



JAYAWANT SHIKSHAN PRASARAK MANDAL'S
Bhivarabai Sawant Institute of Technology & Research

(Approved by AICTE New Delhi, DTE Mumbai & Affiliated to Savitribai Phule Pune University)

Accredited with B++ Grade by NAAC

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Principal



Add On Course on “Recent Trends in Cloud Computing”

From 03/08/2024 to 31/08/2024

Total Duration : 36 hours

(In association with IETE Pune Centre)

Department of Electronics and Telecommunication Engineering
Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune

Name of The Programme	Faculty Development Programme “Recent Trends in Cloud Computing ” Under the aegis of “IETE Pune Centre”
Course Code	404183
Date	03/08/2024 to 31/08/2024
Mode	OFFLINE
Organizer	Department of Electronics and Telecommunication Engineering of Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune
Name of Resource Person	Mr. Rahul Deshmukh, Consultant Developer at Infogain Solution Private Ltd, Pune
Programme Convenor	Dr. Y. S. Angal, HOD (E&TC)
Participants	BE(E&TC) Students Total Count: 58

The Addon Course aims to provide opportunities to enrich their knowledge in Cloud Computing. It also explore the area of Data Science and Cloud Computing as their Carrier Path Programme also intends to develop the knowledge of participants in the relevant field for inculcating learning values in students and guiding and monitoring their progress. This Addon Course was attended by 58 participants from BE(E&TC) Class of Electronics and Telecommunication department.

Add on Course Objective:

Sr. No.	Add on Course Objective
1	To introduce the fundamentals of Cloud computing, its technologies, Challenges and Applications
2	To give Insights into the virtualization technologies and Architecture.
3	To know the relationship between Cloud and SOA.
4	To classify and evaluate Cloud Security Issues.
5	To apply theory to practical knowledge through case Studies.



**JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH,
WAGHOLI-PUNE-412207**

(NAAC A++ GRADE AND NBA ACCREDITED)

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

UNDER IETE STUDENTS FORUM (ISF) BSIOTR






ORGANIZES

"ADD ON COURSE CODE TRENDS IN CLOUD COMPUTING"

(03/08/2024 TO 31/08/2024)

- AWS Certified SysOps Administrator.
- Associate with 5+ years of professional experience in designing, implementing, and maintaining cloud-based solutions.
- Proven ability to architect, deploy and manage scalable, cost-effective AWS solutions while remaining adaptable to emerging cloud technologies.
- Good knowledge about cloud cost optimization, enhancing visibility, and optimizing our AWS infrastructure.



Rahul Deshmukh
(Consultant Developer At Infogain Solution Pvt. Ltd.)

ON EVERY SATURDAY & SUNDAY

TIME:- 9:30AM

E&TC DEPARTMENT

BENEFITS OF SESSION

- Students will able to examine the Cloud Architecture.
- understand the importance of Cloud Security.
- Students will able to develop the applications on Cloud platforms.
- Students will able to evaluate the distributed Computing and the Internet of Things.
- Students will able to describe the underlying principles of different Cloud Service Models.

Flyer Add On course on “Recent Trends in Cloud Computing”

