HINDUSTHAN COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

COIMBATORE

DEPARTMENT OF MATHEMATICS

INTERDEPARTMENTAL ACTIVITIES (2022 – 2023)

Interdepartmental Programmes conducted by the Mathematics Department

S.No	Date	Name of theFaculty	Class	Title of the SDP	No of Students Benefited
1	01.11.2022	Mrs.M.Subhashree	II BSc CGS	Nature and Scope of Operation Research	50
2	02.11.2022	Mrs. L.DhivyaPrabha	II BCA - C	Application Of Operation Research InDigital Field	43
3	07.11.2022	Mrs. R.MohanaPriya	II BCA -B	Interesting Facts About Mathematics	46
4	08.11.2022	Dr.D.Mallika	I BCA - C	Application of Graph theory	56
5	09.11.2022	Dr.K.Sasikala	I BSc IT - A	Real life Application of Relation	65
6	10.11.2011	Dr.D.Mallika	I BSc CT - A	Applications of Graph theory	52
7	21.11.2022	Mrs. VyshnaUnni	II BCA-A	Fascinating Applications of Linear Programming	45
8	21.11.2022	Mrs. P.Jagadeeshwari,	II BSc Mathematics	Applications of Discrete Mathematics	14
9	21.11.2022	Mrs.M.Subhashree	I B.Sc CS A	Real Life Applications of Graph theory	55
10	22.11.2022	Dr.M.Rajarajeswari	I BSc CS B	Mathematical Thinking In Computer Science	52
11	22.11.2022	Mrs. J.Radhalakshmi	II B.Sc CS (A)	Real World Applications of Operations Research	60
12	22.11.2022	Mrs. Y.Angelpriya	II B.Sc.CT -B	Advantages and Disadvantages of CPM and PERT	45
13	22.11.2022	Mrs.M.Subhashree	I B.Sc CT B	Real Life Applications of Graph theory	55

14	23.11.2022	Ms. M. Muthuselvi	I BSc Mathematics	Application Of Analytical Geometry In Real Life	08
15	23.11.2022	Mrs. J.Radhalakshmi	II Bsc Biotech	Application of Statistics in Daily life	25
16	23.11.2022	Mrs. P.Jagadeeshwari	II BSc IT A	Applications of Operation Research	63
17	24.11.2022	Ms. M. Muthuselvi	I B.Sc CGS	Discrete Mathematics For Computer Science	51
18	24.11.2022	Mrs. VyshnaUnni	II B.Sc. CS- B	Solving LPP by using TORA	63
19	24.11.2022	Mr. M.V.Baladhandapani	I BSc IT - B	Graph theory and Applications	61
20	24.11.2022	Mrs. P.Jagadeeshwari	I BCA - B	Applications of Graph theory	63
21	26.11.2022	Mrs. S. S.Karunalakshmi	I BSc Mathematics	Applications of Group theory	13
22	28.11.2022	Mrs. S. S.Karunalakshmi	I BCA A	Applications of Graph theory	60
23	28.11.2022	Mr. M.V.Baladhandapani	I BSc AI & ML	Graph theory and Applications	58
24	29.11.2022	Mrs. S. S.Karunalakshmi	II BSc IT	Applications of Network	60
25	29.11.2022	Mr.M.V.Baladhandapani	II B.Sc.(CT)-A	Advantages and Disadvantages of CPM and PERT	57
26	29.112022	Mr.M.V.Baladhandapani	I BSc CS - C	Graph theory and Applications	57
27	02.03.2023	Mr. M.V. Baladhandapani	I B.Sc IT B	I B.Sc IT (B) - Applications of Linear Algebra	60
28	10.03.2023	Dr. K. Sasikala	I BSc IT A	I BSc IT A - Application of Interpolation	67
29	10.03.2023	Mrs. VyshnaUnni	I B.Sc CT B	I B.Sc CT- B - The Math Needed for Computer Technology	38
30	13.03.2023	Dr.M.Rajarajeswari	I B.Sc CS B	I B.Sc CS B - Numerical Methods for computer science.	45
31	16.03.2023	Mr. M.V. Baladhandapani	I B.Sc AI & ML	I B.Sc IT B Applications of Interpolation	60
32	20.03.2023	Mrs. J. Radhalakshmi	I B.Sc Maths	I B.Sc Maths – Application of Statistics in real life (ANOVA)	06
33	20.03.2023	Mrs. P.Jagadeeshwari	II B.ScMaths	II B.Sc Maths – Applications of Real Analysis	14

34	21.03.2023	Mrs. S.Karuna Lakshmi	I BCA A	I BCA A - Programme on network applications	52
35	21.03.2023	Mrs. P.Jagadeeshwari	I BCA B	I BCA B - Applications of Numerical methods	66
36	30.03.2023	Dr. D.Mallika	I BCA C	I BCA C - Application of Graph Theory in real life	56
37	03.04.2023	Mrs. VyshnaUnni	I B.Sc CS with CGS	I B.Sc CS with CGS - A Computer Science Perceptive on Graph Theory	40
38	19.04.2023	Ms. M.Subhashree	I B.Sc CS A	I B.Sc CS A - Application Numerical Methods in Various fields	45
39	19.04.2023	Mrs. S.Karuna Lakshmi	III B.Sc Maths	III B.ScMaths - Application of LPP	13
40	20.04.2023	Mrs. J. Radhalakshmi	II B.Sc Microbiology	II B.Sc Microbiology – Application of Mean, Median, Mode in Real life	40

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENT DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**01.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **M.SUBHASHREE** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level(Cognitive System)		
Title of the Event	**Nature and Scope of the Operation Research**		
Venue	**E-202**		
Resource Person/s Details (Affiliation and Designation)	**M.SUBHASHREE** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	Operational Research can be simply formulated as the science of rational decision-making along with the study of the synthesis of intricate problematic situations. Thus, the nature of operations research is purely scientific as it aims at determining the systematic behaviour and hence optimizing the results.		
Deliberations/ Discussions	1. Identifying a problem that needs to be solved. 2. Constructing a model around the problem that resembles the real world and variables. 3. Using the model to derive solutions to the problem. 4. Testing each solution on the model and analyzing its success. 5. Implementing the solution to the actual problem.		

Outcomes of the Event	The field of operations research provides a more powerful approach to decision making than ordinary software and data analytics tools. Employing operations research professionals can help companies achieve more complete datasets, consider all available options, predict all possible outcomes and estimate risk.
Remarks and Feedback on the Event	This event held with interest
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	50

Image of the Event Brochure

Photographs of Event

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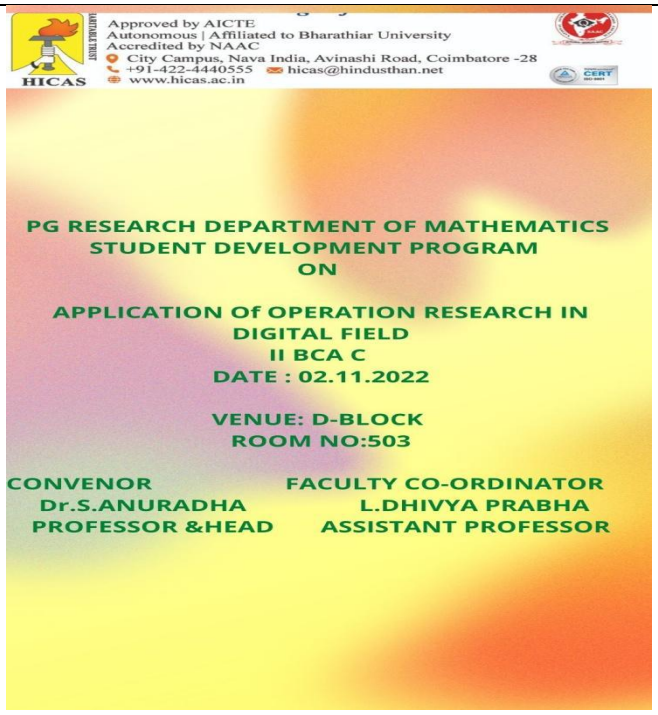
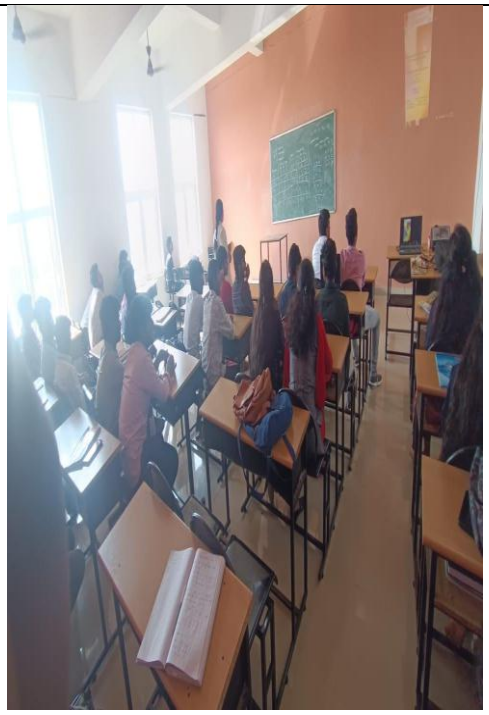
Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	PG & Research Department of Mathematics		
Date/s	02.11.2022	**No. of Day/s**	1

Convenor and Coordinator Details	Convenor Dr S. ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science . Coimbatore. Co-ordinator Mrs. L.DHIVYA PRABHA , Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.
Stratum of the Event (Regional, State, National, International)	DEPARTMENT LEVEL –COMPUTER APPLICATION
Title of the Event	Application of Operation Research In Digital Field
Venue	D-BLOCK ROOM NO:503
Resource Person/s /Faculty Incharge Details (Affiliation and Designation)	Mrs. L.DHIVYA PRABHA , Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore
Scope of the Event	Students were able to know the Applications of Operation Research In Digital Field
Deliberations/ Discussions	The Student Development Programme was about Practical approach of Operation Research In Digital Field
Outcomes of the Event	The purpose of the programe was to make the students to know about concept of Operation Research.
Remarks and Feedback on the Event	The Programe was interactive and the discussion revealed the applications of Operation Research in real life.

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	43

Image of the Event Brochure	**Photographs of Event**
	

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Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**Student Development Program**		
Name of Department/ Cell/ Club	Mathematics		
Date/s	07.11.2022	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** : Dr. S.Anuradha, Professor & Head, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore. **Coordinator:** Mrs. R.Mohana Priya, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level - II BCA (B)		
Title of the Event	**Interesting facts about Mathematics**		
Venue	Room No : D - 502		
Resource Person/Faculty In-Charge /s Details(Affiliation and Designation)	**Faculty In-Charge Details** : Mrs. R.Mohana Priya, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Scope of the Event	Students were able to know the Real time applications of Mathematics.		
Deliberations/Discussions	➢ The purpose of the programme was to make the students to know about basic concepts of Mathematics. ➢ The Programme was interactive and the discussion revealed the different ideas of Mathematics in real life. ➢ This Programme inculcated interest in Mathematics among the students.		
Outcomes of the Event	Students gained the Knowledge of various interesting concepts and applications of Mathematics and also its usage in daily life.		

Remarks and Feedback on the Event	Students enjoyed the session and felt the event was Excellent.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	46

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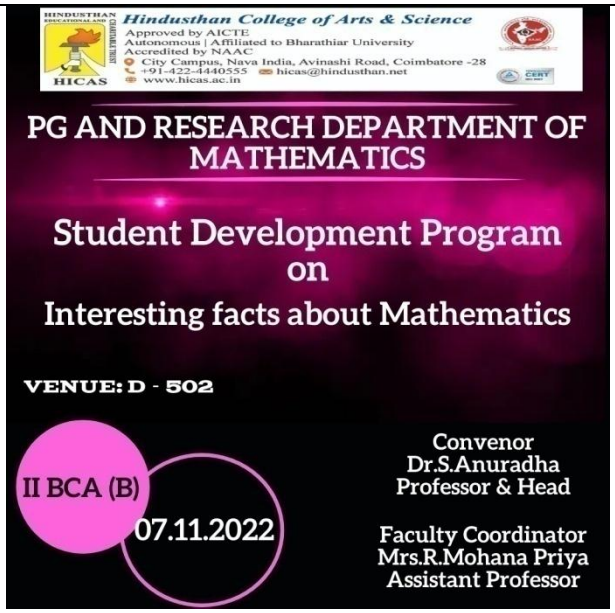	

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HICAS/MAT/No.23

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	PG & Research Department of Mathematics		
Date/s	**08.11.22**	**No. of Day/s**	One
Convenor and Coordinator Details	**Dr.S.Anuradha** Head & Professor PG & Research Department of Mathematics Hindusthan College of Arts and Science Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level		
Title of the Event	Application of Graph Theory in real life		
Venue	Room No: D402		
Resource Person/s Details(Affiliation and Designation)	Dr.D.Mallika Associate Professor PG and Research Department of Mathematics Hindusthan College of Arts and Science Coimbatore.		
Scope of the Event	Graph theory provides a helpful tool to quantify & simplify the many moving parts of dynamic systems. Graphs are widely used in businesses. The use of graphs in daily life also helps in making an analysis. It provides structure in assessing performances, sales, and even deadlines.		
Deliberations/Discussions	Google maps uses graphs for building transportation systems, where intersection of two(or more) roads are considered to be a vertex and the road connecting two vertices is considered to be an edge, thus their navigation system is based on the algorithm to calculate the shortest path between two vertices. Some other applications of graph theory are Airline Scheduling, Directions in a map ,Solving Sudoku's puzzles, Search Engine Algorithms Social Media Marketing , in designing of circuit connections and Linguistics etc.		
Outcomes of the Event	Students enjoyed the session and discussed more applications in daily life.		
Remarks and Feedback on the Event	Students felt that they gain more knowledge about applications of graph theory in daily life.		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	56

Image of the Event Brochure	**Photographs of Event**

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HICAS/MAT/No.24

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	SDP		
Name of Department/ Cell/ Club	Mathematics		
Date	9.11.2022	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** : Dr. S.Anuradha, Professor & Head Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore. **Coordinator:** Dr.K.Sasikala, Associate Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BSc IT - A		
Title of the Event	Real life Application of Relation		
Venue	D - 301		
Resource Person/Faculty In- Charge /s Details(Affiliation and Designation)	**Faculty In- Charge Details** : Dr.K.Sasikala, Associate Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Scope of the Event	Students were able to know the Applications of Relation		
Deliberations/Discussions	• The Sdp was about Application of Discrete Mathematics in Real Life. • The purpose of the program was to make the students to know about concept of relation like, In day to day life we use lots of unit converters - length, weight, temperatures, volume, area, time etc ., in all these conversions, different combinations of functions are used • The Program was interactive and the discussion revealed the applications of Relation in real life. **Video Link:** Relations - Discrete Mathematics		

	https://youtu.be/FI6j5QZNVx0 Functions - Discrete Mathematics https://youtu.be/OixshZzH8t0 Identifying Relations and Functions https://youtu.be/3BmYm5lbzkk
Outcomes of the Event	Students gained the Knowledge of various applications in this area and also its usage in daily life.
Remarks and Feedback on the Event	Students enjoyed the session and felt the event was Excellent.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	65

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HICAS/MAT/No.25

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	PG & Research Department of Mathematics		
Date/s	**10.11.22**	**No. of Day/s**	One
Convenor and Coordinator Details	**Dr.S.Anuradha** Head & Professor PG & Research Department of Mathematics Hindusthan College of Arts and Science Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level		
Title of the Event	Application of Graph Theory in real life		
Venue	Room No: D206		
Resource Person/s Details(Affiliation and Designation)	Dr.D.Mallika Associate Professor PG and Research Department of Mathematics Hindusthan College of Arts and Science Coimbatore.		
Scope of the Event	Graph theory **provides a helpful tool to quantify & simplify the many moving parts of dynamic systems**. Graphs are widely used in businesses. The use of graphs in daily life also **helps in making an analysis**. It provides structure in assessing performances, sales, and even deadlines.		
Deliberations/Discussions	Google maps uses graphs for building transportation systems, where intersection of two(or more) roads are considered to be a vertex and the road connecting two vertices is considered to be an edge, thus their navigation system is based on the algorithm to calculate the shortest path between two vertices. Some other applications of graph theory are Airline Scheduling, Directions in a map ,Solving Sudoku's puzzles, Search Engine Algorithms Social Media Marketing , in designing of circuit connections and Linguistics etc.		
Outcomes of the Event	Students enjoyed the session and discussed more applications in daily life.		

