



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

Accredited (3rd Cycle) with 'A' Grade by NAAC
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI – 620 020



PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

&

Dr. A.P.J. ABDUL KALAM CLUB

(Affiliated to Vignyan Prasar Network of Science Clubs)

Club ID: VP-TN0056

cordially invite you all to
The Inauguration of Mathematics Association Activities (2022-23)
at 10.30 a.m. on Thursday, 11th August 2022 at Hussainudeen Hall

In the presence of
Janab. M. J. Jamal Mohamed Bilal, President
Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent
Hajee. M.J. Jamal Mohamed, Treasurer
Dr.K.Abdus Samad, Assistant Secretary

Welcome Address : S.Suresh Kumar, II M.Sc

Presidential Address : **Dr. S. Ismail Mohideen**
Principal

Introduction of the Chief Guest: N.Asrar Ahamed, III B.Sc

Special Address : **Mrs. D. LEEMA PETER**
Psychologist and Counselor

Topic : THE SECRET OF SUCCESS

Felicitations :

Dr. A. K. Khaja Nazeemudeen
Secretary & Correspondent

Hajee. M.J. Jamal Mohamed
Treasurer

Dr. K. Abdus Samad
Assistant Secretary

Dr. K. N. Abdul Kader Nihal
Member & Hon. Director

Dr. A. Mohamed Ibraheem
Vice Principal

Dr. M.Mohamed Sihabudeen
Additional Vice Principal

Dr. K. N. Mohamed Fazil
Director-Hostel Administration

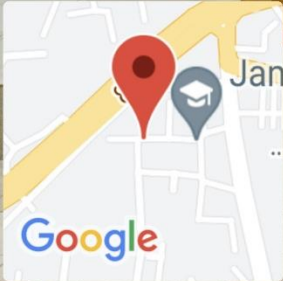
Ms. J.Hajira Fathima
Director-Women Hostel

Vote of Thanks : R. Kabilan, II M.Sc

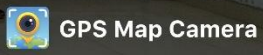
The Office Bearers (Men) of Mathematics Association 2022-23

President	Dr.S. Ismail Mohideen Principal & HOD of Mathematics
Advisor	Dr.R. Jahir Hussain HoD (i/c)
Vice President	Dr. A. Prasanna Assistant Professor
Secretary	R. Kabilan, II M.Sc
Joint Secretaries	W.Gilbert Raja, II M.Sc
	S.Suresh Kumar, II M.Sc
	N.Asrar Ahamed, III B.Sc
Executive Committee	A.Mohamed Umar Farrok, I M.Sc
	J.Rajkumar, I M.Sc
	M.Mukesh Kannan, III B.Sc
	S.Asaraf Khan, II B.Sc
	M.Adnan Mohamed Aslam, II B.Sc
	M.Mohamed Faisal, I B.Sc
	L.Vignesh, , I B.Sc
PRO	R.Manikandan, I M.Sc
	M.Mohamed Rahmadullah, II B.Sc
	A.Prasanna, II B.Sc
	S.Syed Sameer Sulaiman, I B.Sc

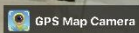
P.G & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli was Inaugurated, Mathematics Association and Dr.A.P.J. Abdul Kalam Club Activities 2022-23 on 11.08.2022. Dr. S. Ismail Mohideen Principal delivered the Presidential Address. College Secretary & Correspondent Dr. A. K. Khaja Nazeemudeen felicitated the gathering. Mrs. D. LEEMA PETER, Psychologist and Counselor delivered the Special Address on the topic "THE SECRET OF SUCCESS". Dr. R.Jahir Hussain, Head (i/c) Department of Mathematics introduced the Office Bearers of the Association. Earlier S.Suresh Kumar, II M.Sc welcomed the gathering. Finally R. Kabilan, II M.Sc proposed a vote of thanks. The arrangements were made by the faculty members of the Department. 155 Students and 8 Staff members are participated in this event.



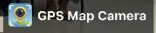
Tiruchirappalli, Tamil Nadu, India
 QMPW+M2P, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu
 620020, India
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 Long 78.694905°
 11/08/22 10:51 AM



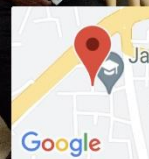
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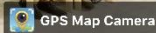
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Tiruchirappalli, Tamil Nadu, India
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TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

welcomes you all to attend a

Special Lecture on Interview Techniques

at 11.30 a.m. on 27.08.2022

Target Audience : III UG Mathematics Students

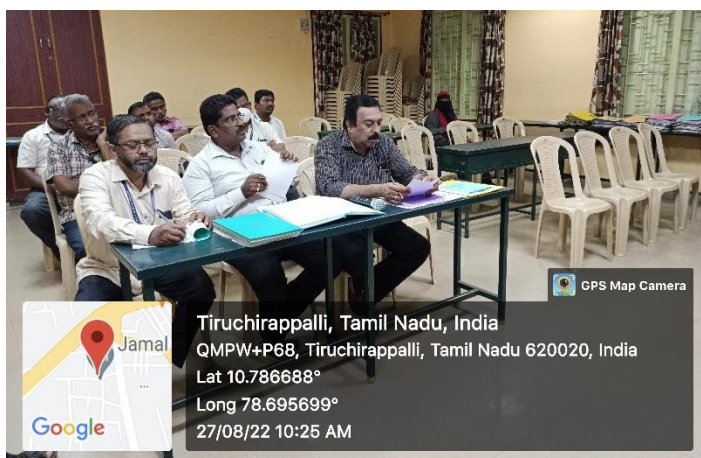
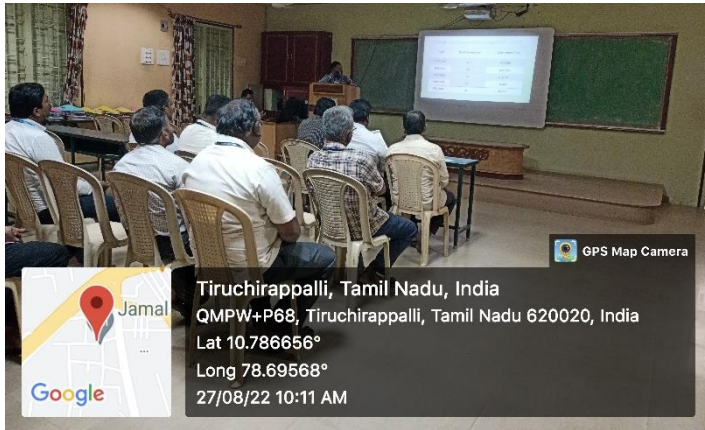
Special Address : Mr. J. Ashiq Basha
Assistant Consultant
Tata Consultancy Services Limited
Bangalore

Venue: LH- 18

Mr. J. Ashiq Basha, Assistant Consultant, Tata Consultancy Services Limited Bangalore (An Alumnus) delivered a lecture on Interview Techniques on 27.08.2022. 52 III B.Sc Mathematics students benefitted from this programme.



External Academic and Administrative Audit on 27.08.2022



Condolence Meeting at Mathematics Seminar Hall

JAMAL MOHAMED COLLEGE (Autonomous)
TIRUCHIRAPPALLI - 620 020

CIRCULAR (MEN)

I am sorry to inform the sudden demise of **Dr. D. Dhamodharan, Assistant Professor of Mathematics** of our College, on **26.09.2022**. As a mark of respect to the departed soul, I request all our staff members and students to observe a **one-minute silent prayer** at **11.00 a.m. on 26.09.2022** in the respective class rooms of all departments. **There will be no classes in IV & V Hour. The classes for Women students will be conducted as usual.**

Let us pray for the soul to rest in peace.

Tiruchirappalli- 20
26.09.2022


PRINCIPAL



INDUSTRIAL VISIT– REPORT

A batch of 48 students comprising of II & I MSc and III BSc Mathematics, went to the MASCO TEA FACTORY, Vagamon, Kerala as part of our institutional curriculum syllabus in the Subject of Operations Research. We visited the Masco Factory, Kannankulam, Vagamon, Kerala - 685 503 on 30.09.2022. We departed from Jamal Mohamed College, Tiruchirapalli on 29.09.2022 by 10:00 pm by boarding a Hired Bus. We were accompanied by our Tutor Dr. P. MURUGANANTHAM, Assistant Professor and Dr. H. SHEIK MUJIBUR RAHMAN, Assistant Professor and Dr. M. MOHAMED ALTHAF, Assistant Professor of our Mathematics Department. We were graced by the presence of our Head (i/c) Dr. R. JAHIR HUSSAIN, Associate Professor, and other staff members of our Department. They prayed to the almighty for our safety and wellness during our journey and wished us good fortune. After travelling for nearly 7 hours by bus, we reached our destination, Vagamon Hills Resort by 08:00 am on 30.09.2022. We refreshed at the rooms allocated to us, and had our breakfast and then we began our journey by 10:00 am. We reached the MASCO TEA FACTORY by 11:15 am, and after a brief screening at the entrance, we entered the Factory. A detailed walk-through process was scheduled at 11:40 am, which we attended. The whole walk-through process was conducted by the Manager of MASCO TEA FACTORY, learned the concepts of Inventory Techniques and Optimization Techniques. He started his briefing by explaining the process of cutting the Tea leaves from the Estates of Vagamon. And further went on to explain CTC (Cut Tear Curl) process of Tea Powder manufacturing. He even shared a brief history of British colonization with the story of Tea Plantation in India. After a display of the CTC machines and their working models, we were introduced to a world of Tea flavours which were both Exported and Distributed locally throughout the country. After the detailed display of Tea manufacturing Process, each of our students and our professors were given a sample of their Unique *Kattanchai* (Black Tea). After bidding adieu, we left to the Pine forests of Vagamon. After spending a good amount of time with those evergreen trees, we headed to the acclaimed Meadows of Vagamon. With a tranquilizing and serene environment, nature embraced us. After an ample amount of time amidst the lush green meadows of Vagamon, we departed to have the lunch prepared for us. By 04:00 pm we started our Jeep Safari, one of the most famous activities one can do in almost all parts of Keralaite Forests. Travelling through the Tea estates and jungles and rocky terrains of Kerala, we first halted at a view point. A lake faraway covered with mountains on all sides was a serene experience for our students. Our last halt of the day was Karikadu View point. Witnessing the twilight there, we reached back to our resort rooms by 08:00 pm. After freshening up, we had a bonfire at our resort as a rejuvenating experience. And we had our dinners, by 09:30 pm. And off to respective rooms by 10.30 pm.

We started our next day (01.10.2022) as early as 07:00 am with Morning Tea. We left for the Thangal Para hill after our breakfast. With a climb of about half hour, we reached the hilltop. Time allotted for this spot was 30 minutes, but it took a little more than two hours to pack up from the hill. Such was the worldliness of the hill. Our next stop was Kurishimala, a scenic spot similar to Thangal para. After a good time of 45 minutes we left to have our lunch. By 04:00 pm we started downhill towards Thekkady, another cultural eco-diversified hotspot in Kerala. We reached Thekkady by 06:00 pm. After brief refreshment, we headed to the YODHA CULTURAL VILLAGE. We were fortunate enough to witness the KALARIPAYATTU martial art form in the Cultural village. An hour later, we had our dinner by 08:00 pm and started exploring the bazaars of Thekkady. By 10:30 pm we boarded back our bus in Thekkady. We reached Jamal Mohamed College, Trichy on 02.10.2022 by 04:30 am in the morning and parted ways to our respected homes. We whole heartedly thank the Regional Joint Director of Collegiate Education, Trichy, the Principal of our college for giving us the permission for our visit. We thank our Head of Department, Dr. R. Jahir Hussain and our Tutor Dr. Muruganantham, and our staff, Dr. H. Sheik Mujibur Rahman and Dr. M. Mohamed Althaf for their support in arranging this trip and looking after us in this 2- day Trip.





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PG & RESEARCH DEPARTMENT OF MATHEMATICS

cordially invite you all to
the Signing of MOU between
Jamal Mohamed College, Tiruchirappalli &
K. Ramakrishnan College of Technology, Tiruchirappalli

at 3.00 p.m. on Friday, **7th October 2022 at Hussainudeen Hall**

In the presence of
Janab. M. J. Jamal Mohamed Bilal, President
Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent
Hajee. M.J. Jamal Mohamed, Treasurer
Dr.K.Abdus Samad, Assistant Secretary
Dr. K. N. Abdul Kader Nihal, Member & Hon. Director

Welcome &
Presidential Address : **Dr. S. Ismail Mohideen**
Principal

Felicitations :

Dr. E. G. Rajan
Chairman, Pentagram Group of Companies
(India, UK, USA & Canada)

Dr.S.Kuppusamy- Executive Director
K. Ramakrishnan College of Technology

Dr. A. Mohamed Ibraheem
Vice Principal

Dr. K. N. Mohamed Fazil
Director-Hostel Administration

Dr. K. Ramakrishnan – Chairman
K. Ramakrishnan College of Technology

Dr. N.Vasudevan-Principal
K. Ramakrishnan College of Technology

Dr. M.Mohamed Sihabudeen
Additional Vice Principal

Ms. J.Hajira Fathima
Director-Women Hostel

Vote of Thanks : **Dr.R.Jahir Hussain**, Head (i/c),Dept. of Mathematics

Grace the occasion with your Glorious presence

On October 7th, 2022, a MoU signing ceremony between Jamal Mohamed College, Tiruchirappalli and K. Ramakrishnan College of Technology, Tiruchirappalli was held at Syed Hussainudeen Hall. Dr. S. Ismail Mohideen, Principal, Jamal Mohamed College, welcomed the gathering and presided over the function in the presence of Dr. A.K. Khaja Nazeemudeen, Secretary & Correspondent, Hajee. M.J. Jamal Mohamed, Treasurer, Dr. N. Vasudeven, Principal, K. Ramakrishnan College of Technology and Dr. E.G. Rajan, Chairman, Pentagram Group of Companies (India, UK, USA & Canada). The MoU mainly focuses on faculty exchange, student exchange, and research collaborations, etc. Through this MoU, students in the science department will be able to experience the application side. Finally, Dr. R. Jahir Hussain, Head In-Charge, Department of Mathematics, proposed a vote of thanks. 60 members are participated in this event.



