



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



REQUISITION LETTER

From,

Head of the Department,

Master of Computer Applications,

JKK Munirajah College of Technology,

T.N.Palayam.

To,

The Principal,

JKK Munirajah College of Technology,

T.N.Palayam.

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program- Reg

We have planned to conduct a certificate program for I, II year Master of Computer Applications students on "DevOps Practices for Computer Applications" from 03.01.2023 to 07.01.2023 by Program Coordinator Mrs.P.ARCHANA AP/MCA. So, I request you to kindly provide permission to conduct the certificate program.

Thanking You,

Yours Truly,

Place: T.N.Palayam

Date:21.12.2022

Permitted
21/12/22

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JKKMCT/CIRCULAR/DEC-2023

27/12/2023

CIRCULAR

The Department of Computer Applications is planning to organize a Certificate Program on "Devops Practices for Computer Applications" (30 Hours) for the benefit of the students from 03.01.2023 (Tuesday) to 07.01.2023 (Saturday). Students those who are willing to attend the Program can enroll their names to their class in-charges respectively on or before 30.12.2022.



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Copy To,

All the HODs and Staff Members,
All the Students,
Notice Board, File

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

PROGRAM SYLLABUS

Name of the Certificate Program : DevOps Practices for Computer Applications
Program Code : 21MCADPCAT01
Name of the Program Coordinator : Mrs.P.ARCHANA APM/CA

Academic Year: 2022-2023

Program Contents

Total Hours: 30

Chapter 1: DevOps Fundamentals

- Overview
- Why DevOps
- Sustainable DevOps
- Compliance and security in DevOps
- Change Agents and the DevOps Journey
- Supplemental learning
- Review Questions

Chapter 2: Deploy and Configure Standardized Environments

- Overview
- Environments in IaaS/PaaS and with Containers
- ARM Templates and Desired State Configuration
- Supplemental learning
- Review Questions

Chapter 3: Build and Deploy Automatically to Production Often and Consistently

- Overview
- Automated Builds
- Automated Deployments
- Package Management and Containers
- Lab: Continuous Integration and Continuous Deployment
- Supplemental learning

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- Review Questions

Chapter 4: Test Automatically Before and In Production

- Overview
- DevOps Testing Concepts
- Continuous Testing
- Lab: Testing in Production
- Supplemental learning
- Review Questions

Chapter 5: Continuous Learning from Production to Improve and Scale Business results

- Overview
- Application Performance Monitoring
- Exposure Strategies
- Hypothesis-Driven Development
- Lab: Application Performance Monitoring
- Supplemental learning
- Review Questions

Prepared by:

Name: Mrs.P.Archana

Designation: AP/MCA

PROGRAM COORDINATOR

HOD

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

PROGRAM SCHEDULE

Name of the Certificate Program : DevOps Practices for Computer Applications

Program Code : 21MCADPCAT01

Name of the Program Co-ordinator : Mrs.P.Archana AP/MCA

Program Period : 03.01.2023 to 07.01.2023

Date/ Time	9:30AM to 11:30AM (2 Hours)		11.45 AM to 12.45PM (1 Hour)		1:30 PM to 4.30 PM (3 Hours)
03-01-2023	Registration and Inauguration	BREAK	DevOps Fundamentals	LUNCH	Compliance and security in DevOps
04-01-2023	Deploy and Configure Standardized Environments		Environments in IaaS/PaaS and with Containers		ARM Templates and Desired State Configuration
05-01-2023	Build and Deploy Automatically to Production Often and Consistently		Package anagement and Containers		Lab: Continuous Integration and Continuous Deployment
06-01-2023	Test Automatically Before and In Production		DevOps Testing Concepts		Lab: Testing in Production
07-01-2023	Continuous Learning from Production to Improve and Scale Business results		Application Performance Monitoring		Hypothesis-Driven Development

