#### GOUR MAHAVIDYALAYA, MANGALBARI, MALDA Department of Computer Science & Application ONLINE CLASS: 01.07.2020 to 28.5.2021 DOCUMENTS/WEB PAGE

The academic year 2020-21 is an unprecedented time, due to the COVID Pandemic situation. As per the Government of West Bengal's order, all the educational institutions were closed and no student was allowed to come to the institution. Hence, all the teaching was done in online mode only.

	<b>ONLINE TEACHING AND LEARNING: 2020-21</b>							
Name of the Faculty	Platform & Applications Used	Tools Used						
Arijit Bhattacharya	Google Meet, Team link, Google Classsroom, WhatsApp, Google Group (through Email), Idroo – white board, Google meet white board, Zoomit, MS- Powerpoint, Logisim – Digital Logic practical, sim8085 –microprocessor practical, Oracle – database practical, My-Sql – database practical, Gcc Compiler for C practical, g++ Compiler for C++ practical, Bash Shell – Ubuntu– shell programming.	Laptop or Mobile, Graphic drawing tablet.						
Akhil Kumar Das	Google Meet, Team link, Google Classsroom, WhatsApp, Google Group (through Email), Idroo – white board, Google meet white board, Zoomit, MS- Powerpoint, Oracle – database practical, My- Sql – database practical, Gcc Compiler for C practical, Codeblock	Laptop or Mobile						
Ekram Alam	Google Meet, Team link, Google Classsroom, WhatsApp, Google Group (through Email), Idroo – white board, Google meet white board, Zoomit, MS- Powerpoint, Gcc Compiler for C practical, Javac– java programming, Codeblock	Laptop or Mobile						
Dr. Subhendu Chatterjee	<b>Zoom</b> , Google Meet, Google Classroom, WhatsApp, MS- Power point, My-Sql – database practical.	Laptop or Mobile						
Debpratim Sinha	Zoom, GoogleMeet, Google Classsroom, WhatsApp,	Laptop or Mobile						
Shib Charan Chowdhury	GoogleMeet, Google Classsroom, WhatsApp, MS- Powerpoint, sim8085 –microprocessor practical, Gcc Compiler for C practical -Ubuntu	Laptop or Mobile						
Dipanjan Saha	No information found							

Academic Quarter	Class	Name Of The Faculty	Topic To Be Covered	No. of Lectures
Q1	•	•		
July 20 - September 20	1 <sup>ST</sup> SEM (Hons.)	Arijit Bhattacharya	<b>DC1: Discrete Mathematics: Part - I</b> <b>Number Systems:</b> Introduction: Weighted and Non-Weighted Codes, positional, Binary, Octal, Hexadecimal,	15
20		HONS.	Binary coded Decimal (BCD), Gray Codes, Alphanumeric codes, ASCII, EBCDIC, Conversion of bases.	
		(THEORY+ PRACTICAL)	<b>Sets:</b> finite and Infinite sets, un-countably Infinite Set; functions, relations, Properties of Binary Relations, Closure, Partial Ordering Relations; counting - Pigeonhole Principle,	
		SYLLABUS TOPICS As per ALLOTED	Permutation and Combination; Mathematical Induction, Principle of Inclusion and Exclusion.	

Academic Quarter	Class	Name Of The Faculty	Topic To Be Covered	No. of Lectures
	<ul> <li>3<sup>RD</sup> SEM (Hons.)</li> <li>Arijit</li> <li>Bhattacharya</li> <li>Bhattacharya</li> <li>DC5: Computer Organization &amp; Architecture: : Part - I</li> <li>Basic Structure of Computers: Basic Functional Units</li> <li>Basic Operational Concept, Bus Structure, Software</li> <li>Performance, Multiprocessor and Multicomputer. Register</li> <li>Transfer and Micro-operation: Register Transfer Language</li> <li>Register Transfer, Bus and Memory Transfers, Three Stat</li> <li>Bus Buffers, memory Transfer, Arithmetic and Logica</li> <li>micro-operations, Shift and Arithmetic shifts. Basic</li> <li>Computer Organization and Design: Instruction Codees</li> <li>Stored Program Organization, Indirect Address, Compute</li> <li>Register Reference Instruction Cycle, fetch Decode</li> <li>Register Reference Instructions, Memory Reference</li> <li>Instruction, Input-Output and Interrupt, Design of Basic</li> <li>Computer, Design of Accumulator Logic.</li> <li>CPU Organization: Arithmetic and Logic Unit (ALU)</li> <li>Combinational ALU, 2'S Complement Addition, Subtraction</li> <li>Unit, Booths Algorithm for Multiplication, Division</li> <li>Hardware using Restoration Division Algorithm. Generar</li> <li>register organization, Accumulator Based, Register Based</li> <li>Stack Type CPU organization.</li> </ul>		30	
			requirements, Secondary Storage: Magnetic Hard Disks. <b>DC7: Object Oriented Programming with C++ : : Part - I</b> Introduction to C++: Overview of Procedural Programming and Object-Orientation Programming, Using main() function, Compiling and Executing Simple Programs in C++. Concepts of Data Types, Variables, Constants, Operators and Basic I/O Expressions, Conditional Statements and Iterative Statements, Functions and Arrays Pointers and References in C++, Memory Allocation in C++. Using Classes in C++: Principles of Object-Oriented Programming, Defining & Using Classes, Class Constructors.	30
	3 <sup>RD</sup> Year (Hons)	Arijit Bhattacharya	<b>Group – C : Computer Graphics: : Part - I</b> Introduction: Co-ordinate System, Information Handling Software, Graphics Software, Area of Application, Translation, Rotation, Scaling, Matrix Representation.	20
			Group – A: Object Oriented Programming: Part - I Concepts: Difference with procedure oriented programming, Data Abstraction and Information Hiding, Objects, Classes and Methods, Encapsulation, Inheritance, Polymorphism, Basics of programming.	20
Q2 Oct20-Dec20	1 <sup>ST</sup> SEM (Hons.)	Arijit Bhattacharya	<b>DC1: Discrete Mathematics: Part - II</b> <b>Recurrences:</b> Recurrence Relations, generating functions, Linear Recurrence Relations with constant coefficients and their solution, Substitution Method, Master Theorem, Growth of Functions: Asymptotic Notations. <b>Propositional Logic:</b> Logical Connectives, Well-formed Formulas, Tautologies, Equivalences, Inference Theory.	15
	3 <sup>RD</sup> SEM (Hons.)	Arijit Bhattacharya	<ul> <li>DC5: Computer Organization &amp; Architecture: Part - II</li> <li>Control Unit: Hardwired Control Unit, Micro-programmed</li> <li>Control Unit: Control memory, Address Sequencing,</li> <li>conditional branching, mapping of instructions, subroutine,</li> <li>Design of Control Unit.</li> <li>CPU Registers: Program Counter, Stack Pointer Register,</li> <li>Memory Address Register, Instruction Register, Memory</li> <li>Buffer Register, Flag registers, Temporary Registers.</li> <li>Instructions: Operational Code, Operands, Zero, One, Two</li> <li>and Three Address Instruction, Instruction Types,</li> <li>Addressing modes, Data Transfer and Manipulation</li> <li>instructions, Program control instructions.</li> <li>CISC and RISC processors: Introduction, relative merits</li> <li>and De-merits.</li> <li>Input / Output Organization: Polling, Interrupts,</li> <li>subroutines, Memory mapped IO, IO mapped IO, DMA, Bus</li> <li>Arbitration.</li> <li>Memory: Primary memory: ROM, PROM, EPROM,</li> </ul>	30

			EEPROM, Flash memory, RAM: SRAM,DRAM, Cache Memory: Mapping Functions, Replacement Algorithms, Hit and Miss ratio, Virtual memories, Address Translation, Memory Management requirements, Secondary Storage: Magnetic Hard Disks.	
			<b>DC7: Object Oriented Programming with C++ : Part - II</b> Constructor Overloading, Function overloading in classes, Class Variables &Functions, Objects as parameters, Specifying the Protected and Private Access, Copy Constructors, Overview of Template classes and their use. Overview of Function Overloading and Operator Overloading: Need of Overloading functions and operators, Overloading functions by number and type of arguments, Looking at an operator as a function call, Overloading Operators (including assignment operators, unary operators)	30
	3 <sup>RD</sup> Year (Hons.)	Arijit Bhattacharya	<b>Group – C : Computer Graphics: Part - II</b> Introduction : Homogeneous Co-ordinate System, Composite Transformation, Inverse Transformation, Projection & Clipping: Cohen Sutherland line clipping, 2D & 3D Transformations, Lines, Curves and their presentations	20
			<b>Group – A : Object Oriented Programming: Part - II</b> Object Oriented Programming through C++: Input/Output, Function and Operator Overloading, Constructors and Destructors.	20
Q3 Jan21- March21	2 <sup>nd</sup> SEM (Hons.)	Arijit Bhattacharya	DC4: a) Digital Logic System : Part - I Boolean Algebra: Fundamentals of Boolean Expression: Definition of Switching Algebra, Basic properties of Switching Algebra, Huntington's Postulates, Basic logic gates (AND, OR, NOT), De-Morgan's Theorem, Universal Logic gates (NAND, NOR), Minterm, Maxterm, Minimization of Boolean Functions using K-Map, Simplification of logic expression. <b>Combinational Circuits:</b> Half adders, Full Adder, Half Subtractor, Full Subtractor and construction using Basic Logic Gates (OR, AND, NOT) and Universal Logic Gates (NAND & NOR), Multibit Adder- Ripple Carry Adder, Carry Look Ahead adder, BCD Adder, Adder/Subtractor unit Construction using 4 bit Full adders units, 1 bit, 2 bit and 3 bit Comparators. Data Selector- Multiplexer: Expansion (Cascading), Function Realization. Encoders:- Realization of simple Encoders and priority Encoders using Basic and Universal Logic gates. Data Distributor:- De-multiplexer, Cascading. Chip Selector/Minterm Generator - Decoder- Function Realization, Cascading, BCD Decoders, Seven Segment Display and Decoders, realization of seven segment decoders using basic gates. Parity bit and Code Converters: Parity bit Generator/Checker, Gray to Binary code converter, Binary to Gray Code Converter.	30
	4 <sup>th</sup> SEM (Hons.)	Arijit Bhattacharya	DC8: a) Theory of Computation : Part - I Finite Automata: Definition of a Finite Automaton, Model, Representation, Classification – with respect to output function Mealy and Moore Machines, with respect to State Transition – Deterministic and Non-Deterministic Machine, Examples, conversion algorithms Mealy to Moore and Moore to Mealy, Non-Deterministic to equivalent Deterministic Finite automata, Finite and Infinite state machines, Removal of Null-transitions, Acceptability of String by a Finite Automaton, Design of different Finite State Machines, Minimized Equivalent Machine. Formal Languages and Grammar: Introduction to Formal Grammar and Language, Formal Definition, Chomsky's Classification of Grammar – Type 0, Type-1 or Context Sensitive, Type-2 or Context Free and Type-3 or Regular Grammar, Illustration of each of these classes with example, Sentential form, Sentences – Languages or strings, Derivations – left, right derivation, Derivation tree, Parse Tree, Syntax Tree, Ambiguous Grammar and Language, Designing of Grammar for a	30