Board of Studies (External) Meeting on 10.11.2022 at 2.00 p.m.



Department of Mathematics, Jamal Mohamed College, Tiruchirappalli has organized an International Conference on Mathematical Methods and Computations on 21.12.2022 & 22.12.2022.

Dr.R.Jahir Hussain welcomed the gathering. Dr. A. Nagoor Gani, Organizing Secretary introduced the theme of the Conference, Dr.Mufti Mahmud, Associate Professor, Department of Computer Science, Medical Technologies Innovation Facility Nottingham Trent University, England, United Kingdom, delivered the inaugural address. The conference souvenir was released by Dr.A.K.Khaja Nazeemudeen, Secretary and Correspondent, Jamal Mohamed College. The first copy of the souvenir was received by Hajee. M.J Jamal Mohamed Sahib, Treasurer of the College.

Dr. S. Ismail Mohideen, Principal, Jamal Mohamed College presided over the function. Dr.K.Abdus Samad, Assistant Secretary, Dr.K.N.Abdul Kader Nihal, Hon. Director, Dr. A. Mohamed Ibraheem, Vice Principal, Dr.M.Mohamed Sihabudeen, Additional Vice Principal, Dr. K. N. Mohamed Fazil, Director-Hostel Administration, and Ms.J.Hajira Fathima, Director-Hostel Administration felicitated. Dr.R.Jahir Hussain, Associate Professor of Mathematics welcomed the gathering. Dr. A. Mohamed Ismayil, Associate Professor of Mathematics proposed a vote of thanks.

In the conference, invited speakers Dr. Ismail Bin Abdul Rahman, Professor, Department of Building & Construction Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia, Dr. Kavikumar Jacob, Associate Professor, Faculty of Applied Sciences and Technology, Universiti Tun Hussein Onn Malaysia, Malaysia, Dr. Sasitharan Nagapan, Associate Professor, Department of Building & Construction Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia, Dr. Nagarajan, Professor and Research Coordinator, Department of Mathematics, Rajalakshmi Institute of Technology, Chennai, Dr. R. Sujatha, Professor, Department of Mathematics, Shiv Nadar University, Chennai were chaired the Technical Sessions.

Around 350 participants registered (outside participants:167), and 145 research articles are selected for presentation. Most of the papers contributed for publications in the UGC approved Peer reviewed Journals pertained to current advances in the emerging fields of mathematics.



Department of Mathematics, Jamal Mohamed College, Tiruchirappalli has organized an International Conference on Mathematical Methods and Computations on 21.12.2022 & 22.12.2022.

During the valedictory function, Mr. S.Masoothu, Associate Professor of Mathematics welcomed the gathering. Dr. A. Nagoor Gani, Organizing Secretary presented the report of the Conference, Dr.V.Ravichandran, Professor of Mathematics, National Institute of Technology, Trichy delivered the valedictory address. Dr. S. Ismail Mohideen, Principal, Jamal Mohamed College presided over the function. Dr.A.K.Khaja Nazeemudeen, Secretary and Correspondent, Hajee. M.J Jamal Mohamed Sahib, Treasurer, Dr.K.Abdus Samad, Assistant Secretary, Dr.K.N.Abdul Kader Nihal, Hon. Director, Dr. A. Mohamed Ibraheem, Vice Principal, Dr.M.Mohamed Sihabudeen, Additional Vice Principal, Dr. K. N. Mohamed Fazil, Director-Hostel Administration, and Ms.J.Hajira Fathima, Director-Hostel Administration felicitated. Dr. M.Mohammed Jabaraula, Assistant Professor of Mathematics proposed a vote of thanks.



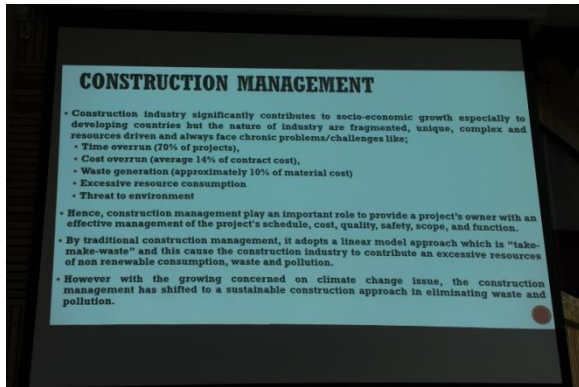
Snapshots of ICOMAC 2022

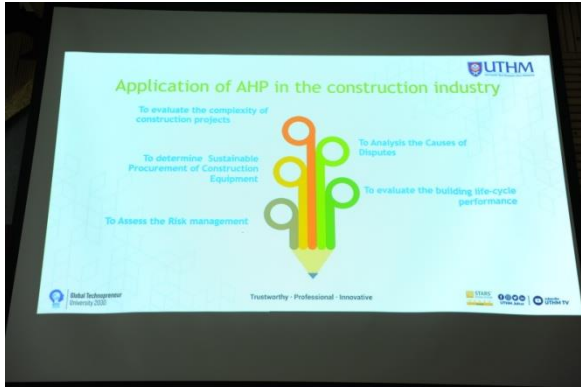


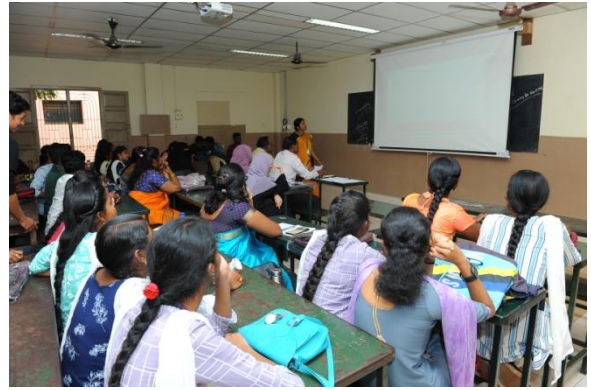














The Management and Principal interacted with Dr. Ismail Bin Abdul Rahman, Professor, Department of Building & Construction Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia, Dr. Kavikumar Jacob, Associate Professor, Faculty of Applied Sciences and Technology, Universiti Tun Hussein Onn Malaysia, Malaysia, Dr. Sasitharan Nagapan, Associate Professor, Department of Building & Construction Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia on 22.12.2022.

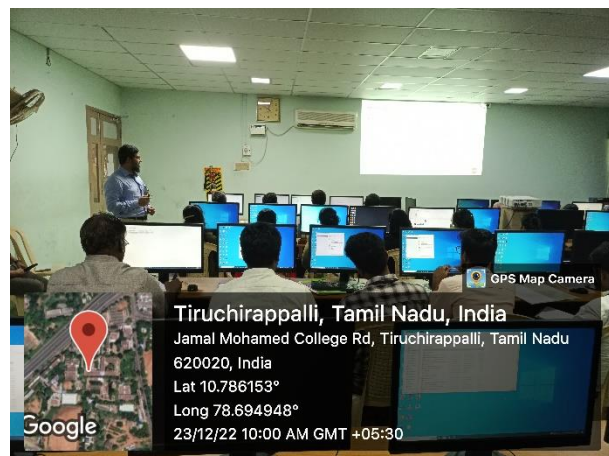
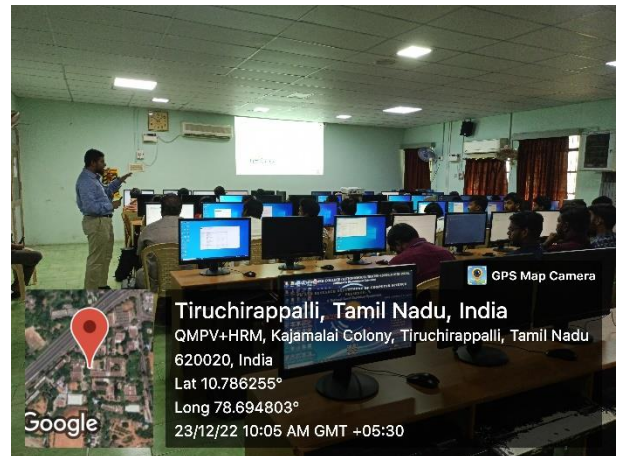


Department of Mathematics, Jamal Mohamed College, Tiruchirappalli has organized an **International Workshop on Big Data Analytics Using Distributed Computing on 23.12.2022.**

Dr.R.Jahir Hussain welcomed the gathering. Dr. A. Nagoor Gani, Organizing Secretary proposed a vote of thanks, Dr.Mufti Mahmud, Associate Professor, Department of Computer Science, Medical Technologies Innovation Facility Nottingham Trent University, England, United Kingdom, was the resource person and conducted the workshop.

Dr. A. Mohamed Ibraheem, Vice Principal, Jamal Mohamed College presided over the function. Dr.A.K.Khaja Nazeemudeen, Secretary and Correspondent, Hajee. M.J. Jamal Mohamed Sahib, Treasurer, Dr.K.Abdus Samad, Assistant Secretary, Dr.K.N.Abdul Kader Nihal, Hon. Director, Dr.M.Mohamed Sihabudeen, Additional Vice Principal, Dr. K. N. Mohamed Fazil, Director-Hostel Administration, and Ms.J.Hajira Fathima, Director-Hostel Administration felicitated.

Total No. of Beneficiaries: 53





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DBT Star College Scheme & DST-FIST Funded

(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

welcomes you all to attend the

My story – Motivational Session by Successful Start-up founder

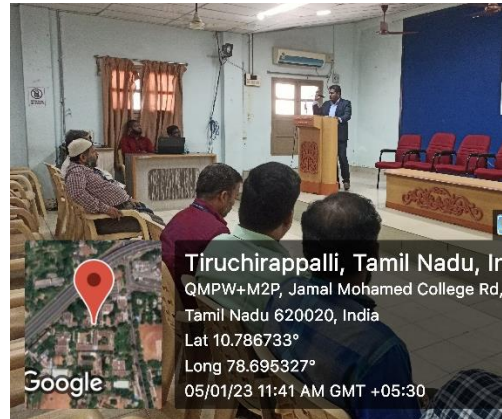
On 05.01.2023

Venue: Hussainudeen Hall

Time: 9.45 a.m.

Special Address : Mr. M.Ramprasad
Founder & CEO
SWOT Strategy Zone
Chennai

Special Lecture on **My story – Motivational Session by Successful Start-up founder** was organized by PG and Research Department of Mathematics for the benefit of Post Graduate students of our College on 05-01-2023. 43 students benefitted out of this offline programme.



**BRIEF REPORT OF THE SCIENCE ACADEMIES' LECTURE WORKSHOP ON
"DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS IN
MATHEMATICAL MODELING"**

A two-day SCIENCE ACADEMIES' LECTURE WORKSHOP ON "DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS IN MATHEMATICAL MODELING" was held in the PG & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli-20 on 6th and 7th January 2023. The Lecture workshop was sponsored by the Science Academies, Indian Academy of Science (IASc) Bengaluru, Indian National Science Academy (INSA), and National Academy of Science (NASI) New Delhi. **Dr. Satyajit Roy, F.N.A.Sc, Professor, Department of Mathematics, Indian Institute of Technology Madras, Chennai was the convener of this Lecture Workshop.**

The study of differential equations is a wide field in pure and applied mathematics, physics, and engineering. All of these disciplines are concerned with the properties of differential equations of various types. Pure mathematics focuses on the existence and uniqueness of solutions, while applied mathematics focuses the rigorous justification of the methods for approximating solutions. Differential equations play an important role in modeling virtually every physical, technical, or biological process, from celestial motion, to bridge design, to interactions between neurons. Differential equations such as those used to solve real-life problems may not necessarily be directly solvable, i.e. do not have closed form solutions. Instead, solutions can be approximated using numerical methods. Many fundamental laws of physics and chemistry can be formulated as differential equations. In biology and economics, differential equations are used to model the behaviour of complex systems. The mathematical theory of differential equations first developed together with the sciences where the equations had originated and where the results found application. However, diverse problems, sometimes originating in quite distinct scientific fields, may give rise to identical differential equations. Whenever this happens, mathematical theory behind the equations can be viewed as a unifying principle behind diverse phenomena.

Organizing this type of lecture workshop with highly accomplished experts to discuss scientific advances in their chosen fields will also enhance the interest of students to pursue higher studies and research.

A total of 8 lectures were delivered by resource persons. About 128 participants from various colleges participated in the workshop. The resource persons are

- Dr.P. Kandaswamy, F.N.A.Sc.,
Professor & Head (Rtd.)
Bharathiar University
Coimbatore
- Prof. G D Veerappa Gowda, F.N.A, F.N.A.Sc., F.A.Sc.,
TIFR Centre for Applicable Mathematics
Sharada Nagar, Yelahanka New Town

Bangalore-560065
- Dr. Jitraj Saha
Assistant Professor

Department of Mathematics

National Institute of Technology

Tiruchirappalli - 620015

The two days lecture workshop was inaugurated by Dr. Satyajit Roy at 9.00 am on 06.01.2023. Dr.R.Jahir Hussain, HOD (i/c) of Mathematics, Jamal Mohamed College welcomed the gathering. Dr. S. Ismail Mohideen, Principal, Jamal Mohamed College delivered the Presidential Address. Jamal Mohamed College Management Committee Secretary and Correspondent Dr.A.K.Khaja Nazeemudeen. Treasurer Hajee. M.J.Jamal Mohamed, Assistant Secretary Dr.K.Abdus Samad and Hon. Director Dr. K.N.Abdul Kader Nihal made their august presence in this Meeting. Dr. Satyajit Roy, Convenor of this workshop gave introductory speech and mentioned the objectives of the lecture workshop. He also explained the various activities of Science Academies'. Dr. S. Ismail Mohideen in his Presidential address thanked the Science academies' for conducting the workshop at Jamal Mohamed College. Finally Dr. A.Nagoorgani, Associate Professor of Mathematics, Jamal Mohamed College Proposed vote of thanks.