Day 1

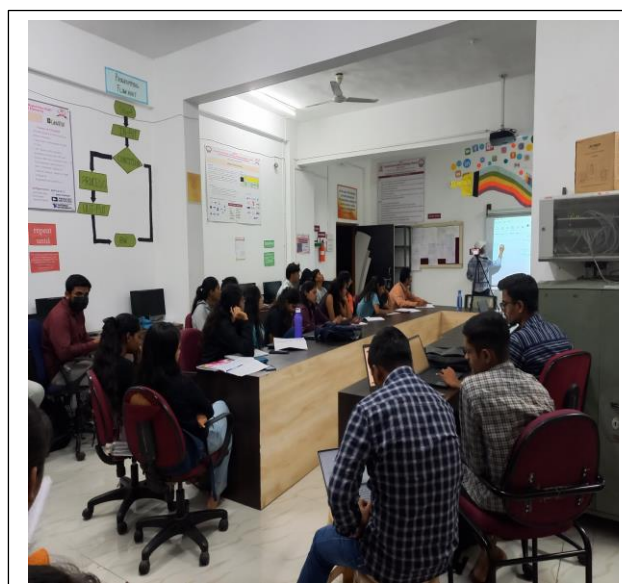
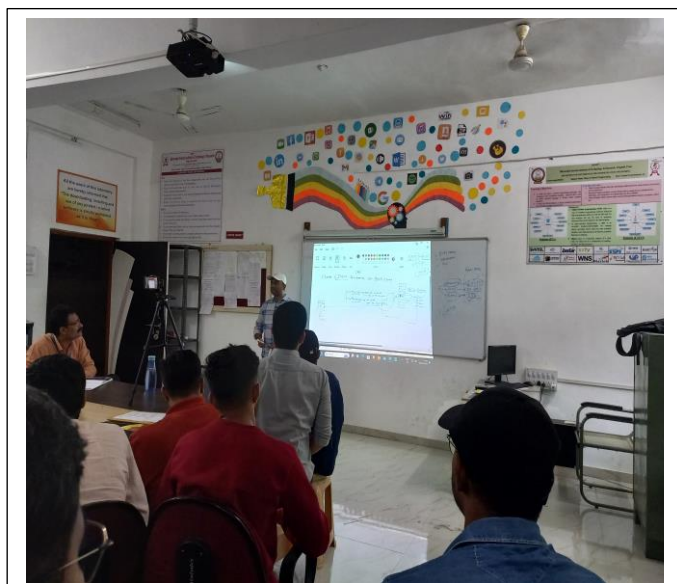
.Date	03rd August 2024.
Topic	Basic(Introduction) of Cloud Computing
Time	9.00am to 5.00pm





On Day1 resource person gives Introduction to Cloud Computing, History of Cloud Computing, Characteristics of Cloud Computing, Cloud Types: NIST, Cloud cube, Cloud service models, Cloud Computing deployment models, exploring the Cloud Computing Stack, Advantages, Disadvantages and Applications of cloud computing. Moreover resource person, Mr. Rahul Deshmukh explained how to open account in Amazon Web Services (AWS). 10-students created accounts as per the instructions. The session was very informative and students were inclined to understand importance of Cloud Computing and its various applications.

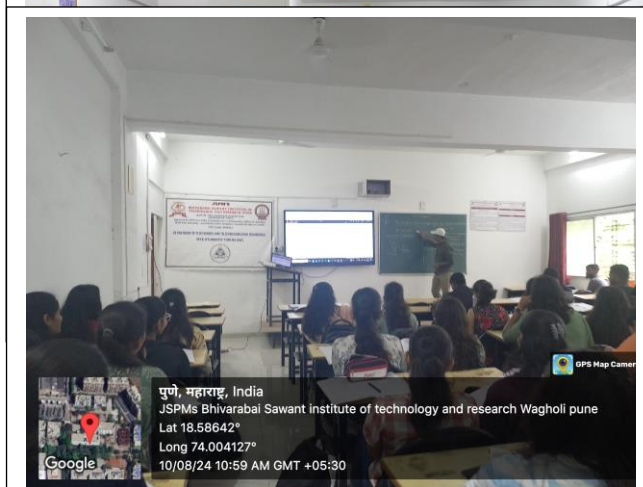
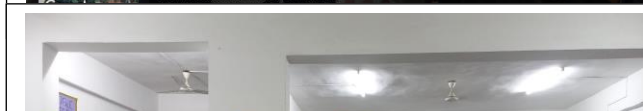
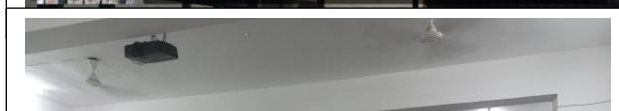
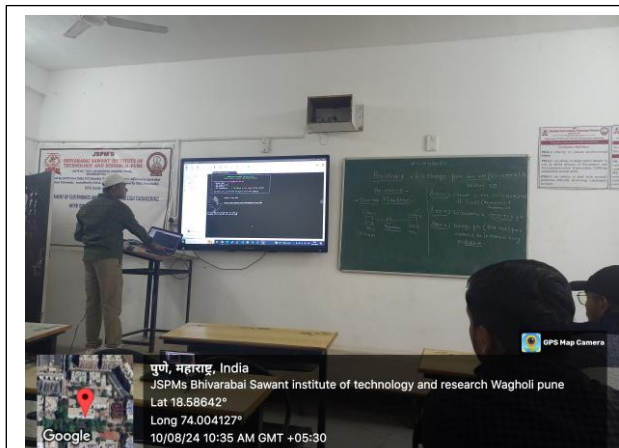
Day 2	
Date	04/08/2024
Topic	Cloud Service Models
Time	9.00 am To 5:00 PM





