

## Lesson Plan (2020)

**Faculty Name:** Dr. Neeru Kamboj

**Class:** BCA II

**Subject:** Fundamentals of DatabaseSystem (BCA – 235)

**Web Link for**

**Content**[https://drive.google.com/drive/folders/1d4wgPYDOLxwHDFk0\\_zL4-\\_WID0WP3\\_QM](https://drive.google.com/drive/folders/1d4wgPYDOLxwHDFk0_zL4-_WID0WP3_QM)

<b>Week</b>	<b>Content</b>	<b>Mode of Delivery</b>
17.8.20- 22.8.20	<b><u>DBMS: An Introduction</u></b> 1. Data 2. Information 3. Records and files 4. Database Definition	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery
24.8.20- 29.8.20	<b>Cont.....</b> 1. Data Diligence 2. Database in DBMS 3. File Handling	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery
31.08.20- 05.09.20	<b>Cont.....</b> 1. Traditional file – based Systems 2. Approach-Limitations of File Based Approach 3. Database -Characteristics of Database 4. Database Management System (DBMS)	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
7.9.20- 12.9.20	<b><u>Components of DBMS Environment</u></b> 1. Hardware/Software, Data, 2. Users, Procedures 3. DBMS Functions 4. DBMS Components 5. Advantages and Disadvantages	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.

14.9.20- 19.9.20	<p style="text-align: center;"><b>Cont.....</b></p> <ol style="list-style-type: none"> <li>1. DBA and its responsibilities</li> <li>2. Data Administrator and Its responsibilities</li> <li>3. Database Designers</li> <li>4. Application Developers and End Users</li> </ol>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
21.9.20- 26.9.20	<p style="text-align: center;"><b><u>Database System Architecture</u></b></p> <ol style="list-style-type: none"> <li>1. Three Levels of Architecture</li> <li>2. External, Conceptual and Internal Levels</li> <li>3. Schemas, Mappings and Instances</li> <li>4. Revision</li> </ol>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
28.9.20- 3.10.20	<p style="text-align: center;"><b><u>Data Independence</u></b></p> <ol style="list-style-type: none"> <li>1. Logical and Physical Data Independence</li> <li>2. Classification of Database Management System</li> </ol>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
5.10.20- 10.10.20	<p style="text-align: center;"><b>Conti.....</b></p> <ol style="list-style-type: none"> <li>1. Centralized DBMS</li> <li>2. ClientServer architecture to DBMS.</li> <li>3. Revision</li> </ol>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
12.10.20- 17.10.20	<p style="text-align: center;"><b><u>Data Models</u></b></p> <ol style="list-style-type: none"> <li>1. Records- based Data Models</li> <li>2. Object-based Data Models</li> <li>3. Physical Data Models</li> <li>4. Conceptual Modeling</li> </ol>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
19.10.20- 24.10.20	<p style="text-align: center;"><b><u>Entity-Relationship Model</u></b></p> <ol style="list-style-type: none"> <li>1. Entity Types</li> <li>2. Entity Sets</li> <li>3. Attributes Relationship Types</li> <li>4. Relationship Instances and ER Diagrams</li> </ol>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
2.11.20- 7.11.20	<p style="text-align: center;"><b><u>Relational Data Model</u></b></p> <ol style="list-style-type: none"> <li>1. Brief History</li> <li>2. Terminology in Relational Data Structure</li> <li>3. Relations, Properties of Relations</li> </ol>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.

9.11.20- 14.11.20	<p style="text-align: center;"><b><u>Cont.....</u></b></p> <p>4. Keys, Domains 5. Integrity Constraints over Relations 6. Base Tables and Views</p>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
16.11.20- 21.11.20	<p style="text-align: center;"><b><u>Cont.....</u></b></p> <p>1. Hierarchical Model 2. Network Data Model. 3. Revision</p>	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.

**Department of Computer Science**

(Dr. Neeru Kamboj)



