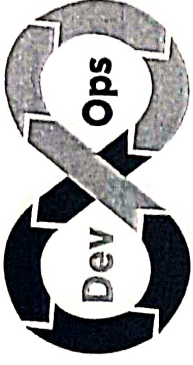
HOD - CSE

Shanmugam

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms _____ **NATHEESH · A** _____ has attended

value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps** from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: _____ **98%** _____

S.k. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

M. Venkatesh

CO-ORDINATOR (S)

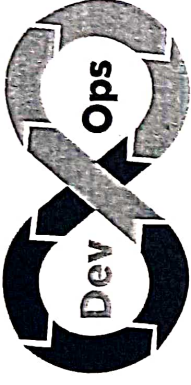
HOD - CSE

S. Venkatesh

PRINCIPAL

Kamaraj College of Engineering and Technology, Virudhunagar.

Reccsar Pvt.Ltd. - Madurai



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms SHAKEEL AHMED has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 98%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

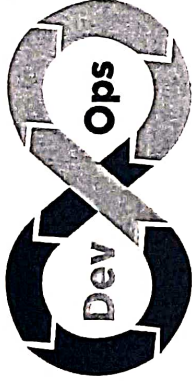
M. J. Jayaraj

CO-ORDINATOR (S)

HOD - CSE

PRINCIPAL

Shankar



COURSE COMPLETION CERTIFICATE

This is to certify that Mr/Ms SAKTHI PONHINI · P has attended
value added course offered by **Reccsar Pvt. Ltd.**, Madurai on **DevOps**
from 19-09-2022 to 24-09-2022 in association with the Department of Computer Science
and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

ASSESSMENT MARKS: 97%

S.K. Sanjay Raj

DIRECTOR

S.K. Sanjay Raj
Reccsar Pvt.Ltd.

Dr. J. Jayaraman

CO-ORDINATOR (S)

HOD - CSE

PRINCIPAL

Sankar

Internal Assessment- DEVOPS

Value added course from 19.09.22 - 24.09.22

• Required

• This form will record your name, please fill your name.

1. Name *

2. Roll No *

3. Year & Section *

III CSE A

III CSE B

III ADS

14/10/2022, 12:54

022, 12:5

4. What is DevOps? * (4 Points)

- Development And Operations ✓
- Digital and Operations
- Drive and Operations
- None of the above

5. Which of the following can't be tested in JUnit Test class? * (4 Points)

- Protected Methods
- Private Methods ✓
- Public Methods
- None of the above

6. What is the command to delete the empty dir? * (4 Points)

- remove
- rmdir ✓
- rdir
- rm

7. Which Assert method checks that the condition is true? * (4 Points)

- void assert(boolean condition)
- void assert(boolean condition)
- void assertTrue(boolean condition) ✓
- void assertChecks(boolean condition)

8. Which of the following best describes DevOps? * (4 Points)

- Establish an environment to release more reliable applications faster ✓
- Establish an environment where the release of applications is valued more than its quality
- Establish an environment where application development performs all the operation tasks
- Establish an environment where change management does not control application releases

9. Which of the following tools for DevOps? * (4 Points)

- Jenkins & Monit
- Nagios & ELK
- Jenkins & Ansible
- All of the above ✓

14/10/2022, 12:54

10. What are the key components of DevOps? * (4 Points)

- Continuous Integration
- Continuous Testing
- Continuous Delivery & Monitoring
- All of the above ✓

11. Which are the below cloud platforms that are not used for DevOps? * (4 Points)

- Google Cloud
- IBM ✓
- Microsoft Azure
- Amazon Web Services

12. Which of the following scripting languages are the popular for DevOps? * (4 Points)

- Java
- Python ✓
- Html
- C++

12:54

13. DevOps is an extension of _____ * (4 Points)

- QA
- Agile ✓
- Waterfall
- Iterative

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Pray V-Laxmi
course co-ordinator's

Manal
HOD - CSE



S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

ACADEMIC YEAR 2022-23(ODD)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON DEVOPS

Assessment Questions and Answers

Date: 19.09.22 – 24.09.22

YEAR: III CSE & ADS

Resource person: Mr.G.S.Raman

Total no of students: 36

Regulation : 2020

1. Define GIT & GitHub?

Git is a distributed version control tool that can manage a development project's source code history, while GitHub is a cloud based platform built around the Git tool. Git is a tool a developer installs locally on their computer, while GitHub is an online service that stores code pushed to it from computers running the Git tool. The key difference between Git and GitHub is that Git is an open-source tool developers install locally to manage source code, while GitHub is an online service to which developers who use Git can connect and upload or download resources. The Git tool is popular with developers because it stays true to its purpose of versioning source code, managing commit histories and making it possible to share code between developers without deviating into peripheral fields. There is no feature bloat with Git. It does what it does, it does nothing else, and it makes no apologies for that fact.

2. Explain CI - CD Devops lifecycle?

Stages in CI-CD Stage 1 Continuous Download Developers create some application code and upload in the version controlling system, whenever code changes are done and uploaded Jenkins will get a notification and it will download that code. This is called continuous download. Stage 2 Continuous Build The code downloaded in the previous stage has to be converted into an artifact. This is done by Jenkins with the help of plugins like Maven, Ant, MSBuild etc. The outcome of this build is an artifact generated. Stage 3 Continuous Deployment The artifact created in the previous stage has to be deployed in the testing environment and this environment can be running on some applications servers like Tomcat, JBoss, WebLogic etc. Jenkins will deploy the artifact into these application servers so that testers can start accessing the application. Stage 4 Continuous Testing Once the application is deployed into the testing environment Jenkins will execute the automation test scripts created by testers. These test scripts could be created using any tool like Selenium, CodedUI etc. Jenkins runs these automation test scripts and checks if the application is working correctly. If it is not Jenkins will notify the developers via automated emails and the Developer will modify the code and upload it again into the version controlling system. Jenkins will again start from stage 1. Stage 5 Continuous Delivery In this

stage Jenkins will deploy the artifact into the prod servers ...
accessing it. This is generally done after taking approvals from the concerned team. Note: The first
stages are called Continuous Integration The last stage is called Continuous Delivery

3. Create a newrel branch and list all branches?

1. create a branch - git branch newrel
2. To see the list of branches (local) git branch
3. To see the list of all the branches (local and remote) git branch -a

4. Create a new workspace for Developer Raman from central repository.

```
$mkdir centralA.git $cd centralA.git $ls -al $git init --bare $ls -al $git clone  
/home/ubuntu/centralA.git /home/ubuntu/Raman
```

5. Explain CI - CD Devops lifecycle?

CI/CD is a method to frequently deliver apps to customers by introducing automation into the stages
of app development. The main concepts attributed to CI/CD are continuous integration, continuous
delivery, and continuous deployment. A continuous integration and continuous deployment (CI/CD)
pipeline is a series of steps that must be performed in order to deliver a new version of software.
CI/CD pipelines are a practice focused on improving software delivery throughout the software
development life cycle via automation.

6. Create the newrel branch, create some files and synchronize it with central repo's master branch
using merge commands. Require

```
$ git branch newrel -> $ touch f1 -> $ git merge newrel master
```

7. Exhibit git cherry-pick using some examples.

git cherry-pick master Apply the change introduced by the commit at the tip of the master branch and
create a new commit with this change. git cherry-pick ..master git cherry-pick ^HEAD master Apply
the changes introduced by all commits that are ancestors of master but not of HEAD to produce new
commits. git cherry-pick maint next ^master git cherry-pick maint master..next Apply the change
introduced by all commits that are ancestors of maint or next, but not master or any of its ancestors
Note that the latter does not mean maint and everything between master and next; specifically, main
will not be used if it is included in master. git cherry-pick master~4 master~2 Apply the changes
introduced by the fifth and third last commits pointed to by master and create 2 new commits with
these changes. git cherry-pick -n master~1 next Apply to the working tree and the index the changes
introduced by the second last commit pointed to by master and by the last commit pointed to by next,
but do not create any commit with these changes. git cherry-pick --ff ..next If history is linear and
HEAD is an ancestor of next, update the working tree and advance the HEAD pointer to match next.
Otherwise, apply the changes introduced by those commits that are in next but not HEAD to the
current branch, creating a new commit for each new change. git rev-list --reverse master -- README
| git cherry-pick -n --stdin Apply the changes introduced by all commits on the master branch that
touched README to the working tree and index, so the result can be inspected and made into a
single new commit if suitable.

8. Create an env in AWS cloud for DEV, QA server

```
instance -> Launch instance -> type name -> select UBUNTU 22 OS -> Select t2.micro -> select storage -  
> configure security group -> generate key -> launch instance -> generate .ppk key using puttygen -> use  
the .ppk key and public dns ip to launch the instance
```


9. What is the major difference between virtualization and containerization?

Virtualization – Virtualization is the technology that can simulate your physical hardware (such as CPU cores, memory, disk) and represent it as a separate machine. It has its own Guest OS, Kernel, process, drivers, etc. Therefore, it is hardware-level virtualization. Most common technology is "VMware" and "Virtual Box". Containerization – Containerization is "OS-level virtualization". It doesn't simulate the entire physical machine. It just simulates the OS of your machine. Therefore, multiple applications can share the same OS kernel. Containers play similar roles as virtual machine but without hardware virtualization. Most common container technology is "Docker"

10. Create a continuous deployment workflow by moving an artifact from DEV server to QA server

- 1 Open the dashboard of Jenkins
- 2 Click on Manage Jenkins
- 3 Click on Manage Plugins
- 4 Go to Available Section--->Search for "Deploy to Container" plugin
- 5 Click on Install without restart
- 6 Go to the dashboard of Jenkins
- 7 Go to Development job--->Click on Configure
- 8 Go to Post Build actions--->Click on Add Post Build action
- 9 Click on Deploy war/ear to container war/ear file: `***.war` context path: testapp Click on Add container--->Select tomcat9 Enter tomcat username and password Tomcat url: `http://private_ip_of_qaserver:8080` eg: `http://172.31.92.80:8080`
- 10 Click on Apply---->Save
- 11 Go to the dashboard of Jenkins--->Go to Development job--->Click on Build icon This job will deploy the artifact created in stage 2 into the tomcat in QAServers To access the application deployed in tomcat a) Launch any browser b) `public_ip_of_qasever:8080/testapp 52.90.52.249:8080/testapp`

11. Create a DevJob and D load from github URL.

- Step1: Open and login to Jenkins,
Step2: create a freestyle devjob project,
Step3: Paste the GitHub repository link,
Step4: Apply and save changes.

12. Create a file f2,commit the change and undo it

```
#touch f2#git add .#git commit -m"f2 created"#ls #git log#git revert commitid #git add #git commit -m"f2 reverted" #ls #git log
```


Course Coordinators


VAC Co-ordinator


HoD-CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Attendance sheet
DEVOPS

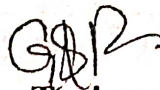
Total No. of Students: 36
 Absent Students: 34
 Instructors Name: Mr. G.S. Raman, Mr. Sanjay

Date : 19/9/2022

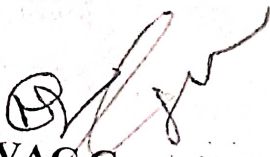
Day 1/2/3/4/5/6

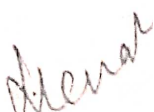
No	Dept	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
1.	CSE	A	20UCS003	MARIAMMAL.D(CS)			
2.	CSE	A	20UCS061	LATHA.K(CS)			OD
3.	CSE	A	20UCS092	DHAMOTHARAN.S(CS)			
4.	CSE	A	20UCS056	SAKTHI PONHINI.P(CS)			
5.	CSE	A	20UCS025	SHAKEEL AHMED(CS)			
6.	CSE	A	20UCS029	NATHEESH.A(CS)			
7.	CSE	A	20UCS030	MADHUBALAN.S(CS)			
8.	CSE	A	20UCS103	MANOJ.K(CS)			
9.	CSE	A	20UCS047	KALEESWARL.D(CS)			
10.	CSE	B	20UCS059	PRAVEEN.A(CS)	AB	AB	AB
11.	CSE	B	20UCS036	GIRIVASAN.S.V(CS)			
12.	CSE	B	20UCS067	KAVIYA RAJESWARL.S(CS)			
13.	CSE	B	20UCS062	SHARUMATHI.A(CS)			
14.	CSE	B	20UCS066	HARIKARAN.M.S(CS)			
15.	CSE	B	20UCS090	DANIEL.M(CS)			
16.	CSE	B	20UCS100	T.JOSHUA(CS)			
17.	CSE	B	20UCS018	RAGUL.A.S (CS)			

S.No	Dept	Section	Roll No	Student Name	Signature	
					9AM-10.40 AM	11 AM-12.40PM
					S. Jay	S. Jay
18.	CSE	B	20UCS016	MADHAN.S(CS)	R. Moff	R. Moff
19.	CSE	B	20UCS083	MANOSRI.R(CS)	S. K. M	S. K. M
20.	CSE	B	20UCS089	SUBASH KUMAR.M(CS)	B. K.	B. K.
21.	CSE	B	20UCS022	MANOJ KUMAR.S(CS)	Phoff	Phoff
22.	CSE	B	20UCS065	RAJ FLINTOFF.S(CS)	A. Manick	A. Manick
23.	CSE	B	20UCS073	MANICK JOE BEVAN.A(CS)	D. Manick	D. Manick
24.	CSE	B	20UCS095	SARVASH.S.S(CS)	S. Sanjay Kumar	S. Sanjay Kumar
25.	CSE	B	20UCS045	SANJAYKUMAR.S(CS)	M. S. Venkatesh Kumar	M. S. Venkatesh Kumar
26.	CSE	B	20UCS048	VENKATESHKANNAN.M.S(CS)	A. Suresh	A. Suresh
27.	CSE	B	20UCS107	SUBIKSHA.A(CS)	J. J. J	J. J. J
28.	ADS		20UAD014	JAYANTHAN.R(AD)	J. J. J	J. J. J
29.	ADS		20UAD002	JERALD JESUDASAN.J(AD)	K. K. K	K. K. K
30.	ADS		20UAD025	SRI DEVI DHARSHINI.K(AD)	M. S. S	M. S. S
31.	ADS		20UAD030	SIVARANJANI.M(AD)	P. P. P	P. P. P
32.	ADS		20UAD001	GOPIKRISHNAN.P(AD)	R. B. R	R. B. R
33.	ADS		20UAD008	SHRIDHARAN.R.B(AD)	G. G. G	G. G. G
34.	ADS		20UAD023	YUVA SIVASAKTHI.G(AD)	AB	AB
35.	ADS		20UAD045	ASHOK KUMAR.K	J. J. J	J. J. J
36.	ADS		20UAD026	TILAK.N.G(AD)		
37.						
38.						
39.						


