Slow & Advanced Learner System for the Session 2020-2021
Department of Computer Science & Application
Gour Mahavidyalaya
Mangalbari, Malda

Introduction:

We the Department of Computer Science & Application, Gour Mahavidyalaya, have initiated the academically 'slow & advanced learner' system. Our aim is to bring the best among the students. Advanced learners are motivated to strive for higher goals and are encouraged for higher studies. They are provided with additional inputs by offering special coaching. We motivate them to involve in small research projects through surveys and educational tours to inculcate research orientation and higher studies aspirations.

The slow learners are never considered as poor achievers as that can hurt their motivation and their interest. This can eventually make them more distressed and introvert in the class. Hence, we treat them like any other student in the class but they are provided extra attention for improvement and achievement. The Department and every individual teacher help slow learners by providing proper guidance and support to them.

We encourage advanced learner to be supporters to the average and the slow learners as it will help to maintain the brotherhood among all students. We keep our advanced classes open to all not limiting to advanced learners only.

Guidelines for identifying Advanced Learners (Academically advanced):

● Advanced Learners are those students who are ahead on the learning curve and can grasp advanced topics/ subjects faster than others.

● Advanced earners are identified based on the performance in University Examination of previous semester, internal examinations and class responses.

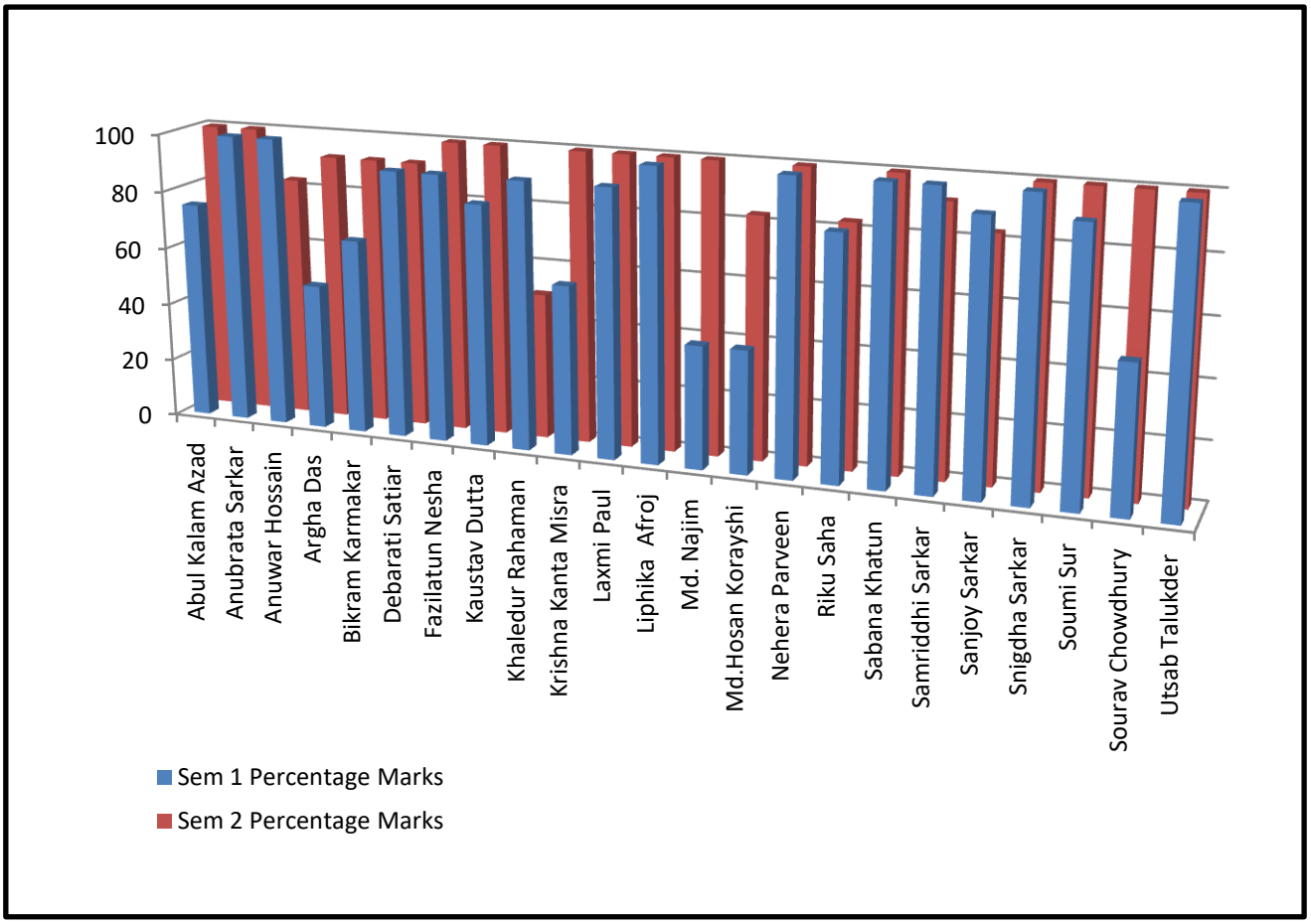
Guidelines for Slow Learner (Academically weak):

● The connotation of academically slow learner (Weak Students) means those who could not keep pace with the classroom teaching needs extra attention so as to bring such students at par with the rest of the students of the class.

● Slow learners are identified based on their performance in University Examination of previous semester, internal examinations and class.