On 06.01.2023, First lecture was delivered by Dr. Satyajit Roy on Numerical Approaches to Nonlinear Boundary Value Problems between 9.30 a.m. and 11.00 a.m.

On 06.01.2023, Second session was taken by Dr.P. Kandaswamy, F.N.A.Sc., Professor & Head (Rtd.), Bharathiar University, Coimbatore between 11.15 a.m. – 12.45 p.m. on Mathematical Model for Human Immunology. Earlier Dr.U. Abuthahir, Assistant Professor in Mathematics welcomed the Resource person. Finally, Dr.M.A. Rifayathali, Assistant Professor in Mathematics proposed vote of thanks.

On 06.01.2023, Third lecture was given in the afternoon session by Prof. G D Veerappa Gowda, F.N.A, F.N.A.Sc., F.A.Sc., TIFR Centre for Applicable Mathematics, Bangalore on Numerical Methods for Partial Differential Equations-I between 2.00 p.m. and 3.30 p.m. Earlier Dr.M.Mohammed Jabarulla, Assistant Professor in Mathematics welcomed the Resource person. Finally, Dr.S.Mohamed Yusuff Ansari, Assistant Professor in Mathematics proposed vote of thanks.

On 06.01.2023, Dr. Jitraj Saha, Assistant Professor, Department of Mathematics, National Institute of Technology Tiruchirappalli gave fourth lecture on Ordinary Differential Equations and Numerical Solution for Real Life Problems-I from 3.45 p.m. to 5.15 p.m. Earlier Dr.P. Murugannatham, Assistant Professor in Mathematics welcomed the Resource person. Finally, Mr.N.Mohamed Thoiyab, Assistant Professor in Mathematics proposed vote of thanks.

On 07.01.2023 **(Second day)**, First lecture was delivered by Dr.P. Kandaswamy on Mathematical Model for Electronic Equipment Cooling between 9.30 a.m. and 11.00 a.m.

On 07.01.2023, Second session was taken by Dr. Jitraj Saha between 11.15 a.m. – 12.45 p.m. on Ordinary Differential Equations and Numerical Solution for Real Life Problems-II.

On 07.01.2023, Third lecture was given in the afternoon session by Prof. G D Veerappa Gowda, F.N.A, F.N.A.Sc., F.A.Sc., TIFR Centre for Applicable Mathematics, Bangalore on Numerical Methods for Partial Differential Equations-II between 2.00 p.m. and 3.30 p.m.

On 07.01.2023, Dr. Satyajit Roy gave fourth lecture on Mathematical Modelling for Internal and External flow problems from 3.45 p.m. to 5.15 p.m.

On 07.01.2023, In the feedback session, the young and energetic participants expressed their views about the Lecture workshop. They appreciated the lectures delivered by resource persons and the good hospitality and other arrangements made by the Jamal Mohamed College. Dr. A.Prasanna, Coordinator of the program presented the report of the programme. At the end Mr. S.Masoothu, Associate Professor of Mathematics, Jamal Mohamed College delivered vote of thanks. He especially thanked, convenor Dr. Satyajit Roy and all the resource persons for the successful completion Lecture workshop. Earlier Dr.A.Mohamed Ismayil, Associate Professor of Mathematics, Jamal Mohamed College welcomed the gathering.

Acknowledgement:

We thankful to the Academy for the financial assistance. We express my gratitude to Shri. C. S. Ravi Kumar (Coordinator, Science Education Programme),

Dr. Satyajit Roy (Convener of LW) and resource persons for their valuable support and guidance. Hosting the Science Academies Lecture Workshop is a great honour to our institution. Particularly to the Department of Mathematics of our College.

SCIENCE ACADEMIES' LECTURE WORKSHOP ON "DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS IN MATHEMATICAL MODELING"

Date: 06.01.2023 and 07.01.2023

Sponsored and Supported by



Indian Academy of Sciences
Bengaluru



Indian National Science Academy
New Delhi



The National Academy of Sciences,
India, Allahabad

Organized by

PG & RESEARCH DEPARTMENT OF MATHEMATICS

JAMAL MOHAMED COLLEGE (Autonomous)

Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star College Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI – 620 020



Resource persons at office of the Principal



Resource persons towards workshop venue



Dignitaries on the stage



Dr. R.Jahir Hussain welcomed the gathering



Enthusiastic participants of SCIENCE ACADEMIES' LECTURE WORKSHOP



Dr.S.Ismail Mohideen, Principal delivers Presidential Address on 06.01.2023



Secretary & Correspondent felicitated the gathering

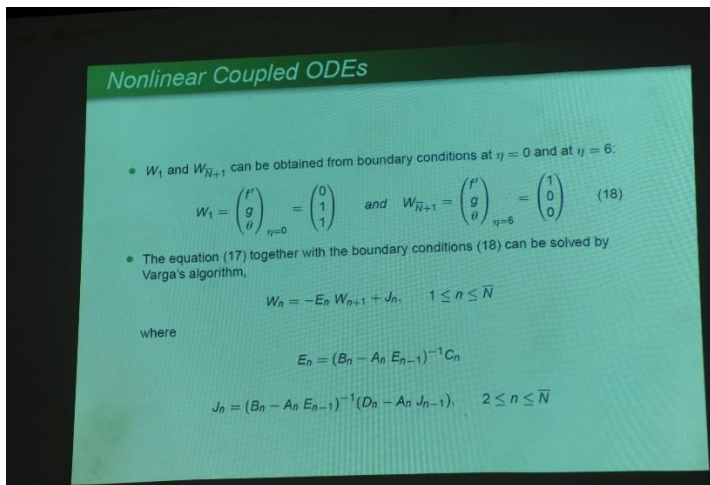
Treasurer felicitated the gathering



Dr. A.Nagoorgani, proposed vote of thanks



Keynote Address by Dr. Satyajit Roy, Professor, Department of Mathematics, Indian Institute of Technology Madras, Chennai, convener of this Lecture Workshop



First lecture was delivered by Dr. Satyajit Roy on

Numerical Approaches to Nonlinear Boundary Value Problems between 9.30 a.m. and 11.00 a.m.



On 06.01.2023, Second session was taken by Dr.P. Kandaswamy on Mathematical Model for Human Immunology



Dr.M.Mohammed Jabaruulla introducing the Resource person



A Section of audience





On 06.01.2023, Third lecture was given in the afternoon session by Prof. G D Veerappa Gowda, F.N.A, F.N.A.Sc., F.A.Sc., TIFR Centre for Applicable Mathematics, Bangalore on Numerical Methods for Partial Differential Equations-I between 2.00 p.m. and 3.30 p.m.



Dr. Jitraj Saha interacts with the participants





Dr. Jitraj Saha, Assistant Professor, Department of Mathematics, National Institute of Technology Tiruchirappalli gave fourth lecture on Ordinary Differential Equations and Numerical Solution for Real Life Problems-I



Lecture was delivered by Dr.P. Kandaswamy on Mathematical Model for Electronic Equipment Cooling on 07.01.2023



Participants of Workshop attending a session with keen interest



Dr. Jitraj Saha delivers a lecture on Ordinary Differential Equations and Numerical Solution for Real Life Problems



Prof. G D Veerappa Gowda explains the concept on Numerical Methods for Partial Differential Equations



Dr. Satyajit Roy gave fourth lecture on Mathematical Modelling for Internal and External flow problems on 07.01.2023 f from 3.45 p.m. to 5.15 p.m.



Feedback given by the participants of Workshop on 07.01.2023



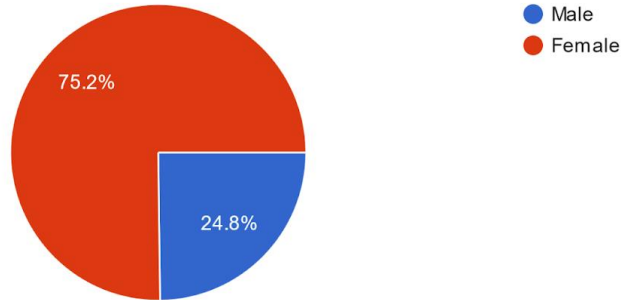
Attendance certificate distributed to the participants



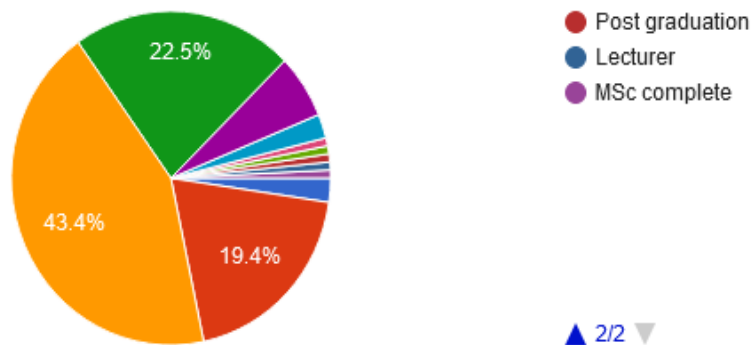
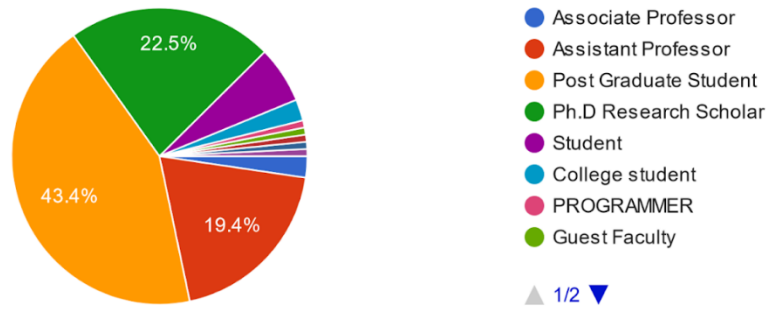
Group Photo of the Dept. Staff members with Dr. Satyajit Roy on 07.01.2023

Feedback Analysis: For SCIENCE ACADEMIES' LECTURE WORKSHOP ON "DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS IN MATHEMATICAL MODELING" on 06.01.2023 & 07.01.2023.

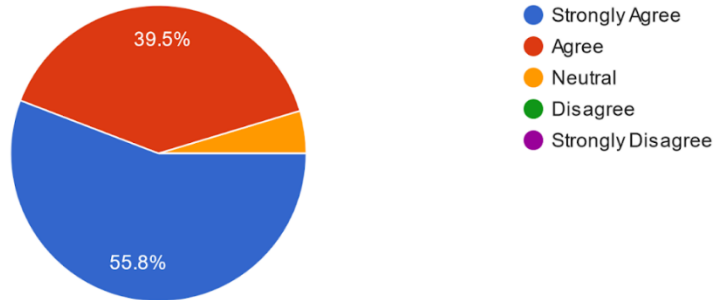
Gender



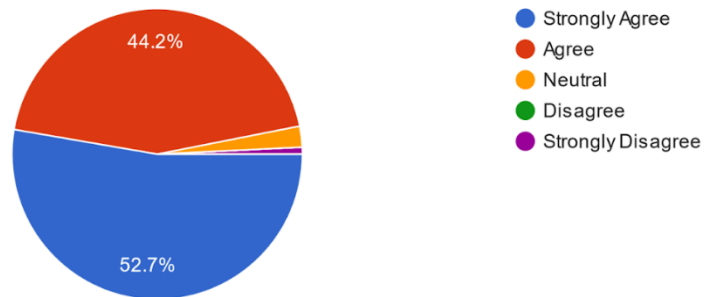
Designation



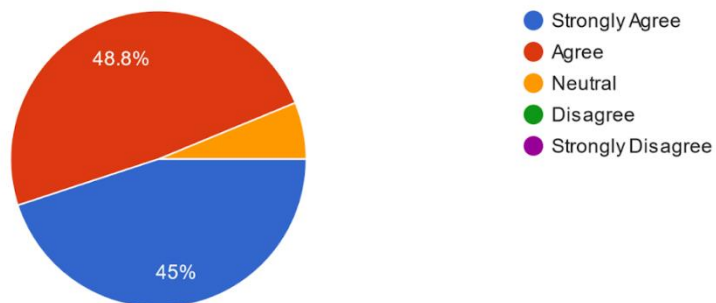
The Objectives of the workshop were clearly defined



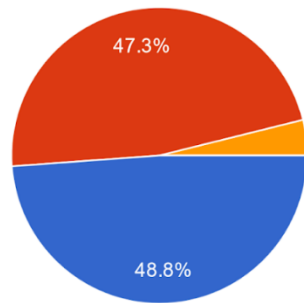
Participation and interaction were encouraged



