# Lesson Plan

**Name of Discipline: CE**

# Subject: Cloud computing

**Lesson Plan duration=15 Week**

**Work load (Lecture/Practical) per week (in hours):** Lecture-03, Practical -03

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| **Week** | **Theory** | | **Practical** | |
| **Lecture day** | **Topic (Including assignment/test)** | **Practical Day** | **Topic** |
| 1 | 1 | Evaluation of cloud computing | 1 | Introduction to cloud vendors: Amazon, Microsoft, IBM |
| 2 | Cloud computing overview |
| 3 | Characteristics, Application |
| 2 | 5 | Benefits of cloud computing | 2 | practical repeated same as above |
| 6 | challenges of cloud computing |
| 7 | Revision, class test |
| 3 | 9 | Cloud computing service models: Iaas, Paas, Saas | 3 | Setting up virtualization using virtual box/VMware hypervisor |
| 10 |
| 11 |
| 4 | 13 | cloud computing deployment models: Public, Private, Hybrid, community | 4 | practical repeated same as above |
| 14 |
| 15 |
| 5 | 17 | Comparison of cloud deployment models | 5 | Introduction to own cloud |
| 18 | Assignment |
| 19 | Revision, class test |
| 6 | 21 | Overview of SLA | 6 | practical repeated same as above |
| 22 | Types of SLA |
| 23 | SLA life cycle |
| 7 | 25 | SLA management process | 7 | installation and configuration of own cloud |
| 26 | Revision, class test |
| 27 |
| 8 | 29 | Overview of virtualization | 8 | practical repeated same as above |
| 30 | types of virtualization |
| 31 | Benefits of virtualization |
| 9 | 33 | Hypervisors | 9 | installation and configuration of own cloud for Saas |
| 34 | Revision, class test |
| 35 |  |
| 10 | 37 | Infrastructure security | 10 | practical repeated same as above |
| 38 | Data security |
| 39 | privacy issues in cloud computing |
| 11 | 41 | Legal issues in cloud  computing | 11 | Accessing Microsoft AZURE services |

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|  | 42 | Revision |  |  |
| 43 | class test |
| 12 | 45 | Storage as a service | 12 | practical repeated same as above |
| 46 | benefits and challenges |
| 47 | Storage as a network |
| 13 | 49 | Assignment | 13 | cloud simulation software introduction: cloud sim |
| 50 | Revision |
| 51 | Class test |
| 14 | 53 | Different types of scheduling  in cloud | 14 | practical repeated same as above |
| 54 | overview of the problems of  scheduling |
| 55 | scheduling for independent and  dependent tasks |
| 15 | 57 | static vs dynamic scheduling | 15 | practical repeated same as above |
| 58 | Assignment |
| 59 | Revision |