

KONGU ENGINEERING COLLEGE (Autonomous)

PERUNDURAI ERODE - 638 060

DEPARTMENT OF COMPUTER SCIENCE AND **ENGINEERING**

Course Plan Revision-2.1 01-12-2018 IQAC

	S.Mohanapriya,	Programme & Department of the Students	
Course Code & Name	S.Gayathri 18CST41 Database	Academic Year, Semester & Section	2020-21, II CSE 'A', 'B', 'C','D'
Type of Course	I I I Cartanie	actical / Practical / Value Added Course / Other	rs(specify)

OUTCOME BASED EDUCATIONAL DETAILS - COURSE WISE

COUR	SE OU	TCOMI	S:	students	will be al	ole to						9		BT Maj (Highest	pped Level)
	npietio	of the c	Carta		itectur	e and a	nnlicat	ions of	databa	se system	m		A	pplyin	g (K3)
001:	- 11 June relational database with SOI statements											_	pplyin		
002:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												Applying (K		
03: 004:	Apply indexing and hashing techniques in the design of relational database and										and	Applyin	g (K3)		
CO5:							ntrol ar	nd reco	very in	a relatio	nal data	abase	1	Applyin	g (K3)
						Maj	plng of	COs with	POs, PS	Os					
CO: POs&I		POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
co		3	2	1										3	1
cc)2	3	2	1						2				3	1
cc)3	3	2	1						2				3	1
		2	2	1										3	1
cc)4	3													

COURSE PLAN FOR THEORY COURSE / THEORY CUM PRACTICAL (THEORY COMPONENT):

		CO(s)	Cognitive	TLM	Planned*		Actual*	
. No.	Intended learning Outcomes	Mapped	Level		Date	Period	Date	Period
1.	ILO1.1:Describe the purpose of database systems and its applications	CO1	К2	M1				
2.	ILO1.2:Outline the view of data and database languages	CO1	K2	MI				
3.	ILO1.3:Elaborate the components of database architecture	COI	K2	МІ				
4.	ILO1.3:Elaborate the components of database architecture	COI	K2	М1				
5.	ILO1.4:Demonstrate the structure of relational databases and schema	CO1	К3	MI				
6.	ILO1.5:Illustrate the different types of keys in relational databases	COI	K2	M1,M2				_
7.	ILO1.6:Design a schema diagram for the Given application	-	К3	MI				-
8.	ILO1.7:Explain the unary and binary operations in relational algebra	COI	K2	M1,M2				

Cognitive Process

: K1 - Remembering K2 - Understanding K3 - Applying K4 - Analyzing K5 - Evaluating : F - Factual C - Conceptual P - Procedural MC - Meta Cognitive

Knowledge Dimension Psychomotor Domain

: \$1-Imitation \$2-Manipulation \$3-Precision

S4-Articulation

S5-Naturalization

	col	K2	M1,M2	T	_	-
9. ILO1.7:Explain the unary and bin	ary		MI	-	_	1
operations in relational algebraiches	ital CO2	К2	M1,M2			
constructs and concepts in SQL	ous CO2	К3	MI,MZ			
operations that can be carried	ate CO2	К3	M1,M2			
12 ILO2,3:Illustrate the built-in aggregation		К3	M1,M2			
functions in SQL 13. ILO2.4:Identify the importance of nes	200	К3	MI		_	
sub queries in SQL ILO2.5:Demonstrate the purpose	of CO2	K3	M1,M2		_	
views and joins 15 ILO2.5:Demonstrate the purpose		K3	M1,M2			
views and joins	and CO2	K3	M1,M2			
authorization to a given model for	the CO2		M1,M2			
given problem Fig. 22 7-Design an ER model for	the CO2	К3				
given problem 19. ILO3.1:Describe the features of a	of CO3	K2	M1			1
19. ILO3.1:Describe the various normal good relational design 20. ILO3.2:Demonstrate the various normal states and states are states as a second state of the states are states as a second state of	mal CO3	К3	M1			1
20. ILO3.2:Demonstrate the various norm 21. ILO3.2:Demonstrate the various norm	mal CO3	К3	M1,M2			+
21. ILO3.2:Demonstrate the various north		К3	M1,M2			+
22. ILO3.2:Demonstrate the various norm 23. ILO3.2:Demonstrate the various norm		К3	M1,M2			+
		KI	M1		-	+
24. ILO3.3:Recall the characteristics of distorage and tertiary storage		K2	M1		-	+
25. ILO3.4: Paraphrase the different and levels	of CO3	K2	M1		+	+
26. ILO3.5:Outline the methods		К3	M1		+	+
27. ILO3.6:Determine the possible ways		K2	M1,M2		+	+
28. ILO4.1: Explain the concepts of order	(A) 175 (A)	Could de le			-	
29. ILO4.2:Demonstrate various operation in B tree	ons CO4	К3	M1,2			
30. ILO4.2:Demonstrate various operation	ons CO4	К3	M1,M2			
in B tree 31. ILO4.3:Demonstrate various operation	ons CO4	К3	M1,M2	tak: ye	4 12 1	1
in B+ tree 32. ILO4.3:Demonstrate various operation	ons CO4	К3	M1,M2	REE	7	
in B+ tree 33. ILO4.4:Apply static and dynam		К3	M1,M2			
hashing methods in relational database 34. ILO4.4:Apply static and dynam	nic CO4	К3	M1,M2			
hashing methods in relational database		К3				
indices and apply for a application			M1,M2		-	
38. ILO4.6:Interpret the basic concepts transaction processing	of CO4	K2	M1			
 ILO4.6: Apply the concepts transaction processing in an application 	of CO4	К3	M1,M2	3-20		
o. ILO5.1: Demonstrate the lock base protocol to ensure concurrency control	sed COS	K2	M1,M2			
. ILO5.1: Demonstrate the lock base	sed cos	K2	MIMO		W.,.	
protocol to ensure concurrency control ILO5.2: Illustrate how deadlock			M1,M2			
handled in a transaction	003	К3	M1,M2	The same of		
ILO5.2: Illustrate how deadlock	is CO5	К3	M1,M2	+		