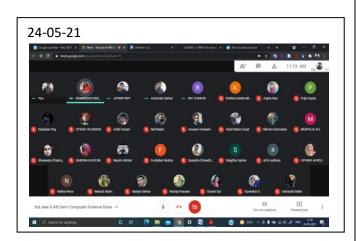
			language, Finding Language for Given Grammar.	
			<b>Programming 8085: Part - I</b> Instruction Set of 8085, Different Programming Techniques, Stack and Subroutines, Counter and Time Delays, Code Conversion, BCD Arithmetic and 16 bit Data Operation.	20
	3 <sup>RD</sup> Year (Hons.)	Arijit Bhattacharya	Paper - VII Group - A : Microprocessor: Part - IInterfacing concepts- Memory Interfacing, I/O Interfacingand Ports - Keyboard Interfacing, Display Interfacing,Storage Device Interfacing	20
01			<b>Group – A : Object Oriented Programming: Part - III</b> Copy Constructors and Assignment Operator, Overloading, Single and Multiple Inheritance, Polymorphism and Virtual Functions, Namespace, Exception Handling, Templates.	20
<b>Q4</b> April21- June21	2 <sup>nd</sup> SEM (Hons.)	Arijit Bhattacharya	DC4: a) Digital Logic System : Part - II Sequential Circuits: Set/Reset (SR) Latch: Using NAND and NOR gates, Gated S-R latches, D Latch, J-K Latch, T Flip Flop, Race around Condition, Master Slave J-K Flip Flop, Edge Triggered SR, D and JK Flip Flop, Flip-Flop Conversions, Flip-Flops with Preset and Clear. Registers: Serial Input Serial Output, Serial Input Parallel Output, Parallel input Serial Output, Parallel Input parallel Output, Universal Shift Registers. Counters: Asynchronous Counter: UP/DOWN Counters, Mod - N Counters, BCD Counter, Synchronous Counter: UP/DOWN Counters, Mod-N Counters, Ring Counters, Johnson Counters.	30
	4 <sup>th</sup> SEM (Hons.)	Arijit Bhattacharya	<b>DC8: a) Theory of Computation : Part - II</b> Definition and basic idea about Push Down Automaton Regular Expression: Basic Idea and Definition, Regular Expression basic Identities, Arden's Theorem and application for reduction of equivalent regular expressions, Thompson's Construction Algorithm – Regular expression to Finite Automata conversion, State Transition System to Regular Expression conversion algorithm by Arden's Algebraic Method, FA to Regular Grammar and Regular Grammar to FA conversion algorithms and applications. Turing Machine: Concepts of Turing Machine, Formal Definitions, Classifications – Deterministic and Non- Deterministic Turing Machines, Simple Design of Turing Machines like – Unary Adder, Subtractor, Concatenator, Odd / even count etc and concepts of Universal Turing Machines.	30
			<b>Programming 8085: Part - II</b> Instruction Set of 8085, Different Programming Techniques, Stack and Subroutines, Counter and Time Delays, Code Conversion, BCD Arithmetic and 16 bit Data Operation.	20
	4 <sup>th</sup> SEM BCA (Hons.)	Arijit Bhattacharya	<ul> <li>DC8: Discrete Mathematics: Part - I</li> <li>Sets: finite and Infinite sets, un-countably Infinite Set; functions, relations, Properties of Binary Relations, Closure, Partial Ordering Relations; counting - Pigeonhole Principle, Permutation and Combination; Mathematical Induction, Principle of Inclusion and Exclusion.</li> <li>Recurrences: Recurrence Relations, generating functions, Linear Recurrence Relations with constant coefficients and their solution, Substitution Method, Master Theorem, Growth of Functions: Asymptotic Notations.</li> <li>Propositional Logic: Logical Connectives, Well-formed Formulas, Tautologies, Equivalences, Inference Theory.</li> </ul>	30
	3 <sup>RD</sup> Year	Arijit Dhattaaharma	Paper – VII Group – A : Microprocessor: Part - II	20
	(Hons) 5 <sup>™</sup> Sem BCA Non CBCS	Bhattacharya Arijit Bhattacharya	Programming a MicroprocessorCOURCE 53: UNIX AND SHELL PROGRAMMING:Salient Features of UNIX, multi user, multi tasking capability, UNIX system Organization, types of shells Bourne shell, C shell, Korn Shell. UNIX Kernal Fundamentals. UNIX File systems: Creating files, listing files and directories, masking file permission, directory permission, Directory related commands. The boot block,	20

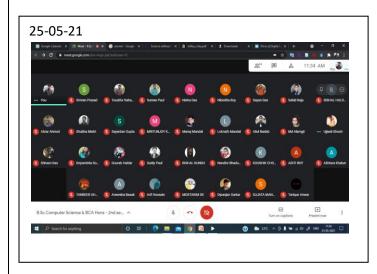
the super block, Incode table, data blocks, Disk related commands.Essential UNIX commands: I/O redirection and piping Editors Processes in UNIX, scheduling of processes. Communication under UNIX platform. Shell Programming: Fundamentals or shell programming, shell scripts, shell variable and keywords, positional parameters, passing command line arguments, arithmetic in shell scripts, control instruction in shells, if-then else statement, nested ifs, the case control structure, loop control structure – while loop, until loop, for loop, nesting of loops, Shell mathematics tackling multiple command line option. System Administrations: Adding removing users, system management, disk management, mounting file system, ensuring security of the system.	
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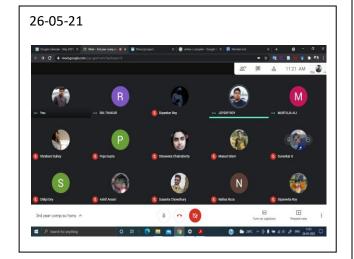
# Representative teacher's diary for a week: Arijit Bhattacharya

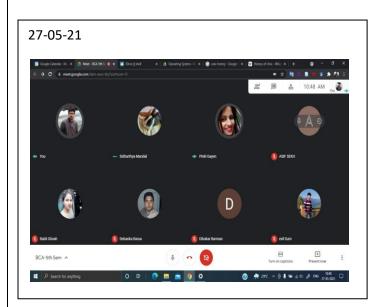
Date	Platform with link	Semester	Paper	Торіс
23/05/ 2021	B.Sc Computer Science & BCA Hons - 2nd sem Sunday, May 23 · 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/dre-mojx-jda	Sem- 2	DC4	<b>Digital Logic System:</b> Different adder circuits, BCD Adder, Adder/ Subtractor, ripple carry adder, Parallel Adder, Carry lookahead adder.
24/05/ 2021	3rd year & 4th Sem Computer Science Hons Monday, May 24 · 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/zqs-qywf-amv	Sem- 4 & 3 <sup>rd</sup> Year	X.A & DC10	<b>Programming 8085:</b> Instruction set- branch instructions, machine control instructions, timing diagram, addition of two hex numbers.
25/05/ 2021	B.Sc Computer Science & BCA Hons - 2nd sem Tuesday, May 25 · 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/dre-mojx-jda	Sem- 2	DC4	<b>Digital Logic System:</b> Combinational circuits, Multiplexer, basic representations, universal gate representation, Application areas, Function implementation using mux, mux expansion, Adder circuit implementation using two 4x1 Mux.
26/05/ 2021	3rd year comp sc hons Wednesday, May 26 · 9:45 – 11:45am Google Meet joining info Video call link: https://meet.google.com/zqs-qywf-amv	3 <sup>rd</sup> Year	VIII	<b>Object Oriented Programming (C++):</b> Operator overloading, basic implementations, why it is used, string comparison using operator overloading, Complex number addition subtraction multiplication using operator overloading, basic introduction to Inheritance.
27/05/ 2021	BCA-5th Sem Thursday, May 27 · 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/dam-axxs-tby	BCA 5 <sup>th</sup> Sem Non CBCS	55	<b>Unix Shell Programming :</b> Different shells, how it works, file permissions, different problems in shell- prime number checking, matrix addition, multiplication etc.
28/05/	BCA 4th sem Friday, May 28 · 8:30 – 10:30am Google Meet joining info Video call link: https://meet.google.com/huk-nkcc-qok	Sem- 4	DC8	<b>Discrete Mathematics:</b> counting - Pigeonhole Principle, Mathematical Induction, Principle of Inclusion and Exclusion.
2021	B.Sc. Computer Science (H)-4th Sem ToC Friday, May 28 · 11:00am – 1:00pm Google Meet joining info Video call link: https://meet.google.com/cbn-ixid-sav	Sem- 4	DC8	<b>Theory of Computation:</b> Automata , Different types of Automaton, Advantages & disadvantages, Application areas, Finite automata- DFA, NFA, Conversion.
29/05/ 2021	3rd year & 4th Sem Computer Science Hons Saturday, May 29 · 6:00 – 8:00pm Google Meet joining info Video call link:	Sem- 4 & 3 <sup>rd</sup> Year	IX.B & DC9b	Data Base Management System: Practical: Ordering, Aggregate functions- max, min, avg, count, sum; Group by, subquery;
	https://meet.google.com/zqs-qywf-amv			Q&A Session

