BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

WORK INTEGRATED LEARNING PROGRAMMES

COURSE HANDSON LAB ASIGNMENT HANDOUT

M.Tech

Course Title	Database Systems and Applications
Course No(s)	SESAP ZC337
Credit Units	4 Credits, 24 Hours optimized delivery
Lab Session - Nov-Dec 25	Demonstration of the solution to given problem statement

Faculty: Balachandra A, Guest Faculty, BITS Pilani (WILP) Division
Email: balachandra.ananatharamaiah@wilp.bits-pilani.ac.in
Mob: 9113656626 / 9480475967

(i). Problem Statement 1: Formalize the Design and Implementation for the prototype company Database Solution prepared during Term I of DBSA course.

1. Refer to sample Software Requirements Specification (SRS) provided for COMPANY Database
2. **Task:** You are required to **develop a complete Software Requirements Specification (SRS)** for the COMPANY database based on the working prototype presented during Term I.
3. Deliverables:
   - 3.1. SRS with following structured according to **IEEE SRS standards (IEEE 830 or ISO/IEC/IEEE 29148)**.
   - 3.2. SRS Document
   - 3.3. System requirements
   - 3.4. Front End requ's and specifications
   - 3.5. ER/EER diagram, use case models (final version)
   - 3.6. Functional Requirements list (FR1… FRn)
   - 3.7. Non-Functional Requirements list (NFR1… NFRn)
   - 3.8. Data Dictionary (for each table)
   - 3.9. domain requirements
   - 3.10. performance requirements
   - 3.11. assumptions and system constraints
   - 3.12. Others requirements

(ii). Problem Statement 2: Development of Software Requirements Specification (SRS) for COMPANY Database extending capability for Spatial or Image Database Extensions

(iii).Problem Statement 3: Implement the requirements and demonstrate the working of spatial or image database