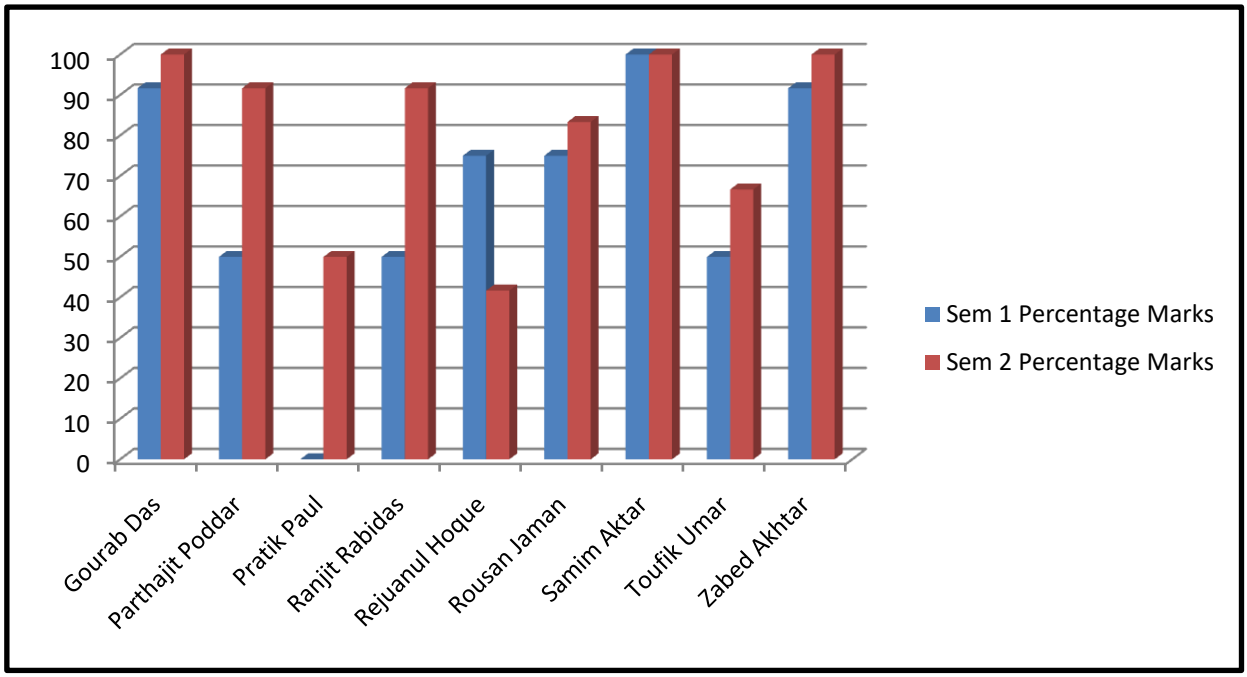
Student Data: Computer Science

				Semester III		Semester IV	
SL NO.	**Name**	**Roll-No**	**Registration No.**	**Percentage**	**Learner**	**Percentage**	**Learner**
1	Abul Kalam Azad	1219CMSH 0035	121-1114-0718-19	75	Advanced	100	Advanced
2	Anubrata Sarkar	1219CMSH-0036	121-1111-0719-19	100	Advanced	100	Advanced
3	Anuwar Hossain	1219CMSH-0119	121-1114-0720-19	100	Advanced	83	Advanced
4	Argha Das	1219CMSH-0038	121-1112-0721-19	50	Slow	92	Advanced
5	Bikram Karmakar	1219CMSH-0039	121-1112-0722-19	67	Advanced	92	Advanced
6	Debarati Satiar	1219CMSH 0041	121 1211 0724 19	92	Advanced	92	Advanced
7	Fazilatun Nesha	121-1214-0725-19	121-1214-0725-19	92	Advanced	100	Advanced
8	Kaustav Dutta	1219CMSH-0043	121-1111-0726-19	83	Advanced	100	Advanced
9	Khaledur Rahaman	1219CMSH-0044	121-1111-0727-19	92	Advanced	50	Slow
10	Krishna Kanta Misra	1219CMSH-0045	121-1111-0728-19	58	Slow	100	Advanced
11	Laxmi Paul	1219CMSH-0046	121-1215-0729-19	92	Advanced	100	Advanced
12	Liphika Afroj	1219CMSH-0047	121-1211-0730-19	100	Advanced	100	Advanced
13	Md. Najim	1219CMSH-0049	121-1114-0732-19	42	Slow	100	Advanced
14	Md.Hosan Korayshi	1219CMSH-0048	121-1114-0731-19	42	Slow	83	Advanced
15	Nehera Parveen	1219CMSH-0051	121-1211-0734-19	100	Advanced	100	Advanced
16	Riku Saha	1219CMSH-0053	121-1111-0736-19	83	Advanced	83	Advanced
17	Sabana Khatun	1219CMSH-0054	121-1214-0737-19	100	Advanced	100	Advanced
18	Samriddhi Sarkar	1219CMSH-0055	121-1211-0738-19	100	Advanced	92	Advanced
19	Sanjoy Sarkar	1219CMSH-0056	121-1112-0739-19	92	Advanced	83	Advanced
20	Snigdha Sarkar	1219CMSH-0058	121-1212-0741-19	100	Advanced	100	Advanced
21	Soumi Sur	1219CMSH-0059	121-1215-0742-19	92	Advanced	100	Advanced
22	Sourav Chowdhury	1219CMSH-0060	121-1112-0743-19	50	Slow	100	Advanced
23	Utsab Talukder	1219CMSH-0061	121-1117-0744-19	100	Advanced	100	Advanced

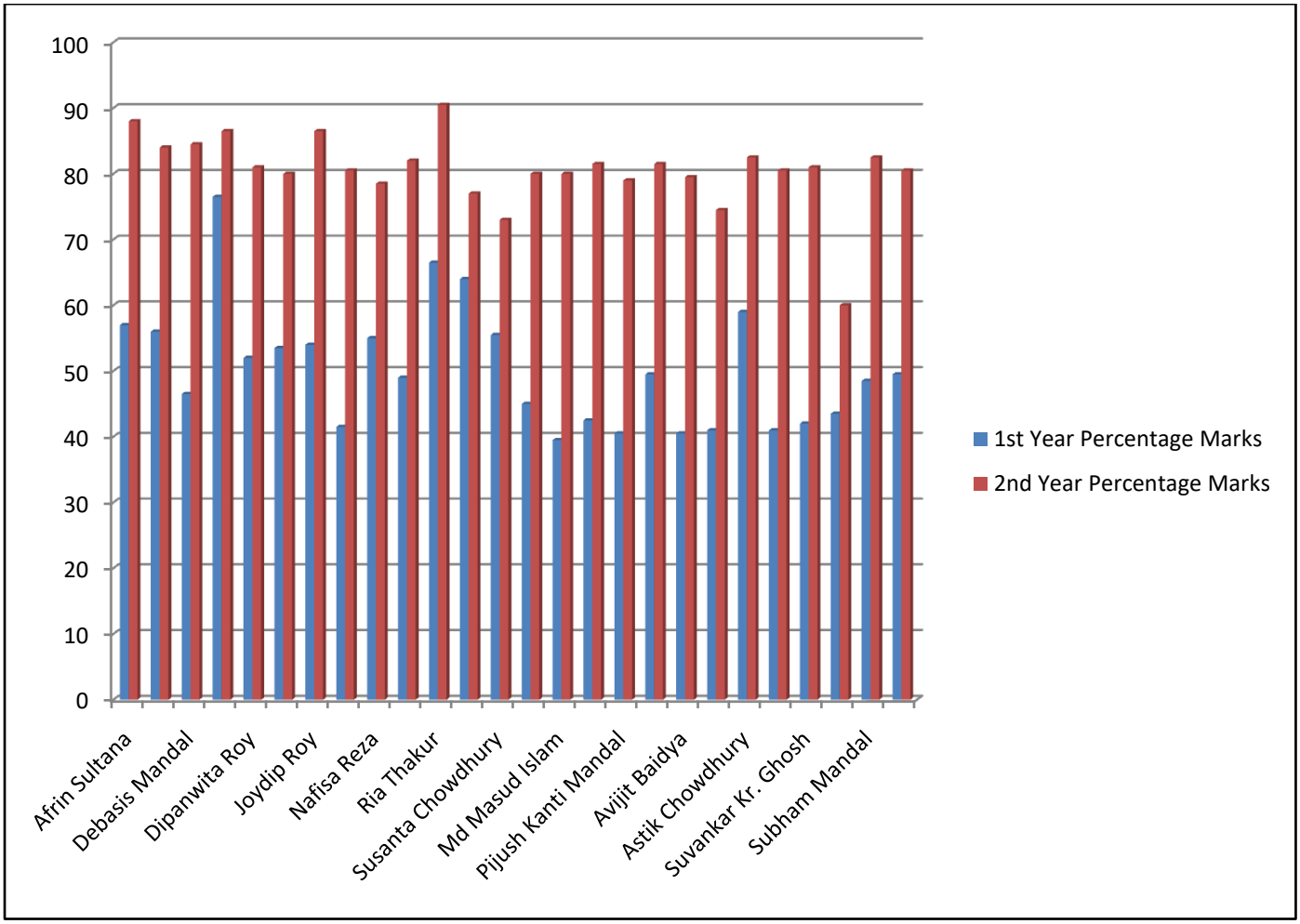


Student Data: BCA

				Semester III		Semester IV	
SL. NO	**Name**	**Roll No.**	**Registration No.**	**Percentage**	**Learner**	**Percentage**	**Learner**
1	Gourab Das	1219BCAH-0001	125-1112-2607-19	91.67	Advanced	100.00	Advanced
2	Parthajit Poddar	1219BCAH-0002	125-1115-2608-19	50.00	Slower	91.67	Advanced
3	Pratik Paul	1219BCAH-0003	125-1111-2609-19	A	A	50.00	Slow
4	Ranjit Rabidas	1219BCAH-0004	125-1112-2610-19	50.00	Slower	91.67	Advanced
5	Rejuanul Hoque	1219BCAH-0005	125-1115-2611-19	75.00	Advanced	41.67	Slow
6	Rousan Jaman	1219BCAH-0006	125-1115-2612-19	75.00	Advanced	83.33	Advanced
7	Samim Aktar	1219BCAH-0007	125-1111-2613-19	100.00	Advanced	100.00	Advanced
8	Toufik Umar	1219BCAH-0009	125-1111-2615-19	50.00	Slower	66.67	Advanced
9	Zabed Akhtar	1219BCAH-0010	125-1115-2616-19	91.67	Advanced	100.00	Advanced



