Name of Faculty :Er. Anju Godara

Discipline :CSE

Semester :7th

Subject :Cloud Computing Lesson Plan

Work Load (Lecture/Practical) per week (in hours):Lectures03hours

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| Theory | **Topic Covered Date and Remarks** |
| Lecture Day | Topic (Including Assignment/Test) | Date | Hod | Director- principal |
| 1 | Introduction to cloud computing |  |  |  |
| 2 | Distributed computing |  |  |  |
| 3 | Cluster computing , grid computing |  |  |  |
| 4 | Overview of cloud computing  |  |  |  |
| 5 | History of cloud computing |  |  |  |
| 6 | Define a cloud  |  |  |  |
| 7 | Benefits of cloud computing |  |  |  |
| 8 | Cloud computing architecture |  |  |  |
| 9 | Services models(XaaS) |  |  |  |
| 10 | Infrastructure as a Service |  |  |  |
| 11 | Platform as a service |  |  |  |
| 12 | Software as a Service |  |  |  |
| 13 | Deployment models |  |  |  |
| 14 | Public cloud and private cloud |  |  |  |
| 15 | Hybrid cloud  |  |  |  |
| 16 | Community cloud |  |  |  |
| 17 | Dynamic Provisioning and Resource management |  |  |  |
| 18 | Virtualization  |  |  |  |
| 19 | Characteristics of virtualized environment |  |  |  |
| 20 | Taxonomy of virtualization Tech. |  |  |  |
| 21 | Pros and Cons of virtuakization |  |  |  |
| 22 | Xen |  |  |  |
| 23 | VMware |  |  |  |
| 24 | Hyper-V |  |  |  |
| 25 | Cloud platform in industry |  |  |  |
| 26 | Amazon web services |  |  |  |
| 27 | Compute these services |  |  |  |
|  | **-----------------------------Ist Minor Test-----------------------** |  |  |  |
| 28 | Storage services |  |  |  |
| 29 | Communication services and additional services |  |  |  |
| 30 | Google App Engine |  |  |  |
| 31 | **Arch. And core concepts** |  |  |  |
| 32 | Application life cycle |  |  |  |
| 33 | Cost model |  |  |  |
| 34 | Microsoft Azure-Azure core concepts |  |  |  |
| 35 | SQL Azure |  |  |  |
| 36 | Windows azure platform Appliance |  |  |  |
| 37 | Cloud applications and scientific applications |  |  |  |
| 38 | ECG analysis in cloud |  |  |  |
| 39 | Protein structure prediction  |  |  |  |
| 40 | Gene expression data analysis for cancer diagnosis |  |  |  |
| 41 | Satellite imae processing |  |  |  |
| 42 | Business and consumer application CRM and ERP |  |  |  |
|  | ----------------------------- 2nd Minor test------------------------- |  |  |  |
| 43 | Productivity and social networking  |  |  |  |
| 44 | Media application and mutliplyer onlin e gaming |  |  |  |
| 45 | Cloud security |  |  |  |