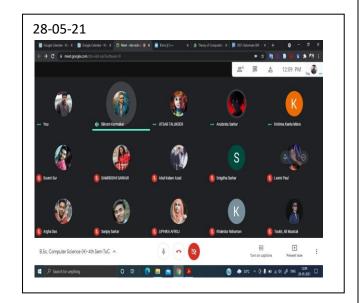


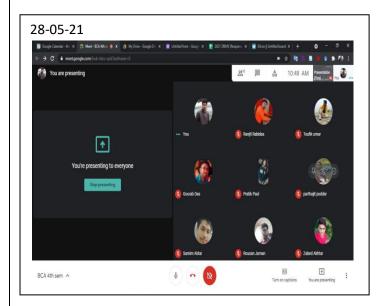


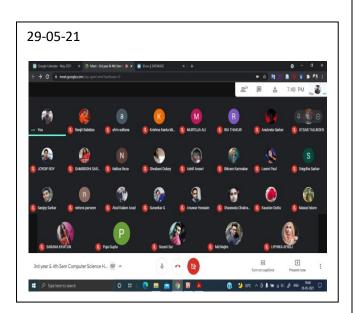












( *Arijit Bhattacharya* ) Assistant Professor Department of Computer Science Gour Mahavidyalaya Malda

Academic Quarter	Class	Name Of The Faculty	Topic To Be Covered	No. of Lectures
Q1				
July 20 - September 20	1 <sup>ST</sup> SEM (Hons.)	Akhil Kumar Das HONS. (THEORY) SYLLABUS TOPICS As per ALLOTED	<ul> <li>DC2: a) Introduction to Programming through C: Part - I</li> <li>Introduction: Basic Structure, Algorithms, Flowcharts, Structured programming constructs.</li> <li>C Programming elements: Character sets, Keywords, Constants, Variables, Data Types, Operators- Arithmetic, Relational, Logical and Assignment; Increment and Decrement and Conditional Operator, Precedence and Associations; Expressions, type casting. Comments, Functions, Storage Classes, Bit manipulation, Input and output.</li> <li>C Pre-processor: File inclusion, Macro substitution. Statements: Assignment, Control statements- if, if else, switch, break, continue, goto, Loops-while, do while, for.</li> </ul>	30
	3 <sup>RD</sup> SEM (Hons.)	Akhil Kumar Das	<ul> <li>Functions: Argument passing, return statement, return values and their types, recursion</li> <li>DC7: Object Oriented Programming with C++ :: Part - I Introduction to C++: Overview of Procedural Programming and Object-Orientation Programming, Using main() function, Compiling and Executing Simple Programs in C++. Concepts of Data Types, Variables, Constants, Operators and Basic I/O Expressions, Conditional Statements and Iterative Statements, Functions and Arrays</li> </ul>	30
	3 <sup>RD</sup> Year (Hons)	Akhil Kumar Das	<ul> <li>Pointers and References in C++, Memory Allocation in C++. Using Classes in C++: Principles of Object-Oriented Programming, Defining &amp; Using Classes, Class Constructors.</li> <li>Paper – VIII : Part -I Group – B : Software Engineering: Software Life Cycle, Different Models : Waterfall, Spiral, etc.; Software Requirement Analysis &amp; Specification, Structured Analysis, DFD, Data Dictionary.</li> </ul>	20
			Paper – VIII: Part I Group – D : Data Base Management System: Basic Concept, File Management Systems, Advantages of DBMS, ANSI/SPARC Architecture, Physical, Conceptual and External Models, ER Diagram, Data Models : Relational, Hierarchical, Network;	20
Q2 Oct20-Dec20	1 <sup>ST</sup> SEM (Hons.)	Akhil Kumar Das	<ul> <li>DC2: a) Introduction to Programming through C: Part - II</li> <li>Arrays: String handling with arrays, String handling functions.1D Arrays, 2D Arrays.</li> <li>Pointers: Definition and initialization, Pointer arithmetic, Pointers and arrays, String functions and manipulation, Dynamic storage allocation.</li> <li>User defined Data types: Structures. Structure arrays, Pointers to Functions and Structures, Unions</li> <li>File Access: Opening, Closing, I/O operations.</li> </ul>	30

	3 <sup>RD</sup> SEM	Akhil Kumar	Paper – VIII: Part -II	20
	(Hons.)	Das	<b>Group – B : Software Engineering:</b> Structured Design, Structure	20
			Charts, Software Testing : White Box and Black Box Testing, Software Quality Assurance.	
			DC7: Object Oriented Programming with C++ : Part - II	30
			Constructor Overloading, Function overloading in classes, Class Variables &Functions, Objects as parameters, Specifying the Protected and Private Access, Copy Constructors, Overview of Template classes and their use. Overview of Function Overloading and Operator Overloading: Need of Overloading functions and operators,	
			Overloading functions by number and type of arguments, Looking at an operator as a function call, Overloading	
			Operators (including assignment operators, unary operators)	
	3 <sup>RD</sup> Year (Hons.)	Akhil Kumar Das	Paper – VIII: Part -IIGroup – D : Data Base Management System:File Organization : Sequential, Indexed Sequential,Random, Inverted; Query Languages,Relational Algebra, Relational Calculus, Functional	20
			Dependencies	•
			Paper – VIII : Part -II Group – B : Software Engineering:	20
			Structured Design, Structure Charts, Software Testing: White Box and Black Box	
			Testing, Software Quality Assurance.	
<b>Q3</b> Jan21-	2 <sup>nd</sup> SEM	Akhil Kumar	DC3: a) Data Structure & Algorithm: Part -I	25
March21	(Hons.)	Das	Introduction to Data Structure: Abstract Data Type. Arrays: 1D, 2D and Multi-dimensional Arrays, Sparse Matrices. Polynomial representation (Polynomial Representation as Application). Linked Lists: Singly, Doubly and Circular Lists; Polynomial representation (Polynomial Representation as Application).	23
			<b>DC4: b) Digital Logic Lab:</b> <b>Implementation of different</b> Combinational Circuits:	20
	41			
	4 <sup>th</sup> SEM (Hons.)	Akhil Kumar Das	<ul> <li>DC9: a) Database Management System : Part -I</li> <li>Introduction: Drawbacks of file System; Advantages of DBMS; Layered Architecture of Database, Data</li> <li>Independence; Data Models; Schemas And Instances;</li> <li>Database Languages; Database Users, DBA; Data</li> <li>Dictionary; Functional Components of a DBMS.</li> <li>Entity Relationship(ER) Modelling: Entity, Attributes</li> <li>and Relationship, Structural Constraints, Keys, ER Diagram</li> <li>of Some Example Database, Weak Entity Set,</li> <li>Specialization and Generalization, Constraints of</li> <li>Specialization and Generalization, Aggregation.</li> <li>Relational Model: Basic Concepts of Relational Model;</li> <li>Relational Algebra.</li> </ul>	30

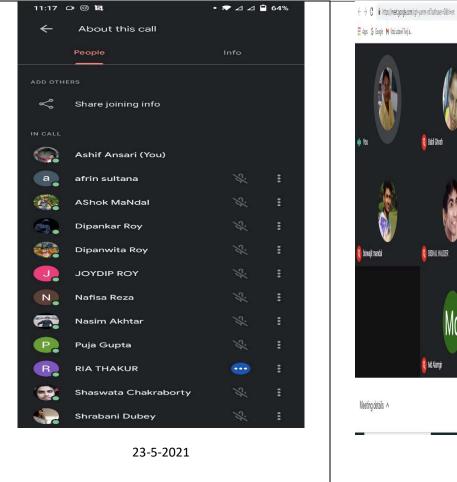
			Integrity, Assertions, Triggers.	
			DC9: b) Data Base Management System: Part - I	20
			Basic Concept, Data Models: Relational; Structured Query	
			Languages (SQL), Integrity. Case Studie :MySql RDBMS	
			Package.	
	5 <sup>th</sup> SEM		COURCE 54: SOFTWARE ENGINEERING: Part-I	15
	J SLIVI		Software Requirement and planning: Data flow diagram	15
			(DFD), Data dictionary, FRD cost estimation, Basic	
			concepts on S/W quality. Models: Waterfall spiral,	
			prototyping Fourth generation techniques, Soft ware	
			process, software requirement specifications (SRS). Fact	
			finding techniques, characteristics of a good SRS.	
			inding techniques, characteristics of a good SKS.	
	3 <sup>RD</sup> Year	Akhil Kumar	Paper – IX: Data Base Management System:Part - I	20
	(Hons.)	Das	Case Studie : Oracle RDBMS Package.	20
	(110113.)	Dus	Paper – IX: Data Base Management System:Part - III	20
			Normal Forms : 1NF, 2NF, 3NF and BCNF;	20
			Structured Query Languages (SQL), Elementary Concepts	
			of Security, Integrity.	
			Case Studies : Any Commercial RDBMS Package.	
Q4	1	1	I	
April21-	2 <sup>nd</sup> SEM	Akhil Kumar	DC3: a) Data Structure & Algorithm: Part – II	25
June21	(Hons.)	Das		20
	()		Stacks: Implementing single / multiple stacks in an Array;	
			Prefix, Infix and Postfix expressions, Utility and conversion	
			of these expressions from one to another; Applications of	
			stack; Limitations of Array representation of stack.	
			Queues: Array and Linked representation of Queue,	
			Circular Queue, De-queue, Priority Queues.	
			<b>Recursion:</b> Developing Recursive Definition of Simple	
			Problems and their implementation; Advantages and	
			Limitations of Recursion; Understanding what goes behind	
			Recursion (Internal Stack Implementation).	
			Recursion (internal Stack implementation).	
			DC4: b) Digital Logic Lab:	20
			Implementation of different sequential Circuits:	20
	4 <sup>th</sup> SEM	Akhil Kumar	DC9: a) Database Management System :Part – II	30
	(Hons.)	Das		20
	()		Relational Database Design: Problems of Un-Normalized	
			Database; Functional Dependencies (FD), Derivation Rules,	
			Closure Of FD Set, Membership Of A Dependency,	
			Canonical Cover; Decomposition to 1NF, 2NF, 3NF and	
			BCNF Using FD; Lossless Join Decomposition Algorithm;	
			Dependency preservation.	
			SQL: Basic Structure, Data Definition, Constraints and	
			Schema Changes; Basic SQL Queries (Selection, Insertion,	
			Deletion, Update); Order by Clause; Complex Queries,	
			Aggregate Function and Group by Clause; Nested Sub	
			Queries; Correlated Sub Queries; Views (Insert-Able and	
			Updatable), Joined Relations; Set Comparisons (All, Some).	
			Record Storage and File Organization (Concepts only):	
			Fixed Length and Variable Length Records; Spanned and	
			Un-Spanned Organization of Records; Primary File	
			Organizations and Access Structures Concepts; Unordered, Sequential, Hashed; Concepts of Primary and Secondary	
			- Sequential Hasped Concepts of Primary and Secondary	
			Index; Dense and Sparse Index; Index Sequential Files; Multilevel Indices.	