PROGRAM COORDINATOR

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

RESOURCE PERSON PROFILE

Title of the Programme	Devops Practices for Computer Applications
Duration and Timing of the Programme	30 Hours and 9.30 AM to 4.30 PM
Name of the Resource Person	Mrs.P.ARCHANA AP/MCA
Photo Image of the Resource Person	
E-mail	archanap@jkkmct.edu.in
Mobile No:	8610536046
Designation	Assistant Professor/ MCA
Official Address	JKK Munirajah College of Technology, T.N.Palayam, Gobi (TK), Erode (Dt) -638506
Educational Qualification	B.Sc (Information Technology) MCA (Master of Computer Applications) B.Ed.(Bachelor of Education)
Experience	1 years of Experience as Assistant Professor
Field of Interest	Machine Learning, Big Data, IOT, Cyber Security, Artificial Intelligence


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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

ACADEMIC YEAR 2022-2023

WILLING STUDENTS NAMELIST

CERTIFICATE PROGRAM ON DEVOPS PRACTICES FOR COMPUTER
APPLICATIONS

S.NO	REGISTER NUMBER	NAME	WILLINGNESS		
			YES	NO	SIGN
I YEAR					
1	731222622001	DURGA.K	✓		K. Durga
2	731222622005	JOSNA	✓		Tessy
3	731222622006	LOGANATHAN.A	✓		Alaiah
4	731222622007	PRAKASH.A	✓		Prakash
5	731222622008	RAMAMOORTHY.R	✓		Ramamoorthy
6	731222622011	SURYA.K	✓		Surya
II YEAR					
7	731221622005	MONISHA.S	✓		Monisha S
8	731221622007	PERINBARAJ.S	✓		Perinbaraj
9	731221622008	PRADEESHKUMAR.N	✓		Pradeesh
10	731221622009	SOWMIYA.R	✓		Sowmya R.

PROGRAM COORDINATOR

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

ACADEMIC YEAR 2022-2023

CERTIFICATE PROGRAM ON DEVOPS PRACTICES FOR COMPUTER APPLICATIONS

ENROLLED STUDENTS NAMELIST

DATE: 03.01.2023 to 07.01.2023

S.NO	REG. NO	NAME
I YEAR		
1	731222622001	DURGA.K
2	731222622005	JOSNA
3	731222622006	LOGANATHAN.A
4	731222622007	PRAKASH.A
5	731222622008	RAMAMOORTHIL.R
6	731222622011	SURYA.K
II YEAR		
7	731221622005	MONISHA.S
8	731221622007	PERINBARAJ.S
9	731221622008	PRADEESHKUMAR.N
10	731221622009	SOWMIYA.R

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

ACADEMIC YEAR 2021-2022

CERTIFICATE PROGRAM ON DEVOPS PRACTICES FOR COMPUTER APPLICATIONS ATTENDANCE SHEET

S.NO	NAME OF THE STUDENTS	ATTENDANCE OF THE PARTICIPANTS									
		03.01.23		04.01.23		05.01.23		06.01.23		07.01.23	
		F.N.	A.N.	F.N.	A.N.	F.N.	A.N.	F.N.	A.N.	F.N.	A.N.
I YEAR											
1	DURGA.K	/	/	/	/	/	/	/	/	/	/
2	JOSNA	/	/	/	/	/	/	/	/	/	/
3	LOGANATHAN.A	/	/	/	/	/	/	/	/	/	/
4	PRAKASH.A	/	/	/	/	/	/	/	/	/	/
5	RAMAMOORTHIL.R	/	/	/	/	a	a	/	/	/	/
6	SURYA.K	/	/	/	/	/	/	/	/	/	/
II YEAR											
7	MONISHA.S	/	/	/	/	/	/	/	/	/	/
8	PERINBARAJ.S	/	/	/	/	/	/	/	/	/	/
9	PRADEESHKUMAR.N	/	/	/	/	/	/	/	/	/	/
10	SOWMIYA.R	/	/	/	/	/	/	/	/	/	/
TOTAL NO OF STUDENTS PRESENT		10	10	10	10	09	09	10	10	10	10
TOTAL NO OF STUDENTS ABSENT		NIL	NIL	NIL	NIL	01	01	NIL	NIL	NIL	NIL
SIGNATURE OF THE PROGRAM COORDINATOR		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
SIGNATURE OF THE HOD		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

[Signature]
PROGRAM COORDINATOR
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[Signature]
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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
ACADEMIC YEAR 2022-2023

