

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

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