**Name Of Faculty : Mrs. Krishma**

**Branch : Computer Engg.**

**Semester : 5th**

**Subject : Cloud Computing**

**Lesson Plan Duration : Sep 2022 to Jan 2023**

 **Teaching load : 03 (l) 03(P)**

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| --- | --- | --- | --- | --- |
| WEEK NO. | DAY | THEORY TOPIC COVERED | WEEK NO. | PRACTICAL DONE |
| 1 | 1 | Evolution of Cloud Computing | 1 | Introduction to Cloud Vendors: Amazon, Microsoft, IBM. |
| 2 | Evolution of Cloud Computing |
| 3 | Cloud Computing Overview |
| 2 | 1 | Characteristics | 2 |
| 2 | Applications |
| 3 | Benefits and Challenges. |
| 3 | 1 | **Test** | 3 |
| 2 | Cloud Computing Service Models |
| 3 | Infrastructure as a Service |
| 4 | 1 | Platform as a Service, Software as a Service;  | 4 | Setting up Virtualization using Virtual box/VM Ware Hypervisor |
| 2 | Cloud Computing Deployment Models |
| 3 | Private Cloud and Public Cloud |
| 5 | 1 | Community Cloud and Hybrid Cloud | 5 |
| 2 | Major Cloud Service providers |
| 3 | **Seminar**  |
| 6 | 1 | **Assignment 1** | 6 | Introduction to Own Cloud  |
| 2 | Overview of SLA |
| 3 | Types of SLA |
| 7 | 1 | SLA Life Cycle | 7 |
| 2 | SLA Management Process |
| 3 | **Revision**  |
| 8 | 1 | **Test**  | 8 | Installation and configuration of Own Cloud software for SaaS |
| 2 | Overview of Virtualization |
| 3 | Types of Virtualization |
| 9 | 1 | Types of Virtualization | 9 |
| 2 | Benefits of Virtualization |
| 3 | Hypervisors |
| 10 | 1 | **Seminar** | 10 | Accessing Microsoft AZURE cloud-services |
| 2 | **Assignment 2** |
| 3 | **Test** |
| 11 | 1 | Infrastructure Security | 11 |
| 2 | Data Security & Privacy Issues |
| 3 | Legal Issues in Cloud Computing |
| 12 | 1 | Legal Issues in Cloud Computing | 12 | Cloud Simulation Software Introduction: Cloud Sim |
| 2 | Storage as a Service |
| 3 | Benefits and Challenges |
| 13 | 1 | Storage Area Networks (SANs). | 13 |
| 2 | Scheduling problem |
| 3 | Different types of scheduling |
| 14 | 1 | Different types of scheduling | 14 | Revision of practical |
| 2 | Scheduling for independent tasks |
| 3 | Scheduling for dependent tasks Static vs. Dynamic scheduling |
| 15 | 1 | **Assignment 3** | 15 | Revision of practical |
| 2 | **Test** |
| 3 | **Seminar** |
|  | 1 | **Revision** | 16 | Revision of practical |
| 16 | 2 | **Revision** |
|  | 3 | **Revision** |