 Trainer(s)
 S. K. Sarjan


 Course Coordinator(s)


 VAC Co-ordinator


 HOD/CS

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Attendance sheet

DEVOPS

Total No. of Students: 36

Present Students: 32

Instructors Name: Mr. G.S. Raman, Mr. Sanjay

Date : 20/9/2022

Day 1/2/3/4/5/6

Sl. No.	Dept	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM - 4PM
1.	CSE	A	20UCS003	MARIAMMAL.D(CS)	Mariam	Mariam	Mariam
2.	CSE	A	20UCS061	LATHA.K(CS)	Latha	Latha	Latha
3.	CSE	A	20UCS092	DHAMOTHARAN.S(CS)	AB	AB	AB
4.	CSE	A	20UCS056	SAKTHI PONHINI.P(CS)	Sakthi	Sakthi	Sakthi
5.	CSE	A	20UCS025	SHAKEEL AHMED(CS)	Shakeel	Shakeel	Shakeel
6.	CSE	A	20UCS029	NATHEESH.A(CS)	Natheesh	Natheesh	Natheesh
7.	CSE	A	20UCS030	MADHUBALAN.S(CS)	Madhubalan	Madhubalan	Madhubalan
8.	CSE	A	20UCS103	MANOJ.K(CS)	K.Manij	K.Manij	OD
9.	CSE	A	20UCS047	KALEESWARI.D(CS)	D.raj	D.raj	D.raj
10.	CSE	B	20UCS059	PRAVEEN.A(CS)	AB	AB	AB
11.	CSE	B	20UCS036	GIRIVASAN.S.V(CS)	Girivasan	Girivasan	Girivasan
12.	CSE	B	20UCS067	KAVIYA RAJESWARI.S(CS)	S.kariya	S.kariya	S.kariya
13.	CSE	B	20UCS062	SHARUMATHI.A(CS)	A.Sharathi	A.Sharathi	A.Sharathi
14.	CSE	B	20UCS066	HARIKARAN.M.S(CS)	H.raj	H.raj	H.raj
15.	CSE	B	20UCS090	DANIEL.M(CS)	M.D	M.D	M.D
16.	CSE	B	20UCS100	T.JOSHUA(CS)	T.Joshua	T.Joshua	T.Joshua
17.	CSE	B	20UCS018	RAGUL.A.S (CS)	Ragul.A.S	Ragul.A.S	Ragul.A.S

S.No	Dept	Section	Roll No	Student Name	Signature	
					9AM-10.40 AM	11 AM-12.40PM
18.	CSE	B	20UCS016	MADHAN.S(CS)	S. Jey	S. Jey
19.	CSE	B	20UCS083	MANOSRI.R(CS)	R. Manoff	R. Manoff
20.	CSE	B	20UCS089	SUBASH KUMAR.M(CS)	AR	AR
21.	CSE	B	20UCS022	MANOJ KUMAR.S(CS)	@yuffa	@yuffa
22.	CSE	B	20UCS065	RAJ FLINTOFF.S(CS)	Pliff	Pliff
23.	CSE	B	20UCS073	MANICK JOE BEVAN.A(CS)	A. Manick	A. Manick
24.	CSE	B	20UCS095	SARVASH.S.S(CS)	Sarash	Sarash
25.	CSE	B	20UCS045	SANJAYKUMAR.S(CS)	S. Sanjay Kumar	S. Sanjay Kumar
26.	CSE	B	20UCS048	VENKATESHKANNAN.M.S(CS)	M.S. Venkatesh Kannan	M.S. Venkatesh Kannan
27.	CSE	B	20UCS107	SUBIKSHA.A(CS)	A. Subiksha	A. Subiksha
28.	ADS		20UAD014	JAYANTHAN.R(AD)	Joyanth	Joyanth
29.	ADS		20UAD002	JERALD JESUDASAN.J(AD)	J. Jerald	J. Jerald
30.	ADS		20UAD025	SRI DEVI DHARSHINI.K(AD)	K. S. Devi	K. S. Devi
31.	ADS		20UAD030	SIVARANJANI.M(AD)	M. Sivaranjani	M. Sivaranjani
32.	ADS		20UAD001	GOPIKRISHNAN.P(AD)	P. Gopikrishnan	P. Gopikrishnan
33.	ADS		20UAD008	SHRIDHARAN.R.B(AD)	R. B. Shridharan	R. B. Shridharan
34.	ADS		20UAD023	YUVA SIVASAKTHI.G(AD)	G. Yuva	G. Yuva
35.	ADS		20UAD045	ASHOK KUMAR.K	K. Ashok	K. Ashok
36.	ADS		20UAD026	TILAK.N.G(AD)	N. G. Tilak	N. G. Tilak
37.						
38.						
39.						

Trainer(s)
S. L. Sanjay Raj

Course Coordinator(s)

VAE Co-ordinator

HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
 Attendance sheet
 DEVOPS

No. of Students: 36

Teachers Name: Mr. G. S. Raman, Mr. Sanjay

Date : 21/9/2022

Day 1/2/3/4/5/6

Sl. No.	Dept	Section	Roll No	Student Name	Signature		
					9AM-10.40 AM	11 AM-12.40PM	1.30PM - 4PM
1.	CSE	A	20UCS003	MARIAMMAL.D(CS)	Mariammal	Mariammal	OD
2.	CSE	A	20UCS061	LATHA.K(CS)	Latha	Latha	bf
3.	CSE	A	20UCS092	DHAMOTHARAN.S(CS)	Dhamo	Dhamo	bf
4.	CSE	A	20UCS056	SAKTHI PONHINI.P(CS)	Sakthi	Sakthi	AB
5.	CSE	A	20UCS025	SHAKEEL AHMED(CS)	Shakeel	Shakeel	Shakeel
6.	CSE	A	20UCS029	NATHEESH.A(CS)	Natheesh	Natheesh	Present
7.	CSE	A	20UCS030	MADHUBALAN.S(CS)	Madhubalan	Madhubalan	Present
8.	CSE	A	20UCS103	MANOJ.K(CS)	Manoj	Manoj	on duty
9.	CSE	A	20UCS047	KALEESWARL.D(CS)	Kaleeswarl	Kaleeswarl	Present
10.	CSE	B	20UCS059	PRAVEEN.A(CS)	Praveen	Praveen	AB
11.	CSE	B	20UCS036	GIRIVASAN.S.V(CS)	Girivasan	Girivasan	Present
12.	CSE	B	20UCS067	KAVIYA RAJESWARI.S(CS)	S. Kaviya	S. Kaviya	S. Kaviya
13.	CSE	B	20UCS062	SHARUMATHI.A(CS)	A. Sharumathi	A. Sharumathi	A. Sharumathi
14.	CSE	B	20UCS066	HARIKARAN.M.S(CS)	M. S. Hari	M. S. Hari	M. S. Hari
15.	CSE	B	20UCS090	DANIEL.M(CS)	M. Daniel	M. Daniel	M. Daniel
16.	CSE	B	20UCS100	T.JOSHUA(CS)	T. Joshua	T. Joshua	T. Joshua
17.	CSE	B	20UCS018	RAGUL.A.S (CS)	Ragul	Ragul	Ragul

S.No	Dept	Section	Roll No	Student Name	9AM-10.40 AM	Signature 11 AM-12.40PM
18.	CSE	B	20UCS016	MADHAN.S(CS)		
19.	CSE	B	20UCS083	MANOSRI.R(CS)		
20.	CSE	B	20UCS089	SUBASH KUMAR.M(CS)		
21.	CSE	B	20UCS022	MANOJ KUMAR.S(CS)		
22.	CSE	B	20UCS065	RAJ FLINTOFF.S(CS)		
23.	CSE	B	20UCS073	MANICK JOE BEVAN.A(CS)	A. Manick Joe Bevan	A. Manick Joe Bevan
24.	CSE	B	20UCS095	SARVASH.S.S(CS)		
25.	CSE	B	20UCS045	SANJAYKUMAR.S(CS)	S. Sanjay Kumar	S. Sanjay Kumar
26.	CSE	B	20UCS048	VENKATESHKANNAN.M.S(CS)	M.S. Venkatesh Kannan	M.S. Venkatesh Kannan
27.	CSE	B	20UCS107	SUBIKSHA.A(CS)	A. Subiksha	A. Subiksha
28.	ADS		20UAD014	JAYANTHAN.R(AD)	Jayanth	Jayanth
29.	ADS		20UAD002	JERALD JESUDASAN.J(AD)	J. Jerald	J. Jerald
30.	ADS		20UAD025	SRI DEVI DHARSHINI.K(AD)		
31.	ADS		20UAD030	SIVARANJANI.M(AD)	M. Sivarajani	M. Sivarajani
32.	ADS		20UAD001	GOPIKRISHNAN.P(AD)	P. Gopikrishnan	P. Gopikrishnan
33.	ADS		20UAD008	SHRIDHARAN.R.B(AD)	R.B. Shridharan	R.B. Shridharan
34.	ADS		20UAD023	YUVA SIVASAKTHI.G(AD)	G. Yuva	G. Yuva
35.	ADS		20UAD045	ASHOK KUMAR.K	K. Ashok Kumar	K. Ashok Kumar
36.	ADS		20UAD026	TILAK.N.G(AD)		
37.						
38.						
39.						

Trainer(s)
S. K. Sanjay Raj

Course Coordinator(s)

VAC Co-ordinator

HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Attendance sheet

DEVOPS

Students: 36

Teachers:

Mr. G.S. Raman, Mr. Sanjay

Date : 22/9/22

Day 1/2/3/4/5/6

Section	Roll No	Student Name	Signature		
			9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
A	20UCS003	MARIAMMAL.D(CS)	Mariam	Mariam	Mariam
A	20UCS061	LATHA.K(CS)	Latha	Latha	Latha
A	20UCS092	DHAMOTHARAN.S(CS)	Dhamotharan	Dhamotharan	Dhamotharan
A	20UCS056	SAKTHI PONHINI.P(CS)	Sakthi	Sakthi	Sakthi
A	20UCS025	SHAKEEL AHMED(CS)	Shakeel	Shakeel	Shakeel
A	20UCS029	NATHEESH.A(CS)	Natheesh	Natheesh	Natheesh
A	20UCS030	MADHUBALAN.S(CS)	Madhubalan	Madhubalan	Madhubalan
A	20UCS103	MANOJ.K(CS)	Manoj	Manoj	DD
A	20UCS047	KALEESWARL.D(CS)	D.Kej	D.Kej	D.Kej
B	20UCS059	PRAVEEN.A(CS)	AB	AB	AB
B	20UCS036	GIRIVASAN.S.V(CS)	Girivasan	Girivasan	Girivasan
B	20UCS067	KAVIYA RAJESWARI.S(CS)	S.Kaviyaff	S.Kaviyaff	S.Kaviyaff
B	20UCS062	SHARUMATHI.A(CS)	A.Sharumathi	A.Sharumathi	A.Sharumathi
B	20UCS066	HARIKARAN.M.S(CS)	M.S.Hari	M.S.Hari	M.S.Hari
B	20UCS090	DANIEL.M(CS)	M.D	M.D	M.D
B	20UCS100	T.JOSHUA(CS)	T.Joshua	T.Joshua	T.Joshua
B	20UCS018	RAGUL.A.S (CS)	Ragul.A.S	Ragul.A.S	Ragul.A.S

S.No	Dept	Section	Roll No	Student Name	Signature	
					9AM-10.40 AM	11 AM-12.40PM
				MADHAN.S(CS)		
18.	CSE	B	20UCS016	MANOSRI.R(CS)	R. Manth	R. Manth
19.	CSE	B	20UCS083	SUBASH KUMAR.M(CS)		
20.	CSE	B	20UCS089	MANOJ KUMAR.S(CS)		
21.	CSE	B	20UCS022	RAJ FLINTOFF.S(CS)		
22.	CSE	B	20UCS065	MANICK JOE BEVAN.A(CS)	A. Manick.	A. Manick.
23.	CSE	B	20UCS073	SARVASH.S.S(CS)		
24.	CSE	B	20UCS095	SANJAYKUMAR.S(CS)	S. Sanjay (CSE)	S. Sanjay (CSE)
25.	CSE	B	20UCS045	VENKATESHKANNAN.M.S(CS)	AB	AB
26.	CSE	B	20UCS048	SUBIKSHA.A(CS)		
27.	CSE	B	20UCS107	JAYANTHAN.R(AD)		
28.	ADS		20UAD014	JERALD JESUDASAN.J(AD)	J. Jerald.	J. Jerald.
29.	ADS		20UAD002	SRI DEVI DHARSHINI.K(AD)	K. Radha	K. Radha
30.	ADS		20UAD025	SIVARANJANI.M(AD)	M. S. R.	M. S. R.
31.	ADS		20UAD030	GOPIKRISHNAN.P(AD)	P. Gopikrishna	P. Gopikrishna
32.	ADS		20UAD001	SHRIDHARAN.R.B(AD)	R.B.	R.B.
33.	ADS		20UAD008	YUVA SIVASAKTHI.G(AD)	G. Yuva	G. Yuva
34.	ADS		20UAD023	ASHOK KUMAR.K	K. Ashok	K. Ashok
35.	ADS		20UAD045	TILAK.N.G(AD)		
36.	ADS		20UAD026			
37.						
38.						
39.						

