ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

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DEPARTMENT OF

MECHANICAL ENGINEERING

INTRODUCTION TO VIRTUAL MACHINE TECHNOLOGY

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TECHNICAL TALK REPORT

Objectives of the Technical talk:

Technical talks in engineering colleges serve several important objectives, both for students and faculty. These talks are designed to provide a platform for students to gain knowledge, exposure, and insights into various technical subjects and emerging trends in engineering. Here are the main objectives of technical talks in engineering colleges:

1. Technical talks are a means to disseminate knowledge on a wide range of topics, including new technologies, engineering innovations, and research findings.
2. These talk / interactions help students and faculty stay updated with the latest developments in their respective fields.
3. Technical talks enhance the educational experience by providing students with the opportunity to learn from experts in the field. These talks can cover topics beyond the curriculum and practical understanding of engineering concepts.
4. Inviting accomplished professionals and researchers as speakers can inspire students to set higher goals

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1. INTRODUCTION TO VIRTUAL MACHINE TECHNOLOGY

Mode: ONLINE
Date: 03/03/2023
Resource Person: Mr. Rishikesh Saringe
Technical Head Soft India technologies**.**

Outcomes :

1. Attendees will gain a deeper understanding of virtual machine technology, including its concepts, principles, and applications.

2. Practical insights into the implementation and management of virtual machines can be shared during the talk.

3. Participants clarified doubts, & queried additional information, and engaged in meaningful conversations about the topic

Department of Mechanical Engineering has organized a technical talk on Introduction to Virtual Machine Technology on 03/03/2023. The resource person was Mr. Rishikesh Saringe Technical Head Soft India technologies.

He has briefed the gathering about how Virtual Machine (VM) technology has transformed the landscape of computing by enabling the efficient utilization of hardware resources,

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improved software deployment, and enhanced security. At its core, VM technology allows multiple operating systems (OS) to run on a single physical machine simultaneously, creating isolated environments called virtual machines.

A virtual machine is a software-based emulation of a physical computer. It consists of an operating system, application software, and hardware resources that are abstracted from the physical host machine. The hypervisor, also known as the Virtual Machine Monitor (VMM), manages and allocates the physical resources to multiple virtual machines, ensuring their isolation and resource sharing.

Full Virtualization, Para-virtualization, Containerization:

Further he added the benefits of virtualization Explained about **Resource Utilization:** Virtualization enables better utilization of hardware resources. A single physical machine can host multiple VMs, effectively maximizing its potential and reducing hardware costs.**Isolation:** VMs are isolated from one another, providing security and stability. If one VM crashes or experiences issues, it does not affect others on the same host. **Hardware Independence:** VMs abstract hardware details, allowing applications to run consistently across different hardware configurations. **Software Testing and Development:** VMs provide a safe environment for testing new software and configurations without risking the stability of the host system. **Legacy Application Support:** Older applications that require specific OS versions or configurations can be hosted on VMs even on modern hardware. **Disaster Recovery:** VM snapshots and backups simplify disaster recovery by enabling quick restoration of virtualized environments. **Cloud Computing:** Cloud providers utilize VM technology to offer scalable and flexible computing resources to users, allowing them to deploy and manage virtual machines easily.

He concluded saying Virtual machine technology has revolutionized the way we approach computing, offering benefits ranging from improved resource utilization to enhanced security. As technology continues to evolve, VMs remain a cornerstone in data centers, development environments, and cloud infrastructure, shaping the digital landscape and empowering various industries.

ANNEXURE

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Date -25/02/23

To

IQAC Chairman

AIET, Mijar

Respected Sir

Sub: Requesting for permission conduct a Technical talk

We are happy to inform you that Department of Mechanical Engineering, is

planning to organize a technical talk on 03/03/2023.

The details are mentioned below, kindly request you do the needful.

Resource Person Details

Name: **Mr Rishikesh Saringe**

Designation: **Technical Head Soft India technologies**

Title : **INTRODUCTION TO VIRTUAL MACHINE TECHNOLOGY**
Venue: **CAMD lab**

Date/month/year:**03/03/2023**

Mode : **ONLINE**

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Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
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Aiet/Mech/AY2022-23/015   Date-25/02/23

CIRCULAR

All the students from Department of Mechanical Engineering, are hereby informed
to attend the Technical Talk by **Mr Rishikesh Saringe, Technical Head Soft India
technologies**

Date: 03/03/2023

Time: 03:00 pm-05:00 pm

Title of the Talk: : INTRODUCTION TO VIRTUAL MACHINE TECHNOLOGY

Venue : CAMD lab,

MODE: ONLINE

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Principal table/Deans/HODs/AO/Office/---