ransaction	- Contraction of the Contraction	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND		
Jacket in a transaction Jacket Apply timestamp and validation Jacket Apply timestamp and validation Jacket Apply timestamp and validation Jacket Apply to scrializability order	COS	К3	M1,M2	the same of the sa
Apply timestamp and validation and Protocol to serializability order and Apply timestamp and validation and Protocol to serializability order and Protocol to serializability order and Protocol to serializability order	COS	K3	MI	
protocol timestamp and validation	COS	КЗ		
and protocol timestamp and validation	COS	К3	MI	
protoco dimestamp and validation	COS	K3	MI	
ased protocol to Bertalita	COS	K2	MI	
ystem Outline the various recovery	COS	KI	MI	
torithms and butter management		,	MI	
strategies and buffer management	COS	К3	M1,M2	
strategies for the applications strategies for the applications [LO5.5: Overview of query processing and optimization	COS	K2	M1	

Note: Content beyond syllabus if any may be included.

Tutorial plan

T		CO(s)	Cognitive	Plant	red*	Actual*		
io.	Intended learning Outcomes	Mapped	Level	Date	Period	Date	Period	
-	Applications, Keys and Relational algebra operations	COI	К3					
	ER MODEL	CO2	К3					
-	SQL	CO2	К3					
<u>. </u>	Normalization	CO3	К3					
<u>. </u>	Indexing and Hashing, Transactions	CO4	К3					
5. 6.	Concurrency control and recovery	COS	КЗ					
_	system ER MODEL AND SQL	CO1,CO2	К3				-	
7.	NORMALIZATION, INDEXING, TRANSACTIONS	CO3,CO4, CO5	К3					

COGNITIVE PROCESS DISTRIBUTION IN PERCENTAGE: (Percentage of questions to be asked in each CATs)

Assessments /	К1	K2	К3	K4	K5	K6
Cognitive	0	26	46			
CAT-I	- 8		60			
CAT - II	4	16	46			
CAT - III	8	26	40			
Other Assessment - I Note: Tolerance limit i						

Cognitive Process : K1 - Remembering K2 - Understanding K3 - Applying K4 - Analyzing K5 - Evaluating MC - Meta Cognitive MC - Meta Cognitive S5-Naturalization S1-Imitation S2-Manipulation S3-Precision S4-Articulation S5-Naturalization

TION PAPER		No. of	No. of Choices	Marks / Question	mark in thi
	Section(s) & Type of Question	Questions		2	sectio
Test	Quem	10	NIL		20
	Part A	+4	Any 3	10	30
CAT-I	Part B	+			
CAI		1	NIL	2	20
	Part A /MCQ	10	Any 3	10	30
	Part B/MCQ	4			
CAT-II			NIL	2	20
	Part A /MCQ	10		10	30
CAT-III	Part B/MCQ	4	Any 3		30
-	Tal. Direct				

COURSE PLAN FOR ACTIVITY:

S. No	Description	CO(s) Mapped	Cognitive, Knowledge, Psychomotor Dimension	Planned Date ⁴	Actual Date*
	i Project	C01,C02,C0	K3,S3		
1.	Activity - Mini Project	3,CO4,CO5			

COURSE PLAN FOR OTHER ASSESSMENTS

S. No	Description	CO(s) Mapped	Cognitive, Knowledge, Psychomotor Dimension	Planned Date*	Actual Date*
Assessment 1:	(Case study / Mini Project / Online 7	Test / Industrial Training / Pap	er Presentation /	Others)	

^{*} To be filled sectionwise

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(S. SHAMPH)

Course Faculty

Course Faculty

S. Mohana priya)

3. Grayni (S. Grayattiri)

HoD