Remarks and Feedback on the Event	Students felt that they gain more knowledge with interesting applications graph theory in real life.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	52

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	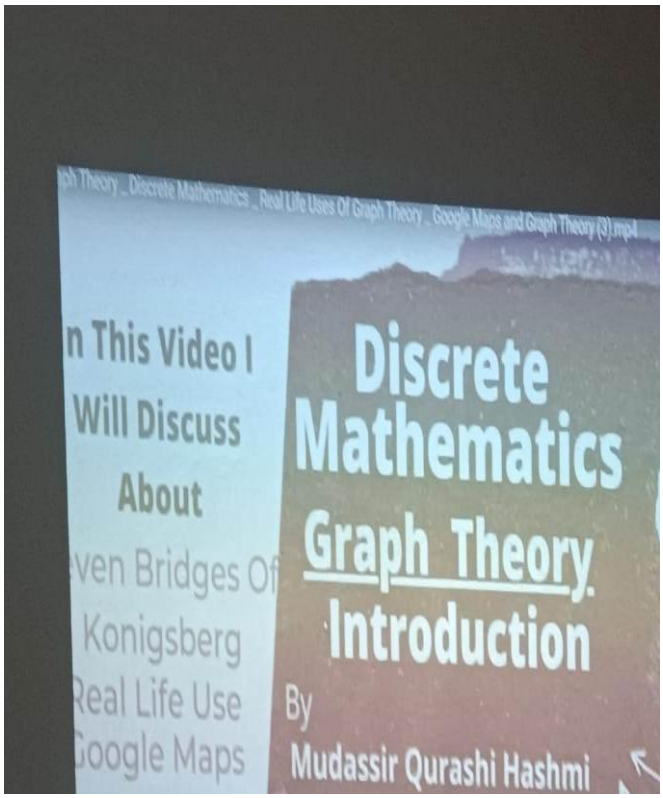

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Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**21.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Mrs. VYSHNA UNNI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – II BCA-A		
Title of the Event	**Some Fascinating Applications of Linear Programming**		
Venue	**D 401**		
Resource Person/s Details (Affiliation and Designation)	**Mrs. VYSHNA UNNI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	There are varied applications of Linear Programming. Some of the areas where this technique is used are: Agriculture, Manufacturing, Transportation, Energy, Health care, Military operations, Economics etc.		
Deliberations/ Discussions	Discussion about the some interesting applications of Linear programming in various real life scenarios was discussed.		
Outcomes of the Event	Students are enjoyed the session and encouraged to extend the work in their respective fields with various optimization Techniques.		

Remarks and Feedback on the Event	The students are attracted into the various kinds of optimization techniques in day life situations.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	45

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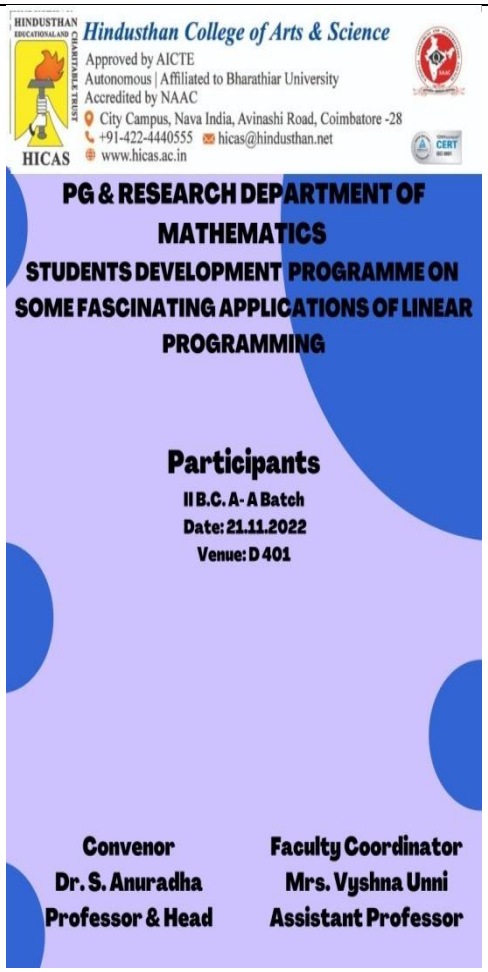	

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Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	PG & Research Department of Mathematics		
Date/s	21.11.2022	**No. of Day/s**	1

Convenor and Coordinator Details	Convenor Dr S. ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science . Coimbatore. Co-ordinator Mrs.P.JAGADEESHWARI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.
Stratum of the Event (Regional, State, National, International)	DEPARTMENT LEVEL – MATHEMATICS
Title of the Event	Application of Discrete Mathematics
Venue	A-BLOCK
Resource Person/s /Faculty Incharge Details (Affiliation and Designation)	Mrs. P.JAGADEESHWARI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore
Scope of the Event	Students were able to know the Applications of Discrete Mathematics.
Deliberations/ Discussions	The Student Development Programme was about Practical approach of Discrete Mathematics.
Outcomes of the Event	The purpose of the programe was to make the students to know about concept of Discrete Mathematics. .

Remarks and Feedback on the Event	The Programe was interactive and the discussion revealed the Applications of Discrete Mathematics.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	14

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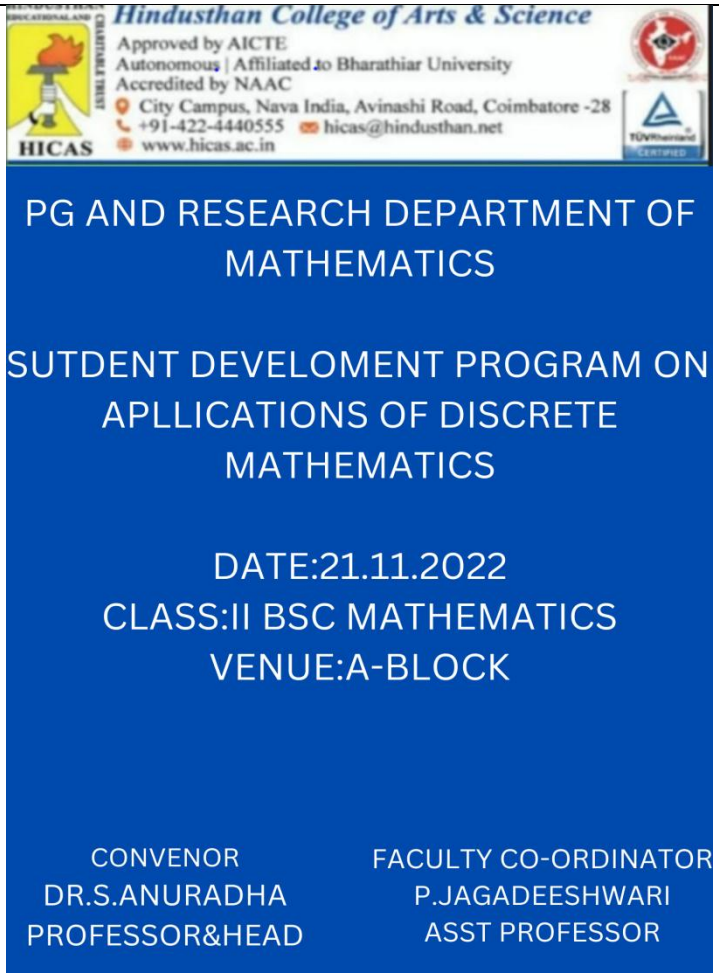	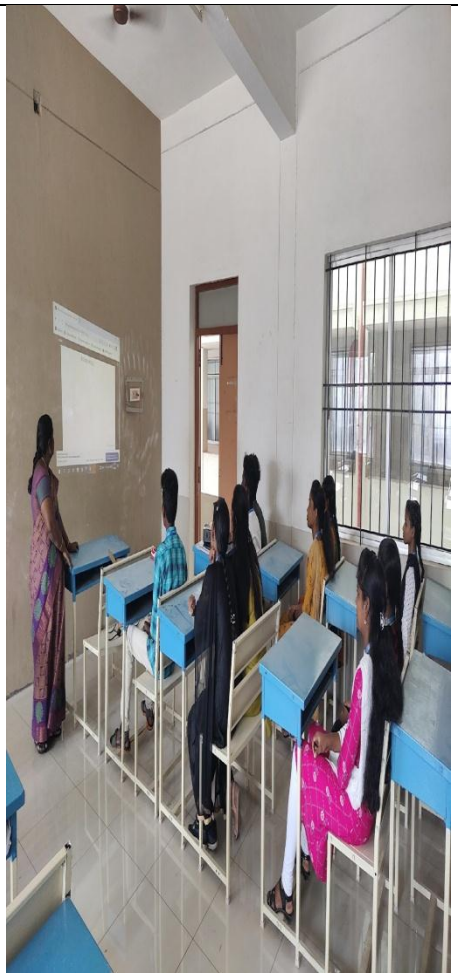

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HICAS/MAT/No.31

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)		**STUDENT DEVELOPMENT PROGRAMME**	
Name of Department/ Cell/ Club		**PG & Research Department of Mathematics**	
Date/s	**21.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details		**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **M.SUBHASHREE** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.	
Stratum of the Event (Regional, State, National, International)		Department Level(I B.Sc CS A)	
Title of the Event		**Real Life Applications of Graph theory**	
Venue		**C-401**	
Resource Person/s Details (Affiliation and Designation)		**M.SUBHASHREE** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.	
Scope of the Event		Graph theory is used in organic chemistry, solid state physics and statistical mechanics, electrical engineering (communication networks and coding theory), optimization theory and operations research.	
Deliberations/ Discussions		1. Graph theory are widely used in network connections of social media. 2. Graph theory are widely used in google map . 3. Graph theory are widely used addressing route problem	
Outcomes of the Event		• Circuit analysis is an application of graphs • Network traffic routing is an application of graphs. • Planning tools (tasks with start and end times and dependencies are) use directed graphs	

Remarks and Feedback on the Event	This event held with interest
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	55

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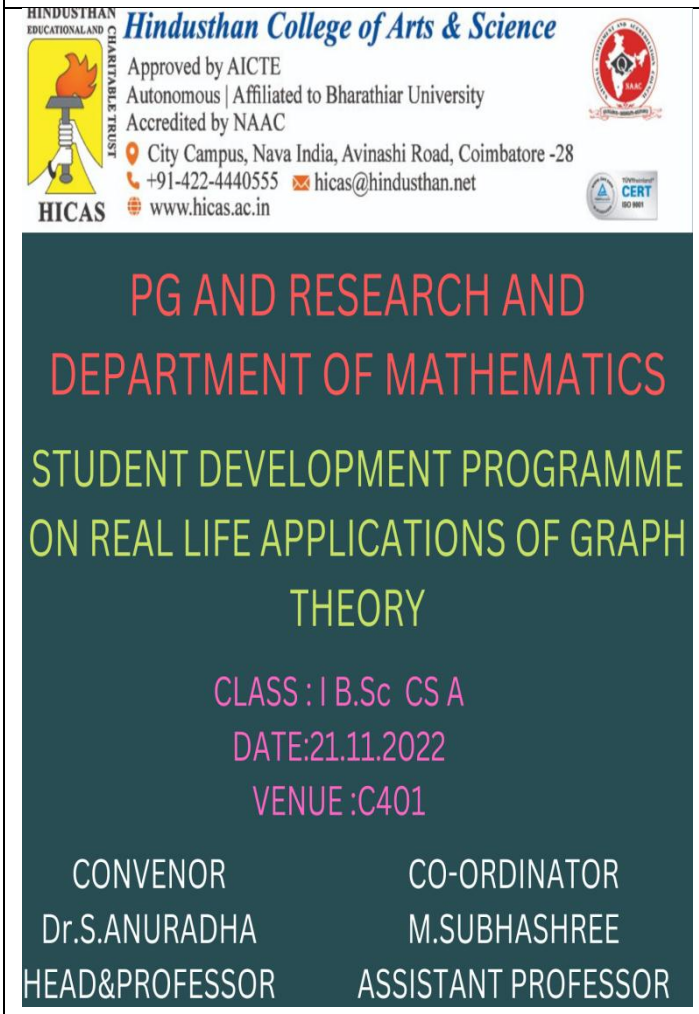	 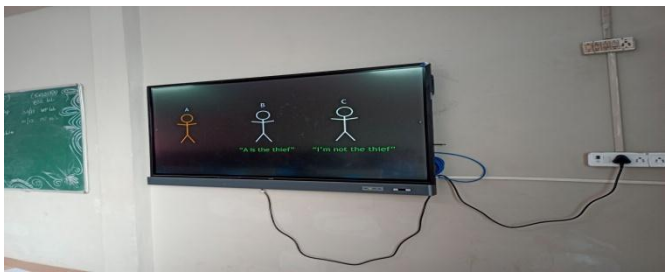

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Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**22.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Dr.M.RAJARAJESWARI** Associate Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BSc CS B		
Title of the Event	**MATHEMATICAL THINKING IN COMPUTER SCIENCE**		
Venue	**C402**		
Resource Person/s Details (Affiliation and Designation)	**Dr.M.RAJARAJESWARI** Associate Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	The importance of the Mathematical thinking is crucial in all areas of computer science : Algorithms, bio informatics, computer graphics, data science, machine learning, etc.		
Deliberations/ Discussions	Discussion about the applications of Discrete Mathematics , Graph theory applications in various fields in computer science.		

