

TEACHING PLAN FOR THEORY

Subject: Operation Research		Class: FY(E)	Branch: MCA	Year 2016-2017
Lecture No	Scheduled Date	Topics to be covered on the scheduled date	Dates On which Actually covered	Reasons for deviation(if any)
		Unit I: Introduction of Operation Research		
1	02/01/17	History ,Nature of OR ,Impact of OR ,Application Areas Overview of modeling approach		
2	03/01/17	Formulating the problem, Constructing a mathematical model,		
3	04/01/17	Deriving a solution, Testing a model and the solution, Establishing control over the solution, Implementation issues		
		Unit II: Linear Programming		
4-5	05/01/17- 06/01/17	Linear Programming-Mathematical formulation of Problems		
6-7	09/01/17- 10/01/17	graphical solution,		
8-10	11/01/17- 13/01/17- 12/01/17	Simplex method		
11-13	16/01/17- 18/01/17- 19/01/17	Big M Method		
14-15	20/01/17- 23/01/17	concept of duality, dual simplex method		
16	24/01/17	Degeneracy and its resolution,		
17	25/01/17	sensitivity analysis.		

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		Unit – III :Transportation problem		
17	27/01/17	Assignment problems- Mathematical formulation, and modified distribution method,		
18-20	30/01/17- 31/01/17- 01/02/17	Hungarian method for solution,		
21-22	02/02/1- 03/02/17	unbalanced assignment problems, infeasible assignment,		
23-24	06/02/17- 07/02/17	Transportation problems- North-west corner Rule – lowest cost methods		
25-26	09/02/17- 10/02/17	Vogel’s approximation method,		
27-28	16/02/17- 17/02/17	Transportation problems- North-west corner Rule – lowest cost methods –Vogel’s approximation method,		
29	20/02/17	degeneracy in transportation problems,		
30-31	21/02/17- 23/02/17	Transshipment problems, Minimization and Maximization problem.		

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		Unit IV: Sequencing Problem & Decision Theory																	
32	24/02/17	Sequencing Model: Classification of self-problems,																	
33	27/02/17	processing of n jobs through two machines,																	
34	28/02/17	three machines, processing of two jobs through m machines.																	
35	01/03/17	Classification of Decisions, Steps in decision theory approach,																	
36-37	02/03/17-03/03/17	Decision making under certainty,																	
38-39	06/03/17-07/03/17	Decision making under uncertainty,																	
40	13/03/17	Decision making under risk,																	
41	16/03/17	Decision making under conflict																	
		Unit V: Game Theory																	
42	17/03/17	Introduction to Game Theory																	
43	20/03/17	Terminologies of Game Theory,																	
44-45	21/03/17-22/03/17	Game of pure strategy (Saddle point),																	
46-47	23/03/17	Mix strategy (Game without saddle point),																	
48	24/03/17	Reducing game by dominance.																	

FACULTY TIME –TABLE

Effective From: 16/06/2014

Period No.	Period		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	From	To						
1	9:15	10:15						← AT(E)L/JP/208-A,B→
2	10:15	11:15						
3	11:30	12:30	Elective(CC)					
4	12:30	1:30			DBMS	Elective(CC)	DBMS	
5	2:15	3:15						
6	3:15	4:15	DBMS			DBMS		
7								
8								
9								
10								

FACULTY TIME –TABLE

Effective From: 16/06/2014

Period #	1	2	3	4	5	6	7	8	9	10
Day /Time	9:15	10:15	11:30	12:30	2:15	3:15				
Monday			Elective(CC)			DBMS				

Total Load	6	8	14
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VISION AND MISSION OF THE DEPARTMENT OF MCA

Vision:

To achieve progress through education by keeping pace with rapidly changing technologies.

To provide functional, technical, interpersonal & communication skills, while preparing students to work effectively for successful career position in the field of information & technology.

Mission:

*To serve the society and enhance the quality of life through excellence and leadership.
Our strength will be directed to create competent professional.
Our endeavor will be to provide all possible support to*

promote research and development activity.

Regular Assessment of diary by HOD and Principal

Week no	Date	No. of lectures conducted	% syllabus covered	Status / Remarks by HOD	Dated Signature By HOD	Status / Remarks by Principal	Dated Signature By Principal
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

12						
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16						

LAB EXPERIMENT LIST

Subject: HBASE		Class: SY (MCA)	Branch:	Year 2016-207
Sr. No	Name of Experiment			Software/ Hardware/ Equipments Required
01	Study of Entity Relationship Diagram			
02	Study of SQL statements such as: 1.Data Definition Language(DDL) 2.Data Manipulation Language(DML)			
03	Study of SQL statements such as 1.Transaction Control Language(TCL) 2.Data Control Language(DCL)			
04	Introduction to SQL.To know about Data retrieval in SQL using SELECT statement.			
05	Study of SQL functions such as avg,max,min,sum,count			
06	Study of SQL operations such as union, union all, intersect,minus.			
07	Study of SQL join concept such as simple, equi, non- equi, self, outer join.			
08	Study of SQL statements such as Sequence, View & Index			
09	Study of PL/SQL Block			
10	To write a PL/SQL block which includes use Cursors in it			
11	To understand about Procedures in PL/SQL programming block.			

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12	To understand about Function in PL/SQL programming block.	
13	To understand about Package in PL/SQL programming block.	
14	To understand about Triggers in PL/SQL programming block.	
15	To understand HBase Command Shell (Preferably JRuby-based (JIRB) shell)	
16	Study of HBase Commands – create, get, put, list, scan, delete, alter, count, describe.	