Trainer(s)
S. S. Sarjan

Course Coordinator(s)
V. S. Sarjan

VAC Co-ordinator

HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Attendance sheet
DEVOPS

of Students: 36
 Students: 33
 Name: Mr. G. S. Raman, Mr. Sanjay

Date : 28/9/2022

Day 1/2/3/4/5/6

Dept	Section	Roll No	Student Name	Signature		
				9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
CSE	A	20UCS003	MARIAMMAL.D(CS)	Mariam	Mariam	Mariam
CSE	A	20UCS061	LATHA.K(CS)	Latha	Latha	Latha
CSE	A	20UCS092	DHAMOTHARAN.S(CS)	Dhamotharan	Dhamotharan	Dhamotharan
CSE	A	20UCS056	SAKTHI PONHINI.P(CS)	Sakthi	Sakthi	Sakthi
CSE	A	20UCS025	SHAKEEL AHMED(CS)	Shakeel	Shakeel	Shakeel
CSE	A	20UCS029	NATHEESH.A(CS)	Natheesh	Natheesh	Natheesh
CSE	A	20UCS030	MADHUBALAN.S(CS)	Madhubalan	Madhubalan	Madhubalan
CSE	A	20UCS103	MANOJ.K(CS)	K. Manoj	OD	OD
CSE	A	20UCS047	KALEESWARI.D(CS)	D. Gej	D. Gej	D. Gej
CSE	B	20UCS059	PRAVEEN.A(CS)	AB	AB	AB
CSE	B	20UCS036	GIRIVASAN.S.V(CS)	Girivasan	Girivasan	Girivasan
CSE	B	20UCS067	KAVIYA RAJESWARI.S(CS)	S. Kaviya	S. Kaviya	S. Kaviya
CSE	B	20UCS062	SHARUMATHI.A(CS)	A. Sharaff	A. Sharaff	A. Sharaff
CSE	B	20UCS066	HARIKARAN.M.S(CS)	M. D. Hari	M. D. Hari	M. D. Hari
CSE	B	20UCS090	DANIEL.M(CS)	M. Daniel	M. Daniel	M. Daniel
CSE	B	20UCS100	T.JOSHUA(CS)	T. Joshua	T. Joshua	T. Joshua
CSE	B	20UCS018	RAGUL.A.S (CS)	Ragul	Ragul	Ragul

S.No	Dept	Section	Roll No	Student Name	Signature	
					9AM-10.40 AM	11 AM-12.40PM
18.	CSE	B	20UCS016	MADHAN.S(CS)	<i>[Signature]</i>	<i>[Signature]</i>
19.	CSE	B	20UCS083	MANOSRI.R(CS)	R.Moff.	R.Moff.
20.	CSE	B	20UCS089	SUBASH KUMAR.M(CS)	<i>[Signature]</i>	<i>[Signature]</i>
21.	CSE	B	20UCS022	MANOJ KUMAR.S(CS)	<i>[Signature]</i>	<i>[Signature]</i>
22.	CSE	B	20UCS065	RAJ FLINTOFF.S(CS)	<i>[Signature]</i>	<i>[Signature]</i>
23.	CSE	B	20UCS073	MANICK JOE BEVAN.A(CS)	A.Manick	A.Manick
24.	CSE	B	20UCS095	SARVASH.S.S(CS)	<i>[Signature]</i>	<i>[Signature]</i>
25.	CSE	B	20UCS045	SANJAYKUMAR.S(CS)	S.Sanjay 10/09/14	S.Sanjay 10/09/14
26.	CSE	B	20UCS048	VENKATESHKANNAN.M.S(CS)	AB	AB
27.	CSE	B	20UCS107	SUBIKSHA.A(CS)	<i>[Signature]</i>	<i>[Signature]</i>
28.	ADS		20UAD014	JAYANTHAN.R(AD)	<i>[Signature]</i>	<i>[Signature]</i>
29.	ADS		20UAD002	JERALD JESUDASAN.J(AD)	J.Jerald.	J.Jerald.
30.	ADS		20UAD025	SRI DEVI DHARSHINI.K(AD)	<i>[Signature]</i>	<i>[Signature]</i>
31.	ADS		20UAD030	SIVARANJANI.M(AD)	<i>[Signature]</i>	<i>[Signature]</i>
32.	ADS		20UAD001	GOPIKRISHNAN.P(AD)	P.Gopikrish	P.Gopikrish
33.	ADS		20UAD008	SHRIDHARAN.R.B(AD)	R.B. <i>[Signature]</i>	R.B. <i>[Signature]</i>
34.	ADS		20UAD023	YUVA SIVASAKTHI.G(AD)	U.Y	U.Y
35.	ADS		20UAD045	ASHOK KUMAR.K	AB	AB
36.	ADS		20UAD026	TILAK.N.G(AD)	<i>[Signature]</i>	OD
37.						
38.						
39.						

[Signature]
S.K. Sanjay Rj
Trainer(s)

[Signature]
V. Rangaraj
Course Coordinator(s)

[Signature]
VAC Co-ordinator

[Signature]
HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Attendance sheet

DEVOPS

No. of Students: 36

Students:

Name: Mr. G. S. Ramana, Mr. Sanjay

Date : 28/9/22

Day 1/2/3/4/5/6- ✓✓

Dept	Section	Roll No	Student Name	Signature		
				9AM-10.40 AM	11 AM-12.40PM	1.30PM-4PM
CSE	A	20UCS003	MARIAMMAL.D(CS)	Mariam	Mariam	Mariam
CSE	A	20UCS061	LATHA.K(CS)	Latha	Latha	Latha
CSE	A	20UCS092	DHAMOTHARAN.S(CS)	Dhamotharan	Dhamotharan	Dhamotharan
CSE	A	20UCS056	SAKTHI PONHINI.P(CS)	Sakthi	Sakthi	Sakthi
CSE	A	20UCS025	SHAKEEL AHMED(CS)	Shakeel	Shakeel	Shakeel
CSE	A	20UCS029	NATHEESH.A(CS)	Natheesh	Natheesh	Natheesh
CSE	A	20UCS030	MADHUBALAN.S(CS)	Madhubalan	Madhubalan	Madhubalan
CSE	A	20UCS103	MANOJ.K(CS)	K. Manoj	K. Manoj	OD
CSE	A	20UCS047	KALEESWARI.D(CS)	D. Kal	D. Kal	D. Kal
CSE	B	20UCS059	PRAVEEN.A(CS)	AB	AB	AB
CSE	B	20UCS036	GIRIVASAN.S.V(CS)	Girivasan	Girivasan	Girivasan
CSE	B	20UCS067	KAVIYA RAJESWARI.S(CS)	S. Kaviya	S. Kaviya	S. Kaviya
CSE	B	20UCS062	SHARUMATHLA(CS)	A. Shanthi	A. Shanthi	A. Shanthi
CSE	B	20UCS066	HARIKARAN.M.S(CS)	M. S. Hari	M. S. Hari	M. S. Hari
CSE	B	20UCS090	DANIEL.M(CS)	M. Daniel	M. Daniel	M. Daniel
CSE	B	20UCS100	T.JOSHUA(CS)	AB	AB	AB
CSE	B	20UCS018	RAGUL.A.S (CS)	Ragul	Ragul	Ragul

S.No	Dept	Section	Roll No	Student Name	Signature	
					9AM-10.40 AM	11 AM-12.40PM
18.	CSE	B	20UCS016	MADHAN.S(CS)	S. Anas	S. Anas
19.	CSE	B	20UCS083	MANOSRI.R(CS)	R. Moff	R. Moff
20.	CSE	B	20UCS089	SUBASH KUMAR.M(CS)	S. M	S. M
21.	CSE	B	20UCS022	MANOJ KUMAR.S(CS)	AB	AB
22.	CSE	B	20UCS065	RAJ FLINTOFF.S(CS)	R. Flintoff	R. Flintoff
23.	CSE	B	20UCS073	MANICK JOE BEVAN.A(CS)	A. Manick	A. Manick
24.	CSE	B	20UCS095	SARVASH.S.S(CS)	AB	AB
25.	CSE	B	20UCS045	SANJAYKUMAR.S(CS)	S. Sanjay	S. Sanjay
26.	CSE	B	20UCS048	VENKATESHKANNAN.M.S(CS)	AB	AB
27.	CSE	B	20UCS107	SUBIKSHA.A(CS)	AB	AB
28.	ADS		20UAD014	JAYANTHAN.R(AD)	J. Jayanth	J. Jayanth
29.	ADS		20UAD002	JERALD JESUDASAN.J(AD)	J. Jerald	J. Jerald
30.	ADS		20UAD025	SRI DEVI DHARSHINI.K(AD)	K. S. Devi	K. S. Devi
31.	ADS		20UAD030	SIVARANJAN.LM(AD)	M. Sivarajan	M. Sivarajan
32.	ADS		20UAD001	GOPIKRISHNAN.P(AD)	P. Gopikrishnan	P. Gopikrishnan
33.	ADS		20UAD008	SHRIDHARAN.R.B(AD)	R. B. Shridharan	R. B. Shridharan
34.	ADS		20UAD023	YUVA SIVASAKTHI.G(AD)	G. Yuva	G. Yuva
35.	ADS		20UAD045	ASHOK KUMAR.K	AB	AB
36.	ADS		20UAD026	TILAK.N.G(AD)	N. G. Tilak	N. G. Tilak
37.						
38.						
39.						

G. S. Prasad
Trainer(s)
S. K. Srinivasan

J. Jayanth
V. L. M. Srinivasan
Course Coordinator(s)

R. B. Shridharan
VAC Co-ordinator

M. Sivarajan
HOD/CSE

Internal Assessment- DEVOPS

Respondent

1 SUBASH KUMAR.M(CS)

04:45
Time to complete

40/40
Points

Name *

Subash Kumar

Score / 0 pts

Q No *

202029

Score / 0 pts

Year & Section *

III CSE A

III CSE B

III ADS

Score / 0 pts

✓ Correct 4/4 Points

What is DevOps? *

4 / 4 pts
Auto-graded

- Development And Operations ✓
- Digital and Operations
- Drive and Operations
- None of the above

More options for Responses

✓ Correct 4/4 Points

Which of the following can't be tested in JUnit Test class? *

4 / 4 pts
Auto-graded

- Protected Methods
- Private Methods ✓
- Public Methods
- None of the above

4 / 4 pts

14/10/2022, 12:55

✓ Correct 4/4 Points

6. What is the command to delete the empty dir? *

- remove
- rmdir ✓
- rdir
- rm

✓ Correct 4/4 Points

7. Which Assert method checks that the condition is true? *

- void assert(boolean condition)
- void assert(boolean condition)
- void assertTrue(boolean condition) ✓
- void assertChecks(boolean condition)

✓ Correct 4/4 Points

8. Which of the following best describes DevOps? *

- Establish an environment to release more reliable applications faster ✓
- Establish an environment where the release of applications is valued more than its quality
- Establish an environment where application development performs all the operation tasks
- Establish an environment where change management does not control application releases

✓ Correct 4/4 Points

9. Which of the following tools for DevOps? *

- Jenkins & Monit
- Nagios & ELK
- Jenkins & Ansible
- All of the above ✓

✓ Correct 4/4 Points

Auto-graded

4 /4
Auto-graded

4 /4p
Auto-graded

4 /4pt
Auto-graded

4 /4pt
Auto-graded

12:55

What are the key components of DevOps? *

Internal Assessment- DEVOPS

- Continuous Integration
- Continuous Testing
- Continuous Delivery & Monitoring
- All of the above ✓

Correct 4/4 Points

Which are the below cloud platforms that are not used for DevOps? *

- Google Cloud
- IBM ✓
- Microsoft Azure
- Amazon Web Services

4 / 4 pts
Auto-graded

Correct 4/4 Points

Which of the following scripting languages are the popular for DevOps? *

- Java
- Python ✓
- Html
- C++

4 / 4 pts
Auto-graded

Correct 4/4 Points

DevOps is an extension of _____ *

- QA
- Agile ✓
- Waterfall
- Iterative

4 / 4 pts
Auto-graded

f. Key
v. 2017

Mural

se - Coordinator's

HOD-CSE

Internal Assessment- DEVOPS

Respondent

3 MARIAMMAL.D(CS)

16:55
Time to complete

40/40
Points

Name *
MARIAMMAL.D

Score / 0 pts

Roll No *
201CS003

Score / 0 pts

Year & Section *

- CSE A
- CSE B
- ADS

Score / 0 pts

Correct 4/4 Points

What is DevOps? *

4 / 4 pts
Auto-graded

- Development And Operations ✓
- Digital and Operations
- Drive and Operations
- None of the above

