



# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUK, Kakinada \* Approved by AICTE, New Delhi \* Accredited by NAAC

Recognized by UGC Under section 2(f) and 12 (B) of UGC Act 1956

ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

## Department of Master of Computer Applications

Date: 15.11.2020.

To  
The principal  
Aditya College of Engineering & Technology  
Surampalem

Respected sir,

[Through Head of the Department]

Sub: Request for your approval to organize a certification course on "DEVOPS" – reg.

It's our greatest pleasure to bring to your kind notice that, we the Department of Information Technology would like to train our 2<sup>nd</sup> year MCA students in the **DEVOPS** adapted initially, with the help of our staff; as the present world is moving over the software design & simulations and also is a part of the Master of Computer Applications. It will be more helpful to the students in theoretical and technical point of view. In this regard we are requesting your permission for further proceedings.

Resource Person : M Gangadhar ,  
Asst Professor,CSE Dept,  
KIET Engg College  
Honorarium : Rs. 5000/-

*N. Rawlens*

*M.M. Siva Krishna*  
Course Coordinator

  
PRINCIPAL  
Aditya College of  
Engineering & Technology  
SURAMPALEM- 533 437



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Date: 17.11.2020.

### CIRCULAR

All the 2<sup>nd</sup> year students are here by informed that a one-week program is arranged to enhance the knowledge on **DEVOPS** , as per the schedule from 19<sup>th</sup> December 2020 to 24<sup>th</sup> December 2020. It is mandatory to all the students to attend the program and utilize the opportunity. The schedule is attached.

Course Coordinator: MUNAGA MASTHAN SIVA KRISHNA,  
Associate Professor,  
MCA Department.

Head of the Department

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### Department of Master of Computer Applications

#### DEVOPS Syllabus

1. Version Control with Git
2. Git, Jenkins & Maven Integration
3. Continuous Integration using Jenkins
4. Configuration Management Using Ansible
5. Containerization using Docker Part – I
6. Containerization using Docker Part – II
7. Orchestration using Kubernetes Part - I
8. Orchestration using Kubernetes Part - II
9. Monitoring using Prometheus and Grafana
10. Provisioning using Terraform Part - I
11. Provisioning using Terraform Part - II
12. Selenium
13. Nagios
14. DevOps on Cloud
15. AWS EC2 and IAM

*M.M. Siva Krishna*  
Course Coordinator

*N. Ramani*  
Head of the Department

*[Signature]*  
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### Department of Master of Computer Applications

#### Schedule of DEVOPS Syllabus:

- 19.12.2020: Day-1  
FN Version Control with Git  
AN Git, Jenkins & Maven Integration
- 20.12.2020: Day-2  
FN Continuous Integration using Jenkins  
AN Configuration Management Using Ansible
- 21.12.2020: Day-3  
FN Containerization using Docker Part – I  
AN Containerization using Docker Part – II
- 22.12.2020: Day-4  
FN Orchestration using Kubernetes Part - I  
AN Orchestration using Kubernetes Part - II
- 23.12.2020: Day-5  
FN Provisioning using Terraform Part – I, Provisioning using Terraform Part - II  
AN Selenium, Nagios, DevOps on Cloud, AWS EC2 and IAM
- 24.12.2020: Day-6  
FN Assessment test  
AN Valedictory

*M.M. Siva Krishna*  
Course Coordinator

*N. Ramakrishna*  
Head of the Department

  
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