# LESSON PLAN

| Discipline:<br>E & TC Engg. | Semester:<br>Fourth(4th) | Name of the Faculty:<br>Er. Pramod Kumar Sahu |
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| Subject:<br>Networking Lab (Pr 2) | No. of days/week class allotted:<br>Three (3) | Semester from Date: 16.01.24 to Date: 26.04.24<br>No. of Weeks: 15 |

| WEEK | CLASS DAY | PRACTICAL EXPERIMENTS |
|---|---|---|
| 1st | 1st | Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network. |
| | 2nd | |
| | 3rd | Review Class |
| 2nd | 1st | Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST<br>Making of cross cable and straight cable |
| | 2nd | |
| | 3rd | Review Class |
| 3rd | 1st | Install and configure a network interface card in a workstation |
| | 2nd | |
| | 3rd | Review Class |
| 4th | 1st | Identify the IP address of a workstation and the class of the address and configure the<br>IP Address on a workstation |
| | 2nd | |
| | 3rd | Review Class |
| 5th | 1st | Managing user accounts in windows and LINUX |
| | 2nd | |
| | 3rd | Review Class |
| 6th | 1st | Sharing of Hardware resources in the network. |
| | 2nd | |
| | 3rd | Review Class |
| 7th | 1st | Use of Net stat and its options.<br>Connectivity troubleshooting using PING, IPCONFIG |
| | 2nd | |
| | 3rd | Review Class |
| | 1st | Installation of Network Operating System(NOS) |

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| 8<sup>th</sup> | 2<sup>nd</sup> | |
| | 3<sup>rd</sup> | Review Class |
| 9<sup>th</sup> | 1<sup>st</sup> | Create a network of at least 6 computers. |
| | 2<sup>nd</sup> | |
| | 3<sup>rd</sup> | Review Class |
| 10<sup>th</sup> | 1<sup>st</sup> | Study of Layers of Network and Configuring Network Operating System |
| | 2<sup>nd</sup> | |
| | 3<sup>rd</sup> | Review Class |
| 11<sup>th</sup> | 1<sup>st</sup> | Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks |
| | 2<sup>nd</sup> | |
| | 3<sup>rd</sup> | Review Class |
| 12<sup>th</sup> | 1<sup>st</sup> | Study of Scaling of Networks, Design verities of LAN and forward of Traffic |
| | 2<sup>nd</sup> | |
| | 3<sup>rd</sup> | Review Class |
| 13<sup>th</sup> | 1<sup>st</sup> | Study WAN concepts and Configure and forward Traffic in WAN |
| | 2<sup>nd</sup> | Configure IPv4 and IPv6 and learn Quality, security and other services |
| | 3<sup>rd</sup> | Review Class |
| 14<sup>th</sup> | 1<sup>st</sup> | Learn Network programming |
| | 2<sup>nd</sup> | |
| | 3<sup>rd</sup> | Review Class |
| 15<sup>th</sup> | 1<sup>st</sup> | Troubles shoot Networks. |
| | 2<sup>nd</sup> | |
| | 3<sup>rd</sup> | Review Class |