The content was organized and easy to follow

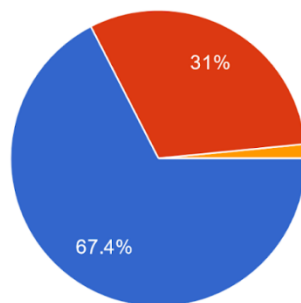


The training experience will be useful in my work



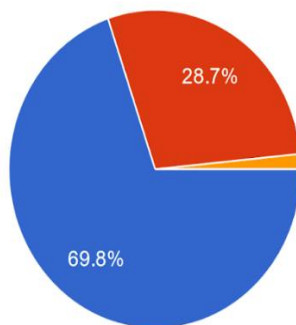
- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The trainer was knowledgeable about the training topics



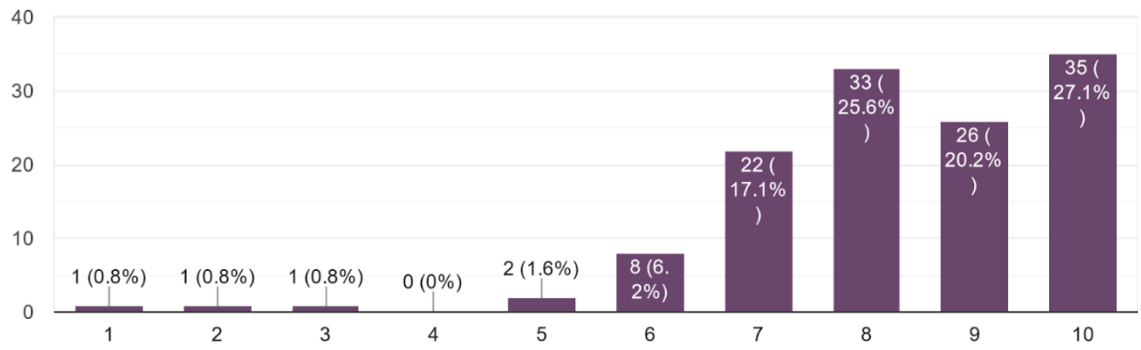
- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The trainer was well prepared

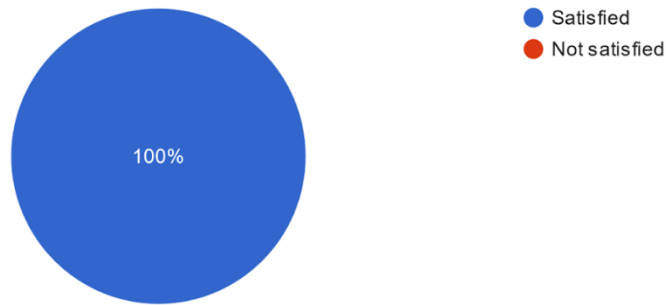


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Knowledge Level After Attending this Programme



Hospitality



Any Suggestion (Given by participants)

- No
- Nil
- Good
- -
- Nothing
- Good
- No
- Very useful
- NO
- None
- Very useful
- Nothing
- NICE SESSIONS
- Excellent lecture
- Always satisfied

- Food and Arrangements was satisfied
- Good for teaching
- Can extend workshop duration for a week
- Excellent organization
- The experience is very useful for the work shop and trainer is well and good superb
- Overall all the sessions were informative and resourceful
- Very Good
- Excellent for your workshop thank-you so much
- It's very useful to me
- Well and Good. Thank you for this workshop.
- All are good.
- To include more sections
- Had excellent session.
- The training program is very much useful and thought-provoking.
- It is over all nice session
- It's very nice
- Nicely Organized...
- Its very nice and good experience
- The workshop is well ana good
- Very useful,informative and valuable sessions.Thank you for the organizers.
- More workshop needed for scholars. Kindly conduct workshops frequently. Thank you...
- Excellent
- Use simple words
- Hope to have more such workshops in the future
- I would be glad if you arrange workshops in future related to Operations Research as it is my research area. Thank you.
- Hope to have more workshops in the future..Thank you
- Use Simple words that can be understable
- Good afternoon everyone , The workshop was very educational and beneficial for future study. We would be more benefitted if you could send us PPTS of all sessions . Thank you Organizers for conducting such a helpful Workshop. Best regards Manivel M, Research scholar, A.V.V.M Sri Pushpam College (A), Poondi, Thanjore.
- Hope to have more lectures in operation research
- It was really helpful for my further studies
- Hope to have more lectures on Operation Research
- Need a worksop material
- Overall, it was a great experience. I am looking forward to attending more sessions in the future.
- Good informative sessions and looking forward to attend more lecture in future
- Great Experience only
- This workshop is very fruitful to us in the field of mathematical model of human immune system. A special thanks to the organizers of this workshop
- No suggestion
- Lecture is very Useful for us.
- Lecture is very useful for us
- Very useful and informative
- My sincere thanks to all for arranged this workshop and it is very informative, gained knowledge about applications of ODE,PDE,NM in real life problems

- The workshop enriched the knowledge in solving nonlinear differential equations. It motivated the participants to explore further in the field of differential equations..
- This workshop is very informative and helpful for us. Please conduct some more workshop on the areas of operation research, graph theory, analysis for improving our research work ideas and knowledge.
- Pleasure to attend this session. Clear explanation.
- Well explained on the lecture topics and the way of explaining was so satisfiable
- Everything is good
- Well organised essential workshop
- Good lecture
- Very informative and interesting sessions. Thanks for the wonderful opportunity.
- Useful sessions were organized
- Nothin to say ,because all is good .
- everything is good thanks for this opportunity
- Very useful informative and knowledgeable session
- Thank you
- Very good session
- NA
- It is very useful
- Nope
- Very nice session and many use ful things we learned
- If the content is little bit more easier than it will be great for post graduate students. Although it will be very useful lecture for understanding applications of differential equations.
- Reduce sessions count from four to three.
- Thanks for this opportunity
- In future conduct like this event.
- Nice presentation
- Very nice
- All good
- No
- Well Organised
- Excellent arrangements and workshop was very useful for us ,Nice experience.
- Super

Indian Social Science Academy, Allahabad & Bharathidasan University, Tiruchirappalli jointly organised 46th Indian Social Science Congress on the focal theme of 75 years of Swaraj India from 27 to 31, January 2023. On 30-01-2023 a public lecture programme was held at Jamal Mohamed College (Autonomous), Tiruchirappalli.

Prof. (Dr.) G. Mohan Gopal, Former Vice-Chancellor, National Law School of India University, Bengaluru, Former Director, National Judicial Academy & Advocate, Supreme Court of India addressed on Issues of Reservation in India. In his address, he highlighted the exclusions of marginalised population in India. India stands at the bottom in Welfare Index globally. While Dr. B.R.Ambedkar addressed in the first round table conference representing India, stressed that the leaders and citizens of India are seeking responsible and representative government i.e. a complete democracy. During 1901, only 5 percent citizens of India are engaged in Government Administration, Commerce and Learned Professions.

So, Dr. B.R.Ambedkar advocated Public Service commission for the representation of all the communities in Government Administration, Commerce and Learned Professions due and adequate. Prof. (Dr.) G. Mohan Gopal, further said that the terms reservation and backward are not used by B.R.Ambedkar instead he used the terms regulation of recruitment in public services. Social disequilibrium exists in India because of few dominant communities rule India he added. This situation has resulted in oligarchy, which will lead to disaster. Reservation is a tool for representation, once alternative tool is found for representation of deprivation, reservation may be thrown. But until, social disequilibrium is addressed through reservation. Prof. (Dr.) G. Mohan Gopal, clarified that Reservation in India is not based on caste but based on class. In every religion and group, there are classes of people deprived socially, economically and politically. Monitorable and measurable tool to address social disequilibrium is inevitable. The dominant classes of people seeking further reservation discriminates the society. Hence, the development of the country is possible only through responsible and representative government, he said.

Shri. V. Vivekanandan, Former Chief Executive Officer, South Indian Federation of Fishermen Societies (SIFFS) & Founder and Director, Fisheries Management Resources Centre (FishMARC) addressed on the issues of Fisher Folk in India. In his address, he highlighted many unrevealed issues and challenges faced by the fisher folk in the 6000 km of coastal line in India.

Dr. M. Selvam, Vice Chancellor, Bharathidasan University, Dr. Senthilnathan, organising secretary of the programme, Dr. Palanithurai of Indian social science academy, Dr. A.K. Khaja Nazeemudeen, Secretary and Correspondent, Hajee.M. J.Jamal Mohamed, Treasurer, Dr. K. Abdus Samad, Assistant Secretary, Dr.A.Mohamed Ibraheem, Vice-Principal, Hajee. Dr. M. Mohamed Sihabudeen, Additional Vice-Principal, Dr. K. N. Abdul Kader Nihal, Member and Honorary Director, Dr. K.N. Mohamed Fazil, Director, Hostel Administration were present and graced the occasion. More than 300 participants including professors, industrialists, students from all over India participated in the public lectures. Earlier, Dr. S. Ismail Mohideen, Principal, Jamal Mohamed College welcomed the gathering, Dr. A.J. Haja Mohideen, HOD of Economics introduced Prof. (Dr.) G. Mohan Gopal, Dr. Sheik Fareeth, Assistant Professor of Social Work introduced Dr. V. Vivekanandan and Dr. Nagoor Gani, Associate Professor of Mathematics proposed vote of thanks.

Dr. R. Jahir Hussain, HOD of Mathematics made arrangements of the programme.



XLVI INDIAN SOCIAL SCIENCE CONGRESS

27-31 JANUARY 2023

Jointly Organized by

**INDIAN SOCIAL SCIENCE ACADEMY, ALLAHABAD
&
BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI**

Co-Host



**JAMAL MOHAMED COLLEGE (Autonomous)
Trichirappalli**

30th January 2023



XLVI INDIAN SOCIAL SCIENCE CONGRESS

FOCAL THEME : 75 YEARS OF SWARAJ INDIA

27 - 31, JANUARY 2023 | TIRUCHIRAPPALLI, TAMIL NADU

Jointly Organized by

**INDIAN SOCIAL SCIENCE ACADEMY, ALLAHABAD &
BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI**

YOU ARE INVITED

for the

—PUBLIC LECTURES—

Prof. (Dr.) G. Mohan Gopal

Former Vice-Chancellor, National Law School of India University, Bengaluru

Former Director, National Judicial Academy &

Advocate, Supreme Court of India

Issues of Reservation in India

Shri. V. Vivekanandan

Former Chief Executive Officer

South Indian Federation of Fishermen Societies (SIFFS) &

Founder and Director, Fisheries Management Resource Centre (FishMARC)

Issues of Fisher Folk in India

on 30.01.2023 from 06.15 p.m. onwards
at NBAG Auditorium, Jamal Mohamed College,
followed by Cultural Programme & Dinner.

Co-Host



**JAMAL MOHAMED COLLEGE (Autonomous)
Tiruchirappalli**









JAMAL MOHAMED COLLEGE (AUTONOMOUS)

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DBT Star College Scheme & DST-FIST Funded

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TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

welcomes you all to attend the

Special Lecture on Soft Skills

On 03.02.2023

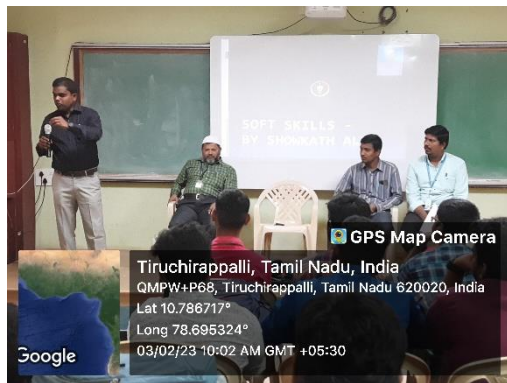
Venue: LH-18

Time: 9.45 a.m.



Special Address : Mr. A. Showkath Ali
(An Alumnus)
IT Manager
Beidoun Trading Co.
Kuwait

Special Lecture on **Special Lecture on Soft Skills** was organized by PG and Research Department of Mathematics for the benefit of Under Graduate and Post Graduate students of Mathematics of our College on 03.02.2023. 66 students benefitted out of this offline programme.