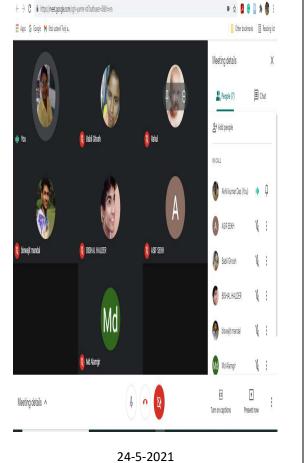
		Transaction Processing (Concepts only): ACID	
		Properties; Transaction States, Concurrent Execution;	
		Serializability (Conflict and View), Recoverability, Test for	
		Serializability.	
		DC9: b)Data Base Management System: Part - II	
		Basic Concept, Data Models: Relational; Structured Query	
		Languages (SQL), Integrity. Case Studie :MySql RDBMS	
		Package.	
5 <sup>th</sup> SEM		COURCE 54: SOFTWARE ENGINEERING: Part-II	15
		Verifiable, consistent, modifiable, traceable and usable	
		during the operation and maintenance phase, prototype	
		online of SRS. Coding, Software Quality Assurance,	
		Testing: Software testing, different testing techniques,	
		component testing system testing, test automation. Software	
		project management (SPM), Software Matrix (SM),	
		Software Maintenance	
3 <sup>RD</sup> Year	Akhil Kumar	Paper – IX: Data Base Management System:: Part - II	20
(Hons)	Das	Case Studie : Oracle RDBMS Package.	
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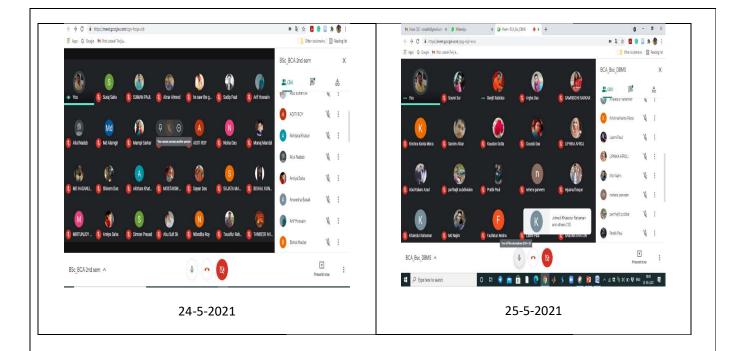
#### Representative teacher's diary for a week: Akhil Kumar Das

Date	Platform with link	Semeste r	Paper	Торіс
23/05/2 021	3rd year,B.Sc,DBMS Sunday, May 23 · 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/adx-xkmf-hpv	3 <sup>rd</sup> Year	IX: DBMS- Lab	Data Base Management System:Practical:Implementthekeyanddifferent constraits.Q&A Session
24/05/2 021	B.Sc(H)_BCA(H) 2nd Sem Data Structures class Monday, May 24 · 3:00 – 5:00pm Google Meet joining info Video call link: https://meet.google.com/etb-nxqw-ddt	Sem- 2	DC3: a) DSA	<b>Stacks</b> : Conversion of these expressions from one to another; Applications of stack; Limitations of Array representation of stack.
	5th sem,BCA Monday, May 24 · 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/wrd-czuv-mre	5 <sup>th</sup> sem( Non cbsc)	Course -55	<b>Models:</b> Waterfall spiral, prototyping Software process, software requirement specifications (SRS)
25/05/2 021	BSc_BCA_4th sem Tuesday, May 25 · 5:00 – 7:00pm Google Meet joining info Video call link: https://meet.google.com/ppg-mjrt-ecw	Sem- 4	DC9:a)	Relational Database Design: Canonical Cover; Decomposition to 1NF, 2NF, 3NF and BCNF Using FD; Lossless Join Decomposition Algorithm; Dependency preservation.
26/05/2 021	BSc_BCA DBMS Wednesday, May 26 · 5:00 – 7:00pm Google Meet joining info Video call link: https://meet.google.com/nyz-pgpy-nhb	Sem-4	DC9:b)	<b>SQL:</b> Order by Clause, Aggregate Function and Group by Clause; Nested Sub Queries; Correlated Sub Queries; Views (Insert-Able and Updatable).

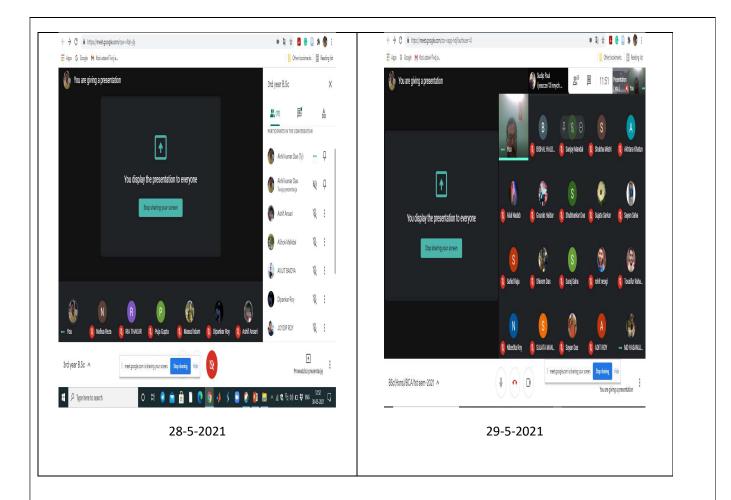
27/05/2 021	BCA_B.Sc 2nd sem,DL Thursday, May 27 · 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/xfk-tibn-edq	Sem-2	DC4: b) Digital Logic Lab	<b>Digital Logic System:</b> Different adder circuits, BCD Adder, Adder/ Subtractor, ripple carry adder, Parallel Adder, Carry lookaheadadder.
28/05/2 021	3rd BSc,DBMS Friday, May 28 · 10:00am – 12:00pm Google Meet joining info Video call link: https://meet.google.com/uqv-duio-dwm	3 <sup>rd</sup> year	IX: DBMS- Lab	Data BaseManagementSystem:Practical:Ordering,Aggregatefunctions- max, min, avg, count, sum;Group by, subquery;.
29/05/2 021	B.Sc_BCA,2nd sem,DSA Saturday, May 29 · 10:00 – 10:15am Google Meet joining info Video call link: https://meet.google.com/udf-brvq-cws	Sem- 2	DC3: a) DSA	Stacks: Applications of stack; Limitations of Array representation of stack.







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( *Akhil Kumar Das*) Assistant Professor Department of Computer Science GourMahavidyalaya

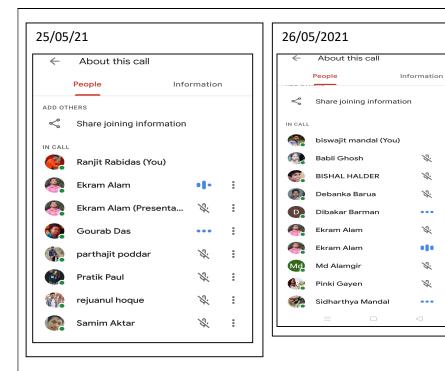
Academic Quarter	Class	Name Of The Faculty	Topic To Be Covered	No. of Lectures
Q1				
July 20 - September 20	1 <sup>ST</sup> SEM (Hons.)	Ekram Alam	<b>DC1: Discrete Mathematics: Part - I</b> <b>Graph Theory :</b> Basic Terminology, Models and Types, multi- graphs and weighted graphs, Graph Representation, Graph Isomorphism, Connectivity, Euler and Hamiltonian Paths and Circuits,	15
	l <sup>ST</sup> SEM (Hons.)	Ekram Alam HONS. (THEORY+ PRACTICAL) SYLLABUS TOPICS As per ALLOTED	<ul> <li>DC2:b) C Programming Lab : Part - I</li> <li>Introduction: Basic Structure, Algorithms, Flowcharts, Structured programming constructs.</li> <li>C Programming elements: Character sets, Keywords, Constants, Variables, Data Types, Operators- Arithmetic, Relational, Logical and Assignment; Increment and Decrement and Conditional Operator, Precedence and Associations; Expressions, type casting. Comments, Functions, Storage Classes, Bit manipulation, Input and output.</li> <li>C Pre-processor: File inclusion, Macro substitution.</li> <li>Statements: Assignment, Control statements- if, if else, switch, break, continue, goto, Loops-while, do_while, for.</li> <li>Functions: Argument passing, return statement, return values and their types, recursion</li> </ul>	20
	3 <sup>RD</sup> SEM (Hons.)	Ekram Alam	<ul> <li>DC6: (a &amp; b) Operating System : Part I Introduction Basic OS functions, types of operating systems: batch systems–multiprogramming systems, time sharing systems; Operating System Organization: Processor and user modes, kernels, system calls and system programs.</li> <li>Process System view of the process and resources, process hierarchy, threads, threading issues.</li> <li>Process Scheduling: Scheduling criteria, Pre-emptive and non- preemptive scheduling, Long term, short term and medium term, FCFS, SJF, SRTF, Priority scheduling, Round Robin, Multilevel Queue Scheduling, Multilevel Queue Feedback Scheduling.</li> <li>Process Synchronization: Concurrent Processes, critical section, semaphores and application, methods for inter-process communication;</li> </ul>	50
	3 <sup>RD</sup> Year (Hons.)	Ekram Alam	Paper - VII Group - A : Microprocessor: Part - IEvolution of Microprocessor: Architecture of 8 bitmicroprocessor, Machine Language Instructions, AddressingModes, Instruction Formats, Instruction Sets, Instruction Cycle,Clock Cycles	20
	4 <sup>th</sup> Sem (BCA Non CBCS)	Ekram Alam	Course 44: Data Communication And Computer Networking: Part I Introduction: Goal and application of n/W, Computer N/W and distributed system. Review of transmission media characteristics, Data encoding and modulation techniques, Modem. The OSI model. Data link controls: Polling, Multiplexing, Flow control, Error control, Error detection and correction hamming and polynomial codes, HDLC. Switched N/W: Ckt, Msg and packet switching and congestion control.	15