Outcomes of the Event	Students enjoyed the session and discussed more applications of Discrete Maths, functions , Graph theory
Remarks and Feedback on the Event	The students gained knowledge in Mathematical foundation in computer science.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	52

Image of the Event Brochure

Photographs of Event

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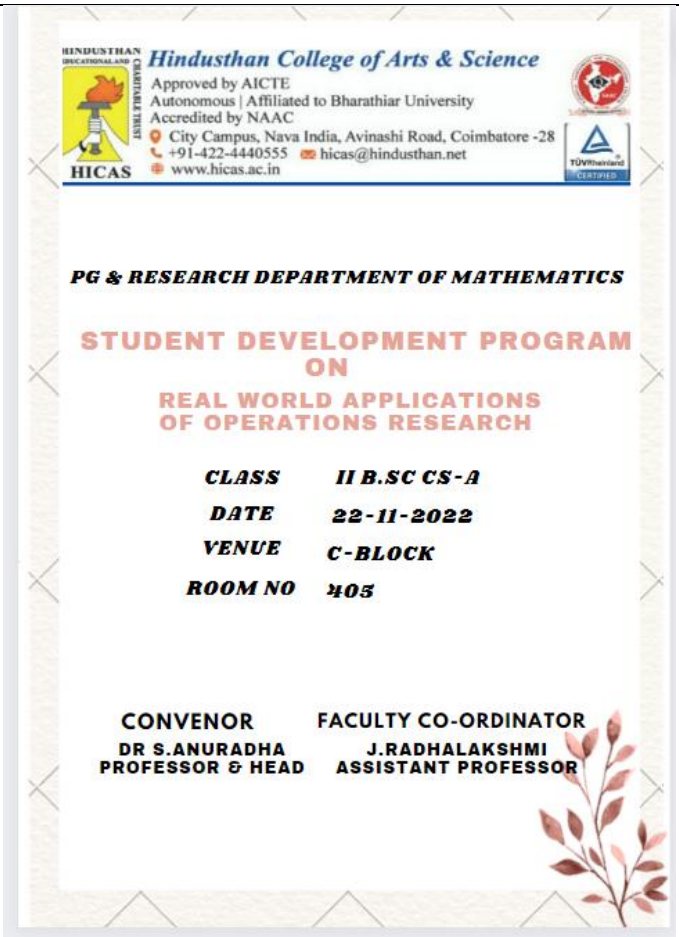
Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**22.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Mrs. J.RADHALAKSHMI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – II B.Sc CS (A)		
Title of the Event	**Real World Applications of Operations Research**		
Venue	**C- BLOCK 405**		
Resource Person/s Details (Affiliation and Designation)	**Mrs. J.RADHALAKSHMI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	Its purpose is to give administration a basis for predicting quantitatively the most effective results of an operation under a given set of variable conditions and thereby to provide a sound basis for decision-making.		
Deliberations/ Discussions	Discussion about some applications of Operations Research in various fields like • Assignment of jobs to applicants to maximise profit or minimise total cost • Shortest route problems like travelling salesperson problem • Finance management problem • Queuing problems		

Outcomes of the Event	Students know Operations Research is an excellent and a must have tool for every organisation to take an environmentally and economically sound decision pertaining to the current scenario.
Remarks and Feedback on the Event	The Programme was interactive and the discussion revealed real world applications of operation research.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	60

Image of the Event Brochure



Photographs of Event

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HICAS/MAT/No.38

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	SDP		
Name of Department/ Cell/ Club	Mathematics		
Date/s	22.11.2022	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** : Dr. S.Anuradha, Professor & Head Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore. **Coordinator:** Mrs. Y.Angelpriya, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level (Computer Technology) – II B.Sc.(CT)-'B'		
Title of the Event	Advantage and dis-advantage of CPM&PERT		
Venue	D-208		
Resource Person/Faculty In- Charge /s Details(Affiliation and Designation)	**Faculty In- Charge Details** : Mrs. Y.Angelpriya, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Scope of the Event	Students were able to know the Advantages of Mathematics in real life		
Deliberations/Discussions	• The Sdp was about Advantages of Mathematics in real life. • The purpose of the programe was to make the students to know abou advantages and dis-advantages of CPM & PERT methods Problems in Industries. • The Programe was interactive and the discussion revealed the Advantages of Mathematics in real life **Video Link:** Mathematics In Our World https://youtu.be/zGk66R_hMZ4		

Outcomes of the Event	Students gained the Knowledge of various applications in this area and also its usage in daily life.
Remarks and Feedback on the Event	Students enjoyed the session and felt the event was Excellent.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	45

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HICAS/MAT/No.39

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)		**STUDENT DEVELOPMENT PROGRAMME**	
Name of Department/ Cell/ Club		**PG & Research Department of Mathematics**	
Date/s	**21.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details		**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **M.SUBHASHREE** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.	
Stratum of the Event (Regional, State, National, International)		Department Level – I B.Sc CT B	
Title of the Event		**Real Life Applications of Graph theory**	
Venue		**D-207**	
Resource Person/s Details (Affiliation and Designation)		**M.SUBHASHREE** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.	
Scope of the Event		Graph theory is used in organic chemistry, solid state physics and statistical mechanics, electrical engineering (communication networks and coding theory), optimization theory and operations research.	
Deliberations/ Discussions		1. Graph theory are widely used in network connections of social media. 2. Graph theory are widely used in google map . 3. Graph theory are widely used addressing route problem	
Outcomes of the Event		• circuit analysis is an application of graphs • Network traffic routing is an application of graphs. • Planning tools (tasks with start and end times and dependencies are) use directed graph	

Remarks and Feedback on the Event	This event held with interest
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	55
Image of the Event Brochure	**Photographs of Event**

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HICAS/MAT/No.40

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	Department of Mathematics		
Date/s	**23.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor:** Dr S. ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science . Coimbatore. **Co-ordinator:** Ms. M. MUTHUSELVI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	DEPARTMENT LEVEL – I B.Sc MATHEMATICS		
Title of the Event	**APPLICATION OF ANALYTICAL GEOMETRY IN REAL LIFE**		
Venue	A - 217		
Resource Person/s /Faculty Incharge Details (Affiliation and Designation)	Ms. M. MUTHUSELVI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	The Scope of the Event is Students should gain knowledge in application of Analytic geometry is used in physics and engineering, and also in aviation, rocketry, space science, and spaceflight. It is the foundation of most modern fields of geometry, including algebraic, differential, discrete and computational geometry..		
Deliberations/ Discussions	In this Session deliberate about 1. The importance of analytic geometry is that it establishes a correspondence between geometric curves and algebraic equations. 2. The study of analytic geometry is important as it gives the knowledge for the next level of mathematics. It is the traditional way of learning the logical thinking and the problem solving skills.		

Outcomes of the Event	The program objective is student should realize Analytic geometry is used in physics and engineering, and also in aviation, rocketry, space science, and spaceflight. It is the foundation of most modern fields of geometry, including algebraic, differential, discrete and computational geometry.
Remarks and Feedback on the Event	Students are truly impressed and enjoy the session.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	08

Image of the Event Brochure	**Photographs of Event**

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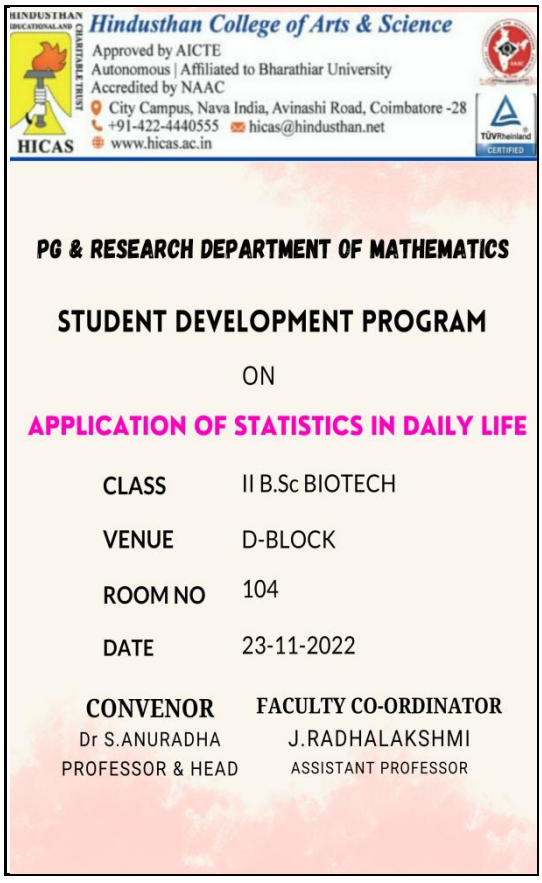
HICAS/MAT/No.41

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	Department of Mathematics		
Date/s	23.11.2022	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor:** Dr S. ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science. Coimbatore. **Co-ordinator:** Mrs. J.RADHALAKSHMI Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	DEPARTMENT LEVEL **BIOTECHNOLOGY**		
Title of the Event	**Application of Statistics in Daily Life**		
Venue	D-BLOCK ROOM NO:D-104		
Resource Person/s /Faculty Incharge Details (Affiliation and Designation)	Mrs. J.RADHALAKSHMI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	Students were able to know the Applications of Statistics in Daily life.		
Deliberations/ Discussions	The Student Development Programme was about Practical Application of Statistics in Daily life such as Business, Economics, Physical Science, Research, Natural Science, Marketing, Purchase		

Outcomes of the Event	The purpose of the programme was to make the students know about the concept of Statistics. Statistical methods are used by governmental bodies, private business firms and research agencies as an indispensable aid in i) Forecasting ii) Controlling iii) Exploring etc.,
Remarks and Feedback on the Event	The Programme was interactive and the discussion revealed the applications of Statistics in real life.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	25
Image of the Event Brochure	**Photographs of Event**



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HICAS/MAT/No.43

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	PG & Research Department of Mathematics		
Date/s	23.11.2022	**No. of Day/s**	1
Convenor and Coordinator Details	Convenor Dr S. ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science . Coimbatore. Co-ordinator Mrs.P.JAGADEESHWARI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	DEPARTMENT LEVEL – MATHEMATICS		
Title of the Event	Application of Operations Research		
Venue	D-BLOCK		
Resource Person/s /Faculty Incharge Details (Affiliation and Designation)	Mrs. P.JAGADEESHWARI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	Students were able to know the Applications of Operations Research.		
Deliberations/ Discussions	The Student Development Programme was about Practical approach of Operations Research.		
Outcomes of the Event	The purpose of the programe was to make the students to know about concept of Operations Research.		
Remarks and Feedback on the Event	The Programe was interactive and the discussion revealed the Applications of Operations Research		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	63

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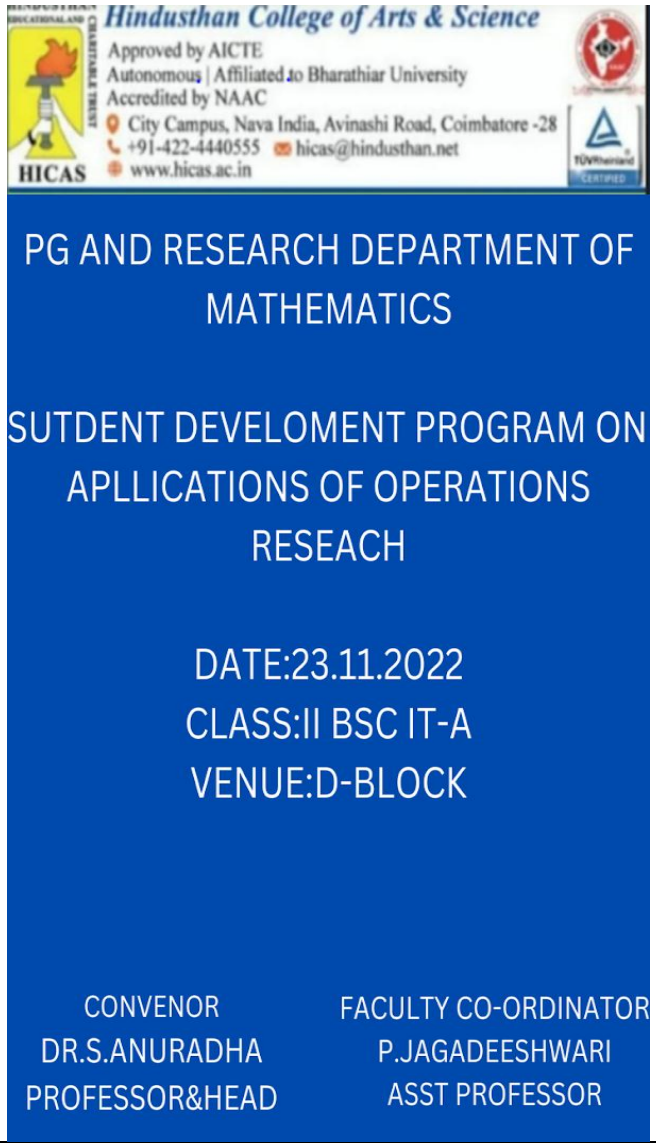
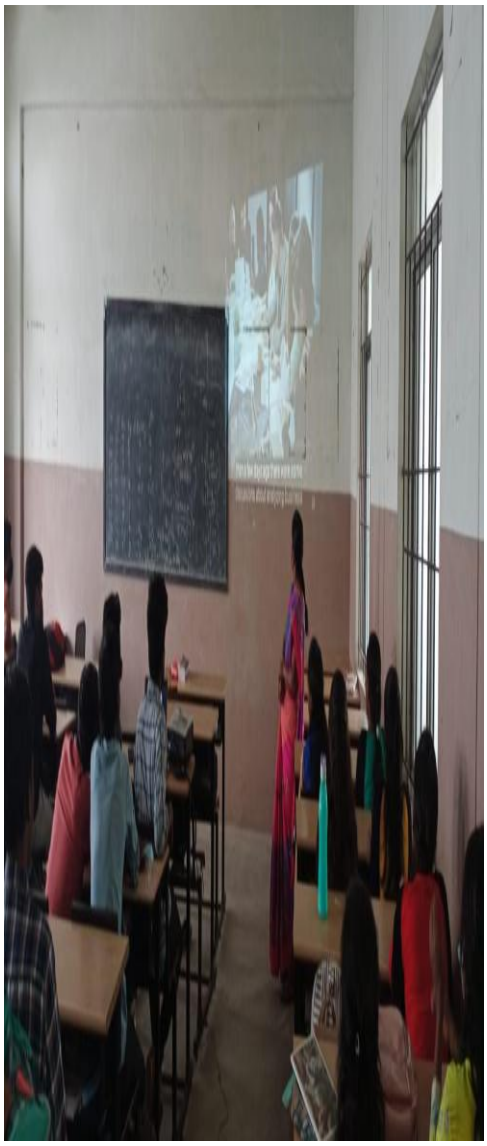


Photographs of Event



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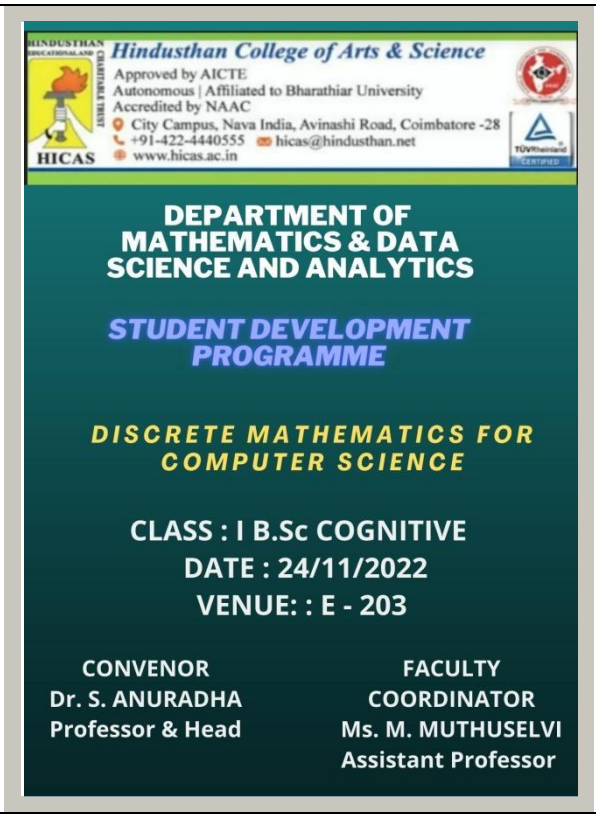
Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	Department of Mathematics		
Date/s	**24.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor:** Dr S. ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science . Coimbatore. **Co-ordinator:** Ms. M. MUTHUSELVI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	DEPARTMENT LEVEL – I B.Sc CGS		
Title of the Event	**DISCRETE MATHEMATICS FOR COMPUTER SCIENCE**		
Venue	E - 203		
Resource Person/s /Faculty Incharge Details (Affiliation and Designation)	Ms. M. MUTHUSELVI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	The Scope of the Event is Many areas of computer science require the ability to work with concepts from discrete mathematics, specifically material from such areas as set theory, logic, graph theory, combinatorics.		
Deliberations/ Discussions	1. Discrete Mathematics is fundamental to computer science which is the science behind software engineering. 2. Application of Discrete Mathematics in Algorithms, Computer Architecture, Computer Systems, Databases, Distributed Systems, Functional Programing, Machine Learning, Networks, Computer Security, and Operating Systems. are discussed in this session.		