BSc Computer Science Hons.				1st Year			2nd Year		
SL. NO	Name	Roll No.	Reg. No.	Marks	Percentage	Learner	Marks	Percentage	Learner
1	Afrin Sultana	1219CMSH-0001	1212409	114	57	Slow	176	88	Advanced
2	Ashif Ansari	1219CMSH-0002	1212410	112	56	Slow	168	84	Advanced
3	Debasis Mandal	1219CMSH-0009	1212415	93	46.5	Slow	169	84.5	Advanced
4	Dipankar Roy	1219CMSH-0010	1212416	153	76.5	Advanced	173	86.5	Advanced
5	Dipanwita Roy	1219CMSH-0011	1212417	104	52	Slow	162	81	Advanced
6	Hritthika Pal	1219CMSH-0012	1212418	107	53.5	Slow	160	80	Advanced
7	Joydip Roy	1219CMSH-0013	1212420	108	54	Slow	173	86.5	Advanced
8	Murtuja Ali	1219CMSH-0018	1212426	83	41.5	Slow	161	80.5	Advanced
9	Nafisa Reza	1219CMSH-0019	1212427	110	55	Slow	157	78.5	Slow
10	Md Nasim Akhtar	1219CMSH-0016	1212424	98	49	Slow	164	82	Advanced
11	Ria Thakur	1219CMSH-0024	1212433	133	66.5	Advanced	181	90.5	Advanced
12	Shrabani Dubey	1218CMSH-0015	1212574	128	64	Advanced	154	77	Slow
13	Susanta Chowdhury	1219CMSH-0025	1212434	111	55.5	Slow	146	73	Slow
14	Md Sarif Sk	1219CMSH-0017	1212425	90	45	Slow	160	80	Advanced
15	Md Masud Islam	1219CMSH-0014	1212422	79	39.5	Slow	160	80	Advanced
16	Nurtaj Hossain	1219CMSH-0020	1212428	85	42.5	Slow	163	81.5	Advanced
17	Pijush Kanti Mandal	1219CMSH-0021	1212430	81	40.5	Slow	158	79	Slow
18	Puja Gupta	1219CMSH-0023	1212432	99	49.5	Slow	163	81.5	Advanced
19	Avijit Baidya	1219CMSH-0006	1212413	81	40.5	Slow	159	79.5	Slow
20	Shaswata Chakraborty	1218CMSH-0014	1212573	82	41	Slow	149	74.5	Slow
21	Astik Chowdhury	1219CMSH-0005	1212412	118	59	Slow	165	82.5	Advanced
22	Ashok Mandal	1219CMSH-0004	1212411	82	41	Slow	161	80.5	Advanced
23	Suvankar Kr. Ghosh	1218CMSH-0018	1212578	84	42	Slow	162	81	Advanced
24	Sudip Das	1217CMSH-0024	1212783	87	43.5	Slow	120	60	Slow
25	Subham Mandal	1218CMSH-0017	1212576	97	48.5	Slow	165	82.5	Advanced
26	Ubaidur Rahaman	1218CMSH-0019	1212579	99	49.5	Slow	161	80.5	Advanced

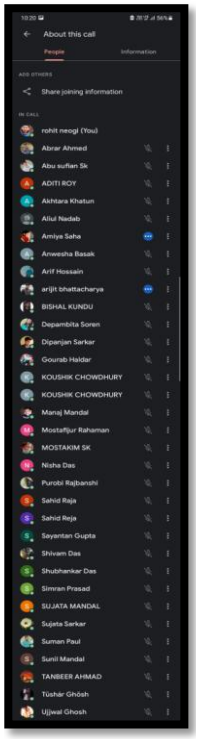


Class Details

Date, Platform & link	Name of the Faculty	Semester	Content	Objective	Outcome of activity
BSc 1st Sem Hons Saturday, December 5, 2020 · 10:15am – 12:15pm Google Meet joining info Video call link: https://meet.google.com/pzb-ouwf-vmn	Arijit Bhattacharya	Sem-1	Number Systems: Introduction: Weighted and Non-Weighted Codes, positional, Binary, Octal, Hexadecimal, Binary coded Decimal (BCD).	Understanding the basics of number system, specifically binary form.	Learn to write binary, octal and hexadecimal numbers
BSc 1st Sem Hons Tuesday, December 8, 2020 · 10:00am – 12:00pm Google Meet joining info Video call link: https://meet.google.com/pzb-	Arijit Bhattacharya	Sem-1	Number Systems: Gray Codes, Alphanumeric codes, ASCII, EBCDIC, Conversion of	Understanding the basics of number system, Conversion among bases,	How to convert numbers of different bases?

ouwf-vmn			bases.	ASCII and Gray code with application areas.	
BSc 1st Sem Hons Saturday, December 12, 2020 · 11:00am – 1:00pm Google Meet joining info Video call link: https://meet.google.com/pzb-ouwf-vmn	Arijit Bhattacharya	Sem-1	Propositional Logic Logical Connectives, Well-formed Formulas, Tautologies, Equivalences, Inference Theory.	Understanding the basics of Propositional logic	Learn the basics of propositional logic system and its application fields
BSc 1st Sem Hons Saturday, December 26, 2020 · 11:15am – 1:15pm Google Meet joining info Video call link: https://meet.google.com/pzb-ouwf-vmn	Arijit Bhattacharya	Sem-1	Discussion on some previous topics.	This class is for those students who have some problem in previous classes.	Clearing doubts
2nd Sem 2020 Thursday, December 3, 2020 · 8:45 – 10:45am Google Meet joining info Video call link: https://meet.google.com/gqd-kisp-wts	Arijit Bhattacharya	Sem-2	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	Priliminary idea about Boolean algebra and basics of circuits	Boolean algebra and its applied fields
2nd Sem 2020 Thursday, December 10, 2020 · 9:45 – 11:45am Google Meet joining info Video call link: https://meet.google.com/gqd-kisp-wts	Arijit Bhattacharya	Sem-2	Combinational Circuits: 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.	Combinational Circuits	Combinational Circuits implementation
BSc 3rd year & 4th Sem Computer Science Hons Monday, May 10, 2021· 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/zqs-	Arijit Bhattacharya	3rd Year & 4th Sem	Evolution of Microprocessor: Architecture of 8 bit microprocessor Machine Language Instructions, Addressing Modes,	Basics of Microprocessor	Learning how a microprocessor works.

qywf-amv			Instruction Formats,		
BSc 3rd year comp sc hons Wednesday, May 12 , 2021⋅ 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/zqs-qywf-amv	Arijit Bhattacharya	3rd Year	Concepts: OOP, Data Abstraction and Information Hiding : Objects, Classes and Methods, Encapsulation, Inheritance, Polymorphism	Basics of OOP using C++	How to solve problems using C++?



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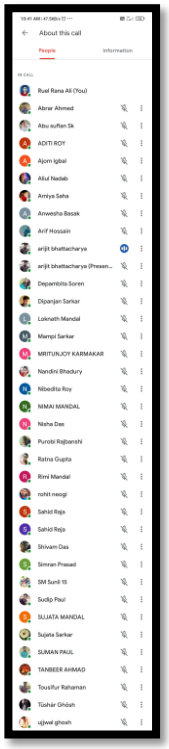

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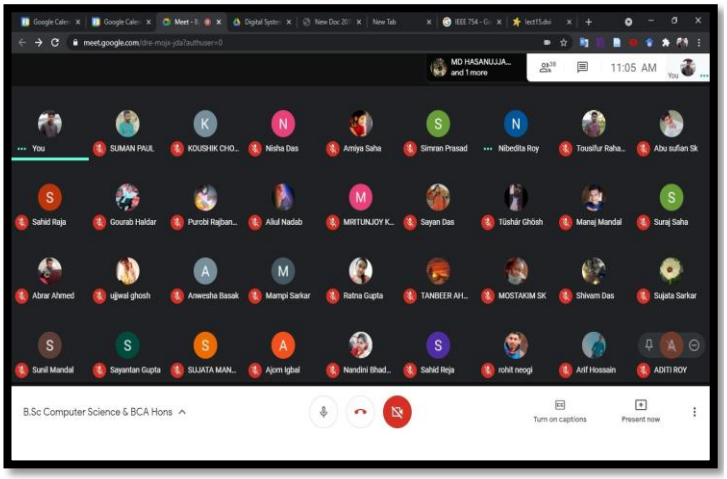

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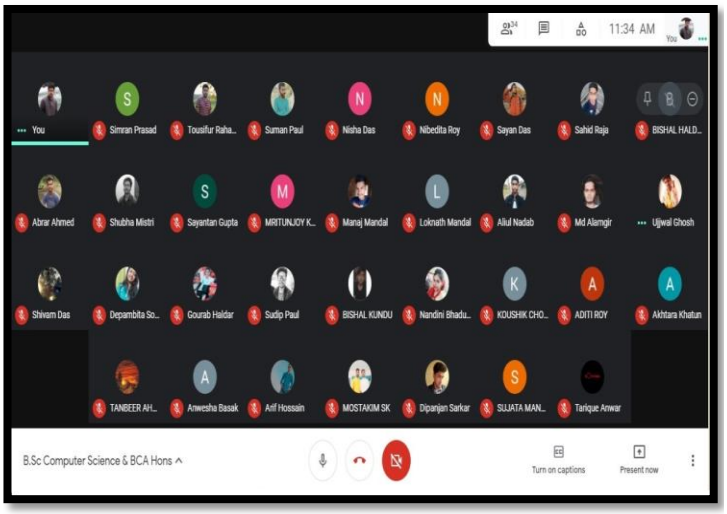

