From

The Head of the Department

Department of Computer Application

M E S KEVEEYAM College, Valanchery

To

The principal

M E S KEVEEYAM College, Valanchery

Sir,

Sub: Request for the Approval of Certificate Course

    The Department of Computer Application is planning to conduct a certificate Course on "Virtualisation and Cloud Computing " of 30 hours duration for the second year PG students. So kindly grant permission for the same.

Thanking You

Yours faithfully,

Dept of Compute Application
MES KEVEEYAM COLLEGE
Valanchery, 676552
Malappuram District

Place: Valanchery

Date :03 /10/2022

SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY, PIN 676 552

M E S KEVEEYAM COLLEGE

Re-accredited by NAAC with A+ Grade(3.44)
(Affiliated to the University of Calicut)
Valanchery – 676552, Malappuram Dt., Kerala
Phone: 0494 – 2644380, 2642670, 2641347(Fax),www.meskvmcollege.org
Email: principal@meskvmcollege.org

Date: 11/10/2022

Order No. Acs/2022-23/03

Proceedings of the Principal, MES Keveeyam College Valanchery

(Present: Dr. Prof. Shajid P P)

Ref: (1) Request from the Head of the Department of Computer Application
dt:03/10/2022
(2) Minutes of Board of Studies meeting for approval of the syllabus

ORDER

As per reference cited (1), request was received from the HOD, Department of Computer Application to start a short term course on "Virtualisation and Cloud Computing". In the same letter, the head of the department has recommended a panel of academicians to be included in the Board of Studies.

The department of Computer Application is hereby given sanction to conduct a short term course on Virtualisation and Cloud Computing to the PG students of the college.

The board of studies for the above course is constituted with the following members

1. Mrs.fareeda p: HoD& Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
2. Mrs.jasna kv: Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
3. Mrs.Akshaya b, Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
4. Mrs.Ramseena n Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
5. Mrs.Rafna k , Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
6. Ms.Nusrath, Assistant Professor, MES Ponnani College
7. Ms.Sujithra,Assistant Professor, Sahrdaya College, Kodakara

Order is issued accordingly.

Prof. Shajid P P

Principal

SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M E S KEVEEYAM COLLEGE
VALANCHERY, PIN 676 552

Copy to

1. HOD, Department of Computer Application
2. File

MINUTES OF BOARD OF STUDIES MEETING

Date: 10/10/2022

Time: 3.00 PM

Location: Department of Computer application

Attendees

1. Mrs.fareeda P: HoD& Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
2. Mrs.jasna KV: Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
3. Mrs.Akshaya B, Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
4. Mrs.Ramseena N Assistant Professor, Department of computer application ,MES Keveeyam Valanchery
5. Mrs.Shamna K, Assistant Professor, Department of computer application ,MES Keveeyam Valanchery

Agenda

1. Introduce the importance of Certificate Course – HoD introduced the Certificate Course, its importance, and students' better
2. Syllabus discussion – schedule total hours for complete
3. Discussed about the Practical Output.

Decisions

1. Decide to conduct a certificate course on Virtualisation and Cloud Computing.
2. Detailed syllabus discussed.
3. Ensure Practical knowledge on the same through Lab
4. Create a request letter, getting approval from the Principal.

Action Item

1. Mrs.Fareeda p take over
2. Mrs.Jasna kv the structuring syllabus
3. Practicals handle by & Mrs.Akshaya b
4. Time table & certificate arrangements are handled by Mrs.Shamna k

Minutes Recorded by: Mrs.Ramseena n These minutes will be circulated to all committee members for their reference & review.

SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY, PIN 676 552

MES KEVEEYAM COLLEGE VALANCHERY
DEPARTMENT OF COMPUTER APPLICATION

SHORT TERM COURSE ON

Virtualisation and Cloud Computing
KVM/CC/BCA/3

(2022-2023)

Objectives

- Provides foundational knowlwdge of virtualisation and cloud computing concepts,architectures,and models.
- Familiarise students with the key technologies,tools,and platforms used in virtualization and cloud computing.
- Develop practical skills for deploying,managing,and troubleshooting virtualized and cloud-based systems.
- Prepare students for relevant certifications and job roles in the virtualization and cloud computing domains

Outcome

- Able to deploy,manage,and troubleshoot virtual and cloud environments.
- Problem-solving Abilities.
- Awareness of Emerging trends

Course Contents

- Theory   : 8 Hours duration
- Lab   : 22 Hours duration

Scheme of Evaluation

- Written Examination   : 60 Marks

A Grade: 80% and above, B Grade: 60-79% %, C Grade: 40-59%%, Below 40% D Grade

SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY, PIN 676 552

KVM/CC/BCA/3- Virtualisation and Cloud Computing

(2022-2023)

SYLLABUS

Unit 1:(6 hrs)

