G.B.N. Government Polytechnic, Nilokheri

**Lesson plan (Odd Semester)**

NameofFaculty Ajay Singh

Discipline Computer Engg.

Semester V

Subject Cloud Computing

Work Load(Per Week) Lecture-2, Practical-2

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| **Week** | **Theory** | | **Practical** | |
| **Lecture Day** | **Topic** | **Practical day** | **Topic** |
| 1st | 1st | Evolution of Cloud Computing | 1st | Introduction to Cloud Vendors: Amazon, Microsoft, IBM. |
| 2nd | Cloud Computing Overview, Characteristics |
| 2nd | 3rd | Benefits, Challenges, Applications, | 2nd | Setting up Virtualization using Virtualbox/VMWare Hypervisor |
| 4th | Major Cloud Vendors/Service Provider in the world. |
| 3rd | 5th | Cloud Computing Service Models: Infrastructure as a Service | 3rd | Setting up Virtualization using Virtualbox/VMWare Hypervisor |
| 6th | Platform as a Service, Software as a Service, |
| 4th | 7th | Cloud Computing Deployment Models: Private Cloud; | 4th | Introduction to Own Cloud and its features. |
| 8th | Public Cloud, Community Cloud |
| 5th | 9th | Hybrid Cloud, Major Cloud Service providers | 5th | Introduction to Own Cloud and its features |
| 10th | Overview of SLA |
| 6th | 11th | Types of SLA | 6th | Installation and configuration of Own Cloud software for SaaS |
| 12th | SLA Life Cycle |
| 7th | 13th | SLA Management Process. | 7th | Installation and configuration of Own Cloud software for SaaS |
| 14th | Overview of Virtualization |
| 8th | 15th | Types of Virtualization | 8th | Installation and configuration of Own Cloud software for SaaS |
| 16th | Benefits of Virtualization |
| 9th | Installing Open Source Cloud simulation software Cloud Sim. |
| 9th | 17th | Hypervisors and its types |
| 18th | Storage as a Service |
| 10th | 19th | Benefits and Challenges | 10th | Installing Open Source Cloud simulation software Cloud Sim. |
| 20th | Storage Area Networks (SANs) |
| 11th | 21st | Infrastructure Security | 11th | Installing Open Source Cloud simulation software Cloud Sim. |
| 22nd | Network Level Security |
| 12th | 23rd | Data Security & Privacy Issues | 12th | Installing Open Source Cloud simulation software Cloud Sim. |
| 24th | Legal Issues in Cloud Computing. |
| 13th | 25th | Revision |  | Revision |
| 26th | Revision |
| 14th | 27th | Revision |  | Revision |
| 28th | Revision |
| 15th | 29th | Revision |  | Revision |
| 30th | Revision |
| 16th | 31st | Revision |  | Revision |
| 32nd | Revision |