

**DEPARTMENT OF COMPUTER SCIENCE WITH
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

VAC-I(2022-2023)



**INTRODUCTION TO AWS – A PRACTICAL APPROACH
INCHARGE: DR.S. NIRAIMATHI**

ProgrammeCode:	B.Sc.			ProgrammeTitle:	AIand ML	
Course Code:	22VAD201			Title	Batch:	2022-2025
LectureHrs./Week or PracticalHrs./Week		Tutorial Hrs./Sem.		Title DepartmentSpecific Value-Added Course- Introduction to AWS	Semester:	II
					Credits:	

Course Objective

- To learn and understand basics and working definitions of AWS.
- To describe and provide an example of the core AWS services, including compute, network, database, and storage services.
- To understand the AWS Well-Architected Framework.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Outline the AWS – Cloud Computing basics	K1
CO2	Explain the Amazon storage services	K2
CO3	Know the Nuances of Amazon Database services	K3
CO4	Elucidate on Technical intricacies of Amazon Analytical services	K4
CO5	Conceptualize Amazon Application services	K5

Unit	Course contents	Hours
I	AWS BASICS: AWS – Cloud Computing - What is Cloud Computing? - Types of Clouds - Cloud Service Models - Advantages of Cloud Computing - AWS – Basic Architecture – AWS Cloud Computing Models - Key Considerations for Web Hosting in AWS - AWS – Management Console- How to Access AWS?-AWS–	10

	Console Mobile App - AWS — Account - How to Use AWS Account? - AWS Identity & Access Management (IAM).	
II	AMAZONSTORAGESERVICES:AWS—AmazonS3-- Amazon S3 Features - AWS — Elastic Block Store - EBS Volume Types - Amazon EBS Benefits - AWS — Storage Gateway AWS — CloudFront - How AWS CloudFront Delivers the Content? - Features of CloudFront AMAZONDATABASESERVICES:AWS—Relational Database Service - Features of Amazon RDS - AWS — DynamoDB - Benefits of Amazon DynamoDB - AWS Redshift- Features of Amazon Redshift	10
III	AMAZONANALYTICSSERVICES:AWS—Amazon Kinesis - Limits of Amazon Kinesis? Features of Amazon Kinesis - AWS — Elastic MapReduce - Benefits of Amazon EMR - AWS — Machine Learning - Types of Tasks Performed by Amazon Machine Learning - Features of Amazon Machine Learning AMAZONAPPLICATIONSERVICES:AWS—Simple Workflow Service - Benefits of Amazon SWF- AWS - WorkMail -Features of Amazon WorkMail	10
Total		30

TextBooks

S.NO	AUTHOR	TITLEOF THE BOOK	PUBLISHERS\ EDITION	YEAR OF PUBLICATION
1	MarkWilkins	Learning Amazon Web Services (AWS): A Hands-On Guide to the Fundamentals of AWS Cloud	Pearson Education, 1 st Edition	2019
2	TheoH.King	AWS: The Ultimate GuideFrom Beginners To Advanced For The Amazon WebServices	Kindle Edition	2020

ReferenceBook

S.NO	AUTHOR	TITLE OF THE BOOK	PUBLISHERS \ EDITION	YEAR OF PUBLICATION
1	Andreas Wittig and Michael Wittig	Amazon Web Services in Action	Dreamtech Publishers	2015

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HOD

Dr. S. Niraimathi

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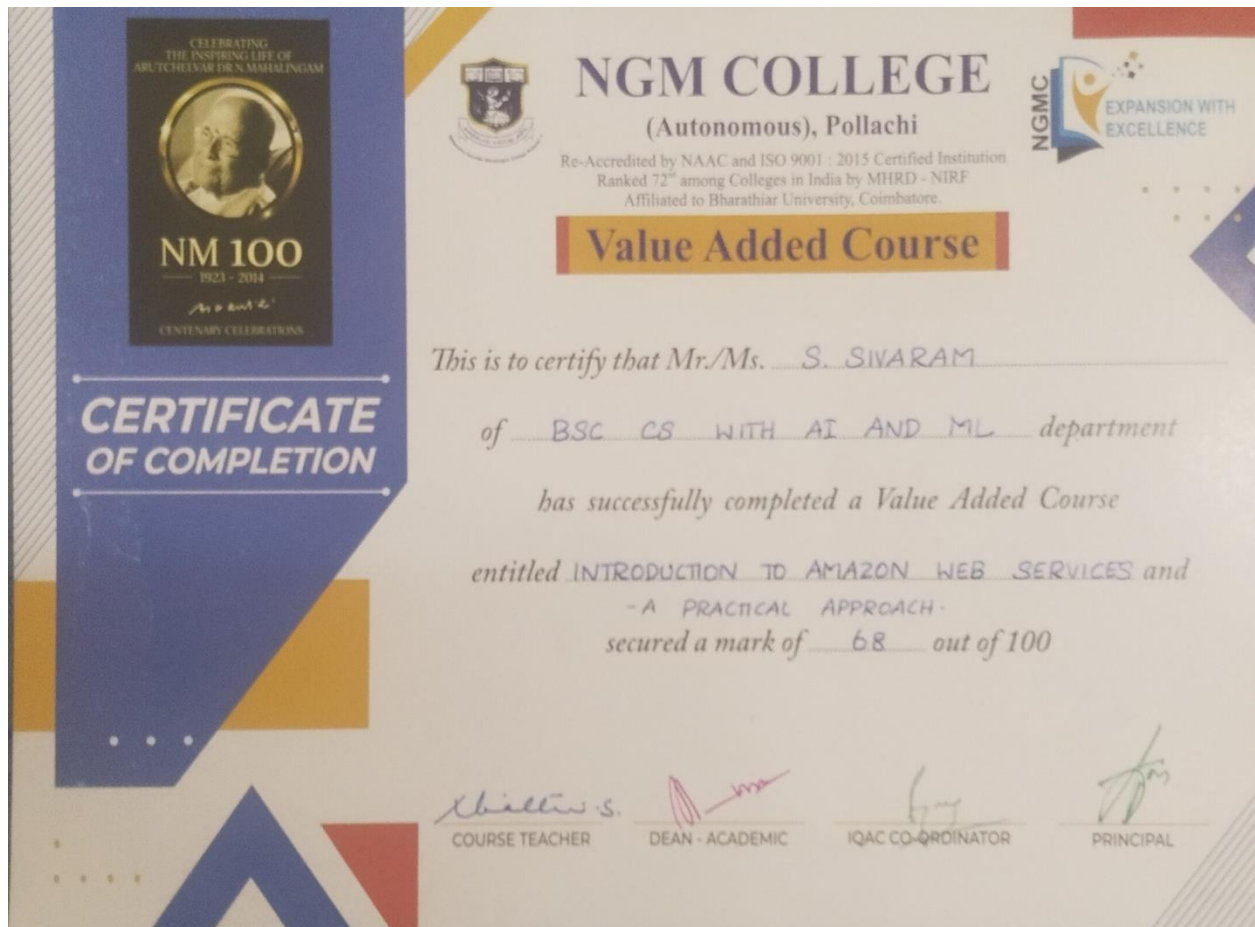
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Department of BSc CS with AI & ML

2022-2023

Value Added course: **22VAD201 Introduction to AWS (Amazon Web Services)**

Certificate



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