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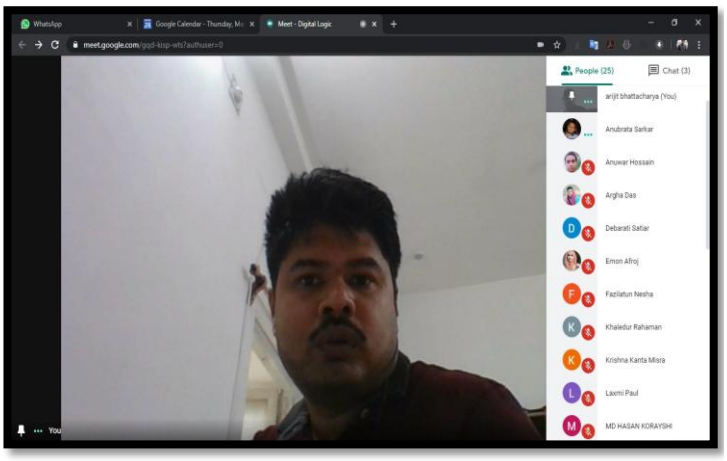

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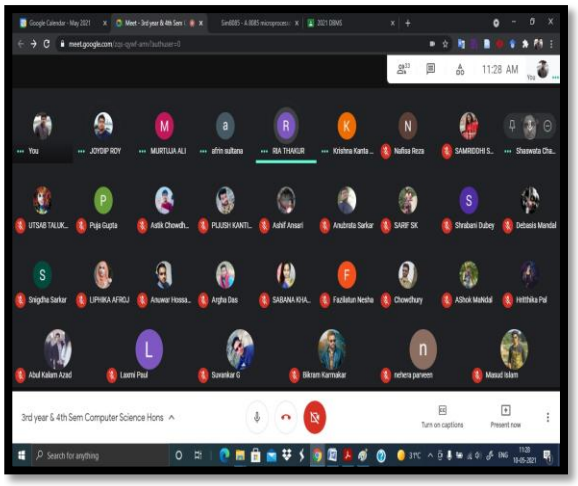

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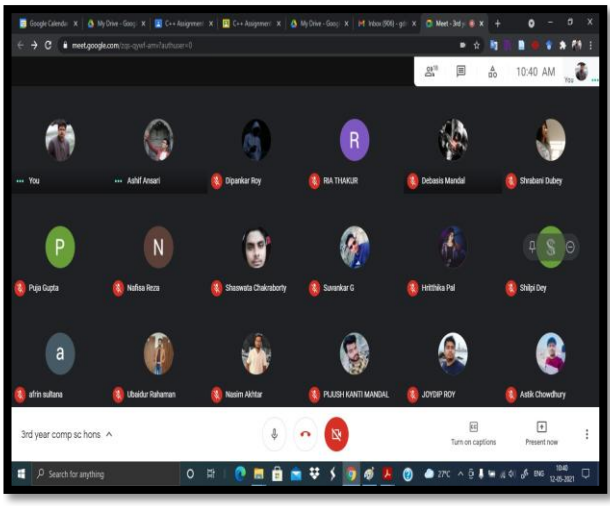
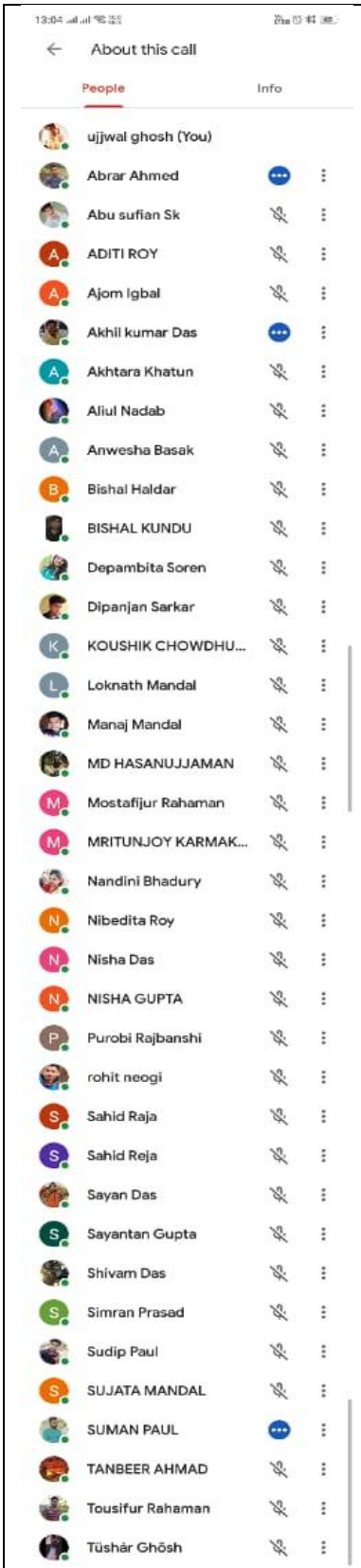


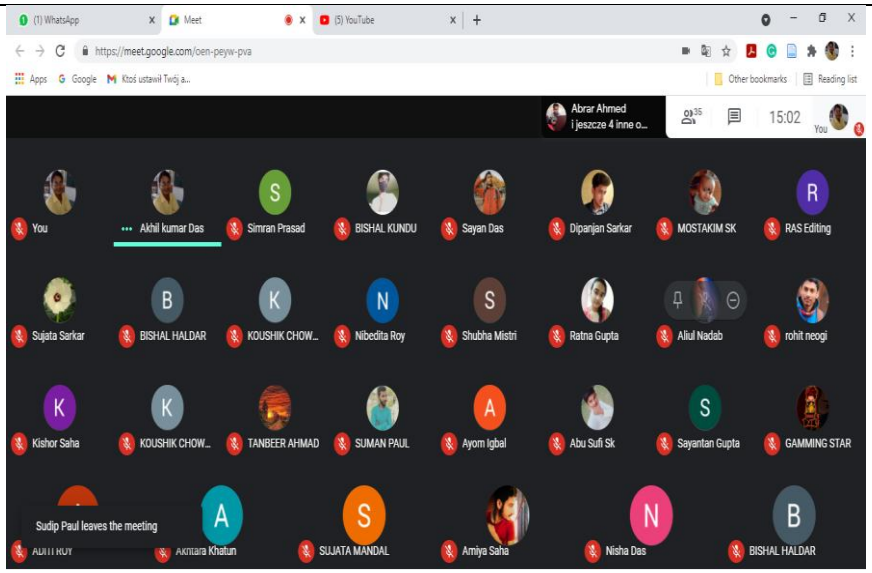
12-05-2021

Date, Platform & link	Name of the Faculty	Semester	Content	Objective	Outcome of activity
BSc & BCA ,Sem-I Saturday, December 5, 2020 · 1:00 – 3:00pm Google Meet joining info Video call link: https://meet.google.com/jdq-ebbc-mjd	Akhil Kumar Das	Sem-1	Functions: Argument passing, return statement, return values and their types, recursion	Understanding basics concept of function.	Learn how to write function, argument pass to function , etc.
BSc & BCA ,Sem-I Sunday, December 6, 2020 · 1:30 – 3:30pm Google Meet joining info Video call link: https://meet.google.com/fur-cofq-yin	Akhil Kumar Das	Sem-1	Arrays: String handling with arrays, String handling functions.1D Arrays, 2D Arrays.	Understanding the basics concept of array, difference operation of array.	How to handle String with arrays, String functions,etc.
BSc & BCA ,Sem-I Friday, December 11, 2020 · 1:00 – 3:00pm Google Meet joining info Video call link: https://meet.google.com/gvf-yoam-emr	Akhil Kumar Das	Sem-1	Pointers: Pointer arithmetic, Pointers and array.	Understanding the basics concept of pointer and their operation.	Learn the basics of pointer.
BSc & BCA ,Sem-I Thursday, December 24, 2020 · 1:30 – 3:30pm Google Meet joining info Video call link: https://meet.google.com/gzs-jyhh-hms	Akhil Kumar Das	Sem-1	Pointers: Dynamic storage allocation	Understanding the basics concept of storage allocation	Learn the different storage allocation
BSc & BCA ,Sem-II Thursday, December 3, 2020 · 9:00 – 11:00am Google Meet joining info Video call link: https://meet.google.com/pyi-hjst-nqg	Akhil Kumar Das	Sem-2	Linked Lists: Singly, Doubly and Circular Lists; Polynomial representation	Understanding the basics concept of linked list.	Learn how to handle the different operation of linked list.