Outcomes of the Event	The program objective is student should realize Discrete Mathematics is the backbone of Computer Science and Concepts & notations from discrete mathematics are useful in studying and describing objects and problems in all branches of computer science, such as computer algorithms, programming languages, cryptography, automated theorem proving, and software development.
Remarks and Feedback on the Event	Students are truly impressed and enjoy the session.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	51

Image of the Event Brochure	**Photographs of Event**
	

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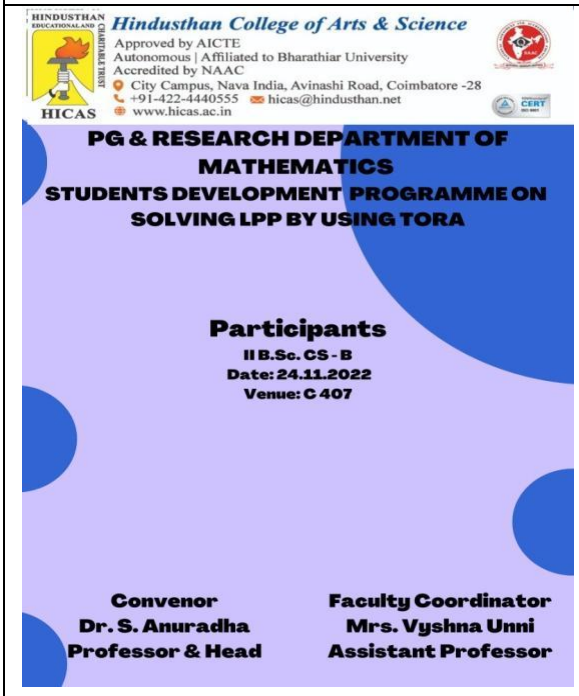
HICAS/MAT/No.45

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**24.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Mrs. VYSHNA UNNI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – II B.Sc. CS- B		
Title of the Event	**Solving LPP by using TORA**		
Venue	**C 407**		
Resource Person/s Details (Affiliation and Designation)	**Mrs. VYSHNA UNNI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	TORA package is a computer application software package used for statistical computation and analysis. It is basically applied for operations research analysis. TORA optimization window is a graphical user interface. This is what makes it unique from statistical packages that have spreadsheet windows.		
Deliberations/ Discussions	We discussed the solution of some linear programming problems with TORA		
Outcomes of the Event	TORA can be used to solve problems in tutorial mode and automated mode. The tutorial mode is particularly useful because it allows concentration on the main concepts of the algorithms while relieving the user of the burden of the tedious computations that generally characterize OR.		
Remarks and Feedback on the Event	The students are attracted into TORA and encouraged to learn about that more.		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	33

Image of the Event Brochure	**Photographs of Event**
	

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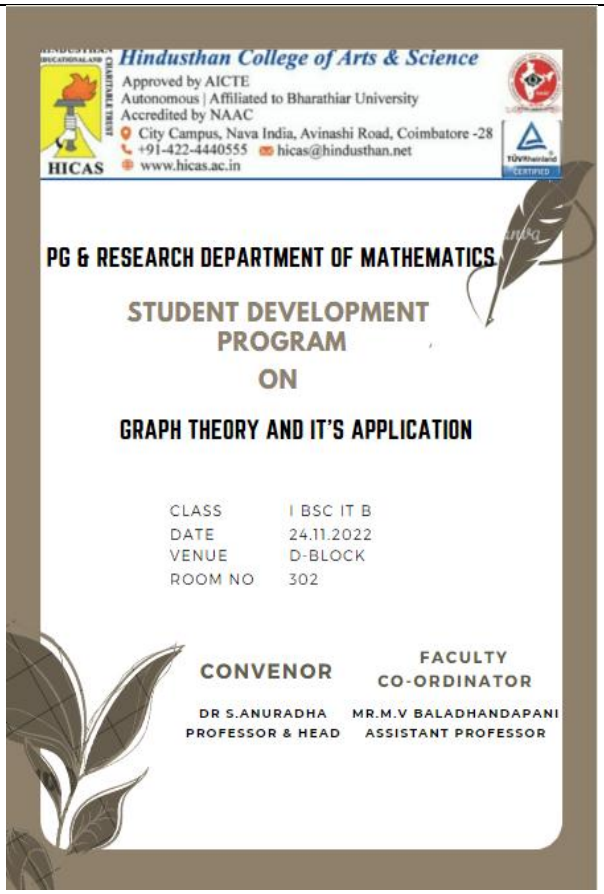
HICAS/MAT/No.46

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENT DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**24.11.2022**	**No. of Day/s**	1

Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.
Stratum of the Event (Regional, State, National, International)	Department Level
Title of the Event	**Graph theory and Applications**
Venue	**D-302**
Resource Person/s Details (Affiliation and Designation)	Assistant Professor **M.V.BALADHANDAPANI** Department of Mathematics Hindusthan College of Arts and Science.
Scope of the Event	Graph theory is used in organic chemistry, solid state physics and statistical mechanics, electrical engineering (communication networks and coding theory), optimization theory and operations research.
Deliberations/ Discussions	1. Graph theory are widely used in network connections of social media. 2. Graph theory are widely used in google map . 3. Graph theory are widely used addressing route problem
Outcomes of the Event	• circuit analysis is an application of graphs • Network traffic routing is an application of graphs. • Planning tools (tasks with start and end times and dependencies are) use directed graphs

Remarks and Feedback on the Event	This event held with interest
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	61

Image of the Event Brochure	**Photographs of Event**
	

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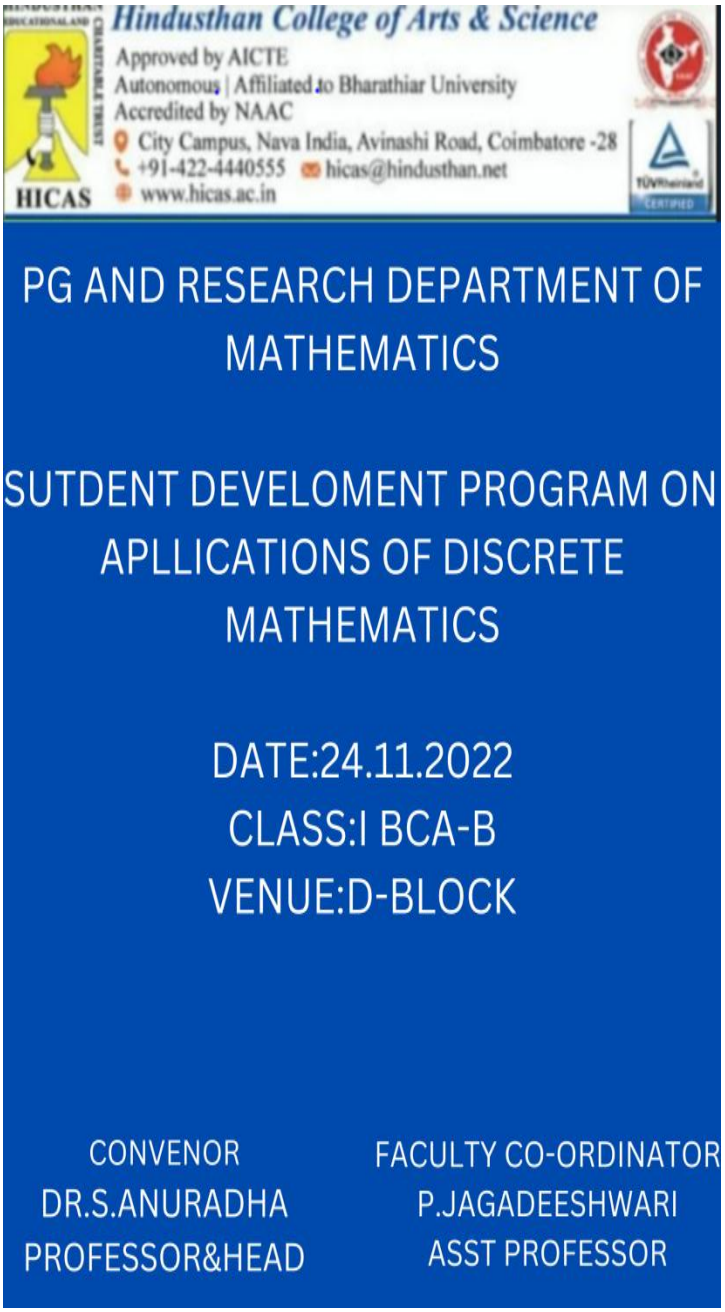
HICAS/MAT/No.47

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	PG & Research Department of Mathematics		
Date/s	24.11.2022	**No. of Day/s**	1
Convenor and Coordinator Details	Convenor Dr S. ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science . Coimbatore. Co-ordinator Mrs.P.JAGADEESHWARI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	DEPARTMENT LEVEL – MATHEMATICS		
Title of the Event	Application of Graph theory		
Venue	D-BLOCK		
Resource Person/s /Faculty Incharge Details (Affiliation and Designation)	Mrs. P.JAGADEESHWARI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	Students were able to know the Applications of Graph theory.		
Deliberations/ Discussions	The Student Development Programme was about Practical approach of Graph theory		
Outcomes of the Event	The purpose of the programe was to make the students to know about concept of Graph theory.		
Remarks and Feedback on the Event	The Programe was interactive and the discussion revealed the Applications of Graph theory		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	63

Image of the Event Brochure	**Photographs of Event**
	

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Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**26.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **S.KARUNALAKSHMI** Assitant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – II MATHEMATICS		
Title of the Event	**Applications of Group theory**		
Venue	**A 218**		
Resource Person/s Details (Affiliation and Designation)	**S.KARUNALAKSHMI** Assitant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	To Study about the real time applications of Group theory		
Deliberations/ Discussions	Discussion about the applications of Group theory		
Outcomes of the Event	Students enjoyed the session and discussed more applications.		
Remarks and Feedback on the Event	The students gained knowledge in the applications.		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	13
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Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**28.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **S.KARUNALAKSHMI** Assitant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BCA A		
Title of the Event	**Applications of Graph theory**		
Venue	**D 318**		
Resource Person/s Details (Affiliation and Designation)	**S.KARUNALAKSHMI** Assitant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	To Study about the real time applications of **Graph theory**		
Deliberations/ Discussions	Discussion about the applications of **Graph theory**		
Outcomes of the Event	Students enjoyed the session and discussed more applications.		
Remarks and Feedback on the Event	The students gained knowledge in the applications.		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	60
Image of the Event Brochure	**Photographs of Event**

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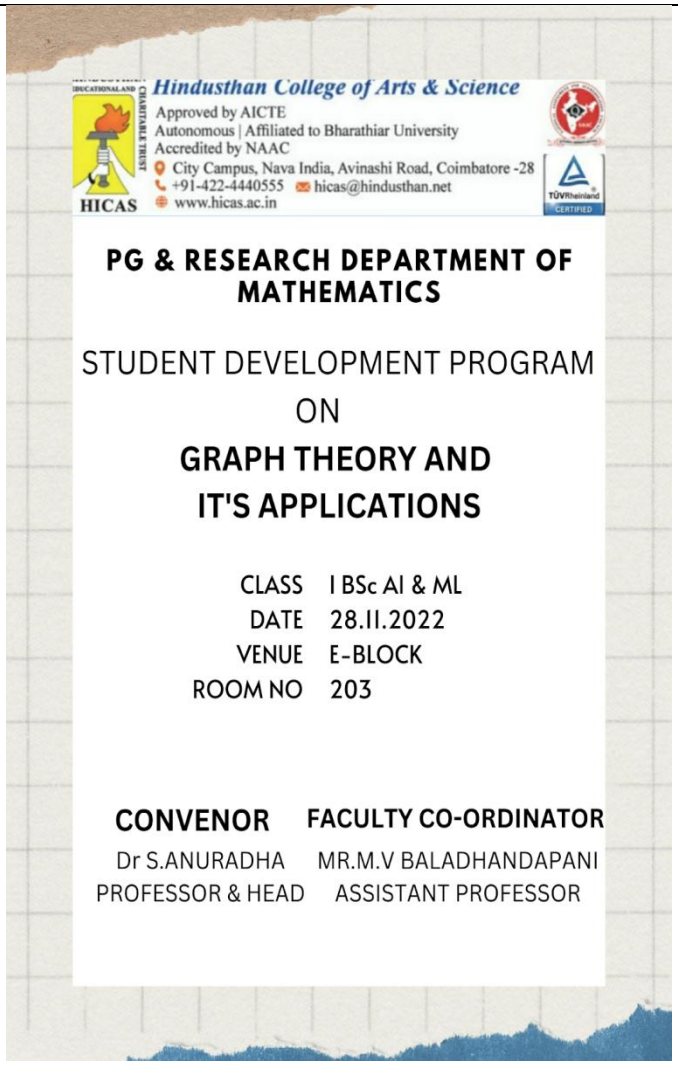
HICAS/MAT/No.52

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)		**STUDENTS DEVELOPMENT PROGRAMME**	
Name of Department/ Cell/ Club		**PG & Research Department of Mathematics**	
Date/s	**28.11.2022**	**No. of Day/s**	1

Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.
Stratum of the Event (Regional, State, National, International)	Department Level
Title of the Event	**Graph theory and Applications**
Venue	**E-203**
Resource Person/s Details (Affiliation and Designation)	Assistant Professor **M.V.BALADHANDAPANI** Department of Mathematics Hindusthan College of Arts and Science.
Scope of the Event	Graph theory is used in organic chemistry, solid state physics and statistical mechanics, electrical engineering (communication networks and coding theory), optimization theory and operations research.
Deliberations/ Discussions	1. Graph theory are widely used in network connections of social media. 2. Graph theory are widely used in google map . 3. Graph theory are widely used addressing route problem
Outcomes of the Event	• circuit analysis is an application of graphs • Network traffic routing is an application of graphs. • Planning tools (tasks with start and end times and dependencies are) use directed graphs

Remarks and Feedback on the Event	This event held with interest
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	58

Image of the Event Brochure



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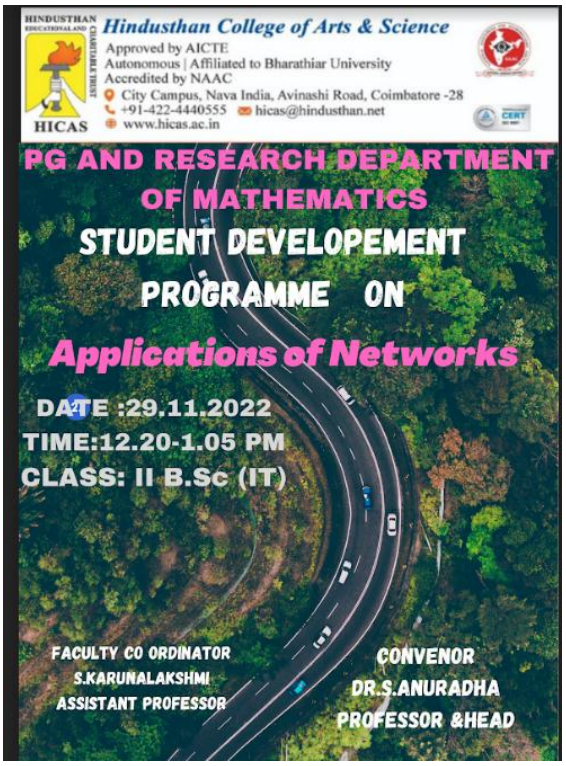
Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**29.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **S.KARUNALAKSHMI** Assitant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – II MATHEMATICS		
Title of the Event	**Applications of Network**		
Venue	**D 202**		
Resource Person/s Details (Affiliation and Designation)	**S.KARUNALAKSHMI** Assitant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	To Study about the real time applications of Networks by using PERT		
Deliberations/ Discussions	Discussion about the applications of Networks by using PERT		

Outcomes of the Event	Students enjoyed the session and discussed more applications.
Remarks and Feedback on the Event	The students gained knowledge in the applications.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	60
Image of the Event Brochure	**Photographs of Event**
	

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HICAS/MAT/No.55

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	SDP		
Name of Department/ Cell/ Club	Mathematics		
Date/s	29.11.2022	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** : Dr. S.Anuradha, Professor & Head Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore. **Coordinator:** Mr.M.V.Baladhandapani, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level (Computer Technology) – II B.Sc.(CT)-'A'		
Title of the Event	Advantage and dis-advantage of CPM&PERT		
Venue	D-208		
Resource Person/Faculty In-Charge /s Details(Affiliation and Designation)	**Faculty In- Charge Details** : Mr.M.V.Baladhandapani, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Scope of the Event	Students were able to know the Advantages of Mathematics in real life		
Deliberations/Discussions	• The Sdp was about Advantages of Mathematics in real life. • The purpose of the programme was to make the students know about advantages and dis-advantages of CPM & PERT methods Problems in Industries. • The Programme was interactive and the discussion revealed the Advantages of Mathematics in real life **Video Link:** Mathematics In Our World https://youtu.be/zGk66R_hMZ4		
Outcomes of the Event	Students gained the Knowledge of various applications in this area and also its usage in daily life.		