More options for Responses

Correct 4/4 Points

Which of the following can't be tested in JUnit Test class? *

4 / 4 pts
Auto-graded

- Protected Methods
- Private Methods ✓
- Public Methods
- None of the above

4 / 4 pts

14/10/2022, 12:55

Auto-graded

✓ Correct 4/4 Points

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- rdir
- rm

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- Jenkins & Monit
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✓ Correct 4/4 Points

4 /4 pts
Auto-graded

4 /4 pts
Auto-graded

4 /4 pts
Auto-graded

4 /4 pts
Auto-graded

Internal Assessment- DEVOPS

12-55
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4 / 4 pts
Auto-graded

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- Html
- C++

4 / 4 pts
Auto-graded

✓ Correct 4/4 Points

DevOps is an extension of _____ *

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- Waterfall
- Iterative

4 / 4 pts
Auto-graded

f. Roy
15-2017

408E Co-ordinators

Alena
HOD - CSE

Internal Assessment- DEVOPS

11-55

Internal Assessment- DEVOPS

Respondent

26

TILAK.N.G(AD)

00:39

Time to complete

40/40

Points

Time * [Empty text box]

Score / 0 pts

Tilak NG [Empty text box]

Score / 0 pts

Q.No * [Empty text box]

Score / 0 pts

26/02/26 [Empty text box]

par & Section *

III CSE A

III CSE B

III ADS

Correct 4/4 Points

4 / 4 pts
Auto-graded

What is DevOps? *

Development And Operations ✓

Digital and Operations

Drive and Operations

None of the above

[More options for Responses](#)

Correct 4/4 Points

4 / 4 pts
Auto-graded

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Protected Methods

Private Methods ✓

Public Methods

None of the above

4 / 4 pts

14/10/2022, 12:55

✓ Correct 4/4 Points

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✓ Correct 4/4 Points

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- Nagios & ELK
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✓ Correct 4/4 Points

4 /4 pts
Auto-graded

4 /4 pts
Auto-graded

4 /4 pts
Auto-graded

4 /4 pts
Auto-graded

Internal Assessment- DEVOPS

Which are the key components of DevOps? *

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- Continuous Testing
- Continuous Delivery & Monitoring
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Correct 4/4 Points

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- IBM ✓
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- Amazon Web Services

Correct 4/4 Points

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- C++

Correct 4/4 Points

DevOps is an extension of _____ *

- QA
- Agile ✓
- Waterfall
- Iterative

4 / 4 pts
Auto-graded

4 / 4 pts
Auto-graded

4 / 4 pts
Auto-graded

V. Roy
V. Varsh

Murad
HOD - CSE

Co-ordinator's

EVOPS ASSESSMENT

35
Responses

55.5
Average Score

Active
Status

NAME (0 point)

35
Responses

Latest Responses

"Ashok Kumar K"

"Subiksha"

"Joshua T "

Respondents (11%) answered **kumar** for this question.

Raj	SAKTHI PONHINIP	Tilak NG	GOPIKR
Daniel M	SSanjay Kumar	manoj k	Shakee
Joshua T	Msubash kumar	kumar	KSridevi
ayanthan R	LathaK	yuva sivasakthig	SMANOJ KUMAR
SVenkatesh Kannan			

10/9/22, 12:31 PM

2. ROLL NO (0 point)

35
Responses

Latest Responses

"20uad045"

"20ucs107"

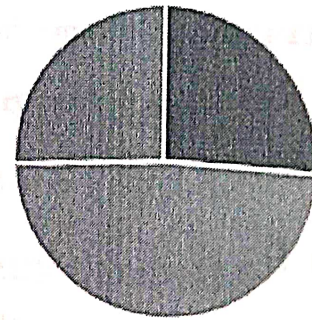
"20ucs100"

1 respondents (3%) answered 20uad014 for this question.

20UCS073 20ucs030
20ucs067 20UCS018 20ucs083 20ucs089 2
20uad026 20ucs036 20uad014 20UAD002 20ucs0
20ucs045 20ucs066 20uad030 20uad008 20UAD
20ucs029 20ucs092 20UCS06

3. DEPARTMENT (0 point)

- III CSE A 9
- III CSE B 17
- III ADS 9



1. Define GIT & GitHub? (5 points)

35 Responses

Latest Responses

- "Git is a version control system that lets you manage and keep ...
- "Git is a distributed version control tool that can manage a de...
- "Git is a version control system that lets you manage and keep ...

35 respondents (100%) answered **Git** for this question.

source code **Git** version cc

2. Explain CI - CD Devops lifecycle? (5 points)

35 Responses

Latest Responses

- "CI/CD is a solution to the problems integrating new code can ...
- "Stages in CI-CD Stage 1 Continuous Download Developers cre...
- "Continuous Development Continuous Download Continuous ..."

28 respondents (80%) answered **CI-CD** for this question.

Continuous Testing **CI-CD** Continuous
 Continuous Deployment Continuous Integrati

10/9/22, 12:31 PM

6. Create a newrel branch and list all branches? (5 points)

Latest Responses

"For All the Commands Below The commands below assume y...
"1.create a branch - git branch newrel 2.To see the list of branc...
"Git branch newrel Git branch -a"

35
Responses

26 respondents (74%) answered **git branch** for this question.

git branch
branch newrel#git newrel#git branch
Push to a Branch Branches NOTE Switch to a Branch branch-name Swit
branch-name Push git checkout
remote branches list of branches
exact name of the branch git pull local branch branch newrel
current branch git status De

7. Create a new workspace for Developer Raman from central repository. (5 points)

Latest Responses

35
Responses

"Maintain a Repository Workspace A workspace is a local direct...
"\$mkdir centralA.git \$cd centralA.git \$ls -al \$git init --bare \$ls ...
"Git clone /home/ubuntu/central.git /home/ubuntu/raman"

30 respondents (86%) answered **ubuntu/Raman** for this question.

ubuntu/Raman
home/ubuntu
git clone

5. Define maven life cycle? (5 points)

35
Responses

Latest Responses

"Maven is based around the central concept of a build lifecycle...
"1.Generate resources 2.compile(maven compile) 3.test 4.mave...
"Validate, Compile, Test, Package, Integration test, Verify, Install..."

26 respondents (74%) answered **project** for this question.

build lifecycle
Java project
project compi
Integration test
default Maven Maven lifec

9. Create the newrel branch, create some files and synchronize it with central repo's (5 points)
master branch using merge commands.

35
Responses

Latest Responses

"git branch command and a discussion of the overall Git branc...
"Create few commits on master touch f1 git add . git commit -...
"Git checkout works hand-in-hand with git branch. The git bra..."

29 respondents (83%) answered **commits** for this question.

git checkout
git merge
commits
git branch
touch
git add

10/9/22, 12:31 PM

10. Exhibit git cherry-pic using some examples. (5 points)

Latest Responses

- "git-cherry-pick - Apply the changes introduced by some existi...
- " 4 To cherrypick only few commits from test to master git chec...
- "git cherry-pick is a powerful command that enables arbitrary...

35

Responses

35 respondents (100%) answered **cherry-pick** for this question.

cherry-pick git
git a

11. Create a env in AWS cloud for DEV, QA server (5 points)

Latest Responses

- "Create a new AWS account Secure the root user Create an IA...
- ". launch instances==>generate .ppk key using puttygen ==> ...
- "instance ->Launch instance->type name->select UBUNTU 22...

35

Responses

23 respondents (66%) answered **key using puttyge** for this question.

key using puttyge

Install git

sudo

12. What is the major difference between virtualization and containerization? (5 points)

35
Responses

Latest Responses

- "Virtualization and containerization are the two most frequentl...
- "Containerization is a lightweight alternative to virtualization. ...
- "Virtualization and containerization are the two most frequentl...

33 respondents (86%) answered **virtual machine** for this question.

OS of your machine computer system host applications

hardware virtualization **Virtual machine** concept of

operating systems **Virtualization and containerizat**

13. Create a continuous deployment workflow by moving an artifact from DEV server to QA server (5 points)

35
Responses

Latest Responses

- "Unlike other Workflow types, Build Workflows do not perform ...
- " 1 Open the dashboard of JENkins 2 Click on Manage Jenkins ...
- "Open the dashboard of JENkins 2 Click on Manage Jenkins 3 C...

33 respondents (94%) answered **Click on Apply---->Save** for this question.

Click on Apply---->Save

dashboard of JENkins **Post Buil**

10/9/22, 12:31 PM

14. Create a DevJob and D load from github URL. (5 points)

35

Responses

Latest Responses

"The web-based editor introduces a lightweight editing experie...
"Stage 1 (Continuous Download) =====
"Go to jenkins Click on new item Free style project Go to sour...

33 respondents (94%) answered **github** for this question.

repository url
Select Git github Free style Code Mana

15. Create a file f2,commit the change and undo it (5 points)

35

Responses

Latest Responses

" You can use git checkout -- file You can do it without the -- (-
" \$touch f2 \$git status \$git add f2 \$git commit -m "f2 created" -
"#touch f2 #git add f2 #git commit -m "f2 created" #git reset [z

32 respondents (91%) answered **git commit** for this question.

git commit

git rev

f.ly
Course Co-ordinator

Manat
HOD - CSE

Review: DEVOPS ASSESSMENT

Respondent
19 KALEESWARLD(CS)

58:26
Time to complete 52/60
Points

1. NAME *

D Kaleeswari

Score / 0 pts

2. ROLL NO *

2019cs247

Score / 0 pts

3. DEPARTMENT *

- CSE A
- CSE B
- ADS

Score / 0 pts

Correct 5/5 Points

4. Define GIT & GitHub? *

5 / 5 pts

Git is free and open source software for distributed version control: tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during software development. Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. Git is easy to learn and has a tiny footprint with lightning fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like cheap local branching, convenient staging areas, and multiple workflows. Git is used to tracking changes in the source code, enabling multiple developers to work together on non-linear development. GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere. This tutorial teaches you GitHub essentials like repositories, branches, commits, and pull requests. GitHub, Inc., is an internet hosting service for software development and version control using Git. It provides the distributed version control of Git with access control, bug tracking, software feature requests, task management, continuous integration, and wikis for every project.

More options for Responses

Correct 5/5 Points

5 / 5 pts

10/9/22, 12:30 PM

5. Explain CI - CD Devops lifecycle? *

==== This is a tool for implementing for CI-CD Stages in CI-CD ===== Stage 1 Continuous
 Download ===== Developers create some application code and upload in the version
 controlling system,whenever code changer are done and uploaded jenkins will get a notification and it will download that code
 This is called continuous download Stage 2 Continuous Build ===== The code
 downloaded in the previous stage has to be converted into an artifact.This is done by jenkins with the help of plugin like
 maven,ant,msbuild etc.The outcome of this build is an artifact generated in the previous stage has to be deployed in the
 testing environment and this environment can be running on some applications servers like tomcat,jboss,weblogic etc.Jenkins
 will deploy the artifact into these application server so that testers can start accessing the application. State 4 Continuous
 Testing ===== The artifact created in the previous stage has to be deployed in the
 etc. Jenkins runs these automation test scripts and checks if the application is working correctly.If it is not jenkins will notify the
 developers via automated emails and Developer will modify the code and upload it again into the version controlling
 system.Jenkins will again start from stage 1 Stage 5 Continuous Delivery =====
 In this stage Jenkins will deploy the artifact into the prodservers where the enduser or client can start accessing it.This is
 generally done after taking approvals from the concerned team. Note: The first 4 stages are called Continuous Integration The
 last stage is called Continuous Delivery

1 / 5p

X Incorrect 1/5 Points

6. Create a newrel branch and list all branches? *

1.To create a branch git branch newrel 2.To see the list of branches (local and remote) git branch -a

2 / 5

X Incorrect 2/5 Points

7. Create a new workspace for Developer Raman from central repository. *

\$mkdir centralA.git \$cd centralA.git \$ls -al \$git init --bare \$ls -al \$git clone /home/ubuntu/centralA.git /home/ubuntu/Raman

4 / 5

X Incorrect 4/5 Points

8. Define maven life cycle? *

1.Generate Resources 2.Compile/maven Compile 3.Test 4.Maven Package 5.Maven install 6.Maven deploy

5 / 5

✓ Correct 5/5 Points

9. Create the newrel branch, create some files and synchronize it with central repo's master branch using merge commands. *

1 Create few commits on master touch f1 git add . git commit -m "a" touch f2 git add . git commit -m "b" 2 Check the commit history git log --oneline 3 Create a new branch and create few commits on it git checkout -b test touch f3 git add . git commit -m "c" touch f4 git add . git commit -m "d" 4 Check the commit history git log --oneline 5 Move to master and create few more history git log --oneline 7 Merge test with master git merge test 8 Delete the test branch git branch -d test 9 Check the commit history git log --oneline

5 / 5

✓ Correct 5/5 Points

git cherry-pick using some examples. *

=====
1 Create a commit on master touch f1. git add . git commit -m "a"
2 Create a test branch and add them to the
branch f2 git add . git commit -m "b" touch f3 git add . git commit -m "c"
3 Check the commit history git log --oneline 4 To cherry-pick only few commits from test to master git
cherry-pick commit_id1 commit_id2 (from step 3) git cherry-pick 9a8fc78 a4ca307

5/5 Points

set up an env in AWS cloud for DEV, QA server *

3 AWS ubuntu 18 instances 2 Name as DevServer, QAServer 3 Connect to DevServer using gitbash 4 Update the apt
repository sudo apt-get update 5 Install Java sudo apt-get install -y openjdk-17-jdk 6 Install git and maven sudo apt-get install -y
git maven 7 Download jenkins.war wget http://mirrors.jenkins.io/war-stable/latest/jenkins.war 8 To start jenkins java -jar
jenkins.war 9 To access jenkins from browser Launch any browser public_ip_of_jenkins:8080 10 In Unlock Jenkins page
click on admin password-->Continue 11 Click on Install suggested plugins 12 Create first admin user-->Continue 13 Click on
Setting up tomcat on QAServer and ProdServer 1 Connect to QAServer via gitbash 2 Update the apt repository sudo apt-
get update 3 Install tomcat8 sudo apt-get install -y tomcat8 4 Install tomcat8-admin sudo apt-get install -y tomcat8-admin 5
Set username and password in tomcat-users.xml file sudo vim /etc/tomcat8/tomcat-users.xml Remove the entire content of the
file and add the below data <tomcat-users> <user username="intelliqit" password="intelliqit" roles="manager-script"/>
</tomcat-users> 6 Restart tomcat9 sudo service tomcat9 restart Repeat the above 6 steps on the ProdServer AWS instance.