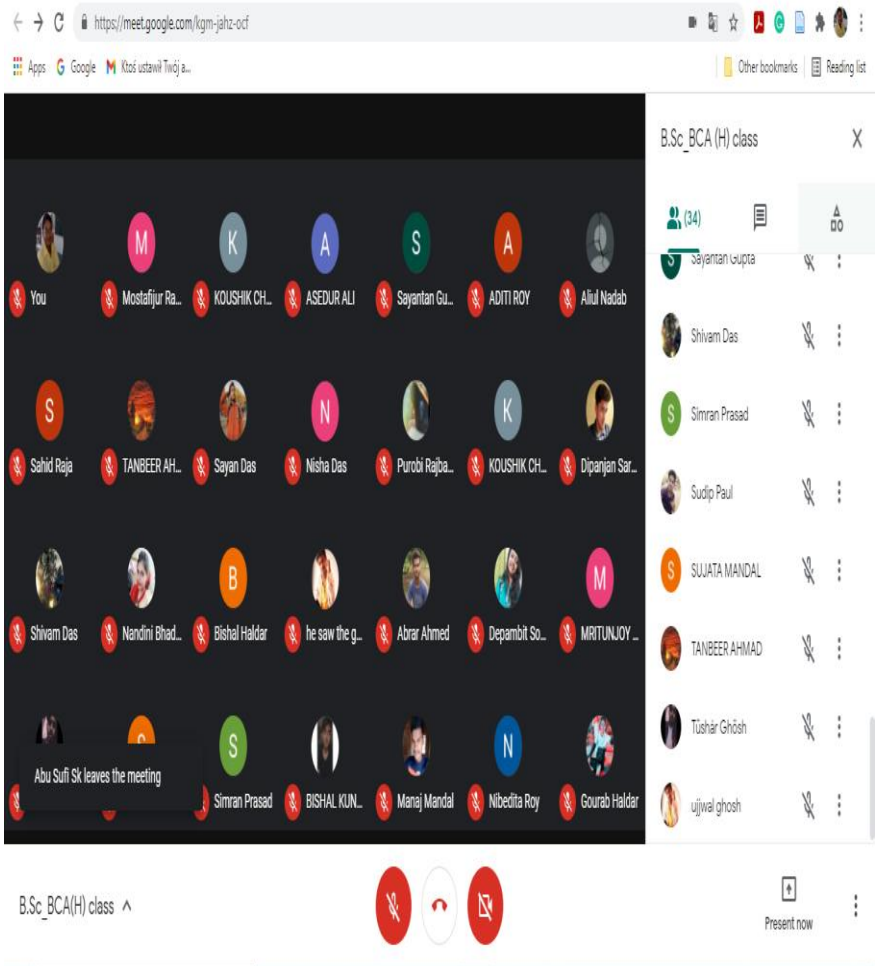
BSc & BCA ,Sem-II Wednesday, December 9, 2020 · 9:30 – 11:30am Google Meet joining info Video call link: https://meet.google.com/ffb-udgp-csk	Akhil Kumar Das	Sem-2	Queues: Array and linked representation of Queue, Circular Queue, De-queue, Priority Queues	Understanding the basics concept queue.	Learn how to handle the different operation of queue.
BSc_BCA_4th sem Tuesday, May 11 · 10:30am – 12:30pm,2021 Google Meet joining info Video call link: https://meet.google.com/mct-smsx-nsb	Akhil Kumar Das	Sem-4	Introduction: Drawbacks of file System; Advantages of DBMS; Layered Architecture of Database, Database Users, DBA; Data Dictionary; Functional Components of a DBMS.	Basics of DBMS	Learning the basic concept of DBMS and their application.
BSc_BCA_4th sem Tuesday, May 25 · 5:00 – 7:00pm,2021 Google Meet joining info Video call link: https://meet.google.com/ppg-mjrt-ecw	Akhil Kumar Das	Sem-4	Entity Relationship(ER) Modelling: Entity, Attributes and Relationship, Structural Constraints, Keys, ER Diagram of Some Example Database, Weak Entity Set	Basics of ER Diagram	Learn the how to draw the E-R diagram
3rd year Sunday, May 16 · 9:15 – 11:15am,2021 Google Meet joining info Video call link: https://meet.google.com/dxw-cuja-nsa	Akhil Kumar Das	3rd year	Software Life Cycle, Different Models : Waterfall, Spiral, etc.	Understanding the basics concept of software process model	Learn how to develop the software.
B.Sc,3rd year Sunday, May 9 · 9:00 – 11:00am,2021 Google Meet joining info Video call link: https://meet.google.com/bgp-swsm-wuw	Akhil Kumar Das	3rd year	Introduction: Drawbacks of file System; Advantages of DBMS; Layered Architecture of Database, Database Users, DBA; Data Dictionary; Functional Components of a DBMS.	Basics of DBMS	Learning the basic concept of DBMS and their application.



5-12-2020



6-12-2020



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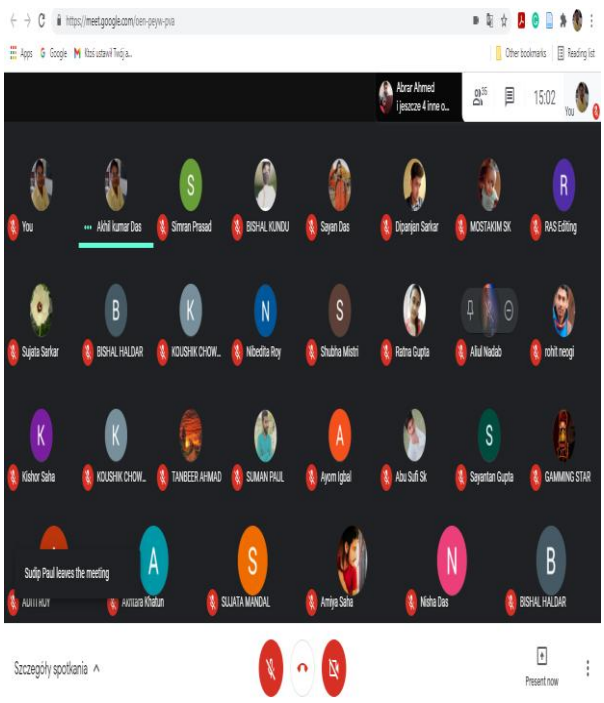

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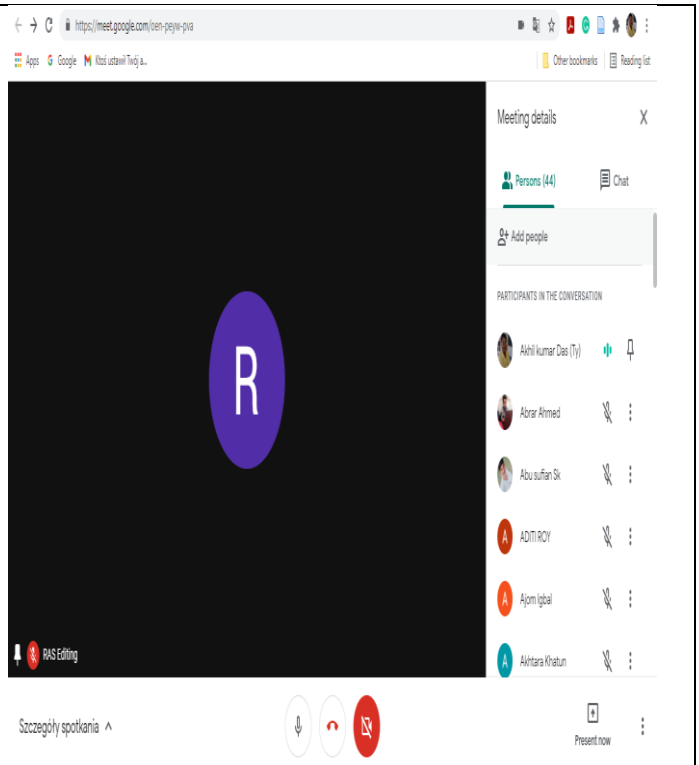