DEVOPS PRACTICES FOR COMPUTER APPLICATIONS

ASSESSMENT

ANSWER ALL QUESTIONS (30*1=30 MARKS)

1. What does 'DevOps' stand for?

1. Development Operations
2. Device Operations
3. Deviant Operations
4. Developer's Operations

2. When was DevOps introduced?

1. 1999 and 2000
2. 2003 and 2004
3. 2007 and 2008
4. 2010 and 2011

3. Who is the father of DevOps?

1. Patrick Debois
2. Gene Kim
3. David Farley
4. Bridget Kravchenko

4. Identify the tool for DevOps?

1. Monit
2. Nagios
3. Jenkins
4. All of the above

5. What are the key components of DevOps?

1. Continuous Testing
2. Continuous Integration
3. Continuous Delivery & Monitoring
4. All of the above

6. Which of the following is not a part of DevOps lifecycle _____.

1. Operating
2. Plan

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3. Build
4. Code
7. What is the use of Git?
 1. Containerization tool
 2. Continuous Integration tool
 3. Version Control System tool
 4. Continuous Monitoring tool
8. DevOps is an extension of _____
 1. QA
 2. Agile
 3. Waterfall
 4. None of the above
9. Which tool is commonly used for Continuous Integration and Continuous Deployment (CI/CD)?
 1. Jenkins
 2. Docker
 3. Git
 4. Ansible
10. What does CI in CI/CD stand for?
 1. Continuous Input
 2. Continuous Integration
 3. Continuous Improvement
 4. Continuous Installation
11. Which of the following is NOT a configuration management tool?
 1. Chef
 2. Puppet
 3. Ansible
 4. Ira
12. What is Docker primarily used for?
 1. Version Control
 2. Continuous Integration
 3. Containerization
 4. Project Management

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13. What's the primary purpose of Kubernetes?

1. Source code management
2. Automated testing
3. Container orchestration
4. Configuration management

14. Which tool is mainly used for version control in DevOps?

1. Jenkins
2. Docker
3. Kubernetes
4. Git

15. What does IaC stand for in DevOps?

1. Infrastructure as Computer
2. Integration and Configuration
3. Infrastructure as Code
4. Input and Compute

16. Which of the following is a benefit of implementing DevOps?

1. Slower release cycles
2. Less collaboration between teams
3. Reduced recovery time after failures
4. Increased infrastructure cost

17. In DevOps, what does "shift left" refer to?


1. Delaying testing to the end of the development cycle
2. Incorporating operations earlier in the development cycle
3. Left-aligning code
4. Outsourcing operations

18. Which of the following represents a cultural aspect of DevOps?

1. Using Docker
2. Automation scripts
3. Collaboration and sharing between teams
4. Writing Infrastructure as Code

19. What is Infrastructure as Code (IaC)?

1. Writing scripts (code) to automate infrastructure deployment
2. Using code repositories to store infrastructure information
3. Documenting infrastructure requirements


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4. Writing application code that supports multiple infrastructure setups

20. In which phase are automated tests primarily run in a CI/CD pipeline?

1. Build
2. Test
3. Deploy
4. Monitor

21. What does the acronym "CALMS" stand for in the context of DevOps?

1. Code, Automation, Logs, Monitoring, Security
2. Culture, Automation, Lean, Measurement, Sharing
3. Continuous Application Lifecycle Management System
4. Code, Automation, Lifecycle, Monitoring, Systems

22. Which tool is used for configuration management?

1. Git
2. Nagios
3. Ansible
4. Jira

23. Which practice involves deploying code into a production-like environment before actual production?

1. Continuous Testing
2. Canary Release
3. Blue-Green Deployment
4. Continuous Deployment

24. What is a Version Control System (VCS) primarily used for?

1. Infrastructure monitoring
2. Configuration management
3. Tracking changes to source code
4. Application deployment

25. Which tool is often used for orchestrating cloud infrastructure as code?

1. Jenkins
2. Grafana
3. Terraform
4. Docker

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26. Which term describes a method where developers merge their changes back to the main branch multiple times a day?