5 / 5 pts

5/5 Points

What is the major difference between virtualization and containerization? *

Virtualization and containerization are the two most frequently used mechanisms to host applications in a computer system.
Virtualization uses the notion of a virtual machine as the fundamental unit. Containerization, on the other hand, uses the
notion of a container. Both of these technologies play a crucial role and have their merits and demerits. Virtualization helps us
create software-based or virtual versions of a computer resource. These computer resources can include computing devices,
operating systems, networks, servers, or even applications. It allows organizations to partition a single physical computer or server into
multiple virtual machines (VM). Each VM can then interact independently and run different operating systems or applications
while sharing the resources of a single computer. Containerization is a lightweight alternative to virtualization. This involves
packaging an application in a container with its own operating environment. Thus, instead of installing an OS for each virtual
machine, containers use the host OS.

5 / 5 pts

5/5 Points

Configure a continuous deployment workflow by moving an artifact from DEV server to QA server *

1 Open the dashboard of Jenkins 2 Click on Manage Jenkins 3 Click on Manage Plugins 4 Go to Available Section-->Search for
"Deploy to Container" plugin 5 Click on Install without restart 6 Go to the dashboard of Jenkins 7 Go to Development job--
click on Configure 8 Go to Post Build actions-->Click on Add Post Build action 9 Click on Deploy war/ear to container war/ear
context path: testapp Click on Add container-->Select tomcat9 Enter tomcat username and password Tomcat url:
http://private_ip_of_qaserver:8080 10 Click on Apply-->Save 11 Go to the dashboard of Jenkins-->Go to Development job--
click on Build icon This job will deploy the artifact created in stage 2 into the tomcat in QAServers To access the application
deployed in tomcat a) Launch any browser b) public_ip_of_qaserver:8080/testapp

5 / 5 pts

5/5 Points

Configure a DevJob and D load from github URL. *

1 (Continuous Download) ===== 1 Open the dashboard of Jenkins 2 Click
on New item--> Enter item name as DevJob 3 Select Free style Project-->OK 4 Go to Source Code Management 5 Select Git 6
Enter the github url where the developer has uploaded the code https://github.com/intelliqittrainings/maven.git 7 Click on
Save 8 Go to the Dashboard of Jenkins-->Go to the Devjob Click on Build icon This job will download all the code
from the remote git repository Stage 2 (Continuous Build) ===== 1 Open the
dashboard of Jenkins 2 Go to the Devjob-->Click on Configure 3 Go to Build section 4 Click on Add Build step 5 Click on
Maven Top level maven targets 6 Enter the maven Goal as "package" 7 Click on apply-->Save 8 Go to the dashboard of Jenkins
Go to Development job-->Click on Build This job will create an artifact from the code downloaded in the previous stage This
artifact comes in the format of a war file

5 / 5 pts

10/9/22, 12:30 PM


5

1/5 pts

✓ Correct 5/5 Points

15. Create a file f2, commit the change and undo it *

```
$touch f2 $git status $git add f2 $git commit -m "f2 created" $git revert
```

J. Ky 
Course Co-ordinators

Alenal
HOD - CSE

DEVOPS ASSESSMENT

Respondent

28

YUVA SIVASAKTHI.G(AD)

11:23

Time to complete

57/60

Points

QUESTION 1

QUESTION 2

QUESTION 3

QUESTION 4

QUESTION 5

QUESTION 6

QUESTION 7

Score / 0 pts

Score / 0 pts

Score / 0 pts

Correct 3/5 Points

3 / 5 pts

QUESTION 8

QUESTION 8: Git is a distributed version control tool that can manage a development project's source code history, while GitHub is a cloud platform built around the Git tool.

Correct 4/5 Points

4 / 5 pts

QUESTION 9

QUESTION 9: CI/CD refers to a set of agile DevOp practices that include automating, building, testing, and deploying applications. Automation is especially a big key. The primary goal of CI/CD is to streamline the development cycle, thereby saving time and avoiding merge conflicts and other errors.

More options for Responses

Correct 5/5 Points

5 / 5 pts

QUESTION 10

QUESTION 10: Create a new git branch and list all branches? *

5 / 5 pts

10/9/22, 12:29 PM

✓ Correct 5/5 Points

7. Create a new workspace for Developer Raman from central repository. *

`git clone https://github.com/CentralA /home/ubuntu/Raman`

5 /5 pts

✓ Correct 5/5 Points

8. Define maven life cycle? *

There are three built-in build lifecycles: default, clean and site. The default lifecycle handles your project deployment, the clean lifecycle handles project cleaning, while the site lifecycle handles the creation of your project's web site

5 /5 pts

✓ Correct 5/5 Points

9. Create the newrel branch, create some files and synchronize it with central repo's master branch using merge commands. *

`#git brach newrel # touch f1 #git add . #git commit -m "f1 created" #ls #git checkout master #git merge master newrel`

5 /5 pts

✓ Correct 5/5 Points

10. Exhibit git cherry-pic using some examples. *

Cherry picking is the act of picking a commit from a branch and applying it to another. git cherry-pick can be useful for undoing changes. For example, say a commit is accidentally made to the wrong branch. You can switch to the correct branch and cherry-pick the commit to where it should belong `git cherry-pick af02e0b hj02e45`

5 /5 pts

✓ Correct 5/5 Points

11. Create a env in AWS cloud for DEV, QA server *

instance -> Launch instance->type name-> select UBUNTU 22 OS->Select t2.micro->select storage->configure security group->generate key-> launch instance->generate .ppk key using puttygen -> use the .ppk key and public dns ip to launch the instance

5 /5 pts

✓ Correct 5/5 Points

12. What is the major difference between virtualization and containerization? *

virtualization supports executing multiple operating systems on a single physical server;whereas containerization supports deploying multiple applications developed in the environment of one operating system residing on a single virtual machine or a server

5 /5 pts

✓ Correct 5/5 Points

Microsoft Forms

continuous deployment workflow by moving an artifact from DEV server to QA server *

1 Go to Jenkins dashboard 2 Click on Manage Jenkins 3 Click on Manage Plugins 4 Go to Available Section ---> Search for "Docker Container" plugin 5 Click on Install without restart 6 Go to the dashboard of Jenkins 7 Go to Development Job ---> Click on Post Build actions ---> Click on Add Post Build action 8 Go to Available Section ---> Search for "Docker Container" plugin 9 Click on Deploy war/ear to container Job ---> Click on Add container ---> Select tomcat9 Enter tomcat username and password Tomcat war/ear context path: testapp 10 Click on Apply ---> Save 11. Go to the dashboard of Jenkins ---> Go to Development job ---> Click on Build icon This job will deploy the artifact created in stage 2 into the tomcat in QAServers To access the application click on tomcat a) Launch any browser b) public_ip_of_qasever:8080/testapp

5/5 Points

DevJob and D load from github URL. *

5 / 5 pts

Open and login to Jenkins, Step2: create a freestyle devjob project, Step3: Paste the GitHub repository link, Step4: Apply the changes.

5/5 Points

file f2, commit the change and undo it *

5 / 5 pts

```
f2 #git add . #git commit -m "f2 created" #ls #git log #git revert commitid #git add #git commit -m "f2 reverted" #ls #git
```

Handwritten signature and text: "The Co-ordinators"

Handwritten signature and text: "Mehal HOD - CSE"

Review: DEVOPS ASSESSMENT

Respondent

33 TJOSHUA(CS)

13:51
Time to complete

57/60
Points

1 NAME *

Score / 0 pts

Joshua T

2 ROLL NO *

Score / 0 pts

20ucs100

3 DEPARTMENT *

Score / 0 pts

CSE A

CSE B

ADS

X Incorrect 4/5 Points

4 / 5 pts

Define GIT & GitHub? *

Git is a version control system that lets you manage and keep track of your source code history. GitHub is a cloud-based hosting service that lets you manage Git repositories. If you have open-source projects that use Git, then GitHub is designed to help you better manage them.

4 / 5 pts

X Incorrect 4/5 Points

More options for Responses

Explain CI - CD Devops lifecycle? *

Continuous Development Continuous Download Continuous Compile/build Continuous testing

4 / 5 pts

X Incorrect 4/5 Points

Create a newrel branch and list all branches? *

Git branch newrel Git branch -a

5 / 5 pts

Correct 5/5 Points

10/9/22, 12:28 PM

7. Create a new workspace for Developer Raman from central repository. *

Git clone /home/ubuntu/central.git /home/ubuntu/raman

5 / 5 pts

✓ Correct 5/5 Points

8. Define maven life cycle? *

Validate, Compile, Test, Package, Integration test, Verify, Install and Deploy. The default Maven lifecycle consists of 8 major steps or phases for compiling, testing, building and installing a given Java project.

5 / 5 pt

✓ Correct 5/5 Points

9. Create the newrel branch, create some files and synchronize it with central repo's master branch using merge commands. *

Git checkout works hand-in-hand with git branch. The git branch command can be used to create a new branch. When you want to start a new feature, you create a new branch off main using git branch new_branch. Once created you can then use git checkout new_branch to switch to that branch. Additionally, The git checkout command accepts a -b argument that acts as a convenience method which will create the new branch and immediately switch to it. You can work on multiple features in a single repository by switching between them with git checkout.

5 / 5

✓ Correct 5/5 Points

10. Exhibit git cherry-pic using some examples. *

git cherry-pick is a powerful command that enables arbitrary Git commits to be picked by reference and appended to the current working HEAD. Cherry picking is the act of picking a commit from a branch and applying it to another. git cherry-pick can be useful for undoing changes. For example, say a commit is accidentally made to the wrong branch. You can switch to the correct branch and cherry-pick the commit to where it should belong.

5 / 5

✓ Correct 5/5 Points

11. Create a env in AWS cloud for DEV, QA server *

instance -> Launch instance-> type name-> select UBUNTU 22 OS-> Select t2.micro->select storage->configure security group->generate key-> launch instance->generate .ppk key using puttygen -> use the .ppk key and public dns ip to launch the instance

5 / 5

✓ Correct 5/5 Points

12. What is the major difference between virtualization and containerization? *

Virtualization and containerization are the two most frequently used mechanisms to host applications in a computer system. Virtualization uses the notion of a virtual machine as the fundamental unit. Containerization, on the other hand, uses the concept of a container. In

✓ Correct 5/5 Points

5

Microsoft Forms

continuous deployment workflow by moving an artifact from DEV server to QA server *

1. Go to the dashboard of Jenkins 2. Click on Manage Jenkins 3. Click on Manage Plugins 4. Go to Available Section ---> Search for "Container" plugin 5. Click on Install without restart 6. Go to the dashboard of Jenkins 7. Go to Development job ---> Click on Post Build actions ---> Click on Add Post Build action 9. Click on Deploy war/ear to container war/ear 10. Click on Apply ---> Save 11. Go to the dashboard of Jenkins ---> Go to Development job ---> Click on Build icon This job will deploy the artifact created in stage 2 into the tomcat in QAServers To access the application Launch any browser b) public_ip_of_qasever:8080/testapp

5/5 Points

DevJob and D load from github URL. *

1. Click on new item Free style project Go to source code management select git Paste the GitHub URL in the repository name field Apply and save.