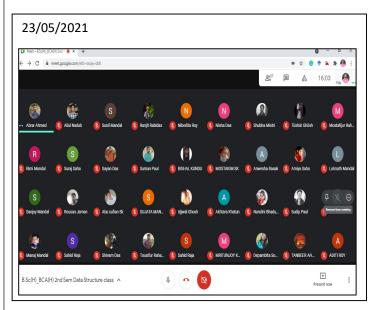
Q2				
Oct20-Dec20	1 <sup>ST</sup> SEM (Hons.)	Ekram Alam	<b>DC1: Discrete Mathematics: Part - II</b> Trees, Basic Terminology and properties of Trees, Binary tree, Introduction to Spanning Tree.	15
	1 <sup>ST</sup> SEM (Hons.)	Ekram Alam	DC2:b) C Programming Lab : Part - IIArrays: String handling with arrays, String handling functions. 1D Arrays, 2D Arrays.Pointers: Definition and initialization, Pointer arithmetic, Pointers and arrays, String functions and manipulation, Dynamic storage allocation.User defined Data types: Structures. Structure arrays, Pointers to Functions and Structures, Unions File Access: Opening, Closing, I/O operations.	20
	3 <sup>RD</sup> SEM (Hons.)	Ekram Alam	DC6: (a & b) Operating System : Part IIDeadlock: Definition, Prevention, Avoidance, Detection, Recovery, Banker's algorithm.Memory Management: Physical and virtual address space; memory allocation strategies –fixed and variable partitions, paging, segmentation, virtual memoryFile and I/O Management: Directory structure, file operations, 	50
	3 <sup>RD</sup> Year (Hons)	Ekram Alam	Paper – VII Group – A : Microprocessor: Part - II           Timing Diagrams, Interrupts, DMA, Bus Standards and types,           Interfacing concepts- Memory Interfacing, I/O Interfacing and           Ports – Keyboard Interfacing, Display Interfacing, Storage           Device Interfacing	20
	4 <sup>th</sup> Sem (BCA Non CBCS)	Ekram Alam	<ul> <li>Course 44: Data Communication and Computer Networking: Part II</li> <li>Routing: Adaptive and non-adaptive routing, board cast routing. Congestion control techniques.</li> <li>Broadcast N/W: Medium access control strategies, Packet radio and satellite N/W.</li> <li>LAN: LAN topologies, Ethernet, Token Bus, Token Ring and FDDI Networks x .25. Queuing theory and delay analysis.</li> <li>Internetworking: Bridge, gateways and Routine x.75, TCP/IP,IP. addressing schemes, Routing on the Internet, ITP,SMTP ,Telnet and Rlogin Network security and authentication.</li> </ul>	15
Q3			· · · · ·	
Jan21- March21	2 <sup>nd</sup> SEM (Hons.)	Ekram Alam	DC3: (a & b) Data Structure & Algorithm: Part ITrees: Introduction to Tree as a data structure; Binary Trees(Insertion, Deletion, Recursive and Iterative Traversals on BinarySearch Trees; Height-BalancedTrees (Various operations on AVL Trees).Searching and Sorting: Linear Search, Binary Search,Comparison of Linear and Binary Search, Sort: Bubble sort,Selection Sort,	25

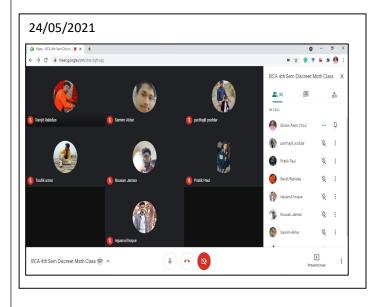
	4 <sup>th</sup> SEM	Ekram Alam	DC10: a) Introduction to Microprocessor : Part I	
	(Hons.)		<ul> <li>Introduction to Microprocessor 1 mit f</li> <li>Introduction to Microcomputer based system: Concepts of Microprocessor and Microcontrollers and their advantages and disadvantages.</li> <li>Microprocessor Architecture and Memory Interfacing: Basic Architecture of Microprocessor 8085 and explanation of each block, Microprocessor 8085</li> <li>pin out and signals, Addressing modes, Instruction Formats, Instruction Cycle, Clock Cycle, Multiplexed Address Data Bus, Control and Status signals,</li> <li>Microprocessor and Bus Timing, De-multiplexing of Address Data Bus, Generation of Control Signals for I/O and Memory, Basic concepts in Memory Interfacing, Address Decoding and memory Addresses.</li> </ul>	30
	3 <sup>RD</sup> Year (Hons.)	Ekram Alam	Programming a Microprocessor, Interrupt Handling, Methods of Interrupts, Preliminary concepts of 8086 microprocessor	20
	5 <sup>th</sup> Sem (BCA Non CBCS)	Ekram Alam	Course 52 & 56: Web Technology With Java: Part I HTML: requirement of using HTML, HTML editor, create, edit, modify, and run HTML documents. Creating Web page, page skeleton. Adding Visual structure, formatting text, paragraph, pages adding context variables, input, output, Basic styles, creating lists. Adding links, adding images to a web page, using image map for tables for tables for page layout, creating frames, creating HTML forms. Using a scripting language adding layers, dynamically changing the styles. Using CGI, parl.	30
Q4	1	1		
April21- June21	2 <sup>nd</sup> SEM (Hons.)	Ekram Alam	<ul> <li>DC3: (a &amp; b) Data Structure &amp; Algorithm: Part I</li> <li>Sorting: Insertion Sort, Merge Sort, Quick sort, Heap Sort, Comparison of Sorting Techniques.</li> <li>Hashing: Introduction to Hashing, Choosing a Hash Function, collision resolution techniques.</li> </ul>	25
	4 <sup>th</sup> SEM (Hons.)	Ekram Alam	DC10: a) Introduction to Microprocessor : Part IIProgramming 8085: Instruction Set of 8085, DifferentProgramming Techniques, Stack and Subroutines, Counter andTime Delays, Code Conversion, BCD Arithmetic and 16 bit DataOperation.	30
	4 <sup>th</sup> SEM BCA (Hons.)	Ekram Alam	DC8: Discrete Mathematics: Graph Theory :Basic Terminology, Models and Types, multi- graphs and weighted graphs, Graph Representation, Graph Isomorphism, Connectivity, Euler and Hamiltonian Paths and Circuits, Trees, Basic Terminology and properties of Trees, Binary tree, Introduction to Spanning Tree. Problems related to Minimum Spanning Tree (MST), all pair shortest path, graph traversals etc Matrix representation: Adjacency matrix, Incident matrix.	30
	5 <sup>th</sup> Sem (BCA Non CBCS)	Ekram Alam	Course 52 & 56: Web Technology With Java: Part II Fundamentals of Java : Data types, variables, arrays, operators, Inheritance, string Handling, Packages and interfaces Exception handling, Multithreaded Programming I/O, Applets, tagging applet in web pages Java Library Classes, The networking Classes and Interfaces.	30

Date	Platform with link	Semester	Paper	Торіс
23/05/20 21	B.Sc(H)_BCA(H) 2nd Sem Data Structures class Sunday, 23 May · 15:00 – 17:00 Google Meet joining info Video call link: https://meet.google.com/etb- nxqw-ddt	Sem- 2	DC3 (a & b)	<b>Data Structure &amp; Algorithm : Trees</b> - Introduction to Tree as a data structure; Binary Trees (Insertion, Deletion, Recursive and Iterative Traversals
24/05/20	B.Sc(H)_BCA(H) 2nd Sem Data Structures class Monday, 24 May · 15:00 – 17:00 Google Meet joining info Video call link: https://meet.google.com/etb- nxqw-ddt	Sem- 2	DC3 (a & b)	<b>Data Structure &amp; Algorithm: Trees -</b> Binary Search Trees- Introduction, Searching, Deletion, Construction.
21	BCA 4th Sem Discreet Math Class Tuesday, 25 May · 15:00 – 17:00 Google Meet joining info Video call link: https://meet.google.com/drq-zqft-upj	Sem- 4 (BCA)	DC8	<b>Discrete Mathematics</b> : Trees, Basic Terminology and properties of Trees, Binary tree, Introduction to Spanning Tree. Problems related to Minimum Spanning Tree (MST), all pair shortest path, graph traversals etc
25/05/20 21	BCA 4th Sem Discreet Math Class Tuesday, 25 May · 15:00 – 17:00 Google Meet joining info Video call link: https://meet.google.com/drq-zqft-upj	Sem- 4 (BCA)	DC8	<b>Discrete Mathematics</b> : Problems related to Minimum Spanning Tree (MST), all pair shortest path, graph traversals etc., Kruskal's and Prism's Algorithm
26/05/20 21	BCA 5th Sem Web Technology class Wednesday, 26 May · 15:00 – 17:00 Google Meet joining info Video call link: https://meet.google.com/jtt- rxdp-iyc	BCA 5 <sup>th</sup> Sem	52 & 56	<b>Web Technology With Java:</b> Applets, tagging applet in web pages
27/05/20 21	B.Sc(H) 3rd Year and 4th Sem, Microprocessor Class Thursday, May 27 · 3:00 – 5:00pm Google Meet joining info Video call link: https://meet.google.com/grb-kquv-wto	Sem- 4 & 3 <sup>rd</sup> Year	DC10 & VII-A	<b>Microprocessor :</b> Conditional loop with flowchart, 16 bit data transfer instructions, LXI, INX, DCX instructions, memory related data transfer functions, direct and indirect addressing modes,
28/05/20 21	B.Sc(H) 3rd Year and 4th Sem, Microprocessor Class Friday, 28 May · 15:00 – 17:00 Google Meet joining info Video call link: https://meet.google.com/grb-kquv-wto	Sem- 4 & 3 <sup>rd</sup> Year	DC10 & VII-A	<b>Microprocessor :</b> Programs related memory data transfer and 16 bit data, Addition and subtraction with memory, RLC, RAL, RRC, RAR instructions, CMP and CPI instructions;
29/05/20 21	BCA 5th Sem Saturday, 29 May · 15:00 – 17:00 Google Meet joining info Video call link: https://meet.google.com/jtt- rxdp-iyc	BCA 5 <sup>th</sup> Sem	52 & 56	<b>Web Technology With Java:</b> Applets Programming doubt clearing class with some more examples, Java Interface

