WORK PLAN

Course name:BTech Computer Science

Semester:IV

Paper Code:

Paper name: Algorithms

Taught by:Mohini Mahashay

Work plan:

Week	Date	Topic	Book
Week 1	5 – 11 Jan	Insertion sort , Merge Sort , Analysis of these sorting algorithms	TH Cormen Sara Baase
Week 2	12 – 18 Jan	Sequential search , Binary search , Bubble sort , selection sort	TH Cormen Sara Baase
Week 3	19-25 Jan	Correctness and analysis of all algorithms, Heap Sort	TH Cormen
Week 4	26 Jan – 1 Feb	Heap Sort , Quick Sort	TH Cormen
Week 5	2-8 Feb	Count Sort , Radix Sort , Bucket Sort	TH Cormen
Week 6	9 – 15 Feb	Order statistics	TH Cormen
Week 7	16-22 Feb	RBT	TH Cormen

Week 8	23 Feb – 1 Mar	RBT , Dynamic Programmming	TH Cormen
Week 9	2 – 8 Mar	Dynamic + greedy programming	TH Cormen
Week 10	9 – 15 Mar	Dynamic Programming + Greedy approach	TH Cormen
Week 11	16 – 22 Mar	OFF	
Week 12	23 – 29 Mar	String Matching	Sara Baase
Week 13	30 Mar – 5 Apr	Presentations	
Week 14	6 – 12 Apr	Presentations	
Week 15	13 – 19 Apr	Presentations	
Week 16	20 – 25 Apr	Revision	

Course name:BSc. (Hons) Computer Science

Semester:II

Paper Code:CSHT-204

Paper name:Computer System Architecture

Taught by:Mohini Mahashay

Work plan:

Week	Date	Topic	Book
Week 1	5 – 11 Jan	Computer registers organisation	M . Mano

Week 2	12 – 18 Jan	Bus System ,	M . Mano
		Instruction set ,	
		Timing and Control	
Week 3	19-25 Jan	Instruction cycle,	M . Mano
		Memory reference	
Week 4	26 Jan – 1 Feb	I/O , interrupt , Bus	M . Mano
		Interconnection	William Stallings
Week 5	2-8 Feb	Microprogrammed	M . Mano
		Control	
Week 6	9 – 15 Feb	Microprogrammed	M . Mano
		Control	
Week 7	16-22 Feb	Addressing Modes,	M . Mano
		Machine Language,	
		Assembly Language	
Week 8	23 Feb – 1	Input Output	M . Mano
	Mar	Programming , RISC ,	
		CISC	
Week 9	2 – 8 Mar	Pipelining , I/O	M . Mano
		organisation	
Week 10	9 – 15 Mar	I/O organization	M . Mano
Week 11	16 – 22 Mar	OFF	
		011	
Week 12	23 – 29 Mar	I/O organization	M . Mano
Week 13	30 Mar – 5	Memory : Revision	M . Mano
	Apr		
Week 14	6 – 12 Apr	Revision : Solve	
		previous Year Papers	
Week 15	13 – 19 Apr	Revision	
Week 16	20 – 25 Apr	Revision	

Course name:BA (Programme) DC-CS

Semester:II

Paper Code:

Paper name: Database Management Systems

Taught by:Mohini Mahashay

Work plan:

Week	Date	Topic	Book
Week 1	5 – 11 Jan	Introduction to database and DBMS, Role and Advantages of DBMS, Types of Databases, DBMS architecture ,Database design	P.Rob , C.Coronel
Week 2	12 – 18 Jan	Problems with File System, Data and Structural independence, Database Systems (CHAPTER 1 complete), Introduction to SQL	P.Rob , C.Coronel
Week 3	19-25 Jan	Data Models , Importance , Basic building Blocks , Business Rules , Database Definition Commands	P.Rob , C.Coronel
Week 4	26 Jan – 1 Feb	Evolution of Data Models , Database Manipulation Commands	P.Rob , C.Coronel
Week 5	2-8 Feb	Logical View Of data, Keys, Integrity Rules, Operators, Advanced Data Definition Commands	P.Rob , C.Coronel

Operators , Data Dictionary , Advanced Data Definition Commands Week 7 16-22 Feb Relations within the database , Advanced Select Queries Week 8 23 Feb - 1 Advanced Select Queries , Joining Database Tables Week 9 2 - 8 Mar ER Models , ER diagram Week 10 9 - 15 Mar ER Models , ER diagram Week 11 16 - 22 Mar OFF Week 12 23 - 29 Mar Normalisation Practice Questions Week 13 30 Mar - 5 Apr Chapter 8 Practical Questions Week 14 6 - 12 Apr Revision For Ch 1 , 2 P.Rob , C.Coronel Week 15 13 - 19 Apr Revision For Ch 3 , 4 P.Rob , C.Coronel Week 16 20 - 25 Apr Revision P.Rob , C.Coronel	Week 6	9 – 15 Feb	Relational Set	P.Rob , C.Coronel
Advanced Data Definition Commands Week 7 16-22 Feb Relations within the database , Advanced Select Queries Week 8 23 Feb – 1 Mar Advanced Select Queries , Joining Database Tables Week 9 2 – 8 Mar ER Models , ER diagram Week 10 9 – 15 Mar ER Models , ER diagram Week 11 16 – 22 Mar OFF Week 12 23 – 29 Mar Normalisation Practice Questions Week 13 30 Mar – 5 Apr Chapter 8 Practical Questions Week 14 6 – 12 Apr Revision For Ch 1 , 2 P.Rob , C.Coronel			Operators , Data	
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Week 15 13 – 19 Apr Revision For Ch 3, 4 P.Rob , C.Coronel		Apr	Questions	
	Week 14	6 – 12 Apr	Revision For Ch 1, 2	P.Rob , C.Coronel
Week 16 20 – 25 Apr Revision P.Rob , C.Coronel	Week 15	13 – 19 Apr	Revision For Ch 3, 4	P.Rob , C.Coronel
	Week 16	20 – 25 Apr	Revision	P.Rob , C.Coronel