

Department of Computer Science & Engineering
TY B. Tech. (CSE) - II [2024-25]

6CS322 : Advanced Database Systems

In-Semester Evaluation (ISE) 1/2

Mini-seminar/Presentation/Prototype-demo on topic assigned to each student

1. Apache JMeter : Web application performance testing tool
2. Gatling : Web application performance testing tool
3. Locust : Web application performance testing tool
4. K6 : Web application performance testing tool
5. Tsung : Web application performance testing tool
6. Web API consuming in Angular 19
7. API first development
8. Progressive Web Application (PWA) Technology
9. Motion UI in web application development
10. Interfacing payment gateway to web enabled application
11. Python machine learning library in Object Relational Database (Oracle/MySQL)
12. MVC architecture in Angular Framework
13. Pyramid : Python Web Framework
14. TurboGears : Python Web Framework
15. Objects on the web : Designing, Building and Deploying Object Oriented Applications for the web.
16. Layered Architecture Pattern for DBMS application
17. Multi-Tenant Web Architecture
18. User Level Security Management in Angular based web Applications
19. Best Practices in Database design. (Naming/coding conventions, UML notations, documentation etc.)
20. Database Operating Systems
21. Oracle ERP
22. Graphical reporting in web applications
23. Software architecture for Web-Enabled database application.
24. Open source Angular based ERP Softwares
25. Standard Templates for web-enabled Database Applications

26. Data Visualization and Reports in Django Python web framework
27. Handling non-primitive (word / excel / pdf / image / audio / video etc.) data in DBMS applications
28. Case Study of open source/freeware Cloud-based ERP Softwares.
29. Desktop vs. Web Applications: A Deeper Look and Comparison
30. Best practices/standards for creating GUI in Web Applications
31. Microsoft Dynamics : ERP Solution – Architecture & demo
32. Web2py : Python web framework
33. Tailwind CSS UI templates / framework for business applications
34. Demo of data modeling for any enterprise application [May take from lab assignments]
35. Code protection of web application
36. Object-Relational Mappers (ORMs) : Full stack python
37. Performance evaluation of web application framework
38. Oracle Warehouse Builder
39. Report generation (free/open source) framework / library in Angular
40. How to use standard/free UI template in Angular ? Demonstrate
41. Snowflake : Data warehousing solution
42. ETL using Tableau
43. Freeware Data warehousing tools
44. Amazon Redshift : Data warehousing solution
45. Google BigQuery, : Data warehousing solution
46. Setting up of Data Warehouse in MySQL
47. Portable.io : ETL Tool
48. Talend Open Studio (TOS) : ETL Tool
49. Airbyte : ETL Platform
50. Pentaho Data Integration : EPL Tool

Rubrics

Activity	Marks
Material / literature survey	6
Understanding of topic	6
Presentation	8
Total ISE Marks	20

Instructions:

1. Each student will do this work independently on assigned topic.
2. For each topic, search on web, download relevant material and study.
3. **Prepare video recording of presentation for 5 minutes.**
4. Create a folder by your PRN_ISE_1_of_2. e.g. **22520014_ISE_1_of_2**
5. This folder should contain following soft copies :
 - a. all downloaded / refer materials [no setup of any s/w].
 - b. Write-up / Report of presentation
 - c. ppt with first slide containing PRN, Name , Topic No. , Topic Name
 - d. Video recording of presentation in MP4 format (5 minutes)
6. **ZIP above folder and email to bfmomin@yahoo.com**
7. **Not emailing zipped file, will be treated as “ABSENT” : NULL ISE (0 marks)**
8. **Deadline: on or before 20/02/2025 @5:30pm!!**

Allotment of topics

PRN	Topic Sr. No.	PRN	Topic Sr. No.	PRN	Topic Sr. No.	PRN	Topic Sr. No.
2020BTECS00007	30	22510029	32	22510062	48	22510108	18
2020BTECS00208	49	22510030	14	22510063	5	22510109	22
21510020	43	22510031	37	22510064	42	22510110	1
21510064	31	22510033	50	22510065	15	22510111	39
21510075	17	22510034	21	22510067	27	22510112	23
22110053	49	22510035	6	22510070	47	22510113	33
22510001	32	22510037	13	22510072	6	22510114	29
22510003	1	22510039	38	22510076	35	22510115	19
22510004	16	22510040	9	22510077	16	22510116	38
22510005	2	22510041	22	22510078	26	22510117	24
22510006	33	22510042	12	22510079	46	22510118	46
22510007	44	22510043	16	22510080	7	22510119	2
22510008	3	22510044	39	22510081	25	22510120	12
22510009	27	22510045	33	22510082	17	22510121	28
22510010	34	22510046	17	22510086	34	22510122	25
22510012	50	22510047	40	22510089	45	22510123	47
22510013	4	22510048	18	22510090	8	22510124	20
22510014	15	22510049	23	22510092	24	22520003	31
22510015	35	22510050	19	22510093	18	23520001	26
22510016	30	22510051	11	22510094	9	23520002	40
22510017	5	22510052	41	22510095	41	23520003	3
22510018	14	22510053	37	22510096	19	23520004	27
22510019	31	22510054	10	22510097	44	23520005	32
22510020	6	22510055	22	22510099	10	23520006	35
22510021	13	22510056	24	22510101	20	23520007	39
22510022	26	22510057	9	22510102	48	23520008	28
22510023	45	22510058	42	22510103	25	23520009	40
22510025	7	22510059	23	22510105	11	23520010	30
22510027	36	22510060	28	22510106	43	23520011	4
22510028	8	22510061	12	22510107	21	23520012	29
						23520013	36

Date : 28/01/2025

Dr. B. F. Momin
Course Teacher