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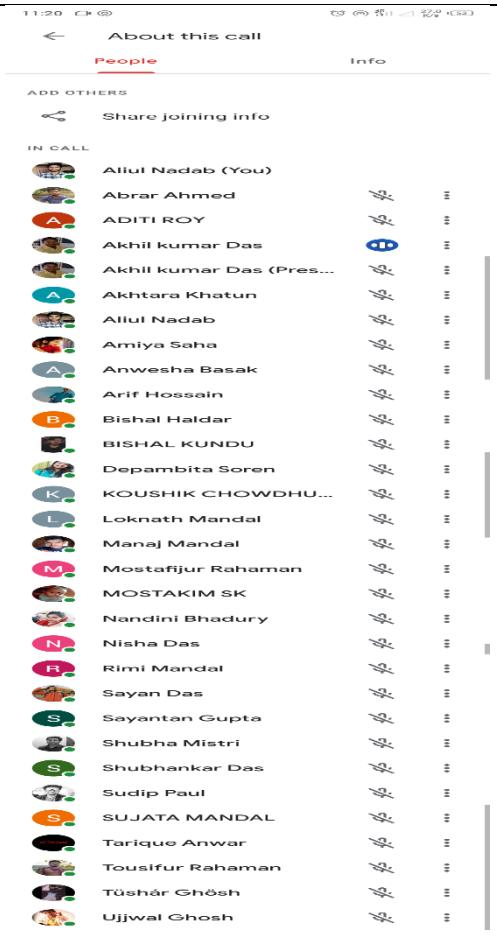
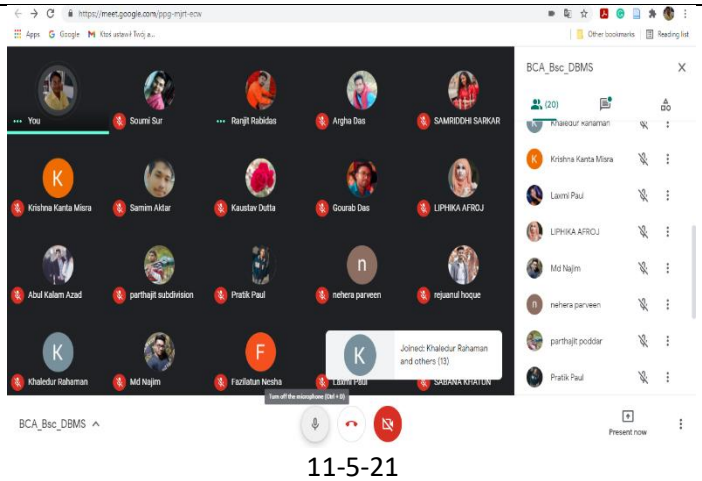


9-12-2020



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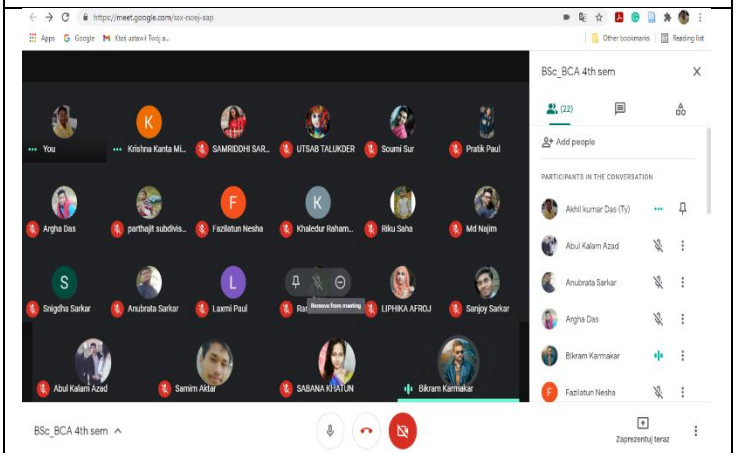

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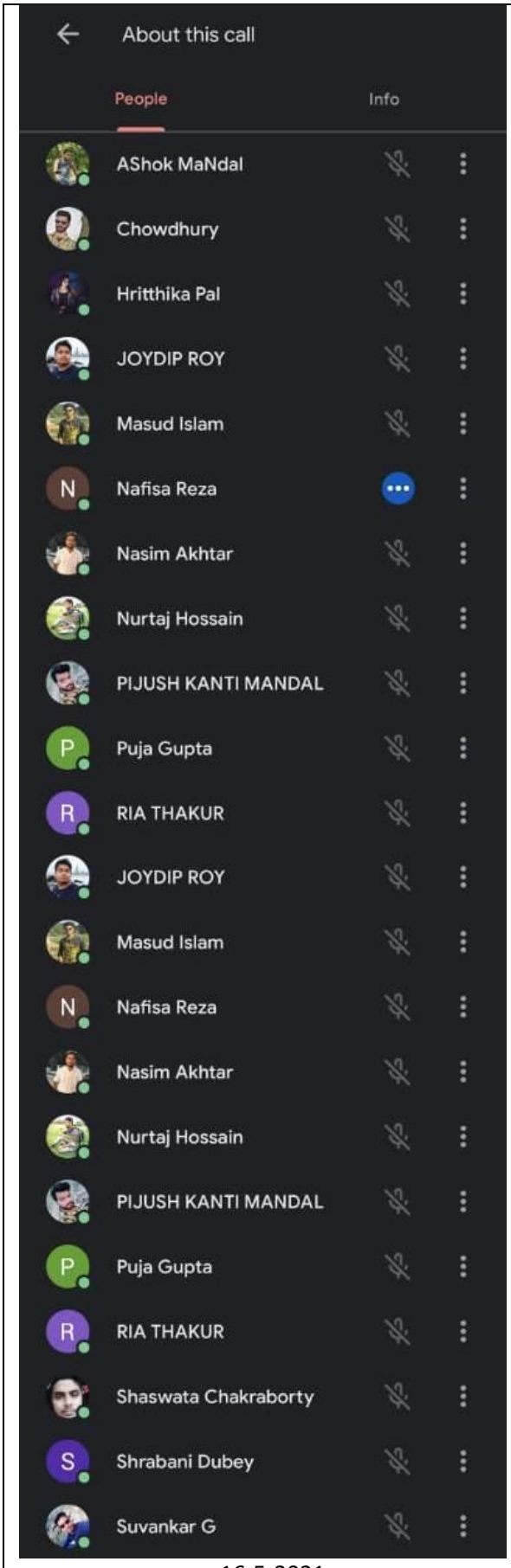

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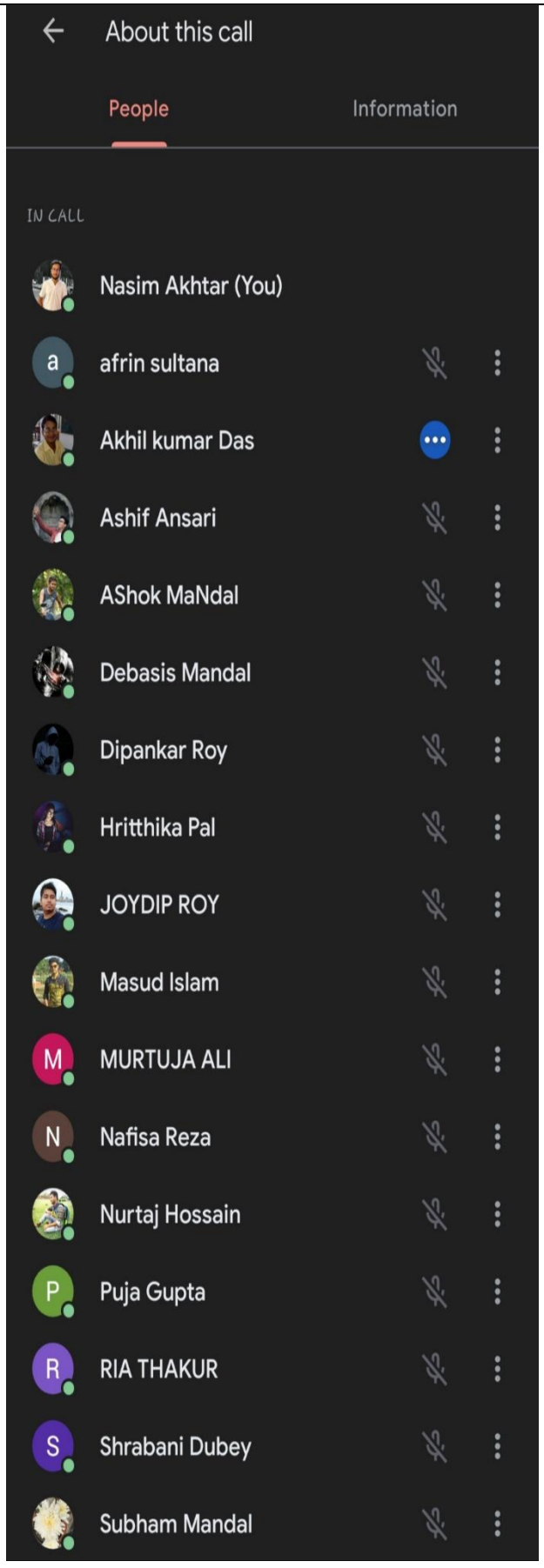