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TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

welcomes you all to attend a

Special Lecture on

A technique for Analysis of Dynamical Systems : Lyapunov Method

On 10.02.2023 (Blended Mode)

Target Audience: II M.Sc. Mathematics

Venue: CS Seminar Hall

Special Address : Dr. R. Sakthivel

Professor

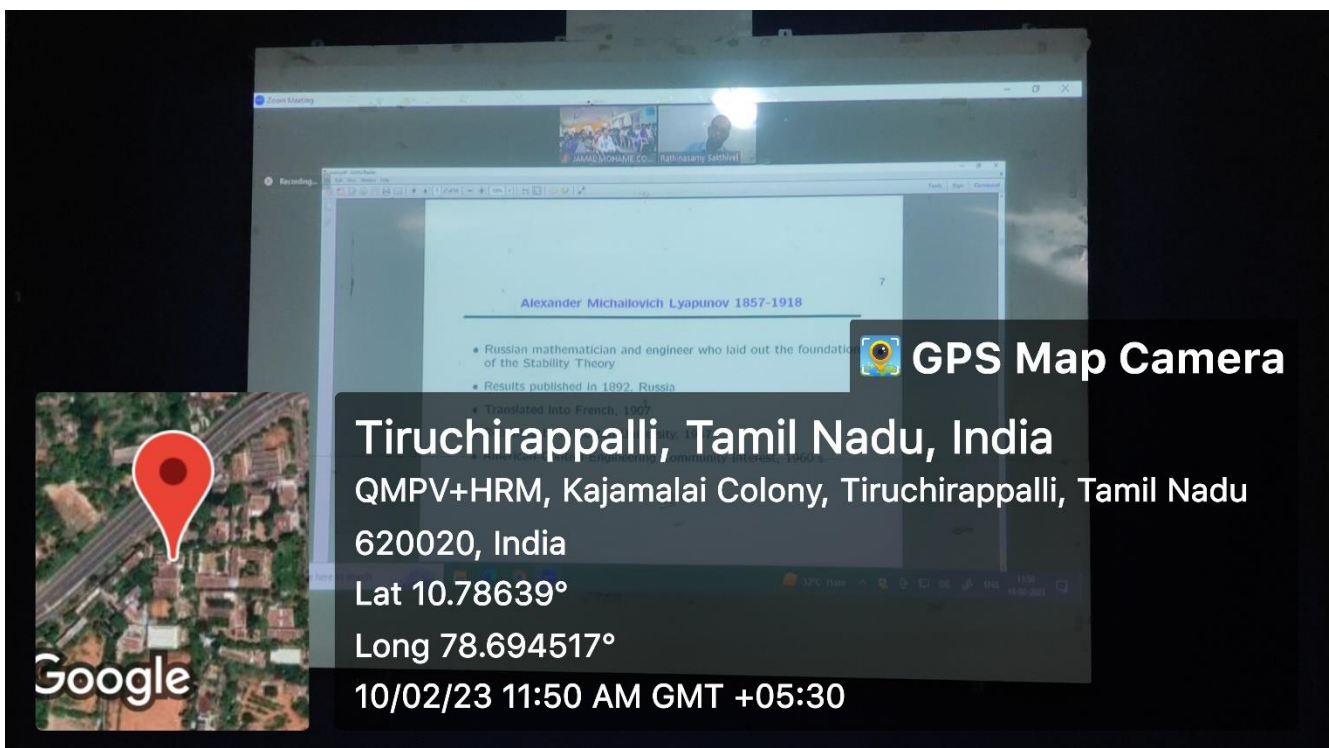
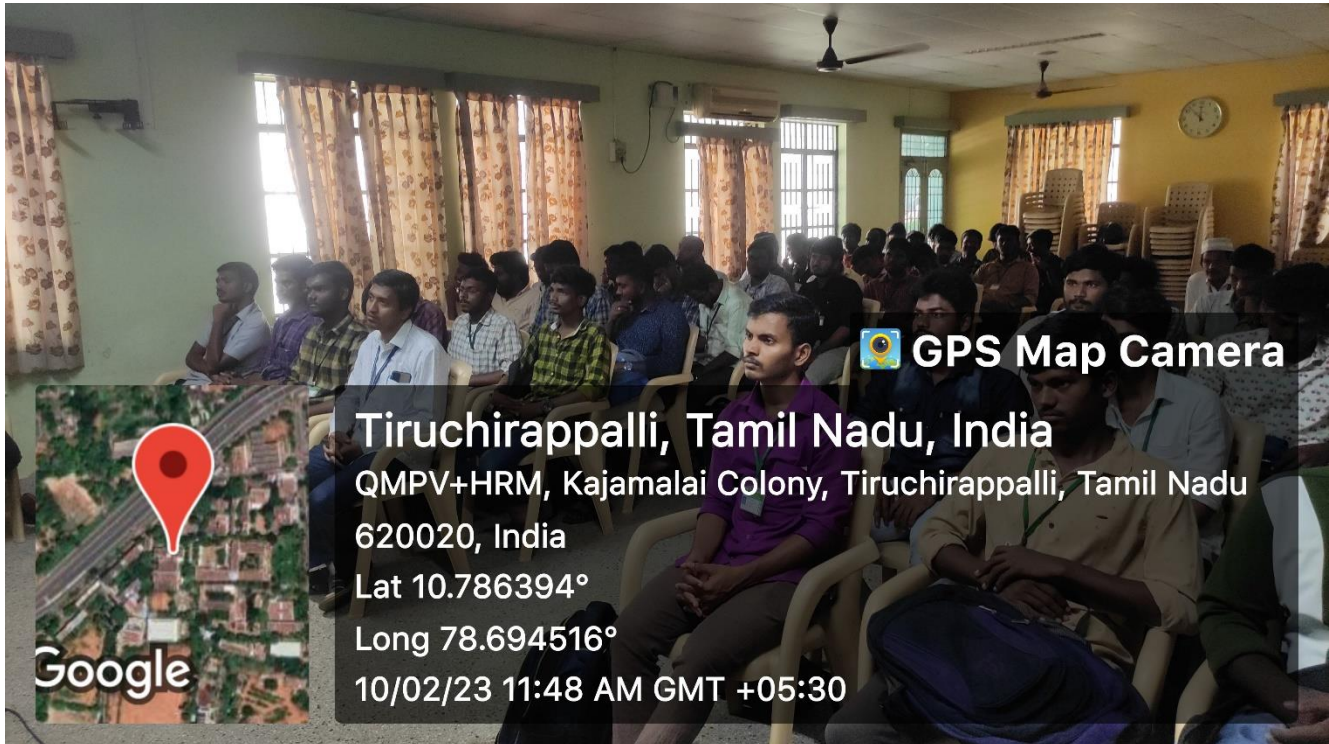
Department of Applied Mathematics

Bharathiar University

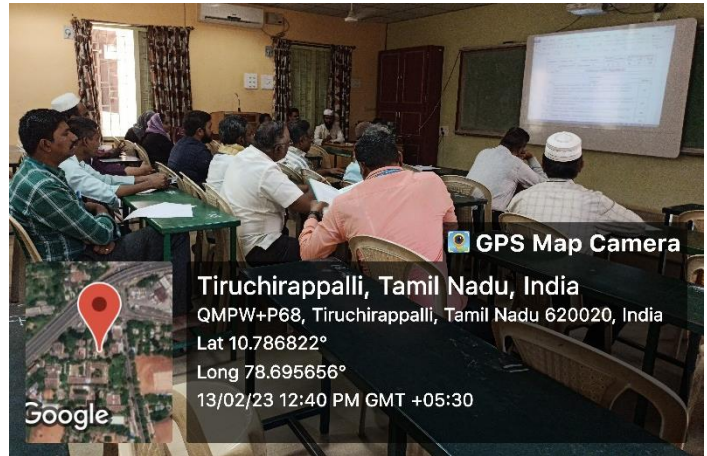
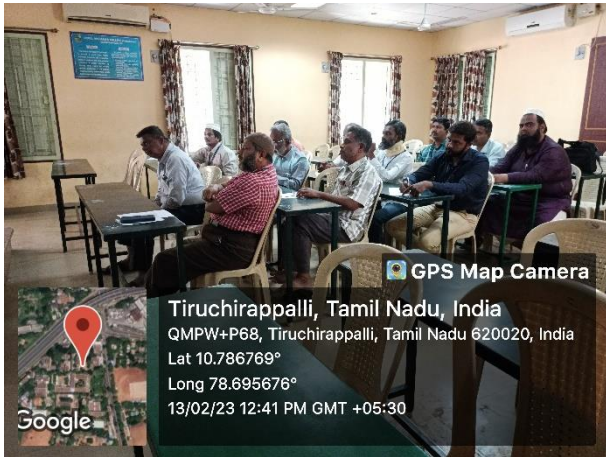
Coimbatore –641046



Special Lecture on **A technique for Analysis of Dynamical Systems : Lyapunov Method** was organized by PG and Research Department of Mathematics for the benefit of Post Graduate students of Mathematics of our College on 10.02.2023. 27 students benefitted out of this programme.



Board of Studies Meeting (Internal) on 13.02.2023





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TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

welcomes you all to attend a

Special Lecture on

Internship opportunities: Mathematics Graduates

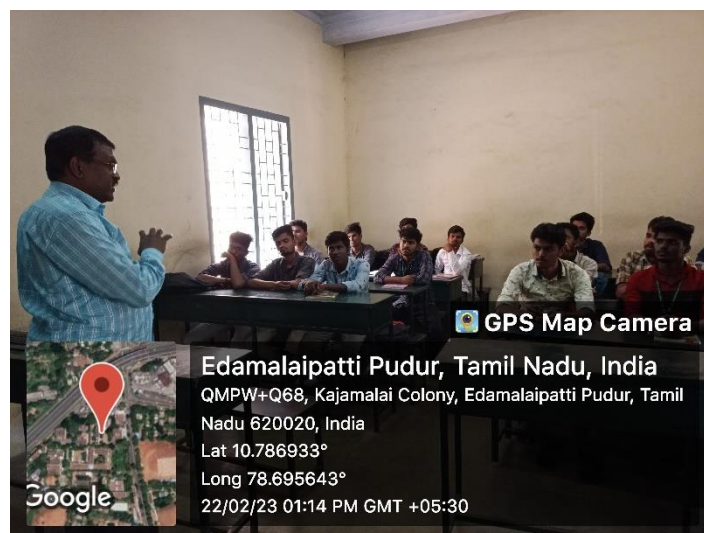
On 22.02.2023

Target Audience: I M.Sc. Mathematics

Venue: LH 14

Special Address : Dr. R. Bharani Kumar, Head,
Skill Development and CSR,
Bannari Amman Institute of Technology,
Sathyamangalam

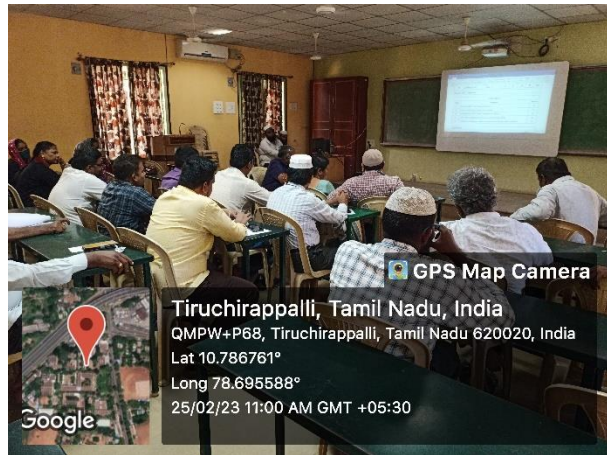
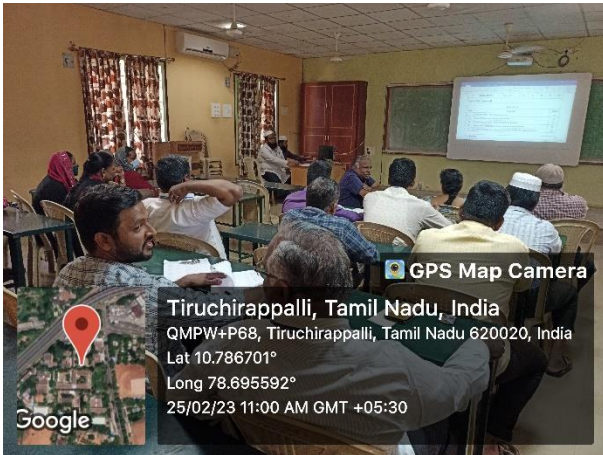
Special Lecture on **Internship opportunities: Mathematics Graduates** was organized by PG and Research Department of Mathematics for the benefit of Post Graduate students of Mathematics of our College on 22.02.2023. More than 20 students benefitted out of this programme.



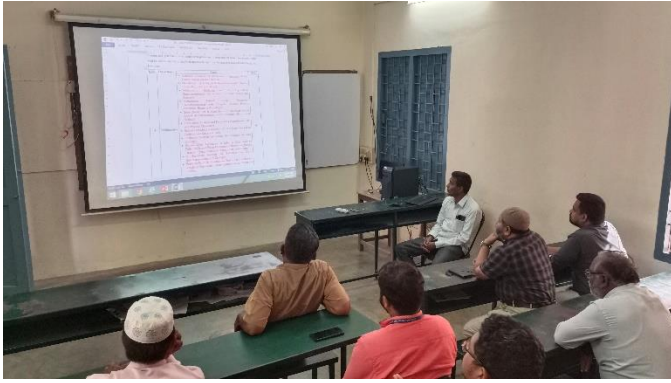
Parents Teachers Meeting on 24.02.2023



Board of Studies Meeting (External) on 25.02.2023



**DBT Star College Scheme Status Proposal Presentation
in front of the Department Staff members**





JAMAL MOHAMED COLLEGE

(Autonomous)

TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

20.06.2023

Report on Student Induction Programme conducted from 14.06.2023 to 20.06.2023

I BSc Mathematics (Aided)

Jamal Mohamed College (Autonomous), Tiruchirappalli organized a week long Student Induction Programme from 14.06.2023 to 20.06.2023 for the first - year students who have joined in the academic year 2023-24. This course is aimed at bridging the gap between the school and the college. The students are given orientation on 26 aspects such as the curriculum, library resources, Examination and evaluation methods, campus placements, Centre for extension activities, etc., also a 30 hour Bridge Course on English and Computer Literacy programme are given to the students. On the first day of the programme 14.06.2023, In the inauguration at NBAG Auditorium, Dr. D.I. George Amalarethnam, Vice-Principal, welcomed the gathering. Dr. A.K. Khaja Nazeemudeen, Secretary and Correspondent, Hajee M.J. Jamal Mohamed, Treasurer and Dr. K. Abdus Samad, Assistant Secretary felicitated the new students. During the inaugural session Dr. S. Ismail Mohideen, Principal of the college detailed the rules and regulations of the college and introduced various Heads of the Departments to the new comers. Dr. K. Prabakar, Coordinator of Student Induction Programme explained the details of a week long Programme. Dr. A. Ishaq Ahamed, Additional Vice-Principal, proposed the Vote of thanks. Dr. K.N. Abdul Khader Nihal, Director & Hon. Member, Dr. K.N. Mohamed Fazil, Director, Hostel Administration, and Ms. J. Hajira Fathima, Director, Hostel Administration Women, Bursar, Controller of examinations, Co-ordinators, HODs, MIDs and professors graced the occasion. After the inauguration at NBAG Auditorium, all the first year UG students of Mathematics were assembled at LH-40 on 14.06.2023. The Head of the Department incharge Dr. R.Jahir Hussain, Associate Professor of Mathematics explained on the significant role of the Department of Mathematics over the years and encouraged them for taking up the Course. He talked on the morals and ethics the students should imbibe. After the HOD Address, Roll Numbers are intimated to students concerned by Dr.A.Prasanna, Class Teacher.