5 / 5 pts

5/5 Points

file f2, commit the change and undo it *

1. #git add f2 #git commit -m "f2 created" #git reset f2

5 / 5 pts

[Handwritten signature]
Course - Coordinator

[Handwritten signature]
HOD/CSE

ACADEMIC YEAR 2022-23(ODD)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON DEVOPS

Grade Sheet

19.22 - 24.09.22
 II CSE & ADS
 of students:36

Resource person:Mr.G.S.Raman

Regulation : 2020

No.	Dept	Section	Student Name	Internal marks(40)	External marks(60)	Total (100)
005	CSE	A	MARIAMMAL.D(CS)	40	60	100
061	CSE	A	LATHA.K(CS)	40	55	95
092	CSE	A	DHAMOTHARAN.S(CS)	40	58	98
3056	CSE	A	SAKTHI PONHINI.P(CS)	40	57	97
3025	CSE	A	SHAKEEL AHMED(CS)	40	58	98
3029	CSE	A	NATHEESH.A(CS)	40	58	98
3030	CSE	A	MADHUBALAN.S(CS)	40	53	93
3103	CSE	A	MANOJ.K(CS)	40	55	95
3047	CSE	A	KALEESWARI.D(CS)	40	52	92
3059	CSE	A	PRAVEEN.A(CS)	AB	AB	AB
3036	CSE	B	GIRIVASAN.S.V(CS)	40	57	97
CS067	CSE	B	KAVIYA RAJESWARI.S(CS)	40	58	98
CS062	CSE	B	SHARUMATHI.A(CS)	40	57	97
CS066	CSE	B	HARIKARAN.M.S(CS)	40	55	95
CS090	CSE	B	DANIEL.M(CS)	40	55	95
CS100	CSE	B	T.JOSHUA(CS)	40	57	97
CS018	CSE	B	RAGUL.A.S (CS)	40	57	97
CS016	CSE	B	MADHAN.S(CS)	40	60	100
CS083	CSE	B	MANOSRI.R(CS)	40	55	95
CS089	CSE	B	SUBASH KUMAR.M(CS)	40	54	94
CS022	CSE	B	MANOJ KUMAR.S(CS)	40	57	97
CS065	CSE	B	RAJ FLINTOFF.S(CS)	40	57	97

23	20UCS073	CSE	B	MANICK JOE BEVAN.A(CS)			95
24	20UCS095	CSE	B	SARVASHI.S.S(CS)	40	56	96
25	20UCS045	CSE	B	SANJAYKUMAR.S(CS)	40	56	96
26	20UCS048	CSE	B	VENKATESHIKANNAN.M. S(CS)	40	56	96
27	20UCS107	CSE	B	SUBIKSHA.A(CS)	40	52	92
28	20UAD014	ADS	B	JAYANTHAN.R(AD)	40	60	100
29	20UAD002	ADS	B	JERALD JESUDASAN.J(AD)	40	60	100
30	20UAD025	ADS	B	SRI DEVI DHARSHINI.K(AD)	40	56	96
31	20UAD030	ADS	B	SIVARANJANI.M(AD)	40	56	96
32	20UAD001	ADS	B	GOPIKRISHNAN.P(AD)	40	55	95
33	20UAD008	ADS	B	SHRIDHARAN.R.B(AD)	40	55	95
34	20UAD023	ADS	B	YUVA SIVASAKTHI.G(AD)	40	57	97
35	20UAD045	ADS	B	ASHOK KUMAR.K	40	52	92
36	20UAD026	ADS	B	TILAK.N.G(AD)	40	57	97

f. Ky
Course Coordinators

[Signature]
VAC Coordinator

[Signature]
HOD/CSE

Res - Bar
15/11/2022

OPS - DAY 1 - FEEDBACK

35
Responses

00:47
Average time to complete

Active
Status

Percentage of the Student

35
Responses

Latest Responses
"M.subash Kumar "
"ASHOK KUMAR K "
"M.S.Venkatesh Kannan"

Students (11%) answered **Kumar** for this question.

Vikrishnan P

Msubash Kumar

S S Sarvash

R JAYANTHAN

dharshini K

R

Kumar

k M

R Ma

Joshua T

SSanjay Kumar

hi ponhinip

SManoj Kumar

Manoj k MSVenkatesh Kani

Yuva sivasakathi

Shakeel ahmed

28/09/2022, 14:59

2. Roll No

35

Responses

Latest Responses

"20ucs089"

"20UAD045"

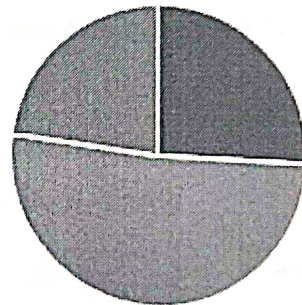
"20UCS048"

2 respondents (6%) answered 20UCS048 for this question.

20uad014 20ucs100 20ucs047 20ucs036
 20UCS092 20ucs025 **20UCS048** 20UCS030
 20uad030 20UCS022 20ucs103 20ucs029
 20UCS073 20ucs083 20ucs018 20UAD
 20ucs067

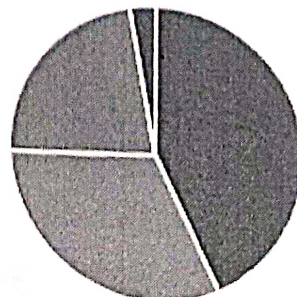
3. Class

- III CSE A 9
- III CSE B 18
- III ADS 8



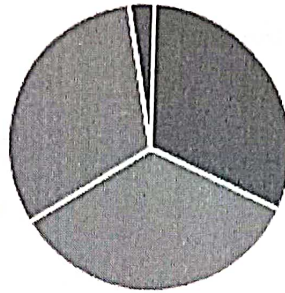
4. Were objectives of the program met?

- Completely agree 15
- Strongly agree 11
- Agree 8
- Partially agree 1
- Disagree 0



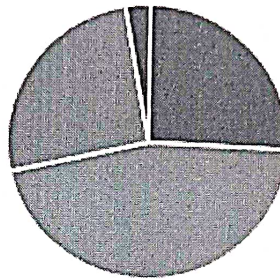
5. Was the program sequence well planned?

- Completely agree 11
- Strongly agree 12
- Agree 11
- Partially agree 1
- Disagree 0



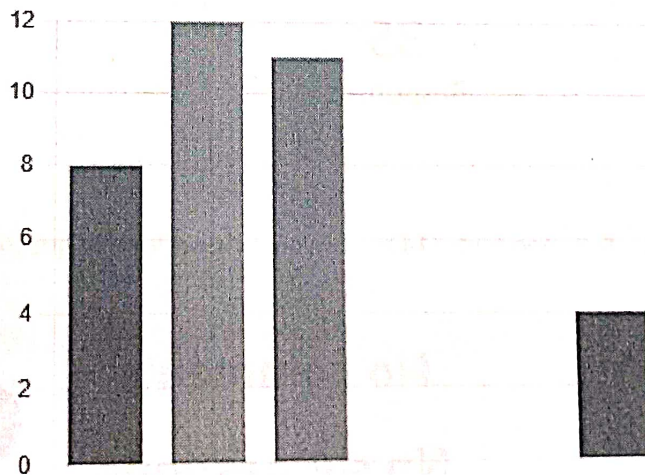
6. Were the lectures clear and easy to understand?

- Completely agree 9
- Strongly agree 16
- Agree 9
- Partially agree 1
- Disagree 0



7. Whether the instructors encouraged the interaction?

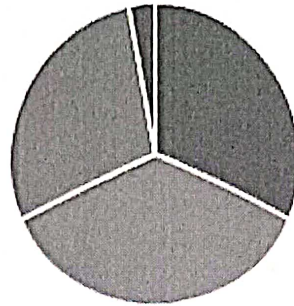
- Completely agree 8
- Strongly agree 12
- Agree 11
- Partially agree 0
- Disagree 0
- Other 4



28/09/2022, 14:59

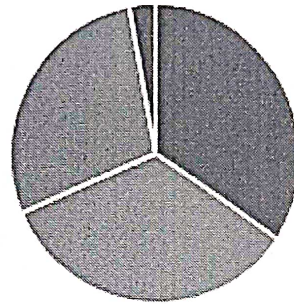
8. The information delivered at this program was highly beneficial?

- Completely agree 11
- Strongly agree 13
- Agree 10
- Partially agree 1
- Disagree 0



9. Organization of the program was good?

- Completely agree 12
- Strongly agree 12
- Agree 10
- Partially agree 1
- Disagree 0



10. Comments/Suggestions

35 Responses

Latest Responses

"Nothing "

" "

"No comments"

5 respondents (14%) answered **Good** for this question.

No comments

No suggestions

None

Good Nil Nope

Session was very

view results

Respondent

1 MADHUBALAN.S(CS)

01:03
Time to complete

Name of the Student

S.Madhubalan

Roll No *

0UCS030

SS *

III CSE A

III CSE B

III ADS

Are objectives of the program met?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

Is the program sequence well planned?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

[More options for Resp](#)

30/09/2022, 16:20

6. Were the lectures clear and easy to understand? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

7. Whether the instructors encouraged the interaction? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

8. The information delivered at this program was highly beneficial? *

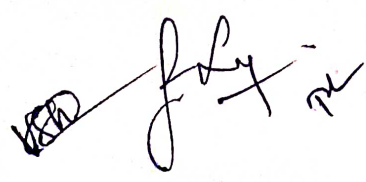
- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

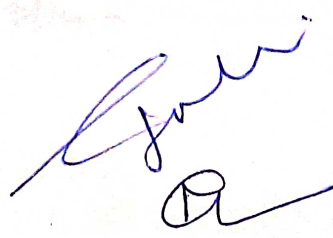
9. Organization of the program was good? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

10. Comments/Suggestions *

Good ☺


 course coordinators


 Vac co-ordinators


 HOD/CS

DEVOPS - DAY 2- FEEDBACK

31

Responses

01:30

Average time to complete

Active

Status

1. Name of the Student

31

Responses

Latest Responses

"K.Sridevi dharshini"

"M.subash Kumar "

"S.Sanjay Kumar"

3 respondents (10%) answered **Kumar** for this question.

BEVAN Joshua T yuva sivasakthig KSridevi dharshini
 SSanjay Kumar
 JOE SMANOJ KUMAR **Kumar** M S V J
 Jesudasan Daniel M Shakeel ahmed Sakthi ponhir
 Gopikrishnan p

28/09/2022, 15:00

2. Roll No

31
Responses

Latest Responses

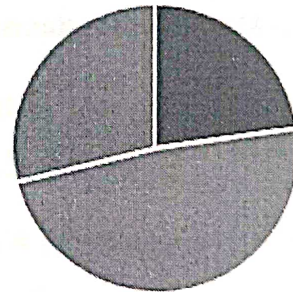
"20uad025"
"20ucs089"
"20ucs045"

1 respondents (3%) answered 20ucs107 for this question.

20ucs095 20ucs025
20uad045 20uad014 20uad008 20UCS065
20ucs047 20ucs036 20ucs107 20ucs100 20uc
20uad030 20ucs103 20UCS073 20uad002 20uc
20ucs090 20ucs003 20ucsl

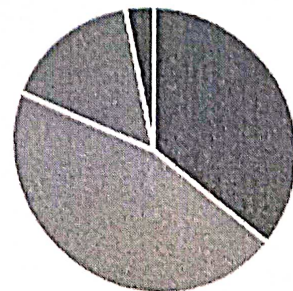
3. Class

● III CSE A	7
● III CSE B	15
● III ADS	9



4. Were objectives of the program met?

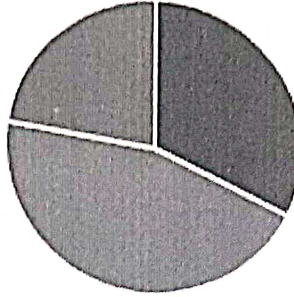
● Completely agree	11
● Strongly agree	14
● Agree	5
● Partially agree	1
● Disagree	0



15:00

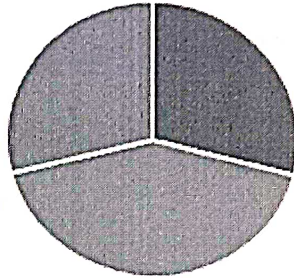
5. Was the program sequence well planned?

<input type="radio"/> Completely agree	10
<input type="radio"/> Strongly agree	14
<input type="radio"/> Agree	7
<input type="radio"/> Partially agree	0
<input type="radio"/> Disagree	0



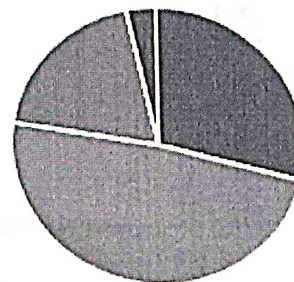
6. Were the lectures clear and easy to understand?

<input type="radio"/> Completely agree	9
<input type="radio"/> Strongly agree	13
<input type="radio"/> Agree	9
<input type="radio"/> Partially agree	0
<input type="radio"/> Disagree	0



7. Whether the instructors encouraged the interaction?

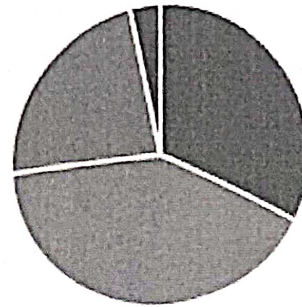
<input type="radio"/> Completely agree	9
<input type="radio"/> Strongly agree	15
<input type="radio"/> Agree	6
<input type="radio"/> Partially agree	1
<input type="radio"/> Disagree	0



28/09/2022, 15:00

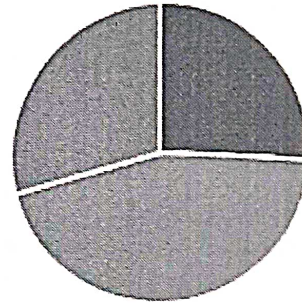
8. The information delivered at this program was highly beneficial?

- Completely agree 10
- Strongly agree 13
- Agree 7
- Partially agree 1
- Disagree 0



9. Organization of the program was good?

- Completely agree 8
- Strongly agree 14
- Agree 9
- Partially agree 0
- Disagree 0



10. Comments/Suggestions

31 Responses

Latest Responses

- "nil"
- "Nothing "
- "nil"

5 respondents (17%) answered No for this question.

Good **No** **Nil** none

session was very informative

DEVOPS - DAY 2- FEEDBACK

16:20

results

Respondent

1 SUBIKSHA.A(CS)

00:28

Time to complete

Name of the Student

Subiksha

Roll No *

UCS107

Course *

III CSE A

III CSE B

III ADS

Are the objectives of the program met?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

Is the program sequence well planned?