Remarks and Feedback on the Event	Students enjoyed the session and felt the event was Excellent.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	57

Image of the Event Brochure	**Photographs of Event**

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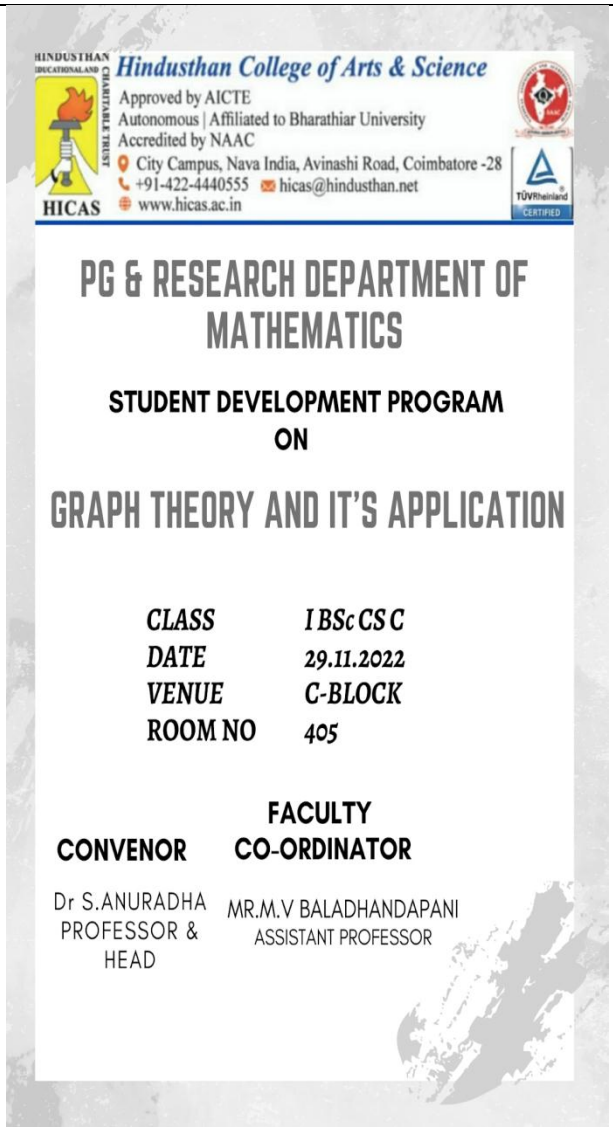
HICAS/MAT/No.56

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENT DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**PG & Research Department of Mathematics**		
Date/s	**29.11.2022**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level		
Title of the Event	**Graph theory and Applications**		
Venue	**C-405**		
Resource Person/s Details (Affiliation and Designation)	Assistant Professor **M.V.BALADHANDAPANI** Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	Graph theory is used in organic chemistry, solid state physics and statistical mechanics, electrical engineering (communication networks and coding theory), optimization theory and operations research.		
Deliberations/ Discussions	1. Graph theory are widely used in network connections of social media. 2. Graph theory are widely used in google map . 3. Graph theory are widely used addressing route problem		

Outcomes of the Event	• circuit analysis is an application of graphs • Network traffic routing is an application of graphs. • Planning tools (tasks with start and end times and dependencies are) use directed graphs
Remarks and Feedback on the Event	This event held with interest
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	57
Image of the Event Brochure	**Photographs of Event**



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HICAS/MAT/No.67

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**Department of Mathematics**		
Date	**02.03.2023**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Mr.M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BSC IT B		
Title of the Event	**APPLICATIONS OF LINEAR ALGEBRA**		
Venue	**D BLOCK**		
Resource Person/s Details (Affiliation and Designation)	**Mr.M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	The importance of the Linear algebra, use to solve problems in various types.		
Deliberations/ Discussions	Discussion about the applications of in Linear algebra in Real life		
Outcomes of the Event	Students enjoyed the session and discussed more applications of Linear algebra		
Remarks and Feedback on the Event	The students gained knowledge in Linear algebra		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	60

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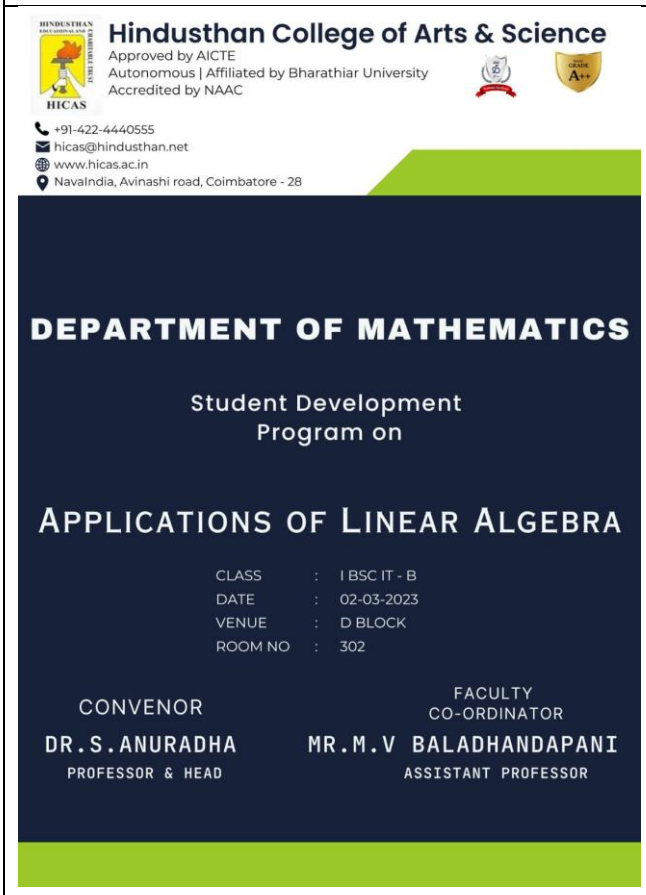	

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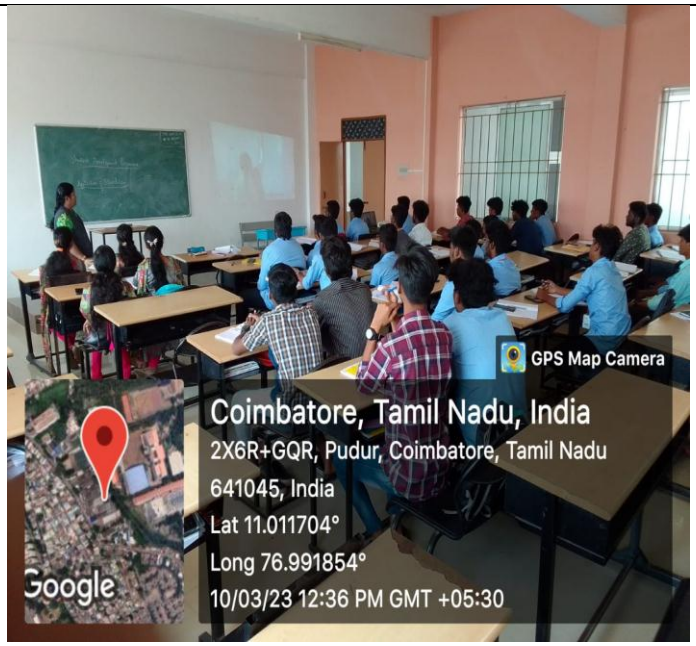
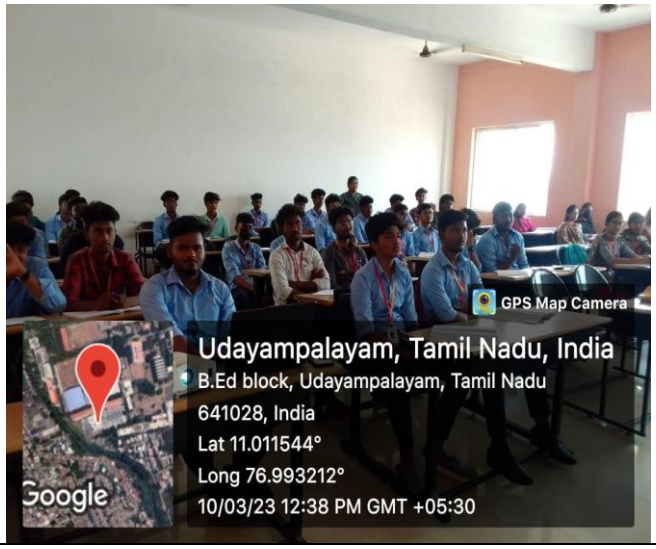
Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	Mathematics		
Date	10.03.2023	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** : Dr. S.Anuradha, Professor & Head Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore. **Coordinator:** Dr.K.Sasikala, Associate Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BSc IT - A		
Title of the Event	Application of Interpolation.		
Venue	D - 301		
Resource Person/Faculty In-Charge /s Details(Affiliation and Designation)	**Faculty In- Charge Details** : Dr.K.Sasikala, Associate Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Scope of the Event	Students were able to know the interpolation is a tool that is used in machine learning.		
Deliberations/Discussions	➢ The SDP was about Application of interpolation. It is a handy tool for predicting trends and other patterns in data. ➢ The purpose of the program was to make the students to know about concept of interpolation. In engineering and science obtained by sampling or experimentation, of independent variable. It is required to interpolate. ➢ The Program was interactive and the discussion revealed the interpolation of data. **Video Link:** **Numerical Methods for Engineers** **https://youtu.be/LaolbjAzZvg** **Interpolation Formula -Newton Forward & Backward** https://youtu.be/Aw6LvaPtESE **Newton's forward interpolation formula in numerical methods** https://youtu.be/TIWRyzzFUYQ		

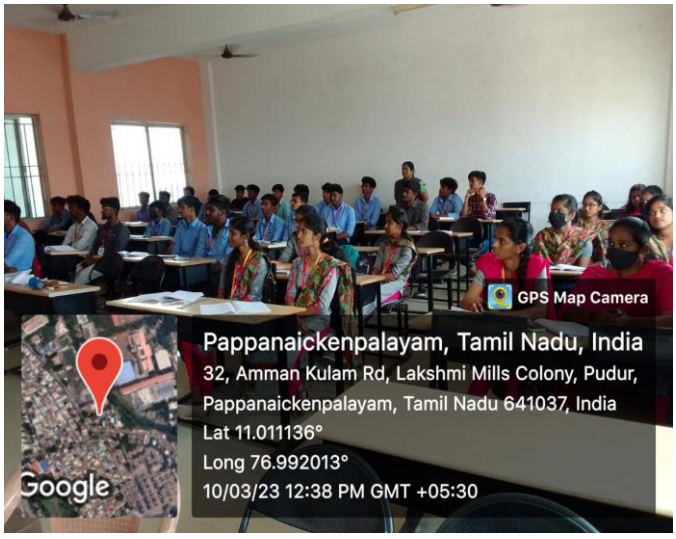
Outcomes of the Event	Students gained the Knowledge of various applications in this area.
Remarks and Feedback on the Event	Students enjoyed the session and felt the event was Excellent.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	67 students

Image of the Event Brochure

Photographs of Event







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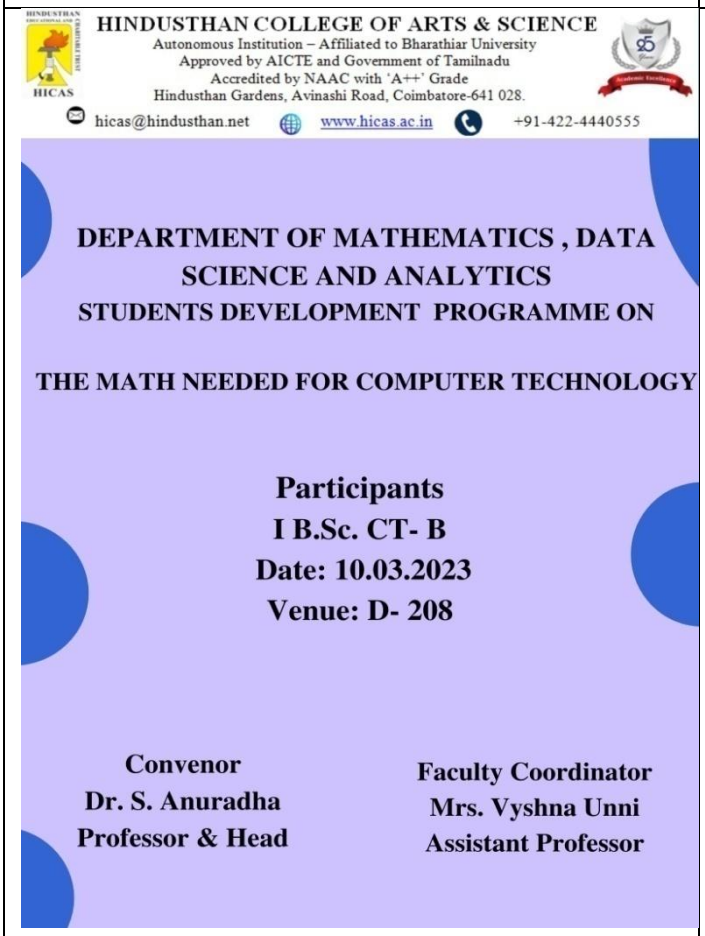
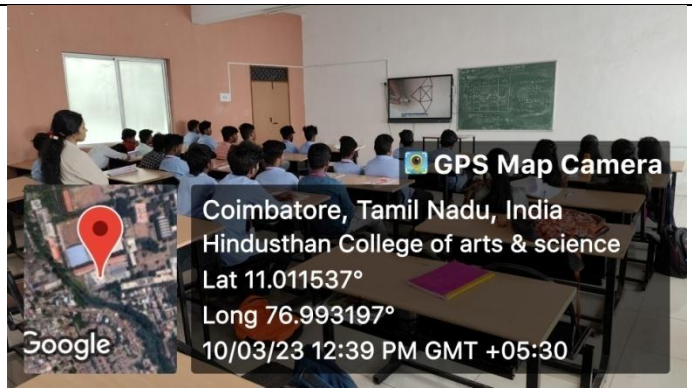
HICAS/MAT/No.73