Overview of Virtualization,Types of Virtualization (Hardware, Software, Network, Storage), Virtual Machines vs. Containers,Benefits and Use Cases of Virtualization

Unit2 :(6 hrs)

Hypervisors (Type 1 and Type 2), Introduction to VMware, Hyper-V, VirtualBox, Creating Virtual Machines, Managing Virtual Machine Resources

Unit3 :(6 hrs)

Cloud Computing Basics, Cloud Deployment Models (Public, Private, Hybrid), Cloud Service Models (IaaS, PaaS, SaaS),Benefits and Challenges of Cloud Computing

Unit4 :(6 hrs)

Overview of AWS, Azure, Google Cloud, Core Services in Cloud Platforms (Compute, Storage, Networking),Managing Cloud Resources,Security and Compliance in the Cloud

Unit5 :(6 hrs)

Setting up Virtual Machines, Deploying Applications on Virtual Machines,Using Containers (Docker), Deploying Applications on Kubernetes, Practical Exercises on a Cloud Platform (AWS/Azure)

References :

1. Textbook: Nath, Dilip C. "Virtualization and Cloud Computing: A Practical Guide". Pearson Education.
2. Additional Resources: Online tutorials, documentation from cloud providers (AWS, Azure, Google Cloud), and academic papers on virtualization and cloud computing.

SHAJID PP
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY, PIN 676 552

MES KEEVEYAM COLLEGE
VALANCHERY | MALAPPURAM | KERALA | INDIA

DEPARTMENT OF
COMPUTER APPLICATION
PRESENTS

SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
MES KEEVEYAM COLLEGE
VALANCHERY, PIN 676 552

CERTIFICATE COURSE ON

VIRTUALIZATION AND CLOUD COMPUTING

REGISTRATION DEADLINE:10-10-2022
DURATION:15 days
ELIGIBILITY:PG student

TIME TABLE FOR THE SHORT TREM COURSE (13-10-2022 to 11-1-2023)

DATE	DAY	NAME OF FACULTY ENGAGING THE CLASS	TIME
13/10/2022	THURSDAY	RAM	8.30-9.30 3.30-4.30
14/10/2022	FRIDAY	RAF	8.30-9.30 3.30-4.30
17/10/2022	WEDNESDAY	FAR	8.30-9.30 3.30-4.30
18/10/2022	THURSDAY	JAS	8.30-9.30 3.30 – 4.30
19/10/2022	FRIDAY	AKS	8.30-9.30 3.30-4.30
20/11/2022	TUESDAY	SHA	8.30-9.30 3.30-4.30
21/11/2022	WEDNESDAY	RAM	8.30-9.30 3.30-4.30
22/11/2022	THURSDAY	RAF	8.30-9.30 3.30-4.30
02/1/2023	FRIDAY	FAR	8.30-9.30 3.30-4.30
03/1/2023	MONDAY	JAS	8.30-9.30 3.30-4.30
04/1/2023	TUESDAY	AKS	8.30-9.30 3.30-4.30
05/1/2023	WEDNESDAY	SHA	8.30-9.30 3.30-4.30
6/1/2023	THURSDAY	JAS	8.30-9.30 3.30-4.30
10/1/2023	FRIDAY	AKS	8.30-9.30 3.30-4.30
11/1/2023	MONDAY	RAM	8.30-9.30 3.30-4.30

RAM-RAMSEENA   FAR-FAREEDA

RAF-RAFNA   AKS-AKSHAYA

JAS-JASNA   SHA-SHAMNA

SHAJID PP
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M E S KEVEEYAM COLLEGE
VALANCHERY, PIN 676 552

HOD
Dept of Computer Application
MES KEVEEYAM COLLEGE
Valanchery, 676552
Malappuram District

MES KEVEEYAM COLLEGE , VALANCHERY

DEPARTMENT OF COMPUTER.APPLICATIONS

SHORT TERM COURSE ON VIRTUALISATION AND CLOUD COMPUTING

STUDENT ATTENDENCE

SI NO	STUDENT NAME	13/10/22	14/10/22	17/10/22	18/10/22	19/10/22	20/10/22	21/10/22
1	AMRUTHA K V	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
2	ASWATHY P P	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
3	JUMANA THASNEEM.K	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
4	MURSHIDA C	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
5	NAJISHA T	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
6	NAILA BEEGAM T	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
7	RISNA MOL V.P	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
8	SAHLA RAJIBA V P	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
9	SUHAILA P P	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
10	IRFANA	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*
11	SHAHLA FAHEEMA	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*

Name of the teacher : Akshaya-B

Signature :

Signature of HOD :