More options for Resp

Completely agree

Strongly agree

Agree

Partially agree

Disagree

30/09/2022, 16:20

6. Were the lectures clear and easy to understand? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

7. Whether the instructors encouraged the interaction? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

8. The information delivered at this program was highly beneficial? *

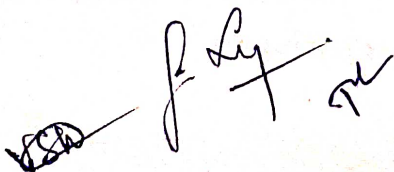
- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

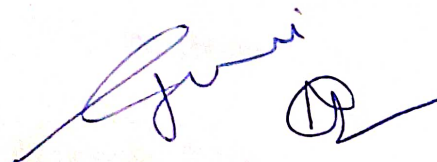
9. Organization of the program was good? *


- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

10. Comments/Suggestions *

-


course - coordinators


Voc Coordinators


HOD - CSE

DEVOPS - DAY 3- FEEDBACK

35
Responses

00:42
Average time to complete

Active
Status

1. Name of the Student

35
Responses

Latest Responses

"K.Sridevi dharshini"

"S.S.Sarvash"

"Joshua T"

5 respondents (15%) answered **Kumar** for this question.

JAYANTHAN R Daniel M yuva sivasakthig KSridevi dharshini
Jesudasan Sakthi Ponhini
Girivasan Msubash Kumar **Kumar** SSanjay Kumar
MSVenkatesh Kannan Joshua T SManoj Kumar
Shakeel ahmed

28/09/2022, 15:00

2. Roll No

35
Responses

Latest Responses

"20uad025"

"20ucs095"

"20ucs100"

2 respondents (6%) answered 20ucs045 for this question.

20UCS065 20UCS030 20u

20UCS090 20ucs047 20ucs022 20uad

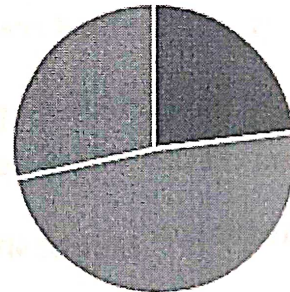
20uad030 20uad002 **20ucs045** 20uad

20uad023 20UCS048 20UCS073 20uad014 20u

20uad001 20uad045 20ucs089 20ucs083

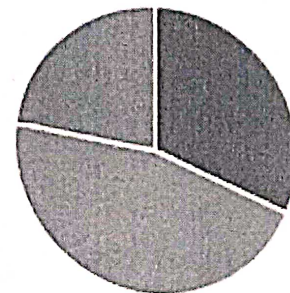
3. Class

- III CSE A 8
- III CSE B 17
- III ADS 10



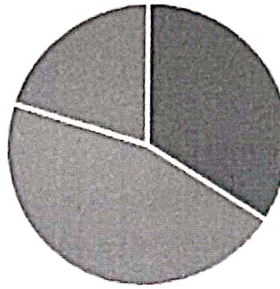
4. Were objectives of the program met?

- Completely agree 11
- Strongly agree 16
- Agree 8
- Partially agree 0
- Disagree 0



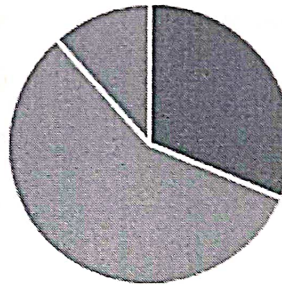
5. Was the program sequence well planned?

- Completely agree 12
- Strongly agree 16
- Agree 7
- Partially agree 0
- Disagree 0



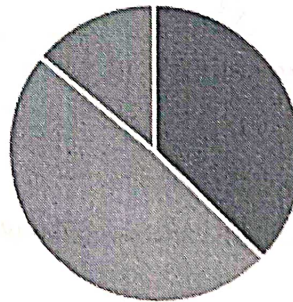
6. Were the lectures clear and easy to understand?

- Completely agree 11
- Strongly agree 20
- Agree 4
- Partially agree 0
- Disagree 0



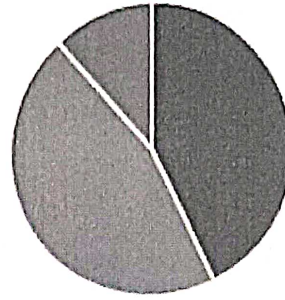
7. Whether the instructors encouraged the interaction?

- Completely agree 13
- Strongly agree 17
- Agree 5
- Partially agree 0
- Disagree 0



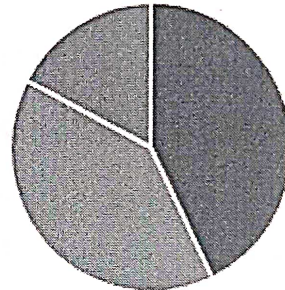
8. The information delivered at this program was highly beneficial?

- Completely agree 15
- Strongly agree 16
- Agree 4
- Partially agree 0
- Disagree 0



9. Organization of the program was good?

- Completely agree 15
- Strongly agree 14
- Agree 6
- Partially agree 0
- Disagree 0



10. Comments/Suggestions

35 Responses

Latest Responses

"nil"

"_"

"nothing"

4 respondents (12%) answered **Good** for this question.

none **Good** **NIL**

No suggestions

session was very

VSD fky tv
Course coordinators

[Signature]
VAC Coordinators

HOD-CSE

1/1

Results

Respondent

1 SHARUMATHIA(CS)

00:39

Time to complete

Name of the Student

Sharumathi

Roll No *

cs062

Course *

III CSE A

III CSE B

III ADS

Are the objectives of the program met?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

More options for Responses

Is the program sequence well planned?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

10/10/22, 3:08 PM

6. Were the lectures clear and easy to understand? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

7. Whether the instructors encouraged the interaction? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

8. The information delivered at this program was highly beneficial? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

9. Organization of the program was good? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

10. Comments/Suggestions *

[Signature]
Course - co-ordinators

[Signature]
VAE - co-ordinators

[Signature]
HOD - CSG

VOPS - DAY 4- FEEDBACK

36

Responses

00:49

Average time to complete

Active

Status

Name of the Student

36

Responses

Latest Responses

"A.MANICK JOE BEVAN"

"S.Sanjay Kumar"

"K.Sridevi dharshini"

5 respondents (14%) answered **Kumar** for this question.

Gopikrishnan p Ashok SMANOJ KUMAR MSVenkatesh
Girivasan Msubash Kumar
JAYANTHAN R JOE **Kumar** SSanjay Kumar
Shakeel ahmed BEVAN^S KSridevi dharshi
Tilak NG yuva sivasakthig SAKTHI PONHINIP

28/09/2022, 15:01

2. Roll No

36
Responses

Latest Responses

"20UCS073"

"20ucs045"

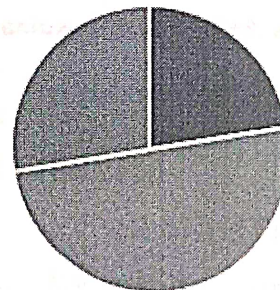
"20uad025"

2 respondents (6%) answered 20ucs045 for this question.

20ucs095 20ucs025 20i
20uad001 20ucs018 20ucs047 20UCS
20uad030 20uad045 **20ucs045**
20uad002 20ucs103 20ucs092 20ucs107 20i
20uad014 20ucs089 20ucs066 20UCS003

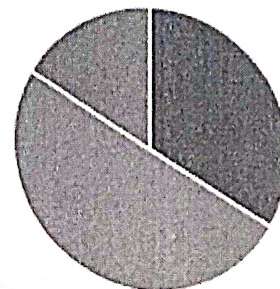
3. Class

- III CSE A 8
- III CSE B 18
- III ADS 10



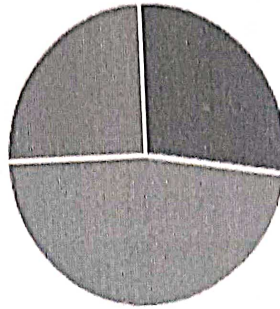
4. Were objectives of the program met?

- Completely agree 12
- Strongly agree 18
- Agree 6
- Partially agree 0
- Disagree 0



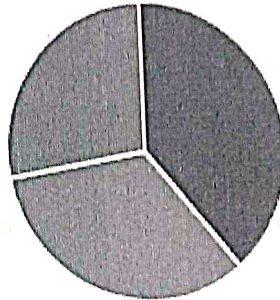
5. Was the program sequence well planned?

- Completely agree 10
- Strongly agree 17
- Agree 9
- Partially agree 0
- Disagree 0



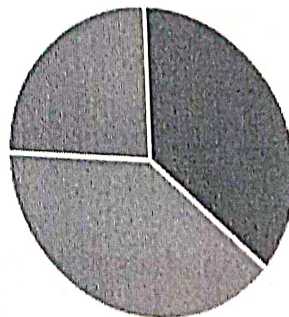
6. Were the lectures clear and easy to understand?

- Completely agree 14
- Strongly agree 12
- Agree 10
- Partially agree 0
- Disagree 0



7. Whether the instructors encouraged the interaction?

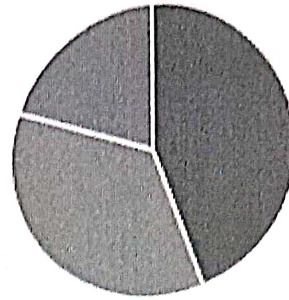
- Completely agree 13
- Strongly agree 14
- Agree 9
- Partially agree 0
- Disagree 0



28/09/2022, 15:01

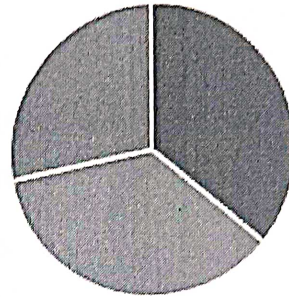
8. The information delivered at this program was highly beneficial?

- Completely agree 16
- Strongly agree 13
- Agree 7
- Partially agree 0
- Disagree 0



9. Organization of the program was good?

- Completely agree 13
- Strongly agree 13
- Agree 10
- Partially agree 0
- Disagree 0



10. Comments/Suggestions

36 Responses

Latest Responses

- "_"
- "Nil"
- "nil"

6 respondents (17%) answered nil for this question.

none
 session was very informative **nil** Good
 No comments

[Signature]
 Course Co-ordinators

[Signature]
 VAC-co-ordinators

[Signature]
 HOD-CSE

DEVOPS - DAY 4- FEEDBACK

id

Respondent

3

MADHAN.S(CS)

00:27

Time to complete

of the Student

id

id *

id

id *

III CSE A

III CSE B

III ADS

the objectives of the program met?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

More options for Response

the program sequence well planned?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

10/10/22, 3:05 PM

6. Were the lectures clear and easy to understand? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

7. Whether the instructors encouraged the interaction? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

8. The information delivered at this program was highly beneficial? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

9. Organization of the program was good? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

10. Comments/Suggestions *

no

[Handwritten signature]

Course Coordinators

[Handwritten signature]

VAC - Co-ordinators

[Handwritten signature]

HOD CSE

OPS - DAY 5- FEEDBACK

29
Responses

00:45
Average time to complete

Active
Status

Name of the Student

29
Responses

Latest Responses

"Ashok Kumar K "

"A.MANICK JOE BEVAN"

"GIRIVASAN S V "

respondents (10%) answered kumar for this question.

Daniel M yuva sivasakthig Shakeel ahmed
KSridevi dharshini **JOE S kumar** K
Ashok TIlak NG **BEVAN** Je F
SSanjay Kumar Msubash kumar
Jesudasan GIRIVASAN MSVenkat

30/09/2022, 16:18

2. Roll No

29

Responses

Latest Responses

"20uad045"

"20UCS073"

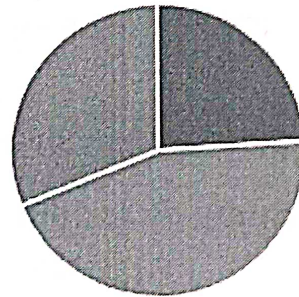
"20UCS036"

2 respondents (7%) answered 20UCS073 for this question.

20uad014 20ucs025 20ucs083 20ucs029 20u
 20uad001 20UCS048 **20UCS073** 20uad002 20U
 20uad008 20ucs047 20uad023 20UCS065 20ucs089
 20ucs067 20ucs045 20ucs018 20uad030 20u

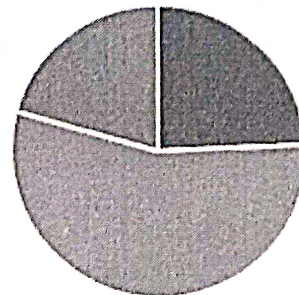
3. Class

- III CSE A 7
- III CSE B 13
- III ADS 9



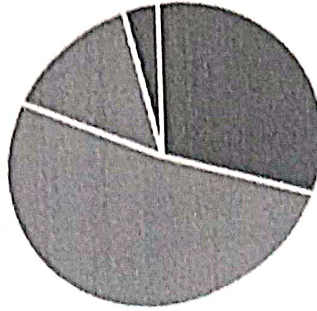
4. Were objectives of the program met?

- Completely agree 7
- Strongly agree 16
- Agree 6
- Partially agree 0
- Disagree 0



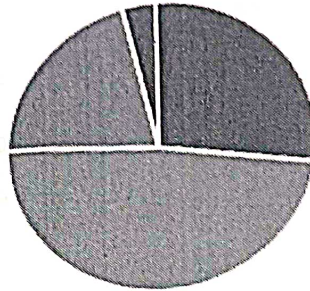
Was the program sequence well planned?

● Completely agree	9
● Strongly agree	15
● Agree	4
● Partially agree	1
● Disagree	0



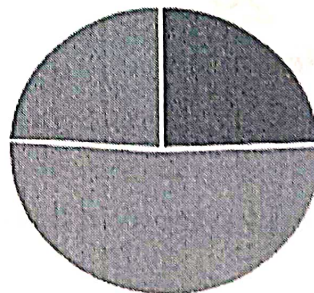
Were the lectures clear and easy to understand?