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DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY ATTENDANCE LIST

Sl.No.	Faculty Name	Signature
1	Dr. Satyanarayana	
2	Mr. Veerendra kumar	
3	Mr. Sharathchandra Prabhu	
4	Mr. G. B. Vaggar	
5	Mr. Hemanth Suvarna	
6	Mr. Suresh P S	
7	Mr. Sadashiv Bellubbi	
8	Mr. Kiran C H	
9	Mr. Pramod Badyankal	
10	Mr. M.R. Ganesh	
11	Mr. Kumar Swamy M.C	
12	Mr. Gopal Krishna U.B	
13	Mr. Deepak Kothari	
14	Mr. Srinivas C S	
15	Mr. Pramod kumar N	
16	Mr. Praveen K C	
17	Mr. Sudheer PN	

HOD.

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DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT ATTENDANCE LIST

Semester : 6th semester

SI no.	Name	USN	Sign
1	ADHWITH	4AL20ME001	Adwith
2	AKSHAR N	4AL20ME002	
3	BABUGOUDA SHANKARAGOUDA	4AL20ME003	
4	CHANDAN BHOSALE	4AL20ME004	
5	CH'RANTH H S	4AL20ME006	
6	DILEEP P R	4AL20ME007	Dilep P.R.
7	FRISON NIKHIL MARTIS	4AL20ME008	
8	GIRISH B BANNIKOPPA	4AL20ME009	
9	JENNY FERNANDES	4AL20ME011	
10	MANOJ KUMAR KARNAM	4AL20ME012	
11	MANU K N	4AL20ME013	Manule
12	MOHAMMED SWAHID	4AL20ME014	M.Saadf
13	MOHAMMED FAHAD H	4AL20ME015	
14	NAVYASHREE H B	4AL20ME016	Navya shane
15	PALLAVI P	4AL20ME017	
16	PAVANKUMAR H R	4AL20ME018	H.H.R.
17	RAKSHITH S	4AL20ME019	Rakshith
18	VARUN S BHANDARY	4AL20ME021	
19	VIGNESH	4AL20ME022	Vignes
20	DODDAMALLAIAH	4AL21ME400	
21	RAHUL KUMBAR	4AL21ME401	Rak.
22	RAKESH KELAGADE	4AL21ME402	Rakelagade
23	SACHIN RATHOD	4AL21ME403	
24	SANDEEP JARALE	4AL21ME404	

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Semester : 4th semester

SI no.	Name	USN	Sign
1	AJITH R	4AL21ME001	
2	AKHIL SHARMA K	4AL21ME002	
3	AKSHAY KRISHNA M	4AL21ME003	
4	CHARAN KUMAR	4AL21ME004	
5	DHARSHITH A	4AL21ME005	
6	MELVIN VINAY SERA	4AL21ME006	
7	MOHAMMAD SWALIH	4AL21ME007	
8	NARAYAN V	4AL21ME008	
9	NAVANEETH H SHETTY	4AL21ME009	
10	NITHIN M	4AL21ME010	
11	PAIGAMBAR S NADAF	4AL21ME011	
12	SHASHWATH R GOWDA	4AL21ME013	
13	SUDESH D SHETTY	4AL21ME015	
14	KARTHIK VISWANATH DHANNUR	4AL22ME401	
15	PRAVEEN VEERAPPA CHAVADI	4AL22ME402	
17	KRISHNA KYADGIHALLI	4AL22ME403	
18	KARTHIK GOWDA B C	4AL22ME400	

Forum Coordinator

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FEEDBACK FORM

1. **Name of the Resource Person :** Mr Rishikesh Saringe

2. **Topic of the Technical talk :** INTRODUCTION TO VIRTUAL MACHINE TECHNOLOGY

Please give feedback on how well this session met its objectives, indicate your response by putting check mark to relevant box

Sl. No.		Poor	Fair	Good	Very good	Excellent
		1	2	3	4	5
1	Relevance of the topic in today's scenario		3%	15%	45%	37 %
2	Clarity of the presentation		6%	20%	40%	34%
3	The presentation contained Practical examples & useful techniques that can be applied to current work			33%	52%	15%
4	The visual aids were effective				43%	57%
5	The resource person was knowledgeable about the topic & any related issues		2%	10%	49%	39%
6	Resource person clarified all queries			10%	71%	19%
7	How was your overall experience			3%	33%	64%

Any other comments : Participants had few queries regarding maintenance of regular lab.

Action Taken : all queries were answered by the resource person .

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