

<b>LESSON PLAN: Database Management System(Th-1)</b>		
<b>Discipline :</b>	<b>Computer Science and Engineering</b>	
<b>Faculty :</b>	<b>Swarna Sarika Naik</b>	
<b>Semester :</b>	<b>4th<sup>th</sup> Sem</b>	
<b>Duration :</b>	<b>14 WEEKS (16<sup>th</sup> February 2023to 1<sup>st</sup> June 2023)</b>	
<b>Work Load :</b>	<b>Lecture :</b>	<b>4 Lectures per week (50 minutes per Class)</b>
<b>Week</b>	<b>Week Day</b>	<b>Theory</b>
<b>1<sup>st</sup></b>	<b>1<sup>st</sup></b>	<b>What is database? Purpose of database</b>
	<b>2<sup>nd</sup></b>	Data abstraction
	<b>3<sup>rd</sup></b>	Database user
	<b>4<sup>th</sup></b>	Data definition language
<b>2<sup>nd</sup></b>	<b>5<sup>th</sup></b>	Data Dictionary
	<b>6<sup>th</sup></b>	Data independence
	<b>7<sup>th</sup></b>	Entity relationship model
	<b>8<sup>th</sup></b>	Entity set and Relationship set
<b>3<sup>rd</sup></b>	<b>9<sup>th</sup></b>	Attribute
	<b>10<sup>th</sup></b>	Mapping constraints
	<b>11<sup>th</sup></b>	E-R diagram
	<b>12<sup>th</sup></b>	Relational Model
<b>4<sup>th</sup></b>	<b>13<sup>th</sup></b>	Hierarchical Model and Network Model
	<b>14<sup>th</sup></b>	Introduction to relational Database
	<b>15<sup>th</sup></b>	Introduction to different Operator
	<b>16<sup>th</sup></b>	Selection operation
<b>5<sup>th</sup></b>	<b>17<sup>th</sup></b>	Project operation
	<b>18<sup>th</sup></b>	Join operation
	<b>19<sup>th</sup></b>	Example of all operation
	<b>20<sup>th</sup></b>	Functional Dependencies
<b>6<sup>th</sup></b>	<b>21<sup>st</sup></b>	Functional Dependencies
	<b>22<sup>nd</sup></b>	Lossless join
	<b>23<sup>rd</sup></b>	Importance of Normalization
	<b>24<sup>th</sup></b>	1 <sup>st</sup> Normal form
<b>7<sup>th</sup></b>	<b>25<sup>th</sup></b>	2 <sup>nd</sup> Normal form
	<b>26<sup>th</sup></b>	3 <sup>rd</sup> Normal form
	<b>27<sup>th</sup></b>	BCNF

	28 <sup>th</sup>	Elementary idea of Query language
8 <sup>th</sup>	29 <sup>th</sup>	Query in SQL
	30 <sup>th</sup>	Queries to create
	31 <sup>st</sup>	Queries to create
	32 <sup>nd</sup>	Queries to update
9 <sup>th</sup>	33 <sup>rd</sup>	Queries to update
	34 <sup>th</sup>	Insert in SQL
	35 <sup>th</sup>	Insert in SQL
	36 <sup>th</sup>	Revision
10 <sup>th</sup>	37 <sup>th</sup>	Idea about transaction processing
	38 <sup>th</sup>	Idea about transaction processing
	39 <sup>th</sup>	Transaction and system concept
	40 <sup>th</sup>	Transaction and system concept
11 <sup>th</sup>	41 <sup>st</sup>	Properties of traction
	42 <sup>nd</sup>	Properties of traction
	43 <sup>rd</sup>	Schedule and recoverability
	44 <sup>th</sup>	Schedule and recoverability
2 <sup>th</sup>	45 <sup>th</sup>	Introduction to concurrency control concept
	46 <sup>th</sup>	Basic concept
	47 <sup>th</sup>	lock
	48 <sup>th</sup>	Live lock
13 <sup>th</sup>	49 <sup>th</sup>	Deadlock
	50 <sup>th</sup>	Deadlock
	51 <sup>st</sup>	serializability
	52 <sup>nd</sup>	Revision
14 <sup>th</sup>	53 <sup>rd</sup>	Authorization and view
	54 <sup>th</sup>	Security constraint
	55 <sup>th</sup>	Security constraint
	56 <sup>th</sup>	Integrity constraint
15 <sup>th</sup>	57 <sup>th</sup>	Integrity constraint
	58 <sup>th</sup>	Encryption
	59 <sup>th</sup>	Encryption
	60 <sup>th</sup>	Revision