● Completely agree	8
● Strongly agree	14
● Agree	6
● Partially agree	1
● Disagree	0



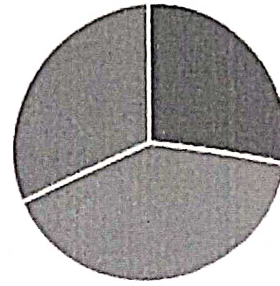
7. Whether the instructors encouraged the interaction?

● Completely agree	7
● Strongly agree	15
● Agree	7
● Partially agree	0
● Disagree	0



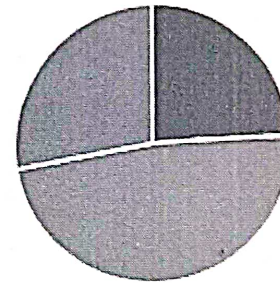
8. The information delivered at this program was highly beneficial?

- Completely agree 8
- Strongly agree 12
- Agree 9
- Partially agree 0
- Disagree 0



9. Organization of the program was good?

- Completely agree 7
- Strongly agree 14
- Agree 8
- Partially agree 0
- Disagree 0



10. Comments/Suggestions

29 Responses

Latest Responses

" "
" "
" "

4 respondents (14%) answered **Good** for this question.

No suggestions **Good** Nil
session was very infor

[Signature]
course coordinators

[Signature]
NAC-coordinators

[Signature]
HOD CSE

DEVOPS - DAY 5- FEEDBACK

00:37
Time to complete

Respondent
1 JERALD JESUDASAN J(AD)

Name of the Student

Jerald Jesudasan J

Roll No *

0303002

Class *

- III CSE A
- III CSE B
- III ADS

Were objectives of the program met?

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

More options for Re

Was the program sequence well planned?

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

10/10/22, 3:07 PM

6. Were the lectures clear and easy to understand? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

7. Whether the instructors encouraged the interaction? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

8. The information delivered at this program was highly beneficial? *


- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

9. Organization of the program was good? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

10. Comments/Suggestions *

Good


Course coordinators


VAC coordinators


HODs

DEVOPS - DAY 6- FEEDBACK

27
Responses

01:07
Average time to complete

Active
Status

1. Name of the Student

27
Responses

Latest Responses
"M.S.Venkatesh Kannan"
"M.S.Venkatesh Kannan"
"S.S.Sarvash"

3 respondents (11%) answered **Kumar** for this question.

JOE KSridevi dharshini Jesudasan GOPIKRIS
Flintoff yuva sivasakthig S V MSVenkate
Raj Msubash kumar **Kumar** K J
Jerald shakeel ahmed SAKTHI PONHINIP SSanjay Kumar [Ashok Jayant

2. Roll No

27
Responses

Latest Responses

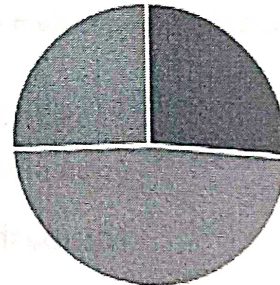
- "20ucs048"
- "20UCS048"
- "20ucs095"

2 respondents (7%) answered 20UCS048 for this question.

20ucs029 20uad030 20ucs045 20ucs047 20
20UCS036 20UCS003 **20UCS048** 20ucs092 20
20uad023 20
20UAD002 20ucs018 20uad014 20ucs089 20ucs03
20ucs025 20UCS073 20ucs083

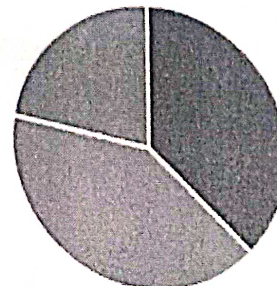
3. Class

- III CSE A 7
- III CSE B 13
- III ADS 7



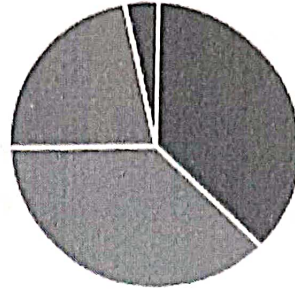
4. Were objectives of the program met?

- Completely agree 10
- Strongly agree 11
- Agree 6
- Partially agree 0
- Disagree 0



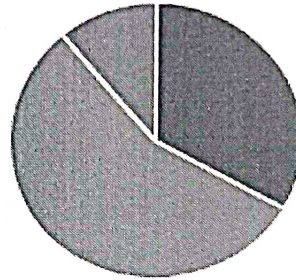
5. Was the program sequence well planned?

- Completely agree 10
- Strongly agree 10
- Agree 6
- Partially agree 1
- Disagree 0



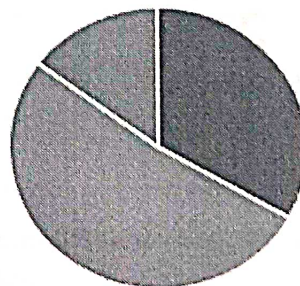
6. Were the lectures clear and easy to understand?

- Completely agree 9
- Strongly agree 15
- Agree 3
- Partially agree 0
- Disagree 0



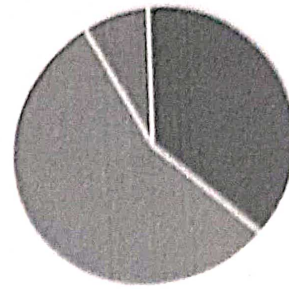
7. Whether the instructors encouraged the interaction?

- Completely agree 9
- Strongly agree 14
- Agree 4
- Partially agree 0
- Disagree 0



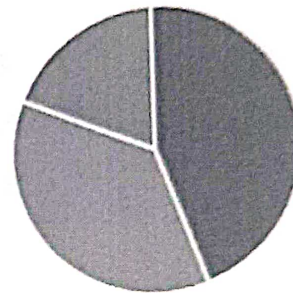
8. The information delivered at this program was highly beneficial?

- Completely agree 10
- Strongly agree 15
- Agree 2
- Partially agree 0
- Disagree 0



9. Organization of the program was good?

- Completely agree 12
- Strongly agree 10
- Agree 5
- Partially agree 0
- Disagree 0



10. Comments/Suggestions

27
Responses

Latest Responses

"no comments"

"No suggestions"

"_"

2 respondents (7%) answered Nil for this question.

No suggestions
useful
no comments
none
Nil Good
session was very infor

View results

Respondent

1

DHAMOTHARAN.S(CS)

00:39

Time to complete

Name of the Student

S.Dhamotharan

Roll No *

20ucs092

Class *

III CSE A

III CSE B

III ADS

Were objectives of the program met?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

Was the program sequence well planned?

Completely agree

Strongly agree

Agree

Partially agree

Disagree

More options

30/09/2022, 16:19

6. Were the lectures clear and easy to understand? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

7. Whether the instructors encouraged the interaction? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

8. The information delivered at this program was highly beneficial? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

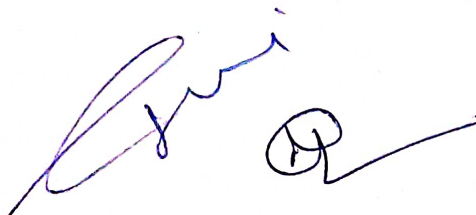
9. Organization of the program was good? *

- Completely agree
- Strongly agree
- Agree
- Partially agree
- Disagree

10. Comments/Suggestions *



COURSE CO-ORDINATORS



VAC CO-ORDINATORS



HOD-CSE



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vettakulam - 625 701 (Near VIRUDHUNAGAR).

ACADEMIC YEAR 2022-23(ODD)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ON DEVOPS

REPORT

Date: 19.09.22 – 24.09.22

YEAR: III CSE & ADS

Resource person: Mr.G.S.Raman

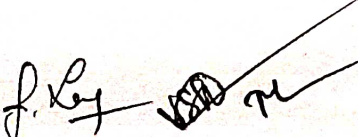
Total no of students: 36

Regulation : 2020


The Department of Computer Science and Engineering organized a value added course on “DEVOPS” for III year students of CSE & ADS.

Dr.A.Meenakshi, Professor and HOD of CSE department, welcomed all the participants for the value added course. Mr.G.S.Raman, the resource person explained the AWS cloud essential services using EC2 instances on Day 1. On Day 2, he explained about the DevOps essentials using GitHub. On Day 3, he illustrated about the usage of Maven tools and its management. On Day 4, how to manage and distribute the Jenkins applications was taught to the students. On Day 5, he explained about the Docker and containers for the students and how to import an image using github repository. On Day 6, he explained about the container orchestration using Kubernetes and how to update the pods in the cluster using Amazon Web Services(AWS).

Thus it helped the students to get the knowledge about the DevOps, how to deploy an application like HTML, CSS files using Jenkins, then to integrate the pipeline between master and the slave nodes by using Tomcat. Totally, 35 students attended the value added course and got benefitted from the same.


Course Coordinators


VAC Co-ordinator


HoD-CSE

VALUE ADDED COURSE ON DEVOPS

External marks

Date: 19.09.22 – 24.09.22

YEAR: III CSE & ADS

Resource person:Mr.G.S.Raman

Total no of students:36

Regulation : 2020

Sl.No.	Roll No.	Dept	Section	Student Name	External marks(60)
1	20UCS003	CSE	A	MARIAMMAL.D(CS)	60
2	20UCS061	CSE	A	LATHA.K(CS)	55
3	20UCS092	CSE	A	DHAMOTHARAN.S(CS)	58
4	20UCS056	CSE	A	SAKTHI PONHINI.P(CS)	57
5	20UCS025	CSE	A	SHAKEEL AHMED(CS)	58
6	20UCS029	CSE	A	NATHEESH.A(CS)	58
7	20UCS030	CSE	A	MADHUBALAN.S(CS)	53
8	20UCS103	CSE	A	MANOJ.K(CS)	55
9	20UCS047	CSE	A	KALEESWARI.D(CS)	52
10	20UCS059	CSE	A	PRAVEEN.A(CS)	AB
11	20UCS036	CSE	B	GIRIVASAN.S.V(CS)	57
12	20UCS067	CSE	B	KAVIYA RAJESWARI.S(CS)	58
13	20UCS062	CSE	B	SHARUMATHI.A(CS)	57
14	20UCS066	CSE	B	HARIKARAN.M.S(CS)	55
15	20UCS090	CSE	B	DANIEL.M(CS)	55
16	20UCS100	CSE	B	T.JOSHUA(CS)	57
17	20UCS018	CSE	B	RAGUL.A.S (CS)	57
18	20UCS016	CSE	B	MADHAN.S(CS)	60

19	20UCS083	CSE	B	MANOSRI.R(CS)	55
20	20UCS089	CSE	B	SUBASH KUMAR.M(CS)	54
21	20UCS022	CSE	B	MANOJ KUMAR.S(CS)	57
22	20UCS065	CSE	B	RAJ FLINTOFF.S(CS)	57
23	20UCS073	CSE	B	MANICK JOE BEVAN.A(CS)	55
24	20UCS095	CSE	B	SARVASH.S.S(CS)	56
25	20UCS045	CSE	B	SANJAYKUMAR.S(CS)	56
26	20UCS048	CSE	B	VENKATESHKANNAN.M. S(CS)	56
27	20UCS107	CSE	B	SUBIKSHA.A(CS)	52
28	20UAD014	ADS	B	JAYANTHAN.R(AD)	60
29	20UAD002	ADS	B	JERALD JESUDASAN.J(AD)	60
30	20UAD025	ADS	B	SRI DEVI DHARSHINI.K(AD)	56
31	20UAD030	ADS	B	SIVARANJANI.M(AD)	56
32	20UAD001	ADS	B	GOPIKRISHNAN.P(AD)	55
33	20UAD008	ADS	B	SHRIDHARAN.R.B(AD)	55
34	20UAD023	ADS	B	YUVA SIVASAKTHI.G(AD)	57
35	20UAD045	ADS	B	ASHOK KUMAR.K	52
36	20UAD026	ADS	B	TILAK.N.G(AD)	57



S.k. Sanjay Ri

VALUE ADDED COURSE ON DEVOPS

Internal marks

Date: 19.09.22 – 24.09.22

YEAR: III CSE & ADS

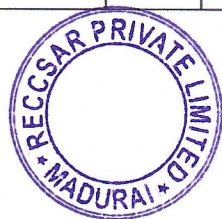
Resource person: Mr.G.S.Raman

Total no of students:36

Regulation : 2020

Sl.No.	Roll No.	Dept	Section	Student Name	Internal marks(40)
1	20UCS003	CSE	A	MARIAMMAL.D(CS)	40
2	20UCS061	CSE	A	LATHA.K(CS)	40
3	20UCS092	CSE	A	DHAMOTHARAN.S(CS)	40
4	20UCS056	CSE	A	SAKTHI PONHINI.P(CS)	40
5	20UCS025	CSE	A	SHAKEEL AHMED(CS)	40
6	20UCS029	CSE	A	NATHEESH.A(CS)	40
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10	20UCS059	CSE	A	PRAVEENA.A(CS)	AB
11	20UCS036	CSE	B	GIRIVASAN.S.V(CS)	40
12	20UCS067	CSE	B	KAVIYA RAJESWARI.S(CS)	40
13	20UCS062	CSE	B	SHARUMATHI.A(CS)	40
14	20UCS066	CSE	B	HARIKARAN.M.S(CS)	40
15	20UCS090	CSE	B	DANIEL.M(CS)	40
16	20UCS100	CSE	B	T.JOSHUA(CS)	40
17	20UCS018	CSE	B	RAGUL.A.S (CS)	40
18	20UCS016	CSE	B	MADHAN.S(CS)	40

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S.k. Sanjay Ri