**PGDCA**

**Operating System**

|  |  |
| --- | --- |
| Nov.2021 | Introduction to Operating System, O/Sfunctions |
| Dec,2021 | History of operating System, Real TimeSystems, Distributed systems ,O/S Services, System calls, System programs, Process concept, Process scheduling |
| Jan,2022 | Process Concept, Process scheduling, Scheduling algorithms |
| Feb,2022 | Deadlocks and its Preventation and avoidance, Recovery from deadlock, Storage Management, Storage allocation methods, Single contiguous allocation, Multiple contiguous allocation, Paging ,Segmentation. |
| March,2022 | Single Contiguous allocation, Multiple Contiguous allocation, Paging ,Segmentation. |
| April,2022 | File System ,Directory systems, Disk schedulingPolicies, File Protection |
| May,2022 | Windows and its features, use, Working with files and folders, Linux |
| June,2022 | Revision |

|  |  |
| --- | --- |
| April,2022 | Relational model Concepts, Relations, Codd’s Rules, Relational Algebra, Relational Calculus |
| May,2022 | Functional Dependencies and Normalization, AnomaliesFunctional Dependencies, Normal forms, SQL, Specifying Constraints in SQL,DDL,DML and DCL |
| June,2022 | Commands, Queries, Tables, views, Indexes, ClausesPL/SQL Architecture, PL/SQL Basics, Advantage of PL/SQL, PL/SQL character set and Data types, Control structure, |
| July,2022 | Cursors, Triggers, Programming using PL/SQL |
|  |  |

**BCAII (Relational DataBase Management Sysem)**

**BCAII (Fundamentals of Data Base System)**

|  |  |
| --- | --- |
| July,2019 | Data, Information, Records, files |
| August,2019 | Traditional file system and Data Base approach,DBMS and its components, Advantages and Disadvantages of DBMS, Roles in Data Base environment: DBA, Database Designer, Application developer and use |
| September,2019 | Database System Architecture, Three levels of architecture, Schemas, Mappings and Instances ,Data Independence ,Client server Architecture |
| October,2019 | Data Models, ,ER Model, Entity Types, Entity sets Types, ER diagram, Relational model Concepts,Relations, Codd’s Rules,Keys,Domains,Hierarchical Data model, Network data model,Relational algebra |
| November,2019 | Revision |
|  |  |