

## DRONACHARYA COLLEGE OF ENGINEERING

Department: CSE

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Academic Session: (MAY-AUG 2021)

Lecture Plan with Assignment questions

Subject with code: AJAVA (PCC-CSE-306G))

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S.No	Lect No.	Sem-Class	Unit	Topic/Chapter covered	Lecture Wise Questions
1	1	6th sem - CSE	I	Servlet introduction, web terminology	Q. Explain servlets. Q. What are the various web technologies used nowadays?
2	2	6th sem - CSE	I	Servlet API, Servlet Interface, generic Servlet, Http Servlet, Servlet lifecycle	Q. Explain architecture of Servlets.
3	3	6th sem - CSE	I	Servlet with IDE (Eclipse, My Eclipse, NetBeans), Servlet request, Servlet collaboration	Q. Programs for the same.
4	4	6th sem - CSE	I	Servlet configuration, context, attribute in Servlet	Q. Discuss attributes in Servlets.
5	5	6th sem - CSE	I	CRUD, pagination, input output stream, annotation, single thread model, SSI;	Q. Explain CRUD. Q. Program on single thread model
6	6	6th sem - CSE	I	Lifecycle of JSP, JSPAPI, scripting elements, Implicit Objects, directive elements,	Q. 2 Programs on JSP
7	7	6th sem - CSE	I	Exceptions, action elements, expression language, MVC in JSP, JSTL,	Q. Program on action elements. Q. Program on expressions in JSP
8	8	6th sem - CSE	I	JSTL function, formatting, XML, SQL tags	Q. Program for the same.
9	9	6th sem - CSE	II	Introduction, features, models, components, Struts2 architecture	Q. Explain in detail Struts architecture.
10	10	6th sem - CSE	II	Struts2with18N, zero configuration,	Q. Discuss in detail zero configuration request with the action Q. Map the
11	11	6th sem - CSE	II	Struts2withtiles, Hibernate with Struts2,	Q. What is Java Persistence API (JPA)? Q. What are the important benefits of using Hibernate Framework?
12	12	6th sem - CSE	II	Java mail introduction, methods of sending email	Q. 2 programs for the same.
13	13	6th sem - CSE	II	, sending attachment, receiving attachment, sending HTML, forwarding, deleting email;	Q. 2 programs for the same.
14	14	6th sem - CSE	III	Hibernate(HB): Introduction, architecture	Q. What is Hibernate configuration file? Q. What is Hibernate mapping file?
15	15	6th sem - CSE	III	HB with IDE, HB Log4j, inheritance mapping	Q. Name some important annotations used for Hibernate mapping? Q. Hibernate Session is thread safe?

16	16	6th sem - CSE	III	HB mapping, transaction management	Q. How to configure Hibernate Second Level Cache using EHCACHE? Q. What is use of Hibernate Session merge() call?
17	17	6th sem - CSE	III	HB query language, HB criteria query language	Q. Can we execute native sql query in hibernate? Q. What is the benefit of native sql query support in hibernate?
18	18	6th sem - CSE	III	named query, HB caching, integration, HB lifecycle	Q.How transaction management works in Hibernate? Q. How to integrate log4j logging in hibernate application?
19	19	6th sem - CSE	III	Introduction to spring, modules, spring with IDE	Q.What is the difference between the Configuration types XML and Annotation? Q.What is the role of @SpringBootApplication?
20	20	6th sem - CSE	III	dependency injection methods, spring AOP	Q.What is the difference between JDBC and Spring JDBC? Q. Describe the cases in which the Dependency Injection is done through Constructors and Setters?
21	21	6th sem - CSE	III	spring Jdbc template, spring ORM, SPEL, MVC tag library,	Q. What is Spring Security? Q. List out the new features available in Spring Framework 4.0 and Spring Framework 5.0?
22	22	6th sem - CSE	III	applications, spring remoting	Q. 2 programs for the same.
23	23	6th sem - CSE	III	spring OXM, spring web, security models,	Q. Discuss various security models for the same.
24	24	6th sem - CSE	III	spring boot, spring with angular;	Q. 2 programs for the same.
25	25	6th sem - CSE	III	PROGRAMS REVISION	Revision of Programs
26	26	6th sem - CSE	IV	Introduction to android, history & versions, architecture, building blocks	Q.What is the Android Architecture? Q. Describe the Android Framework.
27	27	6th sem - CSE	IV	Emulator, android widgets, activity and intents	Q.What is the importance of having an emulator within the Android environment?
28	28	6th sem - CSE	IV	Android fragments, android menu, android service,	Q.What items are important in every Android project? Q. What is the importance of XML-based layouts?
29	29	6th sem - CSE	IV	SQLite, XML & JSON,android speech,	Q. 2 programs for the same.
30	30	6th sem - CSE	IV	multimedia, telephony, maps;	Q. 2 programs for the same.
31	31	6th sem - CSE	IV	java design pattern	Q. Explain the types of design pattern
32	32	6th sem - CSE	IV	creational, structural, behavioral,	Q. Differentiate between creational and structural behaviour.
33	33	6th sem - CSE	IV	J2EE patterns,	Q. Explain J2EE.
34	34	6th sem - CSE	IV	presentation layers, Revision of programs	Revision of programs