1. Continuous Deployment
2. Continuous Integration
3. Continuous Monitoring
4. Continuous Feedback

27. Which of the following tools is primarily associated with monitoring and visualizing time-series data?

1. Ansible
2. Git
3. Grafana
4. Puppet

28. What does the term "Immutable Infrastructure" refer to?

1. Infrastructure that can be easily changed and adapted
2. Infrastructure components that are never updated once deployed
3. Frequently changing infrastructure
4. Infrastructure that is resistant to hacker attacks

29. Which DevOps practice involves automating the provisioning and management of servers?

1. Continuous Monitoring
2. Continuous Feedback
3. Configuration Management
4. Continuous Testing

30. Which DevOps tool is known for its "Infrastructure as Code" capabilities and agentless architecture?

1. Jenkins
2. Git
3. Puppet
4. Ansible

PROGRAM COORDINATOR

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

ACADEMIC YEAR 2022-2023

CERTIFICATE PROGRAM ON " DEVOPS PRACTICES FOR COMPUTER APPLICATIONS "

STUDENTS MARKLIST

DATE: 03.01.2023 to 07.01.2023

S.NO	REG. NO	NAME	MARKS
I YEAR			
1	731222622001	DURGA.K	97
2	731222622005	JOSNA	97
3	731222622006	LOGANATHAN.A	74
4	731222622007	PRAKASH.A	85
5	731222622008	RAMAMOORTHI.R	79
6	731222622011	SURYA.K	88
II YEAR			
7	731221622005	MONISHA.S	80
8	731221622007	PERINBARAJ.S	90
9	731221622008	PRADEESHKUMAR.N	95
10	731221622009	SOWMIYA.R	92

Note: The students those who have secured above 50 Marks and above are consider eligible for program completion.

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
ACADEMIC YEAR 2022-2023

SUMMARY/ OUTCOME REPORT

Name of the Certificate Program : Devops Practices for Computer Applications

Program Code : 21MCADPCAT01

Name of the Program Coordinator : Mrs. P.ARCHANA

Number of Students Enrolled : 10 Duration: 30 Hours

Number of Students Completed : 10

I hereby affirm that the entire Program contents in the Certificate Program "DEVOPS PRACTICES FOR COMPUTER APPLICATIONS" listed in the Syllabus have been actually learned by the students as the part of the prescribed co-curricular activities through Certificate Program.

I confirmed that the Certificate Program title as Devops Practices for Computer Applications ork Bench was done by me in the beginning of this semester and Program delivery with attendance of the students were recorded.

I confirmed that all registered students for this Certificate Program were actively attended and learned well throughout the duration of this Program. And all students were successfully completed and eligible to receive the completion certificate.

OUTCOME: Students shall be able to gain the knowledge in


- Fundamentals of DevOps Practices (and introducing the benefits of DevOps)
- Understanding DevOps Principles
- Deploying and Configuring Standardized Environments
- Testing Automatically Before and In Production
- Continuous Learning from Production to Improve and Scale Business results


Name : Mrs.P.Archana

Designation: Assistant Professor/MCA


PROGRAM COORDINATOR


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T.N.PALAYAM, GOBI-638506

CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. **DURGA. K** of
I-MCA has successfully

Completed in the Certificate Program titled "**DevOps Practices for Computer Applications**" Organised by Department of Master of Computer Applications.

Duration : **03.01.2023 to 07.01.2023**


COORDINATOR


HOD


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J.K.K.M.C.T


PRINCIPAL
J.K.K.MUNIRAJAH COLLEGE
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T.N. PALAYAM (GOBI-638506)
PO BOX 111, ERODE (TN)



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T.N.PALAYAM, GOBI-638506

CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. JOSNA of
I-MCA has successfully


Completed in the Certificate Program titled "**DevOps Practices for Computer Applications**" Organised by Department of Master of Computer Applications.

Duration : **03.01.2023 to 07.01.2023**


COORDINATOR


HOD


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T.N.PALAYAM, GOBI-638506

CERTIFICATE OF COMPLETION

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

I-MCA

has successfully

Completed in the Certificate Program titled "**DevOps Practices for Computer**

Applications" Organised by Department of Master of Computer Applications.

Duration : **03.01.2023 to 07.01.2023**

COORDINATOR

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

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