

DHABALESWAR INSTITUTE OF POLYTECHNIC

LESSON PLAN

Discipline: <i>Department of CSE</i>	Semester: <i>4th</i>	Name of the Teaching Faculty <i>Rajman Kumar Sanki</i>
Subject:	No. of days per week Class Allotted:	Semester from Dt. <i>14.02.2023</i> to Dt. <i>23.05.2023</i> No. of Weeks: _____
Week	Class Day	Theory / Practical Topics
	L-01	CH-1: Basic concepts of DBMS
	L-02	→ Purpose of database systems
	L-03 & L-04	→ Explain Data Abstraction
	L-05	→ Database users
	L-06	→ Data Definition Language
		→ Data Dictionary
		<u>CH-2: Data models</u>
	L-07	→ Data independence
	L-08 & L-09	→ Entity relationship models
	L-10 & L-11	→ Entity sets and relationship sets
	L-12	→ Explain Attributes
	L-13	→ E-R Diagram
	L-14	→ Relational model
	L-15	→ Hierarchical model
	L-16	→ Network model
		<u>CH-3: Relational Database</u>
	L-17	→ Relational algebra
	L-18 & L-19	→ Create, insert operators.
	L-20	→ Select, project operators.
	L-21 & L-22	→ Other operators with examples.

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LESSON PROGRESS

Date	Topic to be covered as per Lesson Plan	Topic actually covered	Point / Contents Discussed (in brief)	Sign. of Teacher
14.2.23	Purpose of DBMS	→ Purpose of DBMS		Dr. P. A.
15.2.23	→ Data Abstraction	→ Data Abstraction	→ e.g. keyboard button	Dr. P. A.
16.2.23	→ Database Users	→ Naive users	→ Examples	Dr. P. A.
20.2.23	→ Database Users	→	→ Examples	Dr. P. A.

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Week	Class Day	Theory / Practical Topics
		<u>CH-4: Normalisation in Relational System</u>
		L-23 → Functional Dependencies
		L-24 → Lossy Join
		L-25 → Importance of normalisation
		L-26 → 1st normal form
		L-27 → 2nd normal form
		L-28 → 3rd normal form
		L-29 → BCNF
		<u>CH-5: SQL</u>
		L-30 → Elementary idea of query Language
		L-31 → Queries in SQL
		L-32 → Queries with example.
		<u>CH-6: Transaction Processing Concepts</u>
		L-33 & L-34 → Idea about transaction processing
		L-35 & L-36 → Transaction & System Concepts
		L-37 → Properties of transaction
		L-38 & L-39 → Schedules & recoverability
		<u>CH-7: Concurrency Control Concepts</u>
		L-40 → Basic Concepts
		L-41 & L-42 → Locks, Live Locks
		L-43 & L-44 → Dead Lock
		L-45 & L-46 → Serializability

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Week	Class Day	Theory / Practical Topics
		<u>CH-8: Security and Integrity</u>
	L-47 & L-48	→ Authorization & Access
	L-49	→ Security constraints
	L-50	→ Integrity constraints
	L-51 & L-52	→ Encryption