The second and third day of the Student Induction (15.06.2023 & 16.06.2023) included lectures by the staff members of the Mathematics Department who conducted the sessions as per the Schedule given below, the Staff members talked on the 26 aspects insisted in Circular No:001 dated 05.06.2023.

Sl.No.	Name of the Staff	Topics covered
1.	Dr. M. Mohammed Jabarulla	Brief profile of the College Department profile & Awareness for NAAC Committee Visit; Rules and Regulation of the College & College timing; How to get Bonafide and other certificates from College office; UGC - Online Courses (SWAYAM, NPTEL & MOOC).
2.	Dr. S. Mohamed Yusuff Ansari	Department Association Activities; Part V Extension activities and selection; JAMCROP – Grade; Vision – JMC IAS academy; Fine Arts.
3.	Dr. P. Muruganantham	General library and Department library; Placement cell and job opportunities; Counselling Centre; Health Care Centre; Communication Lab.
4.	Dr. N. Mohamed Thoiyab	Course Structure: Part-I, Part-II, Part-III, Part-IV, Part-V, Major, allied and Overall view of the Syllabus-Semester wise and Language finalization – Part I; CIA Components – Test 1, Test 2 – Portions 50% (Theory - Internal 25 and External 75) (Practical – Internal 20 and External 80); Semester Examinations; Generic Elective & Selection; Innovation activities – Innovation Cell.
5.	Dr. U. Abuthahir	ERP portal and online fees payment; Applying for leave – Half day/ Full day; Working Days: 90 - Condonation on medical reasons/ Redo; Sports; Scholarship; Create WhatsApp group/Visit web: jmc.edu.

On 16th June 2023, the Dr.A.Prasanna, Class Teacher engaged the students and briefed on various Part V Activities and finalized their choice.

The Computer Literacy Programme was conducted on 17th June 2023. The Sessions Enlighted basics of Computers and its applications, Programming languages and Software like MS-Office tools were discussed in the Programme.

The Bridge Course in English was conducted on 19th and 20th June 2023. The sessions highlight the importance of English language, Tips for improving communication skills, Syllabus of Part II English, Introduction about Grammar and vocabularies were discussed.

60 students participated in the Programme and got benefitted. At the end of programme the Students feedback were received regarding the Induction Programmes.


Head of the Department

PG & Research Department of Mathematics (Aided)

Jamal Mohamed College (Autonomous)

Tiruchirappalli 620 020

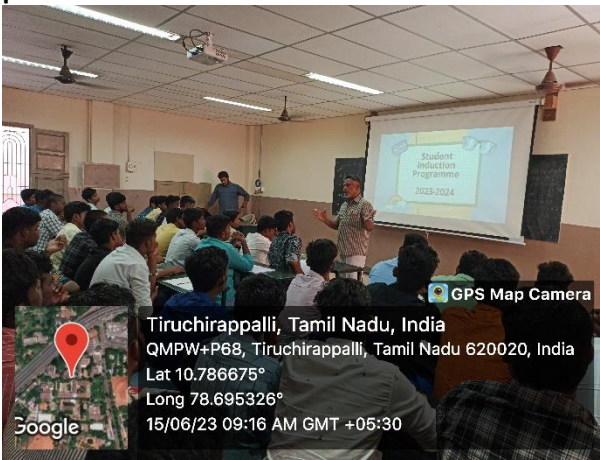
Snapshots on Student Induction Programme



Prof. S.Masoothu adress the Students in the presence of Dr. R. Jahir Hussain on 14.06.2023



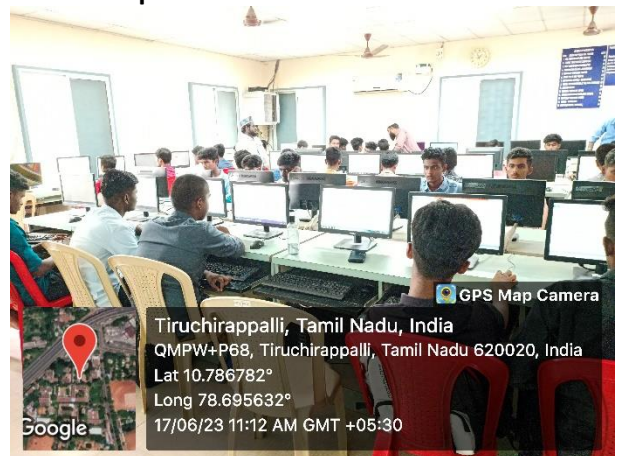
Dr.A.Prasanna, Class Teacher interacts with Students



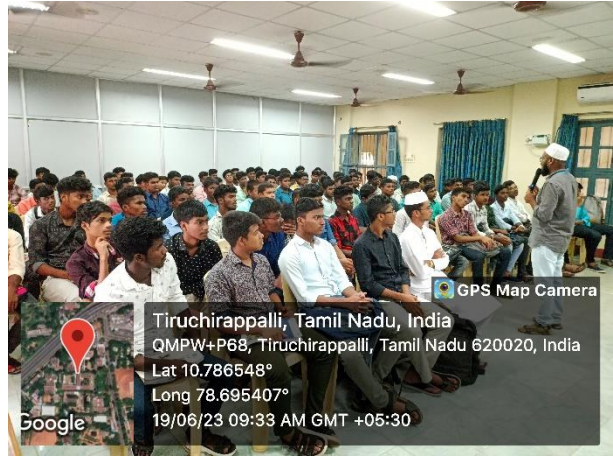
Dr.M.Mohammed Jabarulla Speaks



Dr.N.Mohamed Thoiyab addressing the students on Curricular Aspects

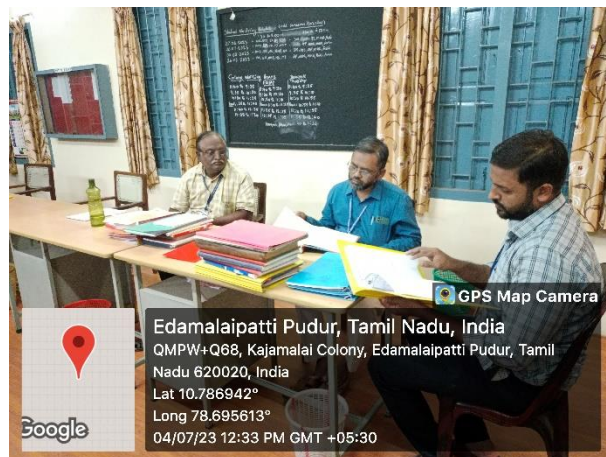


Computer Literacy Programme at the Department Lab on 17.06.2023



Bridge Course in English on 19.06.2023 & 20.06.2023

NAAC 4th Cycle Accreditation – Pre Document Verification by our College IQAC Team 04.07.2023





31st National Children's Science Congress (NCSC) - 2023

Coordinate By :

**TamilNadu Science Forum &
Department of Mathematics,
Jamal Mohamed College (Autonomous), Tiruchirappalli**

Workshop for the Resource Persons - East Zone



Understanding Ecosystem
for Health and Well-being

Focal Theme : Understanding Ecosystem for Health and Well-being

**Venue : Mathematics Seminar Hall,
Jamal Mohamed College (Autonomous),
Tiruchirappalli - Tamilnadu**

Date : 2023 July 08 (Saturday)

Tamil Nadu Science Forum and Jamal Mohammed College Mathematics Department jointly organized the 31st National Children's Science Conference - 2023 East Zone Training at Jamal Mohammed College Mathematics Department Seminar Hall, Tiruchirappalli from 10.30 am to 5.30 pm. The training was held under the leadership of Tamil Nadu Science Forum State Vice President Mr. M. Manikadai. Trichy District Secretary Mr. M. Manikandan gave the welcome speech. NCSC East Zone Coordinator Dr. Arunvivek spoke about the objective of the training. The Secretary and Principal of the college presided. Dr. R. Jahir Hussain, Head of the Department of Mathematics, Jamal Mohamed College, inaugurated the training camp and addressed it. Mr. R. Jeevanandham, State Treasurer, Tamil Nadu Science Forum, spoke about NCSC's past experiences and Mr. MS Stephen Nathan, State Secretary, spoke about the awareness created in the districts by NCSC research papers.

Theme (Focal Theme) : Understanding Ecosystem for Health and Well-being

The details of Resource Person and their topic of lecture based on the Sub-theme (Sub Theme) are :

1. Know your ecosystem

Dr. Na. Sathyamurthy,

Assistant Head Master,

E. R High School, Tiruchirappalli

2. Promoting health, nutrition and well-being

(Fostering Health, Nutrition and Well-being) &

3. Social and Cultural Practices for Environment and Health

(Social and Cultural Practices for Ecosystem and Health)

Dr. B. Mariappan,

Head, Department of Zoology,

Saraboji Government College, Thanjavur

4. An Eco-Based Approach to Self-Reliance

& 5. Technological innovation for environment and health

Dr. M. A. Ribayat Ali,

Assistant Professor, Department of Mathematics,

Jamal Mohammed College, Tiruchirappalli.

6. Project Presentation

Mr. B. Dandapani,

Zoology Teacher,

Government Higher Secondary School,

Bainganadu, Mannargudi.

7. Evaluation Process

Dr. M. Salahuddin,
Assistant Professor,
Department of Zoology,
Jamal Mohammed College, Tiruchirappalli.

Dr.V.Sukumaran, State Vice-President, Tamil Nadu Science Forum and NCSC State Coordinator, delivered the closing speech in the closing ceremony of the training held in the evening. Finally, Trichy District NCSC Education Coordinator Dr. Jani Kumar Tagore delivered the vote of thanks. Certificates were awarded to all participants and panelists.

Participation of Districts :-

1. Tiruvarur = 4 persons
2. Thanjavur = 4 persons
3. Perambalur = 2 persons
4. Ariyalur = 4 persons
5. Cuddalore = 3 persons
6. Forgerly = 2 persons
7. Mayiladuthurai = 3 persons
8. Pudukottai = 3 persons
9. Trichy = 14 persons
10. Theni = 1 person

48 persons including Trichy district administrators participated.



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

Accredited (3rd Cycle) with 'A' Grade by NAAC

(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

cordially invites you to the

Major M.Aravandi Endowment Lecture &

The Inauguration of Mathematics Association Activities (2023-24)

at 10.30 a.m. on Wednesday, 12th July 2023 at N.M. Khajamian Auditorium

In the presence of

Janab. M. J. Jamal Mohamed Bilal

President

Hajee. M.J. Jamal Mohamed

Treasurer

Dr. A. K. Khaja Nazeemudeen

Secretary & Correspondent

Dr. K. Abdus Samad

Assistant Secretary

Dr. K. N. Abdul Kader Nihal

Member & Hon. Director

Welcome Address & Introduction of Chief Guest : **Dr. R.Jahir Hussain**, HOD (i/c) of Mathematics

Presidential Address : **Dr. S. Ismail Mohideen**
Principal

Special Address : **Dr. T. Asir**
Associate Professor of Mathematics
Pondicherry University
Pondicherry

Topic : **Applications of Mathematics in Science & Technology**

Vote of Thanks : **Dr.A. Mohamed Ismayil**, Associate Professor of Mathematics

Your glorious presence will be our great pleasure

The Office Bearers (Men) of Mathematics Association 2023-24

President	Dr.S. Ismail Mohideen Principal & HOD of Mathematics
Advisor	Dr.R. Jahir Hussain HoD (i/c)
Vice President	Dr. A. Prasanna Assistant Professor
Secretary	A.Mohamed Umar Farrok, II M.Sc
Joint Secretaries	R.Manikandan, II M.Sc
	AV. Ahil Ahamed, I M.Sc
	M.Adnan Mohamed Aslam, III B.Sc
Executive Committee	M.Srinivasan, I M.Sc
	M.Mohamed Rahmadullah, III B.Sc
	A.Prasanna, III B.Sc
	A.K. Mohamed Hisham Nihal, II B.Sc
	H.Mohammed Fazil, , II B.Sc
	B. Prasanna Kumar, I B.Sc
	G. Asvin, I B.Sc
PRO	S.Asaraf Khan, III B.Sc
	S.Syed Sameer Sulaiman, II B.Sc
	A. Venkat Srinivas, I B.Sc

Report

Major M.Aravandi Endowment Lecture and the Inauguration of Mathematics Association Activities (2023-24) was held at 10.30 a.m on 12.07.2023 in the Department of Mathematics, Jamal Mohamed College, Trichy. It is noteworthy that the Endowment Lecture was established with a financial assistance sponsored by Major. M.Aravandi, a Former Professor of the College for the benefit of the students belonged to Mathematics discipline.

For this year Dr.T.Asir, Associate Professor of Mathematics, Pondicherry University, Pondicherry was the Chief Guest for the Special Lecture Programme. He gave an interesting lecture on the topic " **Applications of Mathematics in Science & Technology** " for the benefit of the student to grasp the concepts and ideas.

Earlier Dr. R.Jahir Hussain, HOD (i/c) of Mathematics welcomed the gathering and Dr. S. Ismail Mohideen, Principal delivered the Presidential Address.

