**SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL**

**LESSON-PLAN**

**Class: BCOM.1ST YR Semester: ODD**

**Subject: Operating System Session: 2020-21**

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| **Lecture Plan** | **Topic** |
|  | Operating system. |
|  | Definition & Concept of an Operating System. |
|  | Functions of an Operating System. |
|  | Types of an O.S. |
| **1-20** | O.S. as an Extended Machine and resource Manager. |
|  | Process Management Functions. |
|  | Process Model. |
|  | OverviewHierarchies and Implementation. |
|  | Multitasking, Multi programming and Multi-Threading. |
|  | Long-term and Short-term Scheduler. |
|  | Test. |
|  | **Unit-2** |
|  | Memory Management Functions. |
| **21-42** | Memory Management of Single User O.S. |
|  | Memory Mgt. Techniques. |
|  | Memory Partition, Memory Swapping. |
|  | Memory Paging; Virtual Memory. |
|  | File Management Functions. |

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|  | File Access Methods. |
|  | File Type, File Operations. |
|  | File Naming. File Protection and security. |
|  | Test. |
|  | **Unit-3** |
|  | Unix Operating System. |
|  | Overview of Unix Operating System. |
| **43-55** | Unix Architecture. |
|  | Features of Unix Operating System. |
|  | User Management in Unix. |
|  | Unix Command. |
|  | Unix File Types, Naming Files. |
|  | Test. |
|  | **Unit-4** |
|  | Components of O.S. with reference to DOS. |
|  | Single User O.S. |
| **56-65** | Task-Loader, Memory Mgt. |
|  | File Mgt,Directory Structure DOS. |
|  | Moving renaming copying. |
|  | Deleting and undeleting file under DOS. |

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|  | Device Management Functions. |
|  | Input / Output Device and Controllers. |
|  | Interrupt Handlers,Disk Scheduling Techniques. |
|  | Test. |
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