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	SDP		
Name of Department/ Cell/ Club	Mathematics		
Date/s	10.03.2023	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** : Dr. S.Anuradha, Professor & Head Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore. **Coordinator:** Mrs. Vyshna Unni, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level (Computer Technology) – I B.Sc CT- B		
Title of the Event	The Math Needed for Computer Technology		
Venue	D-208		
Resource Person/Faculty In- Charge /s Details(Affiliation and Designation)	**Faculty In- Charge Details** : Mrs. Vyshna Unni, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Scope of the Event	Students are motivated to extend their studies in mathematical oriented software and related topics.		
Deliberations/Discussions	Computer science majors have learnt a different kind of math compared to most other majors. This program deeply entered in to the students knowledge that mathematical network theory is playing a major role in the theory of comports and programming languages. Video Link: https://youtu.be/eSFA1Fp8jcU		

Outcomes of the Event	Students obtain knowledge about different kind of mathematical applications in computer Technology.
Remarks and Feedback on the Event	Students enjoyed the session and felt the event was Excellent.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	38

Image of the Event Brochure	**Photographs of Event**
	

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HICAS/MAT/No. 75

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**Department of Mathematics**		
Date/s	**13.03.2023**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Dr.M.RAJARAJESWARI** Associate Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BSc CS B		
Title of the Event	**Numerical Methods for Computer Science**		
Venue	**C402**		
Resource Person/s Details (Affiliation and Designation)	**Dr.M.RAJARAJESWARI** Associate Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	The importance of the Numerical Methods is the use of computers to solve problems involving real numbers.		
Deliberations/ Discussions	Discussion about the applications of Numerical Methods in the field of Computer science with the solution of Algebraic and Transcendal equations, simultaneous equations, Interpolation, Numerical Differentiation and Integration etc.		
Outcomes of the Event	Students enjoyed the session and discussed more applications of Numerical Methods		

Remarks and Feedback on the Event	The students gained knowledge in Mathematical foundation in computer science.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	45

Image of the Event Brochure	**Photographs of Event**

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HICAS/MAT/No.85

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**Department of Mathematics**		
Date	**16.03.2023**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Mr.M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BSC IT B		
Title of the Event	**APPLICATIONS OF INTERPOLATION**		
Venue	**E BLOCK**		
Resource Person/s Details (Affiliation and Designation)	**Mr.M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	The importance of the Interpolation , use to solve problems in various types.		
Deliberations/ Discussions	Discussion about the applications of Interpolation		
Outcomes of the Event	Students enjoyed the session and discussed more applications of Interpolation		

Remarks and Feedback on the Event	The students gained knowledge in applications of Interpolation
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	60

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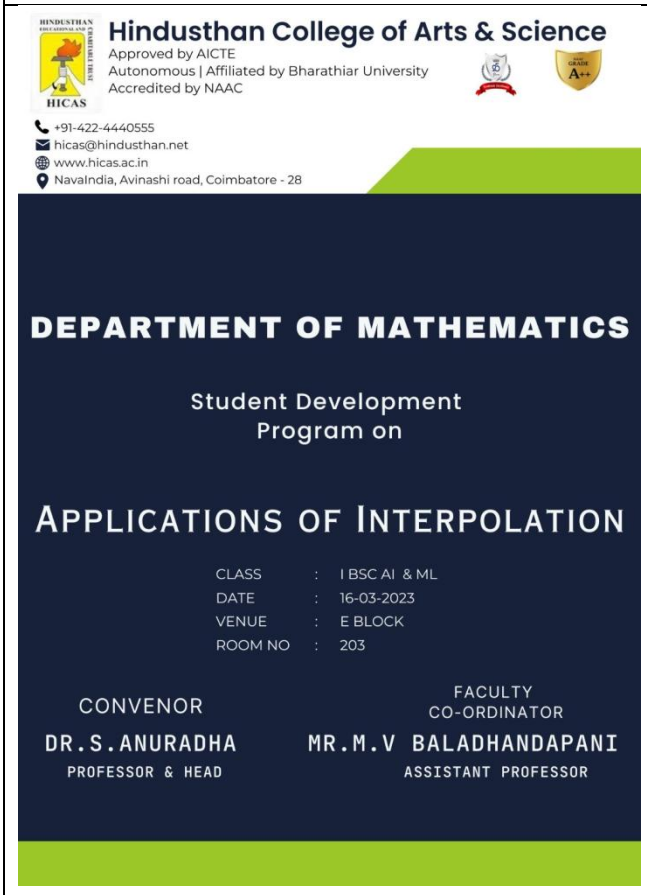	

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HICAS/MAT/ No. 88

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	Department of Mathematics		
Date/s	**20.03.2023**	**No. of Day/s**	One
Convenor and Coordinator Details	Convenor : Dr.S.ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science. Coimbatore. Coordinators: Mrs.J.Radhalakshmi Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department level		
Title of the Event	Application of Statistics in daily life(ANOVA)		
Venue	A- Block Room No. A-216		
Resource Person/s/ Faculty Incharge Details (Affiliation and Designation)	Mrs. J.RADHALAKSHMI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	Students were able to know the Applications of Statistics in Daily life.		
Deliberations/Discussions	Students learned how to calculate F-ratio and use simple strategies to analyze the variance.		

Outcomes of the Event	The purpose of the programme was to make the students know about the concept of Analysis of Variance (ANOVA). The one-way analysis of variance is used to determine whether there are any statistically significant differences between the means of three or more independent unrelated groups.
Remarks and Feedback on the Event	The Programme was interactive and the discussion revealed the applications of Statistics in real life.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	06

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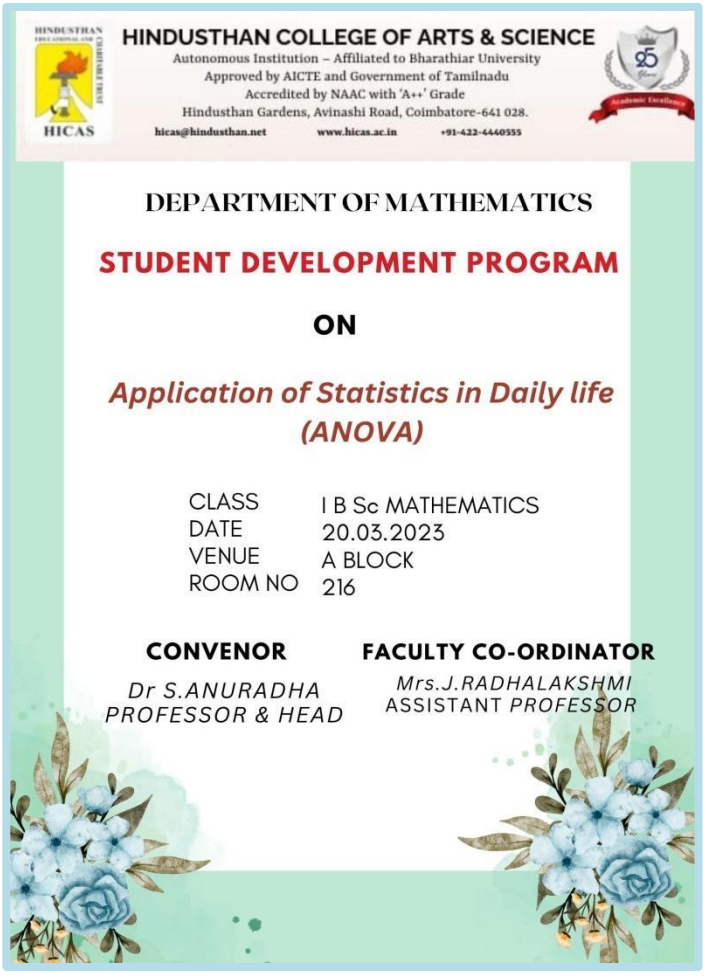

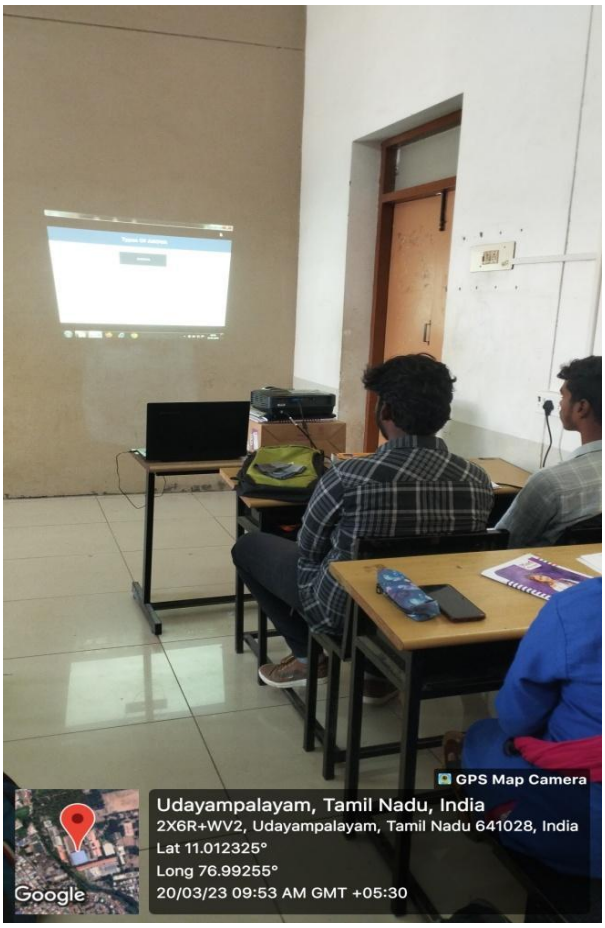

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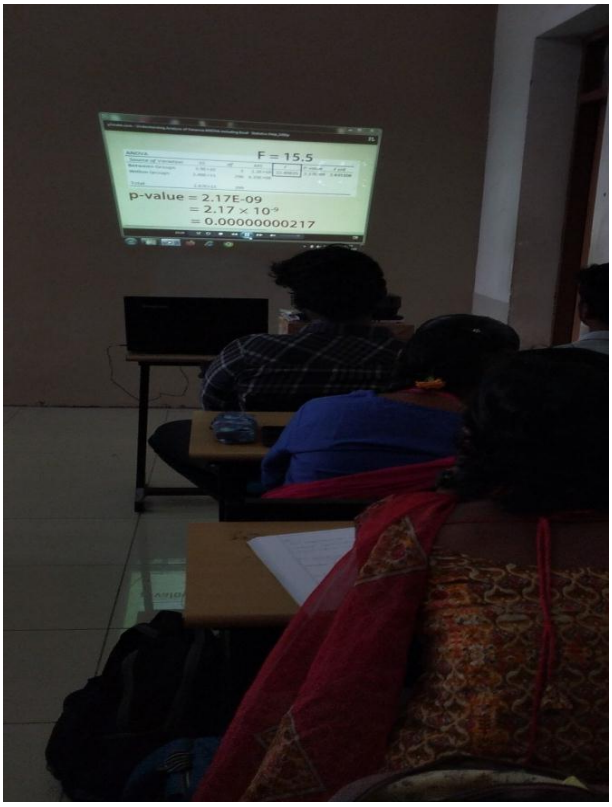
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HICAS/MAT/ No. 90

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**Department of Mathematics**		
Date	**20.03.2023**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **P.JAGADEESHWARI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – II BSc MATHEMATICS		
Title of the Event	**APPLICATIONS OF REAL ANALYSIS**		
Venue	**A BLOCK**		
Resource Person/s Details (Affiliation and Designation)	**P.JAGADEESHWARI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	The importance of the Real analysis , use to solve problems involving real numbers.		
Deliberations/ Discussions	Discussion about the applications of Real Analysis in Real life		
Outcomes of the Event	Students enjoyed the session and discussed more applications of Real analysis		
Remarks and Feedback on the Event	The students gained knowledge in Mathematical analysis		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	14

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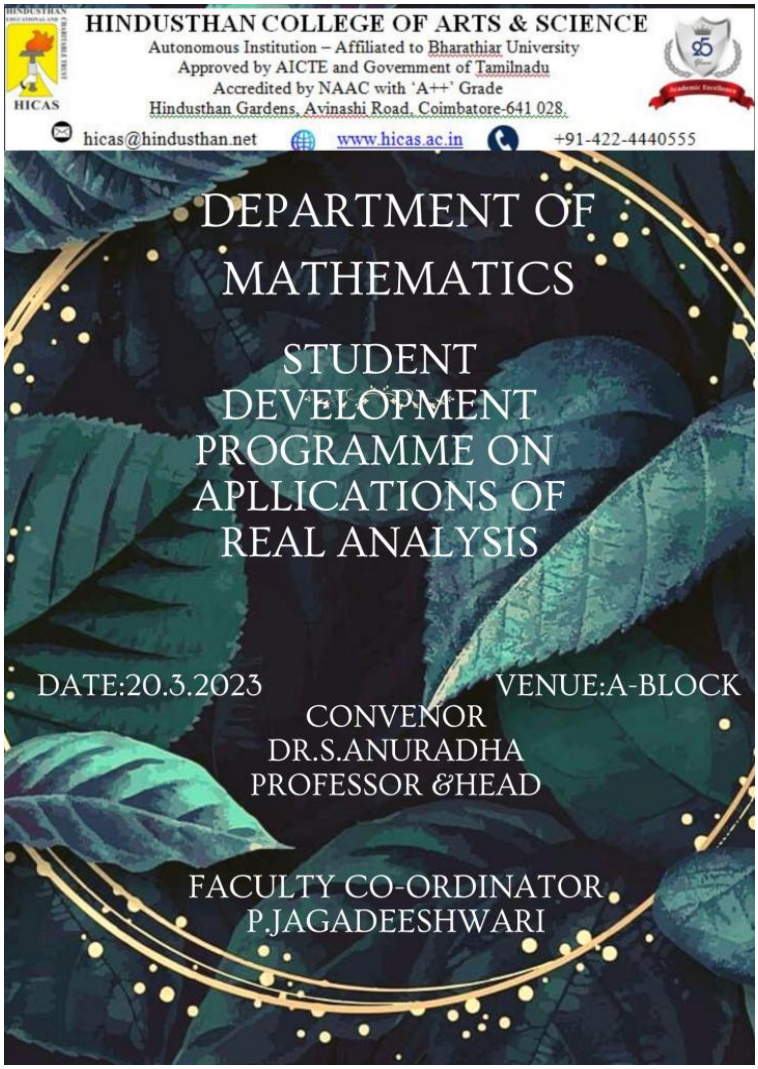	

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HICAS/MAT/No.93

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	Department of Mathematics		
Date/s	**21.03.2023**	**No. of Day/s**	One
Convenor and Coordinator Details	**Convenor :** Dr.S.ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science. Coimbatore. **Coordinators:** Mrs.S.KARUNALAKSHMI Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department level		
Title of the Event	PROGRAMME ON NETWORK APPLICATIONS		
Venue	B Block Room No. A-401		
Resource Person/s/ Faculty Incharge Details (Affiliation and Designation)	Mrs.S.KARUNALAKSHMI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	Students were able to know about the Networks.		
Deliberations/Discussions	Students learned what are the real time applications of Networks		
Outcomes of the Event	The purpose of the programme was to make the students know about the concept of Network and its real time applications		
Remarks and Feedback on the Event	The Programme was interactive and the discussion revealed the applications of Network		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	52