Dr. A. K. KhajaNazeemudeen, Secretary & Correspondent, Hajee. M.J. Jamal Mohamed, Treasurer, Dr.K.AbdusSamad, Assistant Secretary and Dr. K. N. Abdul Kader Nihal, Member & Hon. Director greeted the gathering. 147 students and 2 staff attended the lecture.

At the end of the programme Dr.A. Mohamed Ismayil, Associate Professor of Mathematics proposed the Vote of Thanks and the entire event was organized and looked after by the Professors of the Department of Mathematics.





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 620020, India
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 Long 78.695556°
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Outcome:

- Students gained the knowledge to engage in analyzing, solving, and computing real-world applications of finite and discrete mathematics.
- Students learned how to use mathematical concepts and techniques in practical and applied problems.
- Students learned how to use technology to implement mathematical theory in applied contexts.



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

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PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

&

Dr. A.P.J. ABDUL KALAM CLUB

(Affiliated to Vignyan Prasara Network of Science Clubs)
Club ID: VP-TN0056

cordially invite you all to a **Special Lecture**
at 9.30 a.m. on 14.07.2023 at **LH-40**

Welcome Address :
Presidential Address : **Dr. R. Jahir Hussain**
HOD (i/c) of Mathematics

Special Address : **Dr. E. G. RAJAN**
Chairman, Pentagram Group of Companies
(India, UK, USA & Canada)



Topic : Career Opportunities in Mathematical Sciences

Grace the occasion with your Glorious presence

PRESS NEWS

P.G & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli Mathematics Association and Dr.A.P.J. Abdul Kalam Club jointly organized a Special Lecture on 14.07.2023. Dr. E. G. RAJAN, Chairman, Pentagram Group of Companies (India, UK, USA & Canada) delivered the Special Address on the topic “Career Opportunities in Mathematical Sciences”. The arrangements were made by the faculty members of the Department.

Total No. of Students benefitted: 55





**JAMAL MOHAMED COLLEGE
(AUTONOMOUS)
TRICHY**

**PG and Research
Department of Mathematics**

INVITES YOU ALL TO

PROJECT MAHOUT

Theme :
**Students deserve an
Educational boost
on Maths**

An initiative for students to excel in
Mathematics through demonstrating and
explaining Maths concept leveraging DBT
Math lab's - Models on Maths

Venue : Smart Room, Ayesha
Girls Matriculation
Hr. Sec school

Date : 14.07.2023 to 15.07.2023

Time : 10.00 Am to 12.30 pm



Over 18 students of Department of Mathematics, Jamal Mohamed College, Trichy-20 have conducted 2 days Mathematical Model Demonstration under DBT Star College Scheme Activities -Project MahOut (An Outreach activity to Rural School students to bring out Real Math interest) to the student of Grade-6 to 8 of Ayesha Girls Matriculation Hr.Sec.School, Trichy-20. Sum of 80 students have benefitted by this program through interactive models and Mind Fresh sessions handled by Math Department students on 14/07/2023 to 15/07/2023



**JAMAL MOHAMED COLLEGE
(AUTONOMOUS)
TRICHY**

**PG and Research
Department of Mathematics**

INVITES YOU ALL TO

OUTREACH PROGRAM

Theme :

**Students deserve an
Educational boost
on Maths**

An initiative for students to excel in
Mathematics through demonstrating and
explaining Maths concept leveraging DBT
Math lab's - Models on Maths

Venue : DBT MATH HALL

Date : 18.07.2023 to 21.07.2023

Time : 2.00 Pm to 4.00 Pm



On 18rd July,2023, Students of Grade 9 of the same school have visited our College campus to explore our Math Lab maintained under DBT Star Scheme. Over 32 students have benefited by this visit.

On 19th July,2023, Over 22 Students from Grade-10 have visited our campus to explore the same and we've handled many interactive sessions such us Math Quiz, Connection, Find Me etc. as a sign of improving the student's mental ability.

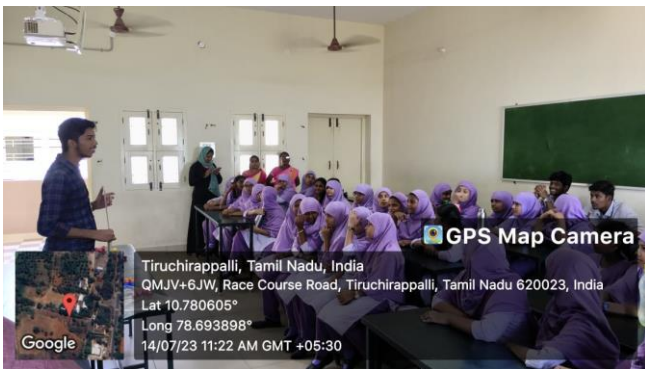
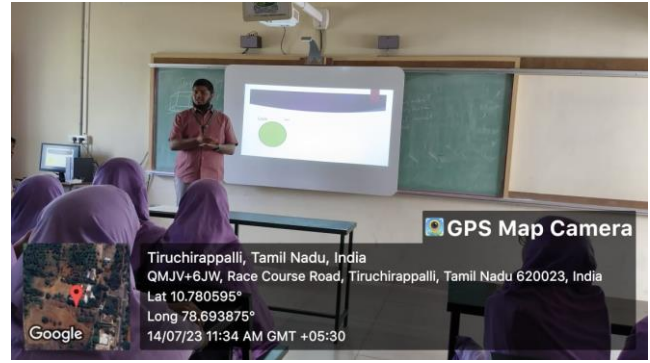
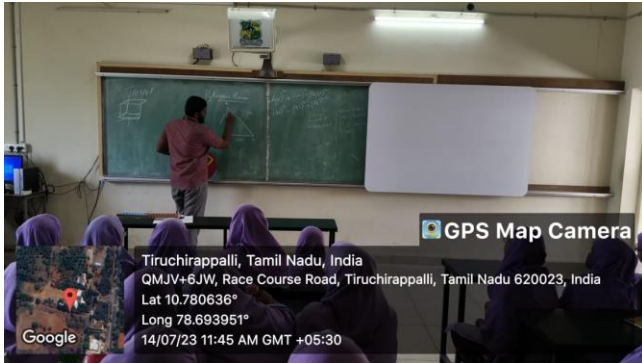
On 20th July,2023, Students of Grade 12 of the same school have visited our College campus to explore our Math Lab and we've handled interactive sessions such us Math Quiz , Connection , some simple trigonometry concept , circle wave from pi , string way distance and practical games . Maintained under DBT Star Scheme. Over 25 students have benefited by this visit.

On 21th July,2023, Over 28 Students from Grade-10 have visited our campus to explore the same and we've handled many interactive sessions such us Math Quiz, Connection, some concept of Algebraic system, polyhedral fixtures, angular ball hitter and we play with students in mathematical concept as string way distance . as a sign of improving the student's mental ability.

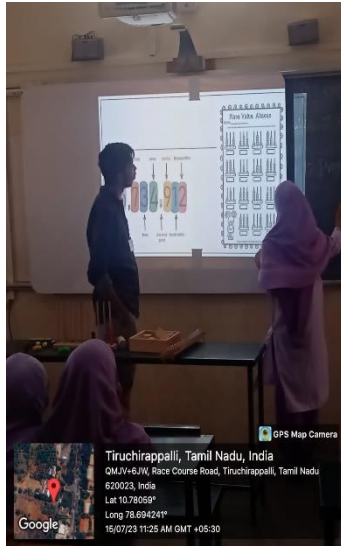
An Outreach Activity

Math Lab DBT Star College Scheme

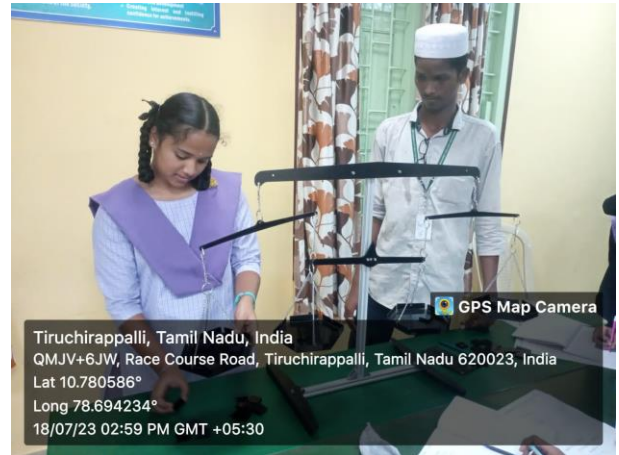
14.07.2023



15.07.2023



Math Lab DBT Star College Scheme - 18.07.2023



Math Lab DBT Star College Scheme - 19.07.2023



Math Lab DBT Star College Scheme - 20.07.2023



Math Lab DBT Star College Scheme - 21.07.2023



Outcome:

Students from Ayesha Girls Matriculation Hr. Sec. School, Trichy were able to learn complex mathematical concepts simply through DBT Math Lab.



JAMAL MOHAMED COLLEGE

(AUTONOMOUS)

ACCREDITED (3RD CYCLE) WITH 'A' GRADE BY NAAC
(AFFILIATED TO BHARATHIDASAN UNIVERSITY)
TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

WE CORDIALLY INVITE YOU TO

FRESHERS DAY

2023

WE ARE CORDIALLY INVITING FOR YOUR PRESENCE IN
THIS AWFUL & FRESHFUL OCCASION OF CELEBRATING
JOY OF FRESHERS TO JOIN WITH OUR JOURNEY HERE

VENUE : COMMERCE (SF) SEMINAR HALL
ON 20TH JULY 2023

IN THE PRESENCE OF THE ENTIRE FRATERNITY OF THE DEPARTMENT,
PG & RESEARCH DEPARTMENT OF MATHEMATICS.

ORGANISED BY,
II PG, III & UG STUDENTS OF THE
DEPARTMENT

The purpose of Fresher's Party is to welcome new students in a friendly atmosphere and to encourage their creative impulses to boost their confidence. It is the day where seniors and juniors finally bond and unite to celebrate being part of the college.

On 20th July 2023, the fresher's party of Mathematics-2023 Batch was conducted by Department of Mathematics Jamal Mohamed College to welcome the fresher batch. The event was organized by Senior Batch (Both UG & PG) in Commerce SF Seminar Hall to welcome their juniors and mark the beginning of their new journey in their career.

The event was graced by the presence of the HOD Dr.R.Jahir Hussain and other staff members. An encouraging welcome address was given by Mr. Manikandan, II M.Sc in which he motivated and enlighten the students for their future plans ahead in their career.

The students of Senior batches performed various dance and singing events to welcome their juniors after that the students of Mathematics-2023 introduced themselves and performed dance, poetry, and singing performances to showcase their talents.

Hon'ble Secretary, Treasurer and Principal of the College has sent the message to extend their blessings to the organizing team and the fresher students.

The event was successfully organized by II PG, III UG and II UG students of Mathematics under the support and guidance of the department staff members. Totally 161 students participated in this event.



Outcome:

Students had the opportunity to show off their skills, and seniors and juniors developed positive relationships.

An Alumni get-together was held for the students who studied B.Sc Mathematics in 1977-80 at Jamal Mohammed College, Trichy on 15.08.2023. They spoke passionately sharing interesting incidents from their college days, contribution of professors and family events. In this event, 19 students shared their experiences also saying that they are meeting after 43 years. With the support of the Management, Principal Dr. S. Ismail Mohideen, Head of Department (i/c) Dr. R. Jahir Hussain and the department professors were present. Mohammad Asaraf Ali and Rajarajan organized the meeting with their fellow students and conducted it well.





JAMAL MOHAMED COLLEGE (Autonomous)

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TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

&

Dr. A.P.J. ABDUL KALAM CLUB

(Affiliated to Vigyan Prasar Network of Science Clubs)

Club ID: VP-TN0056

cordially invite you all to

Special Lecture on

Goal Setting and Planning for Success

at 10.30 a.m. on Monday, 4th September 2023 at N.M. Khajamian Auditorium



Programme

Prayer : H.Mohamed Rahmadullah, III B.Sc

Welcome Address : R.Manikandan, II M.Sc

Presidential Address : **Dr. S. Ismail Mohideen**
Principal

Felicitations :

Dr. A. K. Khaja Nazeemudeen
Secretary & Correspondent

Hajee. M.J. Jamal Mohamed
Treasurer

Dr. K. Abdus Samad
Assistant Secretary

Dr. K. N. Abdul Kader Nihal
Member & Hon. Director

Dr. D.I. George Amalarethinam
Vice Principal

Dr. A. Ishaq Ahamed
Additional Vice Principal

Dr. A.J. Haja Mohideen
Additional Vice Principal

Dr. K. N. Mohamed Fazil
Director-Hostel Administration

Ms. J.Hajira Fathima
Director-Women Hostel

Distribution of Certificate of Merit

Introduction of the Chief Guest: A.Prasanna , III B.Sc

Special Address : Mr. K. MURALI
Technical Operational Advisor to Regional
Executive Director, Southern Region
Airports Authority of India

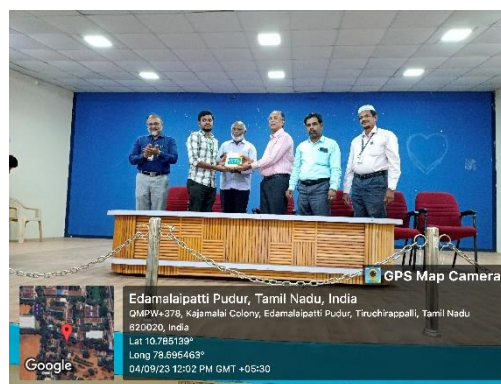
Vote of Thanks : A.Mohamed Umar Farrok, II M.Sc

The Office Bearers (Men) of Mathematics Association 2023-24

President	Dr.S. Ismail Mohideen Principal & HOD of Mathematics
Advisor	Dr.R. Jahir Hussain HoD (i/c)
Vice President	Dr. A. Prasanna Assistant Professor
Secretary	A.Mohamed Umar Farrok, II M.Sc
Joint Secretaries	R.Manikandan, II M.Sc
	AV. Ahil Ahamed, I M.Sc
	M.Adnan Mohamed Aslam, III B.Sc
Executive Committee	M.Srinivasan, I M.Sc
	H.Mohamed Rahmadullah, III B.Sc
	A.Prasanna, III B.Sc
	A.K. Mohamed Hisham Nihal, II B.Sc
	H.Mohammed Fazil, , II B.Sc
	B. Prasanna Kumar, I B.Sc
	G. Asvin, I B.Sc
PRO	S.Asaraf Khan, III B.Sc
	S.Syed Sameer Sulaiman, II B.Sc
	A. Venkat Srinivas, I B.Sc

A Special Lecture was conducted on 04.09.2023 on behalf of the Department of Mathematics at Jamal Mohammed College, Trichy. In the presence of the college management committee members, the principal of the college, Dr. S. Ismail Mohideen presided. Chief Guest Mr. K. Murali, Technical Operational Advisor to Regional Executive Director, Southern Region, Airports Authority of India, delivered a Special Address on “Goal Setting and Planning for Success”. Certificates of appreciation were given to the students of mathematics department who got the first and second ranks in their subjects at the college level on this occasion. Mr. R. Manikandan, a second year post-graduate student of mathematics, delivered the welcome speech. Finally, Mr. Karthikeyan, a second year post-graduate student of Mathematics proposed the vote of thanks.