9-5-2021

Date, Platform & link	Name of the Faculty	Semester	Content	Objective	Outcome of activity
1st Sem Hons Monday, 7 December 2020 · 12:00 – 14:00 Google Meet joining info Video call link: https://meet.google.com/qiw-szkm-tkp	Ekram Alam	Sem-1	**Introduction**: Basic Structure, Algorithms, Flowcharts, Structured programming constructs. **C Programming elements**: Character sets, Keywords, Constants, Variables, Data Types, Operators, Precedence and Associations; Expressions, type casting. Comments,	Understanding the basics of C programming language.	Learned to write a basic C program.
1st Sem Hons Wednesday, 9 December 2020 · 12:00 – 14:00 Google Meet joining info Video call link: https://meet.google.com/qiw-szkm-tkp	Ekram Alam	Sem-1	Functions, Storage Classes, Bit manipulation, Input and output. **Statements:** Assignment, Control statements- if, if else, switch, break, continue, goto,	Write some more C programs using functions, if else, switch case, goto etc.	Learned to write some more useful programs using functions, if else, switch case, goto etc. Cleared the doubt of previous class.
BSc 1st Sem Hons Tuesday, 15 December 2020 · 12:00 – 14:00 Google Meet joining info Video call link: https://meet.google.com/qiw-szkm-tkp	Ekram Alam	Sem-1	**Graph Theory :**Basic Terminology, Models and Types, multi-graphs and weighted graphs, Graph Representation, Graph Isomorphism, Euler and Hamiltonian Paths and Circuits,	Understanding the basics of Graph Theory, Isomorphism, Euler graph and Hamiltonian graph.	Learned the basics of Graph Theory, Isomorphism, Euler graph and Hamiltonian graph.
BSc 1st Sem Hons Friday, 18 December 2020 · 12:00 – 14:00 Google Meet joining info Video call link: https://meet.google.com/qiw-szkm-tkp	Ekram Alam	Sem-1	Clearing the doubt of previous class, A brief introduction of Trees, Basic Terminology and properties of Trees, Binary tree	Clear the doubts of the previous class, Understanding tree.	Cleared the doubts of the previous class, learned basic of tree.
2nd Sem 2020 Friday, 4 December 2020 · 14:00 – 16:00 Google Meet joining info Video call link: https://meet.google.com/sch-ynoo-fwu	Ekram Alam	Sem-2	**Searching** : Linear Search, Binary Search	Understand the Basics of searching, Understand Linear and Binary search	Learned Basics of searching, Linear and Binary search
2nd Sem 2020 Friday, 11 December 2020 · 14:00 – 16:00 Google Meet joining info Video call link: https://meet.google.com/sch-ynoo-fwu	Ekram Alam	Sem-2	Sorting: Bubble sort, Selection Sort,	Understand advantages of sorted data, Bubble sort, selection sort	Learned Bubble sort and selection sort.
BSc 3rd Year (H) Tuesday, 11 May · 10:00 – 12:00 Google Meet joining info Video call link: https://meet.google.com/djy-pyog-yjr	Ekram Alam	3rd Year	Evolution of Microprocessor: Machine Language Instructions, Instruction Formats, Instruction Sets, Instruction Cycle, Clock Cycles	Basics of 8085 Microprocessor	Learned the basics of 8085 microprocessor with some small programs.
BSc 3rd Year (H) Friday, 21 May · 14:00 – 16:00 Google Meet joining info Video call link: https://meet.google.com/djy-pyog-yjr	Ekram Alam	3rd Year	Programming 8085 Microprocessor,	Learn different types of 8085 instructions.	Learned to write 8085 ALPs.

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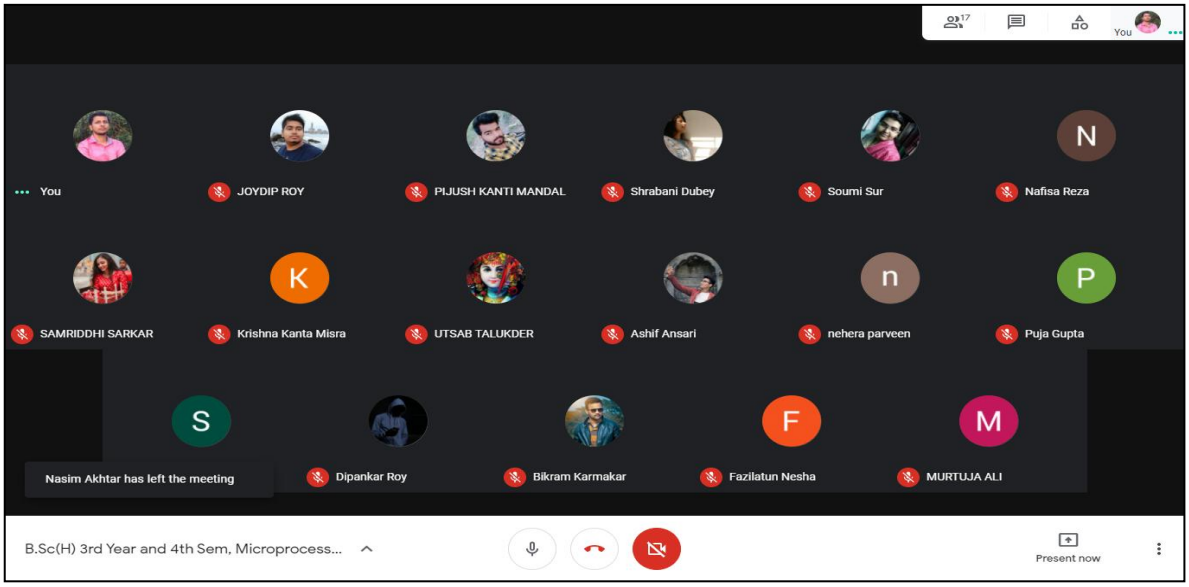

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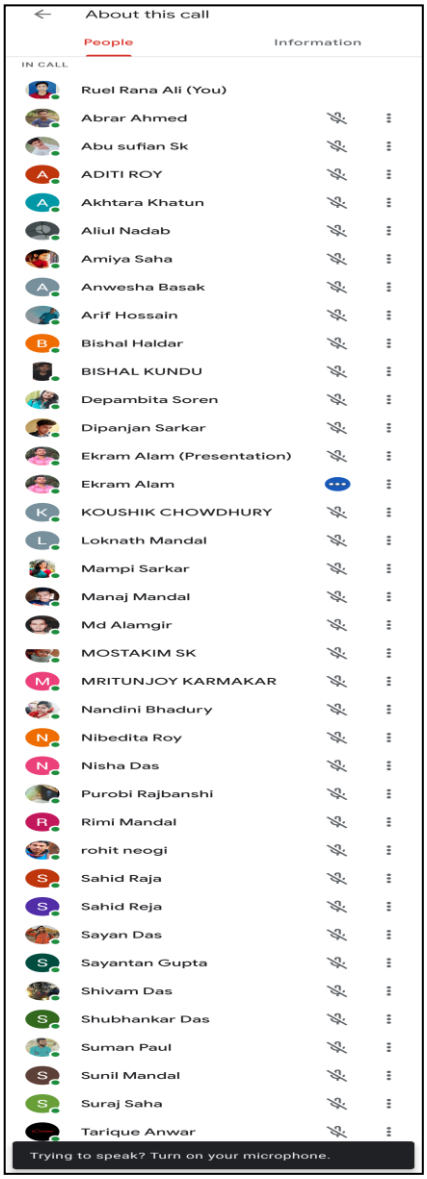

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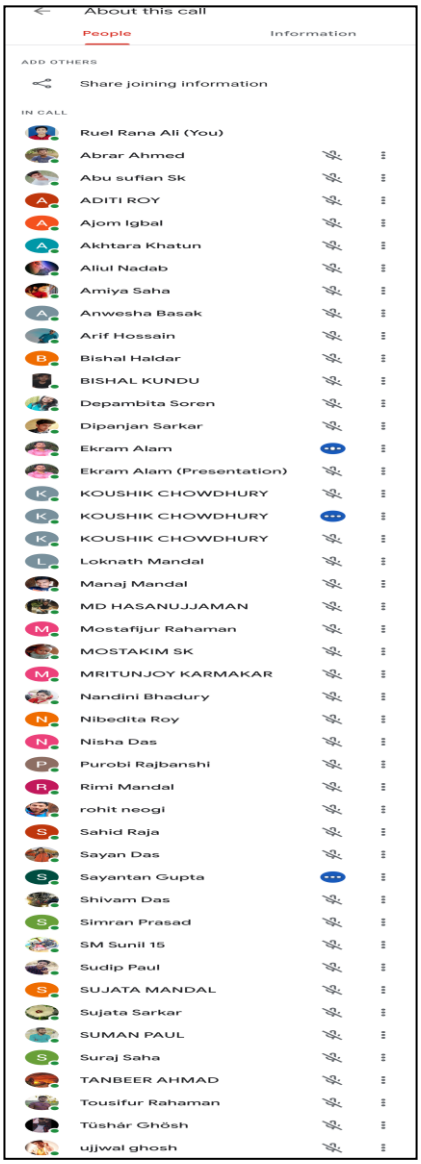