#### Representative teacher's diary for a week: Ekram Alam







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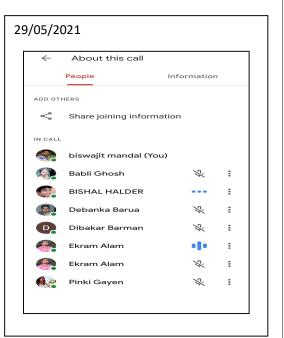
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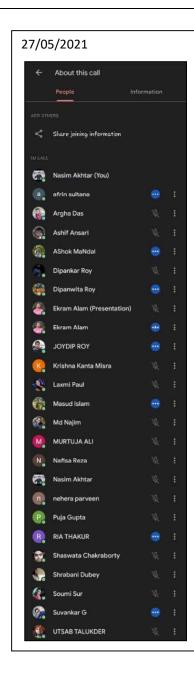
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( *Ekram Alam* ) Assistant Professor Department of Computer Science Gour Mahavidyalaya

CLASS	NAME OF THE TEACHER	TOPIC TO BE COVERED	NO OF LECTURES
	Q1		
1 <sup>st</sup> EMESTER (GENS.)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	<b>DC1: Computer Fundamentals:</b> Introduction to Computer and Problem Solving: Information and Data Hardware: CPU, Primary and Secondary storage, Cache Memory, I/O devices, Bus structure, BIOS Software: System and Application. Introduction to Programming Languages: Machine Language, Assembly Language, High Level Language. Problem Solving: Flow Charts and Pseudo codes.	20
3 <sup>rd</sup> EMESTER (GENS.)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	SEC-1: Digital System Design: Number Systems and Codes: Number representation: Weighted Codes, Non- weighted codes, Positional, Binary, Octal, Hexadecimal, Binary Coded Decimal (BCD), Conversion of bases. Complement notions. Binary Arithmetic, Binary Codes: Gray, Alphanumeric, ASCII, EBCDIC; Single Error-Detecting and Correcting Codes, Hamming Codes, Fixed point, Floating point representation. Boolean Algebra: Fundamentals of Boolean Algebra, Switches and Inverters, Functionally Complete Gates (AND, OR, NOT), NAND. NOR, Switching function and Boolean Function. De Morgan's Theorem, Min-term, Max term, Truth tables and minimization of switching function up to four variables, Algebraic and K-map method.	20
3 <sup>rd</sup> Year (Hons.)	Dr Subhendu Chatterjee HONOURS (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	Paper-VII,Group:CDataCommunication & Networking:DataCommunications;Differenttopologies of networking;TransmissionMedia;Network:Protocol and standards;Analog & Digital Signals,Nonperiodic signals,Time and FrequencyDomain;Bandwidth,Data rate, signal rate.	20
3 <sup>rd</sup> Year (Gens.)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	Paper-V Group B: Networks and Internet: Concepts of centralized and distributed computing; advantages of networking; layered Architecture; OSI and TCP/IP model:	10
3 <sup>rd</sup> EMESTER (BCA)	Dr Subhendu Chatterjee BCA (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	COURCE 31: SYSTEM PROGRAMMING: Assembler: Algorithm of 1-pass and 2- pass assembler, data structure and implementation details, relocatable assemble etc. Macro Processor: Definition, Expansion, nested macro definition and call data 8 structure and implementation details, conditional macro. Linker: Definitions, public and external tables, linker algorithms, relocating and linking library	20
EME	STER	STER BCA (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	A) Dr Subhendu Chatterjee BCA (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED BCA (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE (THEORY+ PRACTICAL)

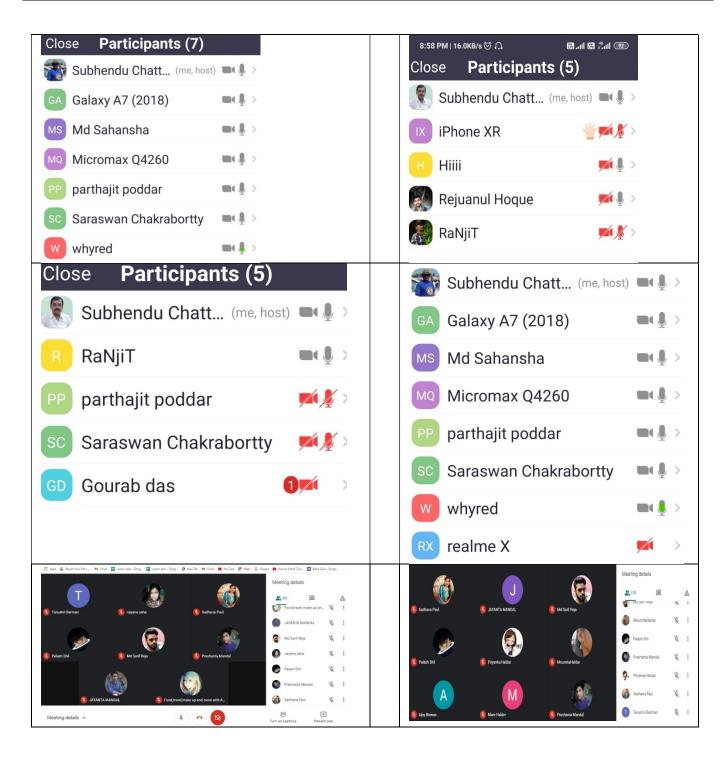
			DC1. Communication Englished and the	
Oct20 - Dec20	1 <sup>ST</sup> SEMESTER (GENS.)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	DC1: Computer Fundamentals: System Software: Classifications- Operating Systems (OS); Translators – Compilers and Interpreters (concepts only), Pre-processors, Assemblers, Loaders, Linkers other utilities. Virus: Concept, Detection and Protection Multimedia: Basic Concept, associated hardware and software Object Oriented Paradigm: Basic characteristics, Definition, Brief comparison with other types of programming paradigms.	20
Oct20 - Dec20	3 <sup>rd</sup> SEMESTER (GENS.)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	SEC-1: Digital System Design: Digital Electronics: Combinational Circuits: Realization of Boolean expression using AND, OR and NOT Gate, Half and Full Adder/ Subtractor, Data selectors/ multiplexers –function realization, Decoders: function realization, De-multiplexer, Encoder, Priority Encoder, Parity bit Generator/checker, Code Converters. Sequential Circuits: Model of Sequential computing, Difference between Combinational and Sequential circuit, RS-Latch: using NAND and NOR Gates, Flip Flops - SR, JK, D, T, Level Trigger and Edge Trigger, Excitation Functions of each flip-flops, Application of Flip-flops: Asynchronous Counter (UP/DOWN) up to 3 bit, Registers: Registers with parallel load, Shift Registers.	20
Oct20-Dec20	3 <sup>rd</sup> Year (Hons.)	Dr Subhendu Chatterjee HONOURS (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	Paper-VII,Group:CDataCommunication & Networking:Serial and parallel transmission, Simplex,half duplex and duplex transmission,Multiplexing :FDM, TDM andApplication, Different kinds of modulationand encoding; Error :Different types ofErrors and their detection, Concepts ofCentralized and Distributed Computing;	20
Oct20-Dec20	3 <sup>rd</sup> Year (Gens.)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	Paper-VGroupB:NetworksandInternet:Basic features;LAN and WAN;simple PCbasednetworkedExamples:Blockdiagram,modeofoperationandcharacteristic features.	10
Oct20-Dec20	3 <sup>rd</sup> SEMESTER (BCA)	Dr Subhendu Chatterjee BCA (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	<b>COURCE 31: SYSTEM PROGRAMMING:</b> Loaders: Bootstrap loader. Absolute and relocating and linking library. Loaders: Bootstrap loader, Absolute and relocating loader, Implementation of absolute and relocatable loader etc. Introduction to compilers: Introductions, different phases and their working principles Editors, debuggers, memory resident programs. Viruses, practical example of linking and relocation of common operating systems.	20
		03		
	3 <sup>rd</sup> Year		Paper-V Group B: Networks and	

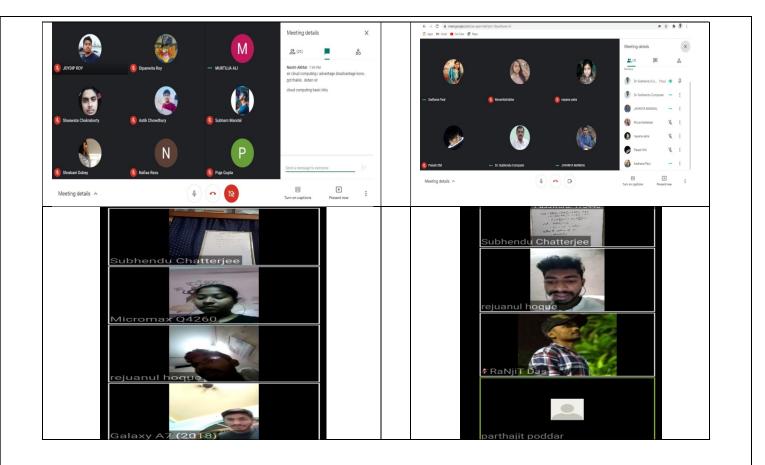
		BCA (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	Internet: What is Internet, Basics of Web site, WWW, Browser, HTML- Tags and Features; Internet Addressing: Physical, Logical, Port; servers, clients, Port, Domain Name Server (DNS); Accounts; ISP.	
	3 <sup>rd</sup> Year (Hons.)	Dr Subhendu Chatterjee BCA (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	Paper-VII,Group:CDataCommunication & Networking:AdvantagesAdvantagesofNetworking;LayeredArchitecture:OSIArchitecture,BasicFeatures,LAN,MANandWAN;SimplePCbasedNetwork:Example,BlockDiagram,ModeofOperationandCharacteristic Features.	10
	4 <sup>th</sup> SEMESTER (Gens)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	<b>DC4: a) Database Management System:</b> Introduction: DBMS, Advantages of DBMS; Applications of DBMS; Layered Architecture of Database, Data Independence; Data Models; Schemas and Instances; Database Languages;	20
		Q4		
	3 <sup>rd</sup> Year (Gens.)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	Paper-VGroupB:NetworksandInternet:Connection: Dial Up, ISDN, ASDN, Cablemodem;E-mail:Account, sending,receiving,MailingList, IRC;Voice &video conferencing.	10
April 21-June21	3 <sup>rd</sup> Year (Hons.)	Dr Subhendu Chatterjee HONS (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	Paper-VII,Group:CDataCommunication & Networking:Intranet and Internet, Servers and Clients,Ports,DomainNameServer (DNS),Accounts,Internet Service Providers;DialUpConnection,ISDN,BISDN;Cable,Modem;E-Mail:Account,Sending,Receiving,MailingList,IRC,Voice andVideoConferencing,WWW,Browsers.	10
	4 <sup>th</sup> SEMESTER (Gens)	Dr Subhendu Chatterjee GENERAL (THEORY+ PRACTICAL) SYLLABUS TOPICS ARE TO BE ALLOTED	DC4: a) Database Management System:Relational Model: Concepts of RelationalModel; Relational Algebra; IntegrityConstraints: Domain Constraints,Referential Integrity.	20

