

**KSSEM**

**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU - 560109**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

NAME OF THE STAFF : Mrs. Veena R. S  
 COURSE CODE/TITLE : 17CS553 / ADVANCED JAVA AND J2EE  
 SEMESTER/YEAR : V 'B' / III  
 ACADEMIC YEAR : 2019 - 2020

Sl. No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date	Engaged Date
<b>MODULE 1</b>							
1	Enumerations, Enumeration fundamentals, the values() and valueOf() Methods	L+D	BB	1	1	29/7/19	29/7/19
2	Java enumerations are class types, enumerations Inherits Enum, example	L+D	BB	1	2	31/7/19	1/8/19
3	Type wrappers, Autoboxing, Autoboxing and Methods	L+D+De	BB+LCD	1	3	1/8/19	5/8/19
4	Tutorial	L+D	BB	0	3	2/8/19	2/8/19
5	Autoboxing/Unboxing occurs in Expressions	L+D+De	BB+LCD	1	4	5/8/19	7/8/19
6	Autoboxing/Unboxing, Boolean and character values, Autoboxing/Unboxing helps prevent errors, A word of Warning	L+D+De	BB+LCD	1	5	7/8/19	8/8/19 14/8/19
7	Annotations, Annotation basics, specifying retention policy, Obtaining Annotations at run time by use of reflection	L+D+De	BB+LCD	1	6	8/8/19	19/8/19
8	Annotated element Interface, Using Default values	L+D+De	BB+LCD	1	7	10/8/19	20/8/19
9	Marker Annotations, Single Member annotations, Built-In annotations	L+D+De	BB+LCD	1	8	14/8/19	20/8/19
10	Tutorial	L+D	BB	0	8	16/8/19	19/8/19

MODULE 2							
11	String Handling :The String Constructors, String Length, Special String Operations, String Literals, String Concatenation	L+D+De	BB+LCD	1	9	19/8/19	21/8/19 22/8/19
12	String Concatenation with Other Data Types, String Conversion and toString() Character Extraction, charAt(), getChars(), getBytes() toCharArray()	L+D+De	BB+LCD	1	10	21/8/19	26/8/19
13	String Comparison, equals() and equalsIgnoreCase(), regionMatches() startsWith() and endsWith(), equals() Versus == , compareTo() Searching Strings	L+D+De	BB+LCD	1	11	22/8/19	27/8/19
14	Tutorial	L+D	BB	0	11	23/8/19	27/8/19
15	Modifying a String, substring(), concat( ), replace(), trim(), Data Conversion Using valueOf()	L+D+De	BB+LCD	1	12	26/8/19	27/8/19
16	Changing the Case of Characters Within a String, Additional String Methods, StringBuffer, StringBuffer Constructors, length() and capacity()	L+D+AV	BB+LCD	1	13	28/8/19	28/8/19
17	ensureCapacity(), setLength(), charAt() and setCharAt(), getChars()	L+D+De	BB+LCD	1	14	29/8/19	28/8/19
18	Tutorial	L+D	BB	0	14	30/8/19	20/9/19
19	append(), insert(), reverse(), delete() and deleteCharAt()	L+D+De	BB+LCD	1	15	31/8/19	29/8/19
20	Tutorial	L+D	BB	0	15	6/9/19	16/9/19
21	replace( ), substring( ) Additional StringBuffer Methods, StringBuilder	L+D+De	BB+LCD	1	16	16/9/19	29/8/19
MODULE 3							
22	Collections Overview, Recent Changes to Collections	L+D	BB	1	17	18/9/19	18/9/19
23	The Collection Interfaces, The Collection Classes	L+D+De	BB+LCD	1	18	19/9/19	19/9/19
24	Tutorial	TPS	BB	0	18	20/9/19	20/9/19
25	Accessing a collection Via an Iterator	L+D+De	BB+LCD	1	19	23/9/19	19/9/19
26	Storing User Defined Classes in Collections	L+D+De	BB+LCD	1	20	25/9/19	23/9/19 25/9/19
27	Working With Maps	L+D+De	BB+LCD	1	21	26/9/19	26/9/19

28	Tutorial	L+D	BB	0	21	27/9/19	27/9/19
29	Comparators	L+D+De	BB+LCD	1	22	30/9/19	30/9/19
30	The Collection Algorithms, Why Generic Collections?	L+D	BB	1	23	3/10/19	30/9/19
31	Tutorial	L+D	BB	0	23	4/10/19	10/10/19
32	The legacy Classes and Interfaces, Parting Thoughts on Collections	FCR	LCD	1	24	5/10/19	9/10/19
<b>MODULE 4</b>							
33	Background; The Life Cycle of a Servlet; Using Tomcat for Servlet Development	L+D	BB	1	25	9/10/19	18/10/19
34	A simple Servlet; The Servlet API	L+D+De	BB+LCD	1	26	10/10/19	21/10/19
35	Tutorial	L+D	BB	0	26	11/10/19	11/10/19
36	The javax.servlet Package; Reading Servlet Parameter	L+D+De	BB+LCD	1	27	12/10/19	24/10/19
37	The javax.servlet.http package	L+D+De	BB+LCD	1	28	17/10/19	24/10/19
38	Tutorial	L+D	BB	0	28	18/10/19	25/10/19
39	Handling HTTP Requests and Responses	L+D+De	BB+LCD	1	29	21/10/19	25/10/19
40	Using Cookies; Session Tracking.	L+D+De	BB+LCD	1	30	23/10/19	25/10/19
41	Java Server Pages (JSP): JSP, JSP Tags, Tomcat,	L+D+De	BB+LCD	1	31	24/10/19	30/10/19 6/11/19
42	Tutorial	TPS	BB	0	31	25/10/19	8/11/19
43	Request String, User Sessions, Cookies, Session Objects	L+D+De	BB+LCD	1	32	28/10/19	31/10/19
<b>MODULE 5</b>							
44	The Concept of JDBC; JDBC Driver Types; JDBC Packages	L+D	BB	1	33	30/10/19	7/11/19
45	A Brief Overview of the JDBC process	L+D	BB	1	34	31/10/19	8/11/19
46	Database Connection	L+D+De	BB+LCD	1	35	4/11/19	8/11/19
47	Associating the JDBC/ODBC Bridge with the Database	L+D+De	BB+LCD	1	36	6/11/19	14/11/19
48	Statement Objects	L+D+De	BB+LCD	1	37	7/11/19	11/11/19
49	Tutorial	L+D	BB	0	37	8/11/19	18/11/19
50	ResultSet	L+D+De	BB+LCD	1	38	11/11/19	13/11/19

51	Transaction Processing: Metadata, Data types	L+D+De	BB+LCD	1	39	13/11/19	14/11/19
52	Exceptions	L+D+De	BB+LCD	1	40	14/11/19	14/11/19
53	Revision	L+D	BB	0	40	18/11/19	
54	Revision	L+D	BB	0	40	20/11/19	
55	Revision	L+D	BB	0	40	28/11/19	

Total No. of Lecture Hours = 40

Total No. of Tutorial Hours = 12

Total No. of Revision Hours = 03

*Neena*  
Course In charge

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