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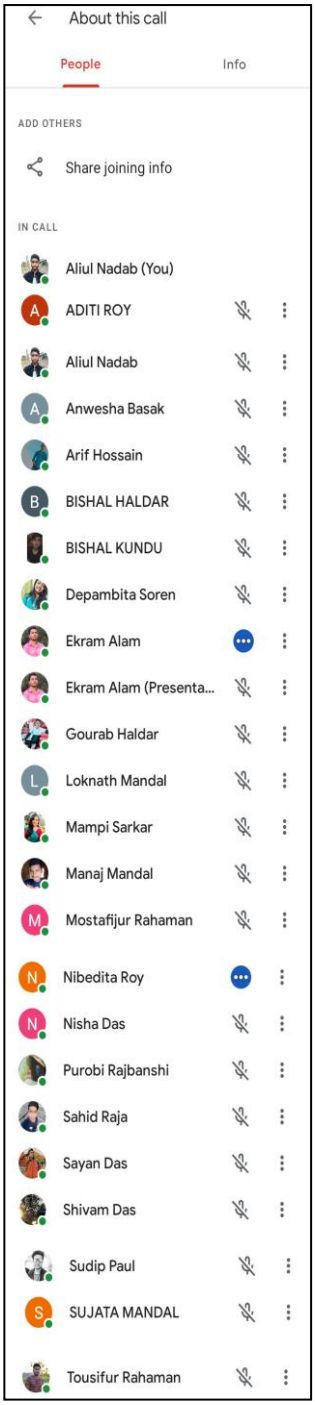

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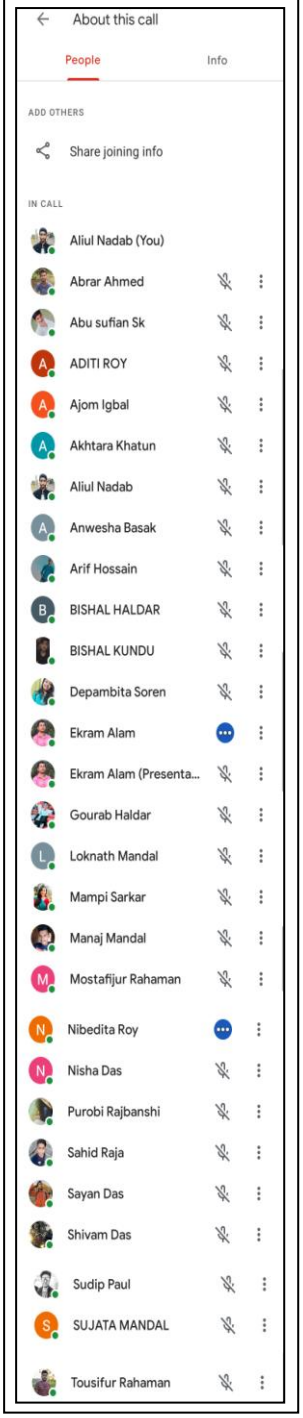

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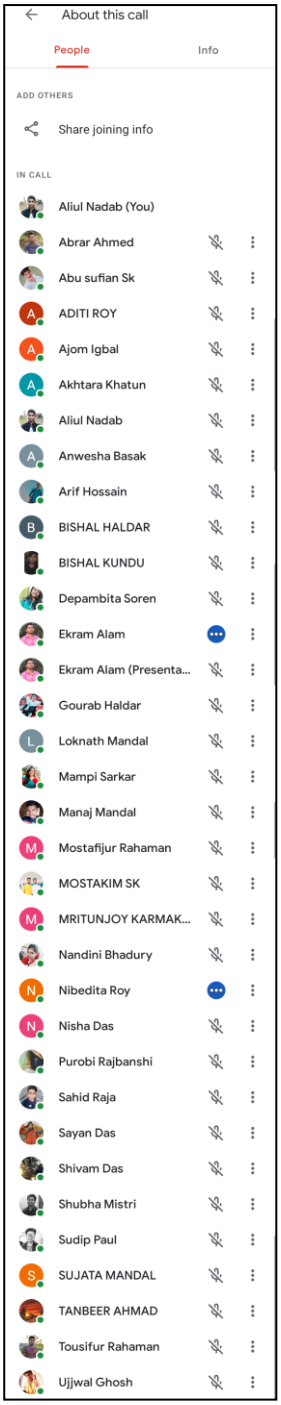

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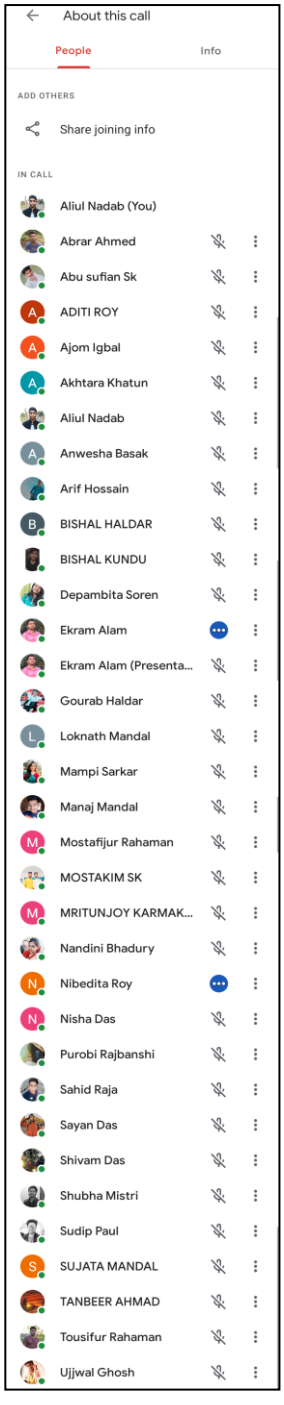

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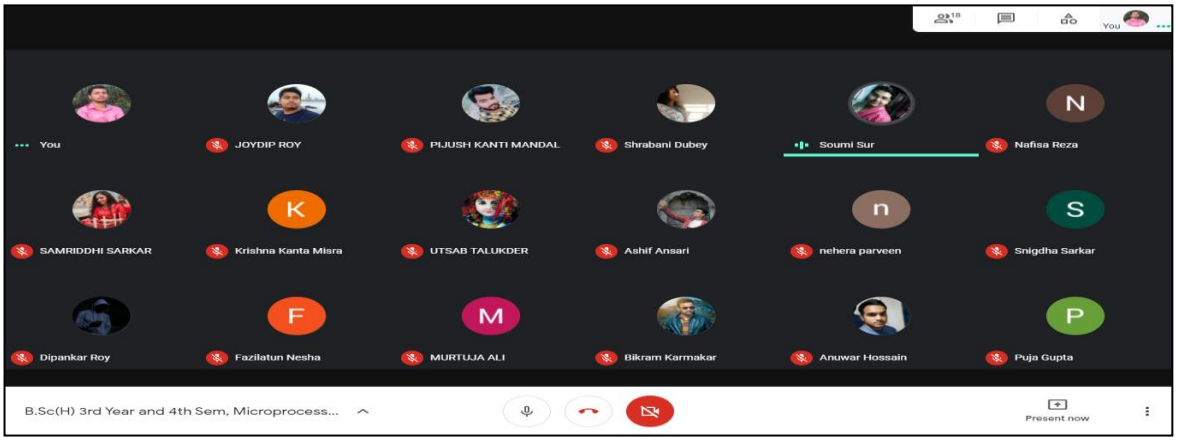
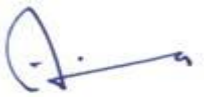


Our observations:

We, the faculties of Computer Science and BCA Department, analyze the students' progression on regular basis. We noticed during COVID-19 situation their marks have increased considerably, especially among slow learners. Our analysis also shows online examination has drastically reduced the marks difference between slow and advanced learners. Unfortunately, class responses do not always reflect the same in terms of quality. We further believe, 'slow & advanced learner' system is still in early stage for our department and we shall also evolve with time so that we can push our students towards a better future.



Arijit Bhattacharya
Assistant Professor & H.o.D.
Department of Computer Science
Gour Mahavidyalaya, Malda

Akhil Kr. Das
Assistant Professor & Co-ordinator
Department of Computer Science & BCA
Gour Mahavidyalaya, Malda

Ekram Alam
Assistant Professor
Department of Computer Science
Gour Mahavidyalaya, Malda

Dr. Subhendu Chatterjee
SACT
Department of Computer Science
Gour Mahavidyalaya, Malda

Debpratim Sinha
SACT
Department of Computer Science
Gour Mahavidyalaya, Malda

Shib Charan Chowdhury
SACT
Department of Computer Science
Gour Mahavidyalaya, Malda

Dipanjan Saha
SACT
Department of BCA
Gour Mahavidyalaya, Malda