### Representative teacher's diary for a week: Dr. Subhendu Chatterjee

Date	Platform with link	Semester / Year	Paper	Торіс
23/05/21	B.Sc. Computer Science General – 3 <sup>rd</sup> Year Wednesday, May 23 · 19:00 – 21:00pm On Google Meet joining info Video call link: https://meet.google.com/zsa- ayan-heb	3 <sup>rd</sup> Year	V	Connection: Dial Up, ISDN, ASDN, Cable modem;
26/05/21	B.Sc. Computer Science General – 3 <sup>rd</sup> Year Friday, May 23 · 19:00 – 21:00pm On Google Meet joining info Video call link: https://meet.google.com/pud-cjsi- jvp	3 <sup>rd</sup> Year	V	E-mail: Account, sending, receiving,
27/05/21	B.Sc. Computer Science General – 4 <sup>th</sup> SEMESTER; Sunday, May 27 · 19:00 – 21:00pm On Google Meet joining info Video call link: https://meet.google.com/czz- zday-nfi	4 <sup>th</sup> Sem	DC4	Relational Model: Concepts of Relational Model; Relational Algebra;
28/05/21	B.Sc. Computer Science Honours – 3 <sup>rd</sup> Year Monday, May 28 · 19:00 – 21:00pm	3 <sup>rd</sup> Year	VII	Intranet and Internet, Servers

	On Google Meet joining info Video call link: https://meet.google.com/dgo- imyy-arz			and Clients, Ports, Domain Name Server (DNS),
29/05/21	B.Sc. Computer Science General – 3 <sup>rd</sup> Year Wednesday, May 23 · 19:00 – 21:00pm On Google Meet joining info Video call link: https://meet.google.com/jkj-fxqu- dpn	3 <sup>rd</sup> Year	V	Mailing List, IRC; Voice & video conferencing.





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Dr. Subhendu Chatterjee SACT Department of Computer Science Gour Mahavidyalaya

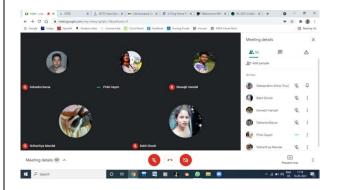
Academic Quarter	Class	Name Of The Faculty	Topic To Be Covered	No. of Lectures
Q1	set -			
July 20 - September 20	1 <sup>st</sup> Sem. (Gen.)	Debapratim Sinha Syllabus topic as per allotted	DC1 : Computer Fundamentals – Part 2a System Software: Classifications - Operating Systems (OS) ; Translators – Compilers and Interpreters (concepts only) , Pre-processors , Assemblers Loaders , Linkers other utilities . Virus: Concept , Detection and Protection .	10
July 20 - September 20	3 <sup>rd</sup> Year (Hon.)	Debapratim Sinha Syllabus topic as per allotted	Group B : Computer Organization – II : – Part 1 Fixed and Floating Point Arithmetic : Addition , Subtraction , Multiplication and Division . ALU – Combinational ALU , 2's Complement Addition , Subtraction Unit Memory Hierarchy : CPU Register , Cache Memory , Primary Memory , Secondary Memory and Virtual Memory .	15
July 20 - September 20	3 <sup>rd</sup> Sem (BCA)	Debapratim Sinha Syllabus topic as per allotted	Course–32 : Computer Oriented Numerical & Statistical methods – Part 1 Roots of equation: Iterative methods, bisection method, False position methods Newton-Raphson method, Solution of polynomial equations, solution of simultaneous equations, Gaussian eliminations, comparison of direct and iterative methods. Interpolation: Finite difference, polynomial interpolation. Differentiation and integration: Differentiation by polynomial fit. Trapezoidal and Simpson rules. Gaussian quadrature.	25
July 20 - September 20	5 <sup>th</sup> Sem (BCA)	Debapratim Sinha Syllabus topic as per allotted	<b>Course–51 : Optimization Techniques (OT)</b> – Part 1 Linear Programming: Graphical method for two dimensional problems – Central problem of linear programming various definitions – statements of basic theorem and properties simplex methods, primal and dual, dual simplex method, sensitivity analysis, transportation problem and its solution, assignment problem and it solution by Hungarian methods.	15
Q2	1			
Oct20-Dec20	1 <sup>st</sup> Sem. (Gen.)	Debapratim Sinha Syllabus topic as per allotted	<ul> <li>DC1 : Computer Fundamentals – Part 2b</li> <li>Multimedia: Basic Concept, associated hardware and software</li> <li>Object Oriented Paradigm: Basic characteristics, Definition, Brief comparison with other types of programming paradigms.</li> </ul>	10
	3 <sup>rd</sup> Year (Hon.)	Debapratim Sinha Syllabus topic as per allotted	Group B : Computer Organization – II : – Part 1 Fixed and Floating Point Arithmetic : Addition, Subtraction, Multiplication and Division. ALU – Combinational ALU, 2's Complement Addition, Subtraction Unit Memory Hierarchy: CPU Register, Cache Memory, Primary Memory, Secondary Memory and Virtual Memory. Control Unit : Control Structure and Behavior, Hardwired Control and Micro programmed Control : Basic Concept, Parallelism in Microinstruction. I/O : Polling, Interrupts, DMA, I/O Bus and Protocol.	10
	3 <sup>rd</sup> Sem (BCA)	Debapratim Sinha	Course-32 : Computer Oriented Numerical & Statistical methods – Part 2 Numerical solution of differential Equations: Solution bu	25

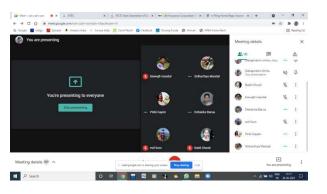
Q3 Jan21- March21	5 <sup>th</sup> Sem (BCA)	Syllabus topic as per allotted Debapratim Sinha Syllabus topic as per allotted Debapratim Sinha	Tailor series. Euler's method. Predictor correction method, Runge-Kutta method. Statistical Methods: Sampling, frequency distribution, measure of central tendency and dispersion Moments, discrete Distributions, Binomial and poisson distributions, Correlation co-efficient, Overview of Simplex technique, test of significance – Chi square test, t- test and F-test.Course–51 : Optimization Techniques (OT) – Part 2 Integer programming: Gomory cutting plane methods – Branch and Bound method. Inventory Theory: Costs involved in inventory problems – single item deterministic models – economic lot size models without shortages and with shortages having production rate infinite and finite.DC4 (a): Database Management System : Part - 1 Introduction: DBMS, Advantages of DBMS; Applications	20
1010121	(General) Theory	Sinna	of DBMS; Layered Architecture of Database, Data Independence; Data Models; Schemas and Instances; Database Languages;	
	4 <sup>th</sup> Sem (BCA) Theory 4 <sup>th</sup> Sem (General) Practical 4 <sup>th</sup> Sesm	Debapratim Sinha Debapratim Sinha Debapratim	Course-42 : Visual Programming with VB – Part 1Introduction to Visual programming: Integrateddevelopment of Visual programming: Integrateddevelopment environment – the menu bar, the tool bar,the tool box, the properties window, form designer, formlayout, creating saving, editing, running the project,Elements of user interface, programming basics in visualbasics, visual development and event driven programmingCustomize the environment. Visual Basic: The languagevariable, constants, arrays, collections, procedures,function Return values, Control flow statements for loop,do loop, while loop, nested control structures. Workingwith forms appearance of forms, the start up forms,loading, showing and hiding forms, controlling one formwithin another. Design menus, programming menucommands, manipulating menus at runtime, buildingdynamic forms at runtime, drag and drop operation.DC4 (b): DBMS With MySQL : Part - 1SQL: Basic Structure, Data Definition, Constraints andSchema Changes; Basic SQL Queries (Selection, Insertion,Deletion, Update);Course – 46 : Laboratory VI (Visual Basic with Oracle)	20 15
04	(BCA) Practical	Sinha	<ol> <li>Building different application programs using visual basics.</li> <li>Building a calculator.</li> <li>Program to create database and entering data to ORACLE from visual basics.</li> <li>Programs to access data from ORACLE using visual basics.</li> <li>Creating student enrollment programs.</li> </ol>	15
Q4 April21- June21	4 <sup>th</sup> Sem (General) Theory	Debapratim Sinha	DC4: Database Management System : Part - IIntegrity Constraints: Domain Constraints, ReferentialIntegrity.Relational Database Design: Problems of Un-NormalizedDatabase; Functional Dependencies, Derivation Rules,Closure of FD Set, Decomposition to 1NF, 2NF, 3NF andBCNF Using FDs.	10
	4 <sup>th</sup> Sem. (BCA) Theory	Debapratim Sinha	Course–42 : Visual Programming with VB – Part 1 Basic Actives Control: The text box control, list box and combo box control, searching a drop operation. Basic	20

		Active X Control: The text box control, list box and combo box control, searching a sorted list. The scroll bar and slider control. Drawing with visual basics: Graphics control, coordinates system, graphics methods drawing texts, drawing lines and shapes, filling shapes, using circle methods Manipulation colors and pixels with visual basic. Database Programming with Visual Basics: The data control, the data control properties, data control methods, understanding relational concepts the primary key, foreign key, using visual basics data managers, validating data, entering data accessing fields in records sets. An introduction to SQL, using SQL, statements, attaching	
4 <sup>th</sup> Sem	Debapratim	queries to a database. DC4 (b): DBMS With MySQL : Part - 2	10
(General)	Sinha	Order by Clause; Complex Queries, Aggregate Function and	
Practical		Group by Clause; Nested Sub Queries; Correlated Sub	
		Queries; Joined Relations; Set Comparisons.	
4 <sup>th</sup> Sesm	Debapratim	Course – 46 : Laboratory VI (Visual Basic with Oracle)	20
(BCA)	Sinha	6. Creating inventory programs for student database. 7.	
Practical		Results processing using VB-ORACLE. 8. Creating salary	
		sheet using VB-ORACLE. 9. Income tax calculation using VB-	
		ORACLE. 10. Savings bank transaction program using VB-ORACLE.	

