From,

Deeksha M Assistant Professor Dept. of CSE A.I.E.T, Mijar

Through,

The H.O.D. Dept. of CSE A.I.E.T, Mijar

To,

The Principal A.I.E.T, Mijar

Respected Sir,

SUBJECT: - Requisition to attend a workshop

As per the above subject, I seek your permission to attend a workshop on "Introduction to software defined network" in NITK, Surathkal from 26<sup>th</sup> to 30<sup>th</sup> Mar 2018. Kindly do the needful.

Thanking you,

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Dept. Of Computer Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

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Yours Sincerely,

(Deeksha M)

Alva's institute of Engy. & Technology, Mijar, MOODBIDRI - 574 225, D.K

## <u>Application for Permission to Attend</u>

# <u>Conferences/Seminars/Workshops/FDP and Paper Presentation</u>

		Pand Paper Presentatio
1.	· Name of the staff	
2.		: Duksha M
3.	Name of the conference/seminar/FDP	Λ , , , ,
4.	Type of conference(national/state level)	: Introduction to s/
5.	Place of conference	defined NN
6.	Date of conference	· NITK Surathal
7.	Title of the paper submitted	26/03/2018 - 30/03/2018
8.	Mention the items enclosed	: - 1 30/03/2018
a	a. copy of the brochure	
	copy of invitation letter	(Yes / No)
		(V- /-

(Yes / No)

(Yes / No)

c. acceptance letter Rough estimate of expenditure (total)

a. Registration fees b. Bus/train/air fare : 5000/-

Details of previous workshop attended

Date: 3/03/298

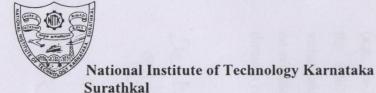
Signature of the applicant

Recommendation of the HOD

Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

> Signature 60 th PRINCIPAL

Alva's Institute of Engg. & Technology, Mijar. MOODBIDRI - 574 225, D.K.



Ministry of Human Resource Development Government of India





## GLOBAL INITIATIVE OF ACADEMIC NETWORKS

## **Certificate of Participation**

This is to certify that Ms. Deeksha M. from Alva's Institute of Engineering and Technology, Moodbidri participated in the MHRD Supported GIAN Advance Level Course on Introduction to Software Defined Networking from 26<sup>th</sup> to 30<sup>th</sup> March 2018 held at Department of Electronics and Communication (E&C) Engineering, National Institute of Technology Karnataka (NITK), Surathkal, Mangalore, Karnataka, India.

Dr. K. Narayan Prabhu Local GIAN Coordinator NITK Surathkal

NITK Surathkal

Prof. U. Shripathi Acharya Head, Dept. of E&C Engg. NITK Surathkal



#### Department of Electronics & Communication Engineering

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL, SRINIVASNAGAR - 575025 KARNATAKA, INDIA

Date: 30-03-2018

#### Fee Receipt

Received with thanks a sum of Rs. 5000/- (Rupees Five Thousand only) from Ms. Deeksha M., Alva's Institute of Engineering and Technology, Moodbidri as registration fee for the MHRD Supported GIAN Advance Level Course on Introduction to Software Defined Networking held during 26<sup>th</sup> to 30<sup>th</sup> March 2018 in the Department of Electronics & Communication Engineering, NITK Surathkal.

Dr. Pathipati Srihari

Course Coordinator & Assistant Professor.

Dept. of E&C Engineering

NITK Surathkal

Phone: (+91)-824-2473515 Fax: (+91)-824-2474033 email: <a href="mailto:srihari@nitk.ac.in">srihari.js@gmail.com</a>

#### Report

#### Introduction to Software Defined Networks

Managing networks is becoming increasingly complex. This has fostered research in the area of network management and led to the development of new approaches to efficiently manage networks. Software Defined Networking (SDN) is a promising approach, focusing on efficiently managing networks by using a logically centralized control plane. It is an emerging architecture, cost effective and highly suitable for managing networks, especially datacenters. Network Function Virtualization (NFV) is another new technology enabling network services to be provided as software running in Virtual Machines (VM) or containers instead of having purposebuilt hardware appliances for each network resident function. Recently, there has been considerable focus on adopting SDN and NFV for efficiently managing the network and the services they provide. Both these technologies are crucial in managing complex networks and services (e.g., Data Center Networks and Cloud Services). The physical separation of the network control plane from the forwarding plane, and where a control plane controls several devices.

The course dealt with the fundamentals of Software Based Networks: SDN and NFV, Motivation for SDN and NFV, Advantages and challenges of SDN and NFV. Day 2: Concepts on Components of SDN were discussed and hands-on session was conducted. Day 3: Discuss SDN protocols (e.g., OpenFlow), programming models (e.g., P4), simulation and modeling tools (e.g., ns-3, Mininet) and open source platforms (e.g., OpenNetVM) for studying and analyzing the effectiveness of SDN and NFV. Day 4: Discussed the concepts on NFV concept virtualization, VNF, NFV infrastructure, CORD architecture was discussed followed by hands-on session. Day 5: Provide exposure to SDN and NFV implementation issues and their solutions through case studies and demonstrations.

Deetsha M.,



### ALVA'S EDUCATION FOUNDATION (R.)

MOODBIDRI - 574 227, D.K.

No.:

#### DEBIT / CREDIT VOUCHER

Date 01 03 2018

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