MES KEVEEYAM COLLEGE, VALANCHERY

DEPARTMENT OF COMPUTER APPLICATIONS

SHORT TERM COURSE ON VIRTUALISATION AND CLOUD COMPUTING

STUDENT ATTENDENCE

SI NO	STUDENT NAME	22/10/23	2/1/23	3/1/23	4/1/23	5/1/23	6/1/23	10/1/23	11/1/23
1	AMRUTHA K V	Amu	Amu	Amu	Amu	Amu	Amu	Amu	Amu
2	ASWATHY P P	As	As	As	As	As	As	As	AB
3	JUMANA THASNEEM.K	Ju	Ju	Ju	Ju	Ju	Ju	Ju	Ju
4	MURSHIDA C	Mu	Mu	Mu	Mu	Mu	Mu	Mu	Mu
5	NAJISHA T	Nz	Nz	Nz	AB	Nz	Nz	Nz	AB
6	NAJLA BEEGAM T	B	B	B	B	B	B	B	AB
7	RISNA MOL V.P	Risn	Risn	Rhn	Rhn	Risn	Risn	Risn	Risn
8	SAHLA RAJIBA V P	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj
9	SUHAILA P P	AB	Ao	AB	AB	AB	AB	AB	AB
10	IRFANA	If	If	If	If	If	If	If	If
11	SHAHLA FAHEEMA	Sahla	Sahla	Sahla	Sahla	Sahla	Sahla	Sahla	AB

Name of the teacher : Jamna.ku

Signature :

HOD signature :

HOD
Dept of Computer Application
MES KEVEEYAM COLLEGE
Valanchery, 676552
Malappuram District

MES KEVEEYAM COLLEGE VALANCHERY

CERTIFICATE COURSE EXAMINATION

KVM/CC/BCA/22-23/03

Time : 1.15 Hrs

Maximum Marks: 40

PART A
Answer all questions
Each question carries 2 marks

1. Define virtualization and explain its significance in modern IT infrastructure.

2. Compare and contrast hardware virtualization with software virtualization. Provide examples of each.

3. What are virtual machines and containers? How do they differ from one another in terms of architecture and use cases?

4. Describe the differences between Type 1 and Type 2 hypervisors. Give examples of each type.

5. Provide a brief overview of VMware and its main features. How does it compare with Hyper-V and VirtualBox?

PART B
Answer any two questions
Each question carries 10 marks

6. Define cloud computing and list its main characteristics.

7. Compare and contrast public, private, and hybrid cloud deployment models. What are the advantages and disadvantages of each?

8. Explain the differences between IaaS, PaaS, and SaaS cloud service models. Provide examples of each.

PART C
Answer any one question
Each question carries 10 marks

9. Describe the steps involved in setting up a virtual machine in AWS or Azure. What are the key configurations required?

10. Explain the process of deploying a simple application on a virtual machine. What considerations should be made for application deployment?

SHORT TERM COURSE ON VIRTUALISATION AND CLOUD COMPUTING

SI NO	STUDENT NAME	MARK
1	AMRUTHA K V	25
2	ASWATHY P P	32
3	JUMANA THASNEEM.K	15
4	MURSHIDA C	36
5	NAJISHA T	25
6	NAJLA BEEGAM T	39
7	RISNA MOL V.P	40
8	SAHLA RAJIBA V P	29
9	SUHAILA P P	34
10	IRFANA	39
11	SHAHLA FAHEEMA	27

HOD
Dept of Computer Application
MES KEVEEYAM COLLEGE
Valanchery, 676552
Malappuram District

SHAJID P P
ASSISTANT PROFESSOR
IN-CHARGE OF PRINCIPAL
M E S KEVEEYAM COLLEGE·
VALANCHERY, PIN 676 552

MES KEVEEYAM COLLEGE VALANCHERY
MALAPPURAM | KERALA

NAAC Accredited with A+ Grade
www.meskeveeyamcollege.ac.in

KVM/CC/22-23/

Certificate

This is to certify that

Murshida C ....

has successfully completed the certificate course on "...Virtualization...and...Cloud........

...Computing..........." conducted by the Department of ...Computer...Application..., MES

Keveeyam College, Valanchery during the period 2022-23.

CO-ORDINATOR

HEAD OF DEPARTMENT

Dr. K.P. VINOD KUMAR
PRINCIPAL

MES KEVEEYAM COLLEGE VALANCHERY
MALAPPURAM | KERALA

NAAC Accredited with A+ Grade
www.meskeveeyamcollege.ac.in

KVM/CC/22-23/

Certificate

This is to certify that

Najisha T

has successfully completed the certificate course on "___Virtualization And Cloud Computing___" conducted by the Department of _Computer Application_, MES Keveeyam College, Valanchery during the period 2022-23.

CO-ORDINATOR

HEAD OF DEPARTMENT

Dr. K.P. VINOD KUMAR
PRINCIPAL