#### Representative teacher's diary for a week: Debapratim Sinha

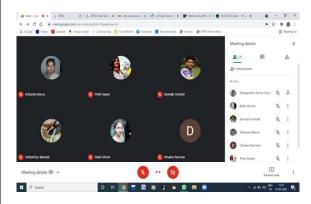
Date	Platform	Semester	Paper	Topic
16-05-2021	Google Meet	BCA 5th	Course 51	Introduction to operation research
20-05-2021	Google Meet	BCA 5th	Course 51	Concept of transportation type problem
21-05-2021	Zoom	Gen. 4th	DC 4 a	Introduction to Database and DBMS
22-05-2021	Google Meet	BCA 5th	Course 51	North west corner method discussion
23-05-2021	Google Meet	Gen. 4th	DC 4 b	Concept of MySQL
24-05-2021	Zoom	BCA 5th	Course 51	Matrix minimum method discussion
26-05-2021	Zoom	Gen. 4th	DC 4 a	Layered architecture of DBMS
27-05-2021	Google Meet	Gen. 4th	DC 4 b	Data types in MySQL





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Debapration Sinha

( *Debapratim Sinha* ) State Aided College Teacher Department of Computer Science Gour Mahavidyalaya

Academic Quarter	Class	Name Of The Faculty	Topic To Be Covered	No. of Lectures
Q1				
July 20 - September 20	3 <sup>RD</sup> SEM (Gen)	Shib Charan Chowdhury	<ul> <li>DC3: Data Structure using C : Introduction: Algorithms, ADT.</li> <li>Arrays: One dimensional and Two Dimensional Arrays, Row Major and Column Major ordering, different operations on array.</li> <li>Linked List: Singly and Doubly Linked List; Operations Like Insertion, Deletion, Searching etc.</li> </ul>	15
	Part-III B.Sc(Gen)	Shib Charan Chowdhury	Group A: Database Management System Basic concepts: Advantages of DBMS, ANSI / SPARC architecture,	10
Q2				
Oct20-Dec20	3 <sup>RD</sup> SEM (Gen.)	Shib Charan Chowdhury	<b>DC3: Data Structure using C</b> : Stacks and Queues: Concepts of Stack and Queue; Insertion and Deletion of Elements; Array and Linked Representation: Prefix, Infix and Postfix Notation; Postfix Expression Evaluation, Infix to Postfix conversion. Searching: Sequential, Binary Search	15
	B.Sc(Gen) Part-III	Shib Charan Chowdhury	Group A: Database Management System physical conceptual and external models; Entity Relationship diagram(ERD); Relational Data models, Relational algebra,	10
Q3				
Jan21- March21	2 <sup>nd</sup> SEM (Gen.)	Shib Charan Chowdhury	<b>DC2: Introduction to C Programming:</b> Introduction: Basic Structure, Algorithms, Flowcharts, Structured programming constructs. C Programming elements: Character sets,	50

			Keywords, Constants, Variables, Data Types, OperatorsArithmetic, Relational, Logical and Assignment; Increment and Decrement and Conditional Operator, Precedence and Associations; Expressions, type casting. Comments, Functions, Storage Classes, Bit manipulation, Input and output. C Pre-processor: File inclusion, Macro substitution. Statements: Assignment, Control statements- if, if else, switch, break, continue, goto, Loopswhile,do_while, for.	
	4 <sup>th</sup> SEM (Gen)	Shib Charan Chowdhury	SEC-2: Microprocessor 8085: Introduction to Microcomputer based system: Microprocessor and Microcontrollers and their advantages and disadvantages. Microprocessor Architecture and Memory Interfacing: Basic Architecture of Microprocessor 8085 and explanation of each block, Microprocessor 8085 pin out and signals, Addressing modes, Multiplexed Address Data Bus, Control and Status signals, Microprocessor and Bus Timing, De-multiplexing of Address Data Bus,	30
	B.Sc(Gen) Part-III	Shib Charan Chowdhury	Group A: Database ManagementSystemQuery languages: SQL,File organization: Sequential, indexedsequential ; Query Languages: RelationalAlgebra;.	10
Q4				
April21- June21	2 <sup>nd</sup> SEM (Gen.)	Shib Charan Chowdhury	DC2: Introduction to C Programming:Functions: Argument passing, returnstatement, return values and their types,recursionArrays: String handling with arrays, Stringhandling functions.Pointers: Definition and initialization,	50

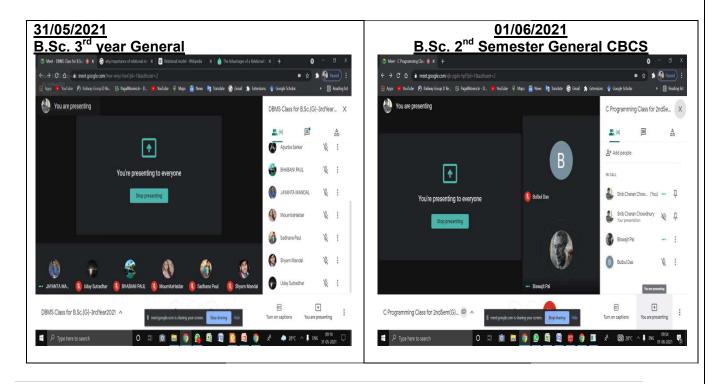
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		Pointer arithmetic, Pointers and arrays,	
		String functions and	
		manipulation, Dynamic storage allocation.	
		User defined Data types: Structures.	
		Structure arrays, Pointers to Functions and	
		Structures, Unions	
		File Access: Opening, Closing, I/O	
		operations	
4 <sup>th</sup> S	EM Shib Charan	SEC-2: Microprocessor 8085:	30
(Gen.	) Chowdhury	Instruction Formats, Instruction Cycle,	
		Clock Cycle, Generation of	
		Control Signals for I/O and Memory, Basic	
		concepts in Memory Interfacing, Address	
		Decoding and	
		memory Addresses.	
		Interfacing I/O Devices: Basic Interfacing	
		concepts, Peripheral I/O instructions (I/O	
		mapped I/O),	
		Programming 8085: Instruction Set of	
		8085, Different Programming Techniques,	
		Stack and	
		Subroutines, Counter and Time Delays	
B.Sc(	Gen) Shib Charan	Group A: Database Management	15
Part-I		System	
		Query Languages: Relational	
		Algebra; Functional dependencies and	
		normal forms: 1NF, 2NF, 3NF, and BCNF.	
		SQL; Security;	
		Integrity.	

# Representative teacher's diary for a week: Shib Charan Chowdhury

## Date: 31/05/2021 to 05/06/2021

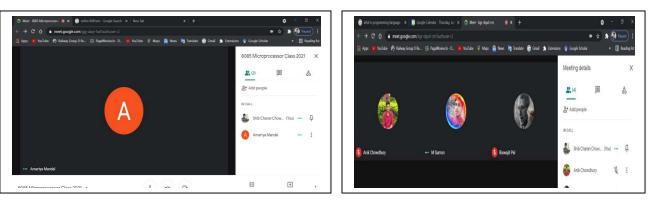
Date	Platform with link	Semester	Paper	Topic
31/05/2021	09am-10am Google Meet DBMS Class Google Meet joining info Video call link: <u>https://meet.google.com/hwx-wnyi- hws</u>	B.Sc. 3 <sup>rd</sup> Year General	Paper-V Group-A	<b>Database Management</b> <b>System</b> : Query Languages: Relational Algebra

01/06/2021	9:00 – 11:00am Google Meet joining info Video call link: <u>https://meet.google.com/xjk-pgdx- hpf</u>	Sem2 Gen CBCS	DC2:(a)	Introduction to C Programming Functions :Basic Concepts
02/06/2021	8:00 – 10:00am Google Meet joining info Video call link: <u>https://meet.google.com/gjg-aaqr-</u> <u>hat</u>	Sem4 Gen CBCS	Sec-2	Microprocessor 8085: Programming 8085: Instruction Set of 8085, Different Programming Techniques
03/06/2021	7:00 – 9:00pm Google Meet joining info Video call link: <u>https://meet.google.com/bgr-dqxd-</u> <u>crn</u>	Sem2 Gen CBCS	DC2(a)	Introduction to C Programming Functions: Argument passing, return statement, return values and their types,
04/06/2021	3:30 – 5:00pm Google Meet joining info Video call link: Video call link: https://meet.google.com/fxt-tafy-agp	Sem-2 Gen CBCS	DC-2(b) lab	Introduction to C Programming Functions: Argument passing, return statement, return values and their types,
04/06/2021	9:30 – 11:00am Google Meet joining info Video call link: <u>https://meet.google.com/uuf-ijgh-iku</u>	Sem-4 Gen CBCS	SEC-2	Microprocessor 8085: Programming 8085: Instruction Set of 8085, Different Programming Techniques

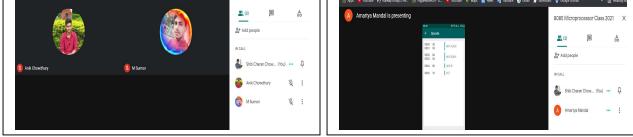


# <u>02/06/2021</u> B.Sc. 4<sup>TH</sup> Semester General CBCS

#### <u>03/06/2021</u> B.Sc. 2<sup>nd</sup> Semester General CBCS







Shib Charan Chow Shung.

(Shib Charan Chowdhury) State Aided College Teacher Gour Mahavidyalaya Department of Computer Science P.O: Mangalbari,Malda-732142 West Bengal