Image of the Event Brochure	Photographs of Event

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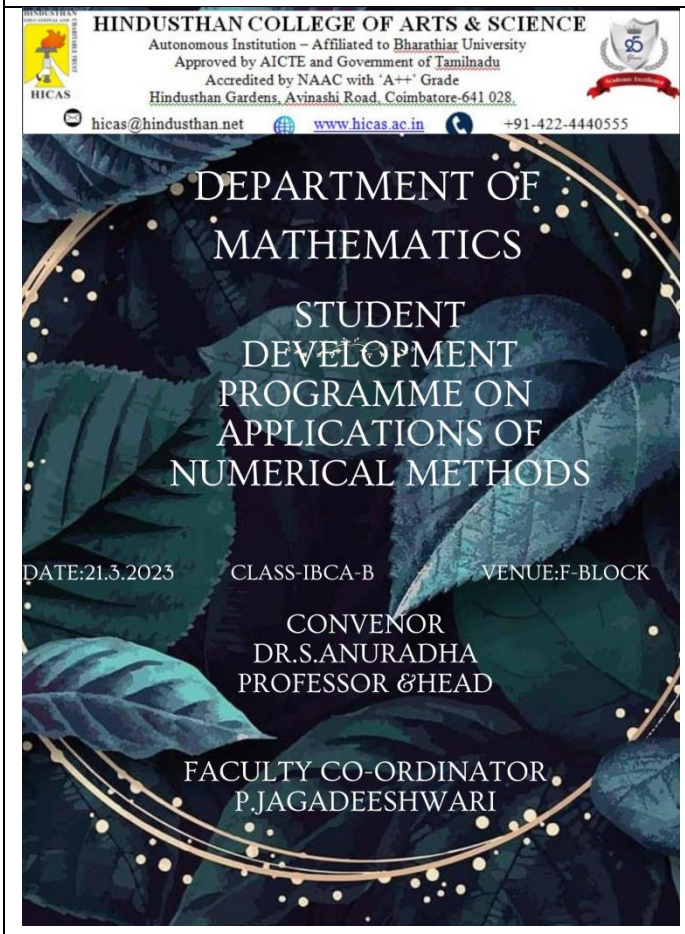
HICAS/MAT/No.94

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**Department of Mathematics**		
Date	**21.03.2023**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **P.JAGADEESHWARI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BCA-B		
Title of the Event	**APPLICATIONS OF NUMERICAL METHODS**		
Venue	**D BLOCK**		
Resource Person/s Details (Affiliation and Designation)	**P.JAGADEESHWARI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	The importance of the Numerical methods , use to solve problems involving in real life .		
Deliberations/ Discussions	Discussion about the applications of Numerical methods in Real life		
Outcomes of the Event	Students enjoyed the session and discussed more applications of Numerical methods		
Remarks and Feedback on the Event	The students gained knowledge in Mathematical analysis of Numerical methods		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	66

Image of the Event Brochure	**Photographs of Event**
	

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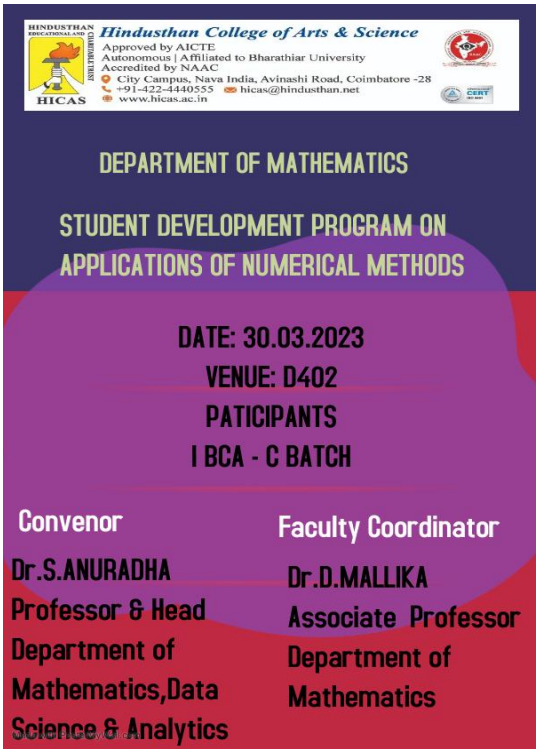
HICAS/MAT/No.98

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	PG & Research Department of Mathematics		
Date/s	**30.03.2023**	**No. of Day/s**	One
Convenor and Coordinator Details	**Dr.S.Anuradha** Head & Professor PG & Research Department of Mathematics Hindusthan College of Arts and Science Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level		
Title of the Event	Application of Graph Theory in real life		
Venue	Room No: D402		
Resource Person/s Details(Affiliation and Designation)	Dr.D.Mallika Associate Professor PG and Research Department of Mathematics Hindusthan College of Arts and Science Coimbatore.		
Scope of the Event	It is widely used for **forecasting and predicting in the field of machine learning**. Solving differential and integral equations: Most mathematical models (particularly in engineering) are based on the solutions obtained by partial differential equations, ordinary differential equations and integral equations.		
Deliberations/Discussions	Numerical Methods use computers **to solve problems by step-wise, repeated and iterative solution methods, which would otherwise be tedious or unsolvable by hand-calculations**. This course is designed to give an overview of numerical methods of interest to scientists and engineers.		
Outcomes of the Event	Students enjoyed the session and discussed more applications in daily life.		
Remarks and Feedback on the Event	Students felt that they gain more knowledge about applications of numerical methods in daily life.		
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	56		
Image of the Event Brochure		**Photographs of Event**	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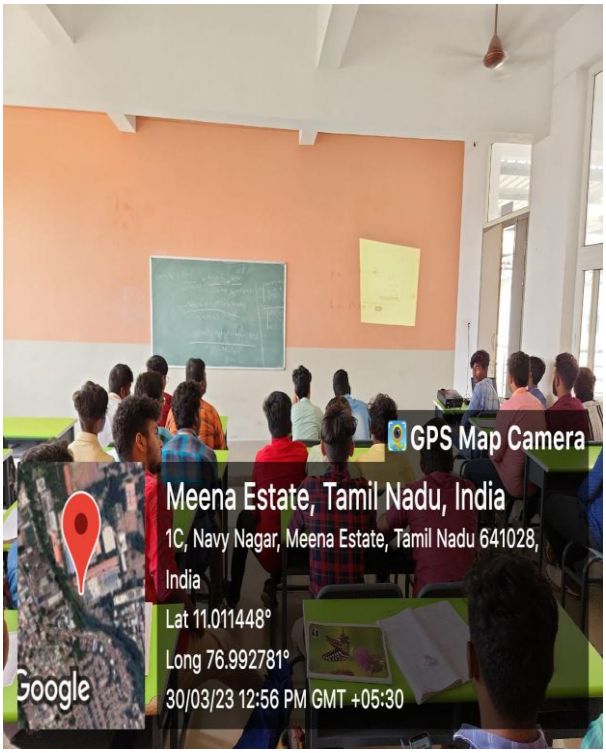
HICAS
DEPARTMENT OF MATHEMATICS
STUDENT DEVELOPMENT PROGRAM ON
APPLICATIONS OF NUMERICAL METHODS
DATE: 30.03.2023
VENUE: D402
PATICIPANTS
I BCA - C BATCH
Convenor
Dr.S.ANURADHA
Professor & Head
Department of
Mathematics,Data
Science & Analytics
Faculty Coordinator
Dr.D.MALLIKA
Associate Professor
Department of
Mathematics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1C, Navy Nagar, Meena Estate, Tamil Nadu 641028, India
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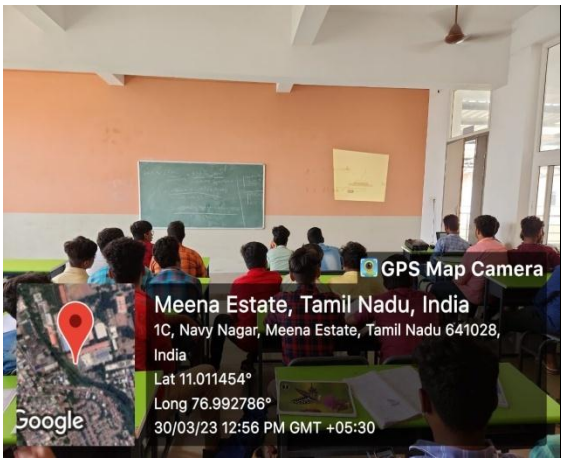
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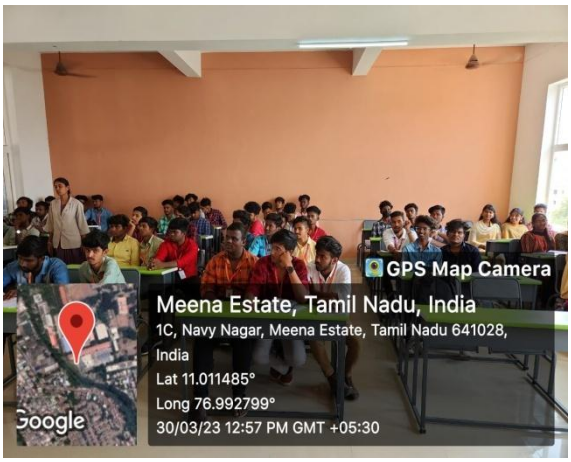
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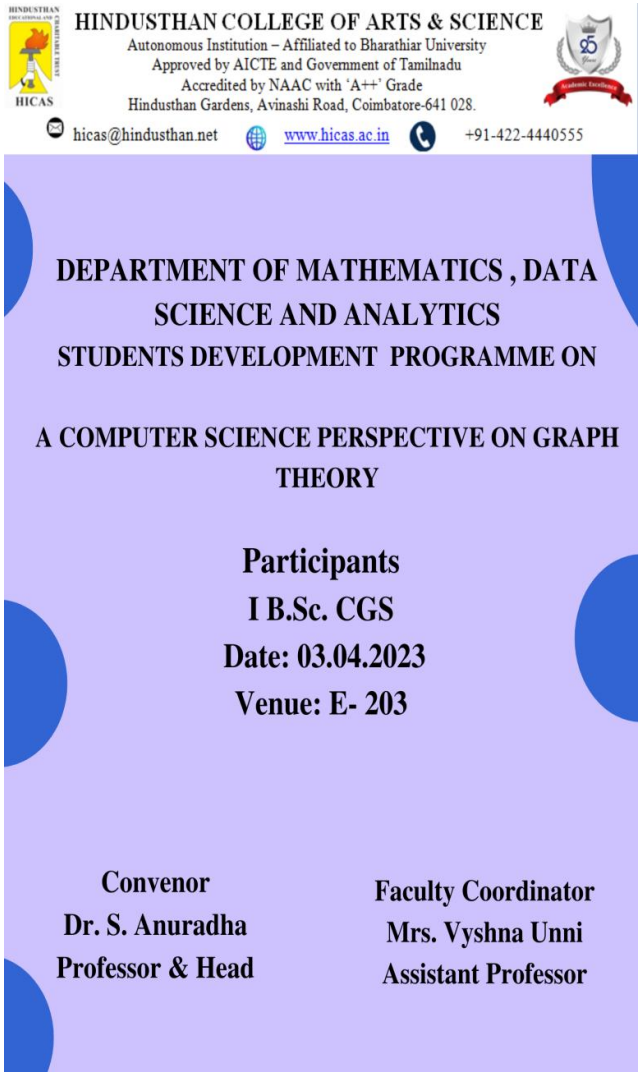
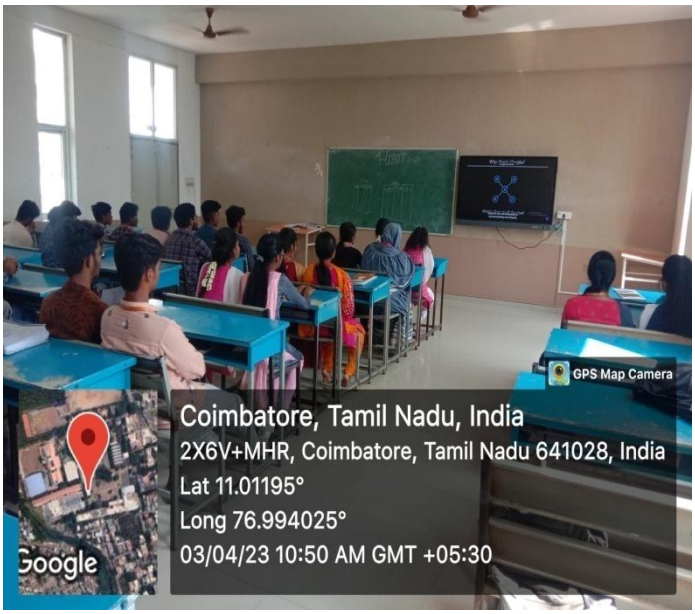
HICAS/MAT/No.99

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	SDP		
Name of Department/ Cell/ Club	Mathematics		
Date/s	03.04.2023	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** : Dr. S.Anuradha, Professor & Head Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore. **Coordinator:** Mrs. Vyshna Unni, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level (Computer Technology) – I CGS		
Title of the Event	A Computer Science Perceptive on Graph Theory		
Venue	E-203		
Resource Person/Faculty In- Charge /s Details(Affiliation and Designation)	**Faculty In- Charge Details** : Mrs. Vyshna Unni, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Scope of the Event	Students are encouraged to know more about the interrelation ship between graph theory and computer science. They motivated to know about more applications of graph theory in computer softwares.		
Deliberations/Discussions	Some important definitions and essential terminology in graph theory followed by a discussion of different types of graphs is encountered. Further we discussed few ways to represent graph as data structures. Video Link: https://youtu.be/LFKZLXVO-Dg		
Outcomes of the Event	Students obtain knowledge about the essentiality of mathematics specially graph theory in computer science.		
Remarks and Feedback on the Event	Students enjoyed the session and felt the event was Excellent.		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	40

Image of the Event Brochure	**Photographs of Event**
	

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HICAS/MAT/ No.104

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	SDP		
Name of Department/ Cell/ Club	Mathematics		
Date/s	19.4.2023	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** : Dr. S.Anuradha, Professor & Head Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore. **Coordinator:** Mrs.M.Subhashree Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department Level (Computer Science) – I B.Sc CS A		
Title of the Event	Applications of Numerical methods in Various fields		
Venue	C-401		
Resource Person/Faculty In- Charge /s Details(Affiliation and Designation)	**Faculty In- Charge Details** : Mrs.M.Subhashree Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Scope of the Event	Students are motivated to extend their studies in Numerical Methods for various fields		
Deliberations/Discussions	Learning various numerical methods and analyzing them will familiarise a person with the process of inventing new numerical methods		
Outcomes of the Event	Numerical methods are rapidly moving into the mainstream of mathematics mainly because of its applications in diverse fields which include chemistry, electrical engineering, operation research.		
Remarks and Feedback on the Event	Students enjoyed the session and felt the event was Excellent.		

Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	45

Image of the Event Brochure	**Photographs of Event**

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HICAS/MAT/No.105

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	Department of Mathematics		
Date/s	**19.04.2023**	**No. of Day/s**	One
Convenor and Coordinator Details	Convenor : Dr.S.ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science. Coimbatore. Coordinators: Mrs.S.KARUNALAKSHMI Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department level		
Title of the Event	Application of LPP		
Venue	A- Block Room No. A-218		
Resource Person/s/Faculty Incharge Details (Affiliation and Designation)	Mrs.S.KARUNALAKSHMI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	Students were able to know the Applications of LPP.		
Deliberations/Discussions	Students learned what the real time applications of LPP are.		
Outcomes of the Event	The purpose of the programme was to make the students know about the concept of LPP and its real time applications of LPP.		

