

## National Institute of Technology Meghalaya An Institute of National Importance

CURRICULUM

Programme			Peeboler of Technolomyin Computer Opieroe and Engineering													2010	2020
	•														2019-2020 V		
	epartme		COII				ening				Cradit	Structure	Seme		Marka Di	-	
Course Code CS 353		Course Name Database Management Systems Lab								L	T	P	Continuous				Total
										0	1	2	2	<b>70</b>		30	100
Course Objectives		To understand the concept of Database Management System in practical view and software specific tools for information processing oriented framework.									CO1 Able to understand and demonstrate the real ti the Database Management Systems, compor software tools.						
		To understand and demonstrate the E-R data model in formal way and implementation of relational data model (E-R data model) in relational data model using query and procedure.									CO2	Able to design, Normalize, and implement the database schema for the given problems.					
		To understand the real time problem, design an application as the developer to accomplish the given task. DDL/DML, declare and kee developing database using Management System.											and keep the e using the n.	ery using the SQL commands i.e ep the integrity constraints on the the concept of Relational Database			
		in multiuser database environment. Able to design and deve											such as sto	formance of query and write the s stored procedure, cursor, store elop the graphical user interface			
											CO5	application using fourth generation language to access the database.					
No	COs	Mapping with Program Outcomes (POs)												Mapping with PSOs			
No.		PO	)1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSC
1	CO1	3		3	0	0	0	0	0	0	2	0	0	0	3	0	3
2	CO2	3		3	3	1	2	0	0	0	1	0	0	0	2	3	2
3	CO3	1		2	3	3	2	2	0	0	0	0	0	0	2	3	3
4	CO4	1		2	3	3	3	2	3	0	2	0	0	1	2	3	2
5	CO5	2		3	3	2	2	3	2	0	2	0	0	1	3	3	3
		SYLLABUS															
No.		Content													Hours COs		
	-	nment on Entity Relationship modeling of real world problems.												02 CO1 02 CO1		CO1	
II	Assign	ssignment on creating relational databases with simple tables										02		CO1 CO2			
	Assign	menton	impl	ementatio	onofindex	ing structu	res								02		CO1
III																	CO2
IV	Assignment on creating databases with indexing structures													02	003		
V VI			· ·		SQLquerie										02 02		CO3 CO3
V I	Assign	ssignment on creating views and queries based on views										02		CO3			
VII	Assign	menton	write	e SQL que	riesusingl	ogical ope	rations (=,<	<,>,etc)							02		CO3
VIII	Accian	menter implementing orthodded COL suprise														02 CO4	
X	_	nment on implementing embedded SQL queries Iment on PL/SQL														02 CO4	
X	•		•		g and recov	very									02 CO4		CO4
XII	•		•	•	multi-user										02		
XII	Mini Pr	roject us	ingth	ne selecte	d RDBMS a	nd front e		otal							02 CO5 24		CO5
	<u> </u>						10	Jai							24		
Esse 1.		eadings schatz, K		and Sudaı	rshan, Data	abase syste	em concept	ts, McGraw	v Hill, 7th	Edition, 201	9.						
2.	C.J. Da	ate, An Ir	ntrod	uction to	Database S	Systems (8	th Edition),	, Pearson, S	8th Editio	on, 2004.							
3.	Steve	n Feuers	stein,	Bill Pribyl,	, "Oracle Pl	L/SQL Prog	ramming,"	', O'Reilly N	Media, 6tł	h Edition, 20	14.						
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1. Elmasri and Navathe, Fundamentals of database systems; Pearson, 7th Edition, 2016.

2. Raghu Ramakrishnan and Gehrke, Database Management System, McGraw-Hill, 3rd Edition, 2014.

3. C. J. Date, SQL and Relational Theory: How to Write Accurate SQL Code, O'Reilly Media, 3rd Edition, 2015.