Day 2 Covered Points: Introduction and benefits of Cloud services, Characteristics, benefits, applications of different cloud service models, Software as a service(SaaS), Platform as a service (PaaS), Infrastructure as a service (IaaS), Network as a service (NaaS), Identity as a service (IdaaS), Database as a service (DbaaS), Comparison of cloud services.

Day 3	
.Date	10 th August 2024.
Topic	Concept of Virtualization, types of Virtualization and Practicals on Virtual Machine Creation (on AWS)
Timings	9.00am to 5.00pm



On Day 3 of Workshop hands on training was given on AWS. Students were asked to open AWS account on Day 3 of the workshop (as per the procedure which was explained on Day1 dated 03/08/2024). Mr. Rahul explained concept of Virtualization, types of Virtualization, Concept of Hypervisor and Types of Hypervisor very effectively. Hands on to transfer the files from one virtual machine to another virtual machine and a procedure to launch virtual machine using try stack / AWS was given to the students. Almost all students understood it and performed practical.

Day 4	
Date	11/08/2024
Topic	Find a procedure to launch virtual machine using try stack / AWS.
Time	9.00 am To 5:00pm

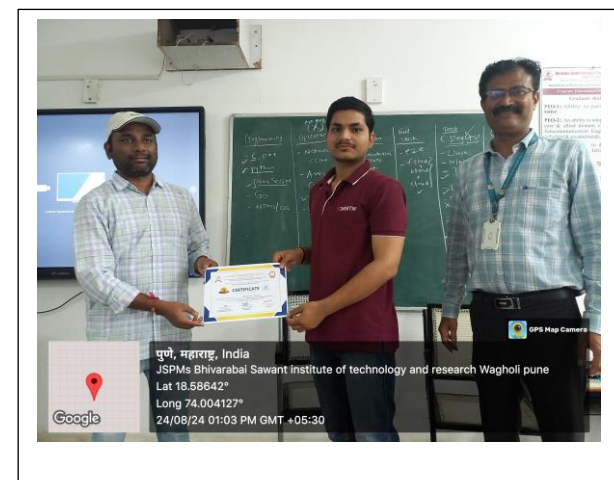




On Day 4 of Add on Course hands on training of design and deploy Virtual Machine was conducted. Various services available in AWS. Their 200 services available in AWS out of 40 Services Students /Professionals must know to develop their Professional carrier. Discussion on Amazon EC2, AWS Lambda, and Amazon S3 services.

Day 5	
Date	24 /08/2024
Topic	1.Design and Deploy Custom Application on AWS Cloud 2. Design and deploy a web application in a PaaS environment. 3.Cloud environment and application Development
Time	9.00am To 5:00 pm





Day 6	
Date	31 /08/2024
Topic	Carrier opportunities, feedback and Certificate distribution
Time	8:30 PM To 5:00 PM

On day 6 Students were guided to Understand Google App Engine, Compute Services, Storage Services, Communication Services, Amazon Web Services Architecture and core concepts, Application Lifecycle, Cost Model, Introduction to Microsoft Azure Cloud services Azure core concepts, Windows Azure Platform Appliance. Resource Person explained Opportunities in Data Science area, AWS Certification etc






Sample Add Course Certificate:




Outcome of Add on Course :

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This in turn will help in research activity.

Sr. No.	Add On Course Outcome	PO	PSO
1	C01: Understand the basic concepts of Cloud Computing.	PO1	PSO1
2	C02: Describe the underlying principles of different Cloud Service Models.	PO2	PSO2
3	C03: Classify the types of Virtualization.	PO1	PSO1
4	C04: Examine the Cloud Architecture and understand the importance of Cloud Security	PO1	PSO1
5	C05: Develop applications on Cloud Platforms.	PO2, PO3, PO4, PO5	POS3
6	C06: Understand and Develop Amazon Web Services Architecture and core concepts	PO11, PO12	PSO3


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