HANDONG UNITWIN FELLOWSHIP

SYLLABUS

Lecturer's Information	
Name	Ikwap Flavia Agatha
University	Kumi University

Course Information			
Course Name	Cloud Computing	Prerequisite Course	Networking
Course Date	2024-03-04 ~ 2024-06-30	Course Language	English
Keyword	Clould computing, Service, Storage, Networking,Virtualization,Architecture, deployment, scalability, Security, Migration, Mobile, Trends		

Course Description (100 ~200 words)	This course is concerned with developing an understanding of core principles and techniques of cloud computing. Focus will be on understanding the different cloud types, Cloud infrastructure and architecture and uses of the cloud. Emphasis will be placed on Cloud services; Software as service, platform as a service, infrastructure as a service, Further discussion of Cloud based storage and Cloud based backup systems, the concept of Virtualization in cloud computing, Cloud deployment and management, security concerns in the cloud including the different attacks, cloud Networking, managing the cloud, common components of cloud migration, Mobile cloud ecosystem, the different pillars or trends in cloud computing.
Course Goals and Objectives (Approximately 100 words)	Goal The Course aims at helping learners understand cloud computing platforms, utilizing Storage facilities in the cloud, understanding the architecture of the cloud and securely deploying and migrating to the cloud Objectives 1. Understanding the cloud and utilization of Cloud services 2. Learning Virtualization 3. Understanding the Cloud infrastructure and Architecture 4. Broad understanding of Cloud storage and Backup 5. Understanding Cloud deployment, Migration and mobile cloud ecosystem 6. Understanding the Trends in Cloud Computing
Textbook	**(The format : Title, Author/Editor, Publisher, Year of Publication)** Cloud computing,Jamsa Kris,Jones & Bartlett, 2022 Cloud Computing Simplified:Explore application of cloud, cloud deploymentmodel, service models and mobile cloud computing, SURBHI RASTOGI,BPB PUBLICATIONS, 2021
References	Cloud computing, Jamsa Kris, Jones & Bartlett, 2022 Cloud Computing Characteristics and Services: A Brief Review, Aaqib Rashid, 2019 Cloud Computing Simplified:Explore application of cloud, cloud deploymentmodel, service models and mobile cloud computing, SURBHI RASTOGI,BPB PUBLICATIONS, 2021
Course Requirements and Grades	This is an intermediate Course for students in Information technology, computer science,information systems, with networking knowledge grading: course work 30% and examination 70%

Weekly Schedule		
Week	Main Topics	Keywords
1	Introduction to Cloud Computing	Cloud computing
2	Cloud Service Models	Service
3	Data Storage in the Cloud	Storage
4	Networking in the Cloud	Networking
5	Virtualization	Virtualization
6	Cloud Infrastracture and Architecture	Architecture
7	Cloud deployment and management	deployment
8	Scalability and Performance in the Cloud	Scalability
9	Security in the Cloud	Security
10	Migrating to the Cloud	Migrating
11	Mobile Cloud computing	Mobile
12	Emerging Trends in Cloud Computing	Trends
13		
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