

Course Title	Database Administration and Management Lab
Course Code	DI-324L
Credit Hours	1
Category	Domain Core
Prerequisite	CC-312: Database Systems
Co-Requisite	None
Follow-up	None
Course Description	<p>Introduction: to Enterprise Database Systems. Oracle Architectural Components: What is Introduction to Enterprise Database Systems, Responsibilities of Database Administrator. Oracle Server; Oracle Instance; Physical Structure. Creating Database and Data dictionary: Creation Prerequisites; Creating Database; Starting Instance. Data Dictionary; Data Dictionary Contents. Dynamic Performance Views. Managing Control Files and Redo Log Files: Control File; Control File Contents; Multiplexing Control File; Using Redo Log Files; Structure of Redo Log File; Adding Redo Log Groups and Members; s. Managing Tablespaces: Database Storage Hierarchy; Kinds of Tablespaces; Managing Data files. Storage Structure and Relationships: Adding Data files and other Operations with Data files; Types of Segments. Managing Undo Data: Undo Segment; Read Consistency; Automatic undo Management; Managing Tables. Managing Users: Creating Users; Managing Users; Creating Tables; Managing Tables. Managing Indexes: types of Indexes; Creation and Management of Indexes. Maintaining Data Integrity: Types of Constraints; Managing Constraints. Managing Privileges: System Privileges; Object Privileges. Managing Roles: Assign and Revoke Roles and Roles Management. Network overview, Configuring Listener; Sessions. Client-Side Configuration: Host Naming Method; Local Naming Method; Net Assistant; Configurations of Different Methods. Usage and Configuration of Oracle Shared Server: Server Configuration; Dedicated Server Process; Shared Server Process. Backup and Recovery: overview, Instance and Media Recovery, Categories of Failure; Defining Backup and Recovery Strategy. Configuration of Archive log mode: Switching to Archive Log Mode; Archive Process. User Managed Backups: User Managed backups and Issues. User Managed Complete Recovery: How To recover a Database Manually Using Manual Backups. User Managed Incomplete Recovery: How to DO an Incomplete Recovery. Import/Export: Different export and import modes.</p>
Text Book(s)	<ol style="list-style-type: none"> 1. Oracle 11i DBA Fundamentals I (Student Guide, Volume I and II). 2. Oracle 11i DBA Fundamentals II (Student Guide, Volume I and II). 3. Performance Tuning (Student Guide, Volume I and II).
Reference Material	<ol style="list-style-type: none"> 1. Oracle Magazine. 2. Online Material URL http://otn.oracle.com/