Remarks and Feedback on the Event	The Programme was interactive and the discussion revealed the applications of LPP.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	13

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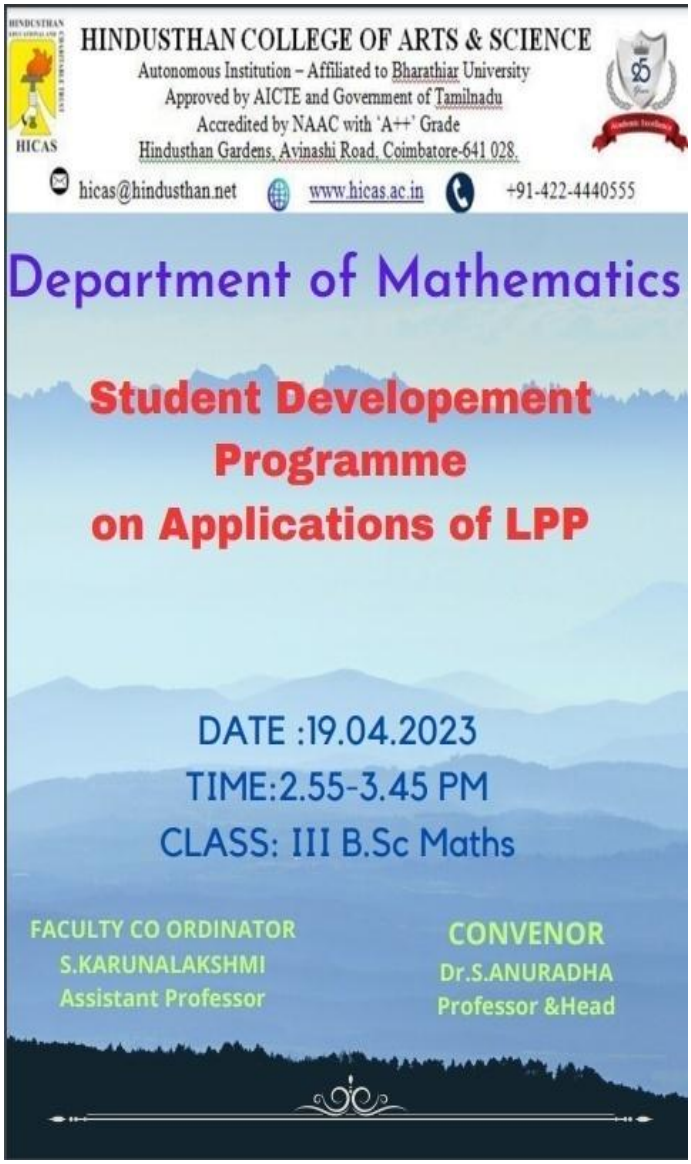	

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HICAS/MAT/No. 109

Nature of the Event(Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	Student Development Programme		
Name of Department/ Cell/ Club	Department of Mathematics		
Date/s	20.04.2023	No. of Day/s	One
Convenor and Coordinator Details	Convenor : Dr.S.ANURADHA Head and Professor , Department of Mathematics, Hindusthan College Of Arts and Science. Coimbatore. Coordinators: Mrs.J.Radhalakshmi Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore.		
Stratum of the Event (Regional, State, National, International)	Department level		
Title of the Event	Application of Mean,Median and Mode in Real life		
Venue	B-Block Room No. B-206		
Resource Person/s/ Faculty Incharge Details (Affiliation and Designation)	Mrs. J.RADHALAKSHMI, Assistant Professor, Department of Mathematics, Hindusthan College of Arts & Science, Coimbatore		
Scope of the Event	Students were able to know the Applications of mean in Daily life.		

Deliberations/Discussions	Students learned how to calculate mean,median and mode for ungrouped and grouped data. The mean, median and mode are widely used by insurance analysts and actuaries in the healthcare industry. For example: ● Mean: Insurance analysts often calculate the mean age of the individuals they provide insurance for so they can know the average age of their customers. ● Median: Actuaries often calculate the median amount spent on healthcare each year by individuals so they can know how much insurance they need to be able to provide to individuals. ● Mode: Actuaries also calculate the mode of their customers (the most commonly occurring age) so they can know which age group uses their insurance the most.
Outcomes of the Event	The purpose of the programme was to make the students know about the concept of measures of central tendency.
Remarks and Feedback on the Event	The Programme was interactive and the discussion revealed the applications of Mean,Median and Mode in real life.
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	40

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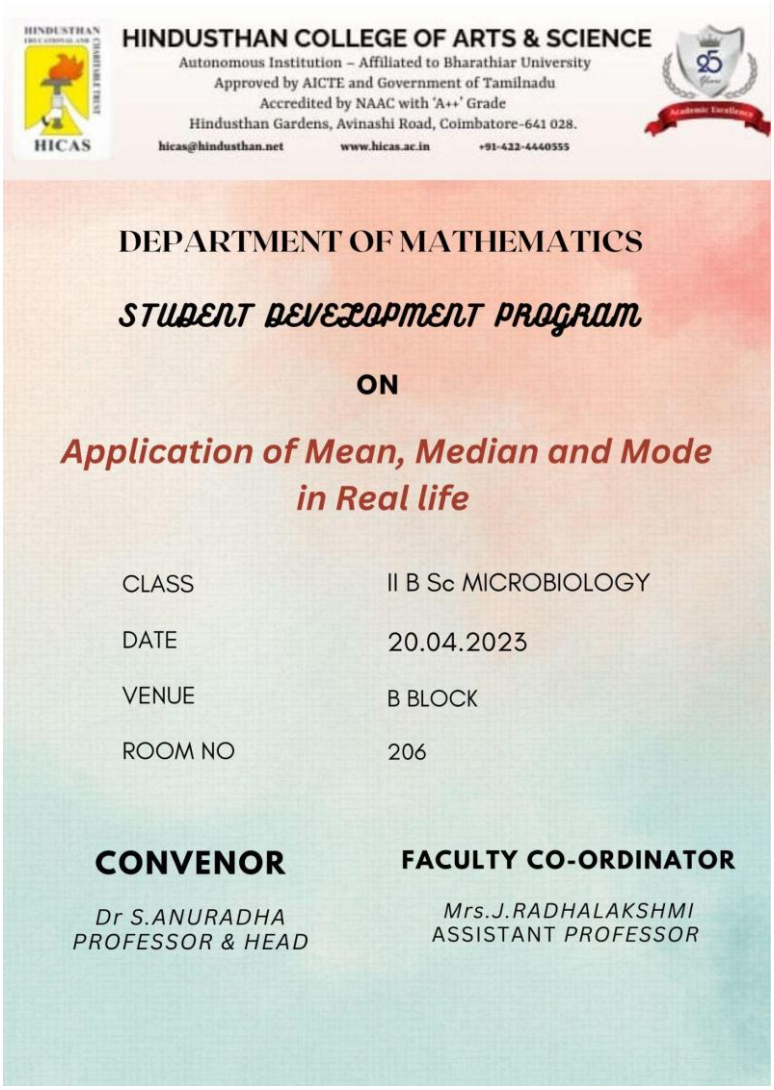	

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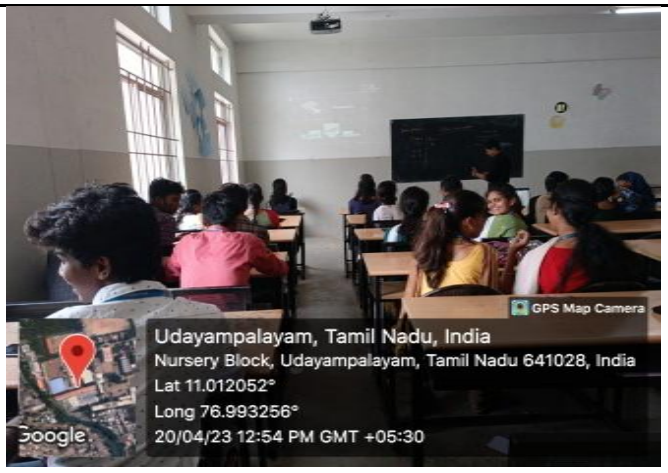
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HICAS/MAT/No.110

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**Department of Mathematics**		
Date	**20.04.2023**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Y.ANGELPRIYA** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – I B.Sc(CT)-'A'		
Title of the Event	**APPLICATIONS OF NUMERICAL METHODS IN REAL LIFE**		
Venue	**D BLOCK**		
Resource Person/s Details (Affiliation and Designation)	**Y.ANGELPRIYA** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	The importance of Numerical Methods , used for solving mathematical problems that are formulated in science and engineering where it is difficult or impossible to obtain exact solution.		
Deliberations/ Discussions	Discussion about the applications of Numerical Methods in Real life		
Outcomes of the Event	Students enjoyed the session and discussed more applications of Numerical Methods.		

Remarks and Feedback on the Event	The students gained knowledge in Mathematical analysis
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	47

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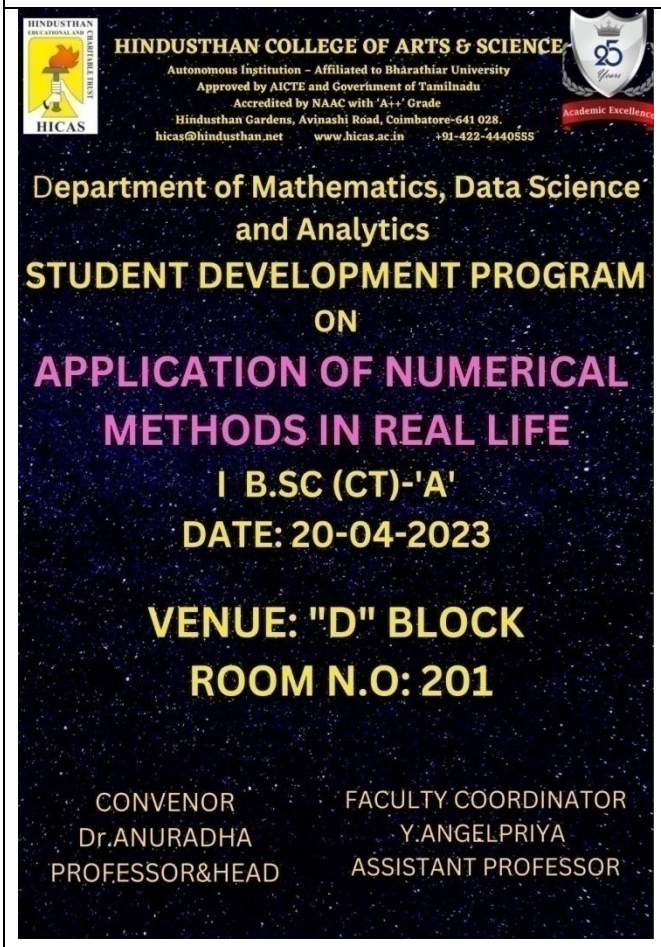	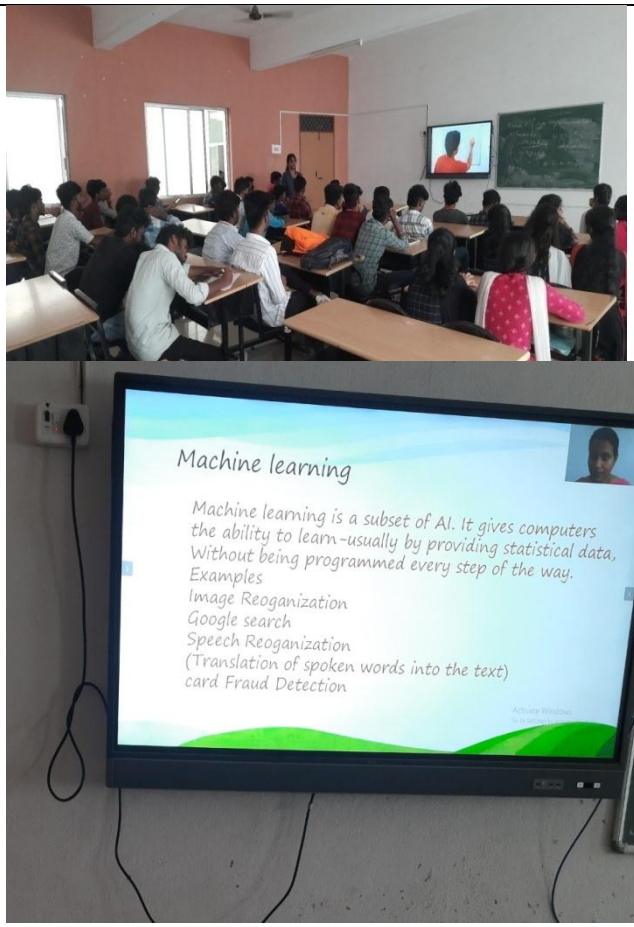

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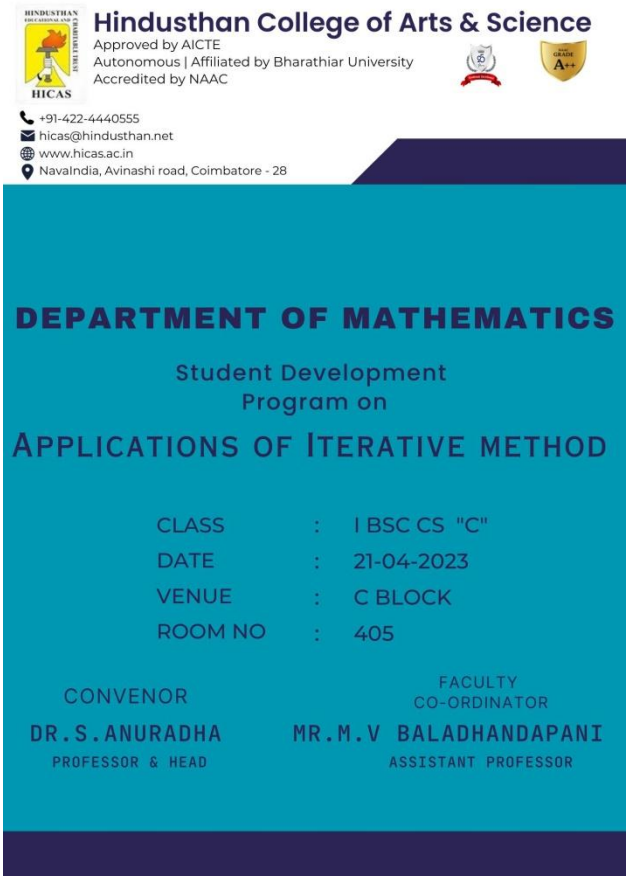
HICAS/MAT/ No. 118

Nature of the Event (Workshop, Seminar, FDP, Extension Activities, Guest Lecture, EDP, MDP, etc.)	**STUDENTS DEVELOPMENT PROGRAMME**		
Name of Department/ Cell/ Club	**Department of Mathematics**		
Date	**21.04.2023**	**No. of Day/s**	1
Convenor and Coordinator Details	**Convenor** **Dr.S.ANURADHA** Professor & Head, Department of Mathematics. Hindusthan College of Arts and Science. **Coordinator** **Mr.M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Stratum of the Event (Regional, State, National, International)	Department Level – I BSC CS C		
Title of the Event	**APPLICATIONS OF ITERATIVE METHOD**		
Venue	**C BLOCK**		
Resource Person/s Details (Affiliation and Designation)	**Mr.M.V.BALADHANDAPANI** Assistant Professor Department of Mathematics Hindusthan College of Arts and Science.		
Scope of the Event	The importance of the Iterative Method, use to solve problems in various types.		
Deliberations/ Discussions	Discussion about the applications of in Iterative Method in Engineering .		
Outcomes of the Event	Students enjoyed the session and discussed more applications of Iterative Method		
Remarks and Feedback on the Event	The students gained knowledge in Linear algebra		
Total No. of Participants (Mention Faculty count also if it is an Extension Activity)	60		

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