No. of Students benefitted: 139



NAAC Peer Team Visit on 20th & 21st September 2023







JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

Organizes

Hands-on workshop "Virtual Lab- An Learner Perspective"

In association with

VALUE VIRTUAL LABS - AMRITA VIRTUAL LABS

Resource Persons



Mr. P.F. Saneesh

Project Manager & Technical Lead
Virtual Labs
Amrita Vishwa Vidyapeetham



Ms. C.J. Shanamol

Project Assistant
Virtual Labs
Amrita Vishwa Vidyapeetham

Coordinator

Dr. A. Prasanna
Assistant Professor
Department of Mathematics

Convenor

Dr. R. Jahir Hussain
Head(I/C)
Department of Mathematics

Chairman

Dr. S. Ismail Mohideen
Principal
Jamal Mohamed College

 26.09.2023

 9.00 AM to 5:00 PM

 MATHS LAB



Since 1951



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

cordially invites you to the

One day Workshop on

Virtual Labs

(An initiative of Ministry of Education under National Mission on Education through ICT)

Conducted by **VALUE Virtual Labs, Amrita Vishwa Vidyapeetham**
in Collaboration with
Jamal Mohamed College

at 9.30 a.m. on Tuesday, 26th September 2023 at Hussaindeen Hall

Agenda

Prayer : Mr. H.Mohamed Rahmadullah, III B.Sc

Welcome Address : Mr. H. Mohammed Fazil, II B.Sc

Presidential Address : **Dr. S. Ismail Mohideen**
Principal

Felicitations :

Dr. A. K. Khaja Nazeemudeen
Secretary & Correspondent

Hajee. M.J. Jamal Mohamed
Treasurer

Dr. K. Abdus Samad
Assistant Secretary

Dr. K. N. Abdul Kader Nihal
Member & Hon. Director

Dr. D.I. George Amalarethnam
Vice Principal

Dr. A. Ishaq Ahamed
Additional Vice Principal

Dr. A.J. Haja Mohideen
Additional Vice Principal

Dr. K. N. Mohamed Fazil
Director-Hostel Administration

Ms. J.Hajira Fathima
Director-Women Hostel

Introduction of the Chief Guest: Mr. A.Prasanna , III B.Sc

Resource Persons

: Mr. P.F. Saneesh

Project Manager & Technical Lead
Amrita Vishwa Vidyapeetham

Ms. C.J. Shanamol

Project Assistant
Amrita Vishwa Vidyapeetham

Vote of Thanks

: Mr. Adnan Mohamed Aslam, III B.Sc

One Day Workshop on Virtual Labs (An initiative of Ministry of Education under National Mission on Education through ICT) conducted by Value Virtual Labs, Amrita Vishwa Vidyapeetham in collaboration with Department of Mathematics, Jamal Mohamed College, Trichy on 26.09.2023. Resource Persons for this event Mr. P.F. Saneesh, Project Manager, Amrita Vishwa Vidyapeetham and Mr. C.J.Shanamol, Project Assistant, Amrita Vishwa Vidyapeetham.

College Principal Dr. S. Ismail Mohideen presided over the function in the august presence of the college management committee members. The arrangements for this event were well organized by the head of the department of mathematics and department professors.

Total No. of Staff and Students benefitted: 52



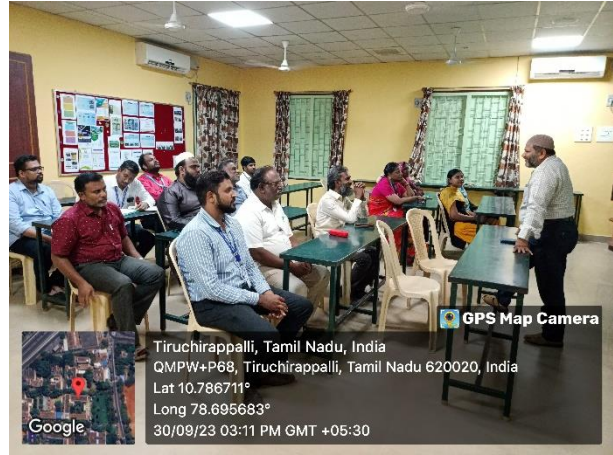


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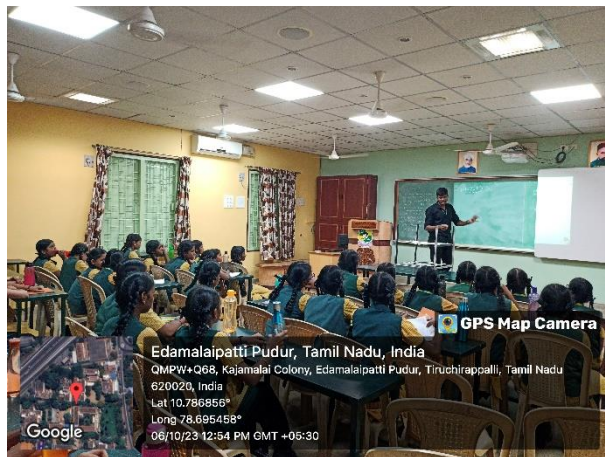
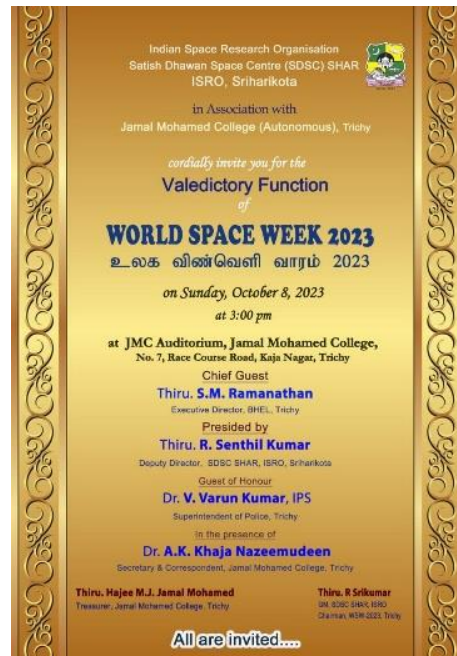
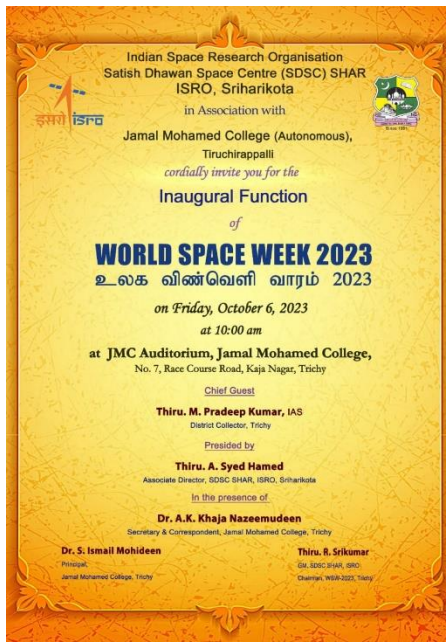
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External Boars of Studies on 30.09.2023



DBT Star College Scheme Math Lab Visit 6th to 8th October 2023





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Long 78.695714°
08/10/23 12:59 PM GMT +05:30



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620020, India
Lat 10.786937°
Long 78.696756°
07/10/23 09:47 AM GMT +05:30

List of Schools/ Students visited –Math Lab

DATE : 06-10-2023

SL.NO	SCHOOL NAME	ADDRESS	CLASS	STUDENTS	STAFF	TOTAL
01	GOVERNMENT GIRLS HR.SEC.SCHOOL	METTUPALAYAM , MUSIRI , TRICHY-621210	XI & XII	142	07	149
02	CSI HR.SEC.SCHOOL	THURAIYUR ,TRICHY	VI - IX	33	03	36
03	SVR MATRICULATION HR,SEC.SCHOOL	ATHANI, MANACHANALLUR , TRICHY	VIII-IX	91	06	97
04	SVV PUBLIC SCHOOL	ALLUR , TRICHY	IV - IX	41	03	44
05	DHANALAKSHMI SRINIVASAN HR.SEC.SCHOOL	TRICHY	VIII-IX	170	08	178
06	ST.JOHNS VESTLY HR.SEC.SCHOOL	TRICHY	XI & XII	55	04	59
07	ST.ANTHONY HIGH SCHOOL	SUNDAR NAGAR, TRICHY	VII - IX	148	06	154
08	BHEL MATRIC HR.SEC SCHOOL	TRICHY	V- VII	100	04	104

DATE : 07-10-2023

SL.NO	SCHOOL NAME	ADDRESS	CLASS	STUDENTS	STAFF	TOTAL
01	DALMIA VIDYA MANDIR	KALLAKUDI , DALMIAPURAM	XI & XII	32	02	34
02	KINGSLEY MATRIC SCHOOL	VAYALUR ROAD, TRICHY-12	X	31	03	34
03	ST.JOAN OF ARC INTERNATIONAL SCHOOL	TRICHY-620102	XI	30	03	33
04	PANCHAYAT UNION MIDDLE SCHOOL	THUVARRANKURICHY -621314	III-V	74	06	80
05	SAMADH HR.SEC.SCHOOL	KAJANAGAR	X	56	14	70
06	GOVT.MODEL. HR.SEC.SCHOOL	MANNACHANALLUR	IX-XI	350	29	379
07	SBIOA SR,SEC.SCHOOL	TRICHY	IV-VII	71	07	77
08	LAWRENCE MATRIC HIGH SCHOOL	MULLIPATTY	IV-X	71	07	77
09	KAJAMIAN HR.SEC.SCHOOL	KAJANAGAR	VI-XII	78	05	83
10	SASV	DHEERAN NAGAR	VIII-XII	67	06	73
11	ALLIF MATRICULATION SCHOOL	VALOOTHOR, THANJAVUR	I-VII	22	06	28
12	GOVERNMENT GIRLS HR.SEC. SCHOOL	MANAPPARAI	XI-XII	124	05	129
13	GNPS	AMMANGADI ,JEEYAPURAM	XI-XII	26	02	28
14	AL HUDHA HR.SEC.SCHOOL	AIRPORT, TRICHY	XI-XII	41	03	44

DATE : 08-10-2023

SL.NO	SCHOOL NAME	ADDRESS	CLASS	STUDENTS	STAFF	TOTAL
01	ST.JOSEPH'S GIRLS HR.SEC.SCHOOL	PONMALAIPATTY	XI	26	01	27
02	VIVEKANDHA HR.SEC.SCHOOL	TRICHY	XII	78	06	84
03	ST.NARTERT NURSERY & PRIMARY SCHOOL	K.K NAGAR	I-V	60	08	68
04	SWAMI VIVEKANDHA NURSERY & PRIMARY SCHOOL	THURAIYUR ,TRICHY	I-V	37	01	38
05	TAMILNADHAR HR.SEC SCHOOL	-	XI	12	01	13
06	GHSS	THANAJAVUR	XI-XII	57	04	61
07	JAMIA MINHAJUL ISLAM	TENNUR,TRICHY	XI-1 ST UG	40	03	43
08	JAFAR SIDIQ	KAKIMAGAL HR.SEC.SCHOOL	FAMILY	-	-	04
09	AHAMED BILAL	ST.JAMES HR.SEC.SCHOOL	FAMILY	-	-	05

M.Sc Mathematics students in ISRO SPACE WEEK 2023 at JMC





Jamal Mohamed College (Autonomous)

Accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0
(Affiliated to Bharathidasan University)

Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Trends and Technology
Title of the Programme : Hands on Tanning on Sage Math
Venue: Mathematics Lab Date: 05-12-2023



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

&

Dr. A.P.J. ABDUL KALAM CLUB

(Affiliated to Vigyan Prasar Network of Science Clubs)
Club ID: VP-TN0056



cordially invite you all to

Hands on Tanning on Sage Math on 5th December 2023 at Mathematics Lab

In the presence of

Janab. M. J. Jamal Mohamed Bilal, President
Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent
Hajee. M.J. Jamal Mohamed, Treasurer
Dr.K.Abdus Samad, Assistant Secretary

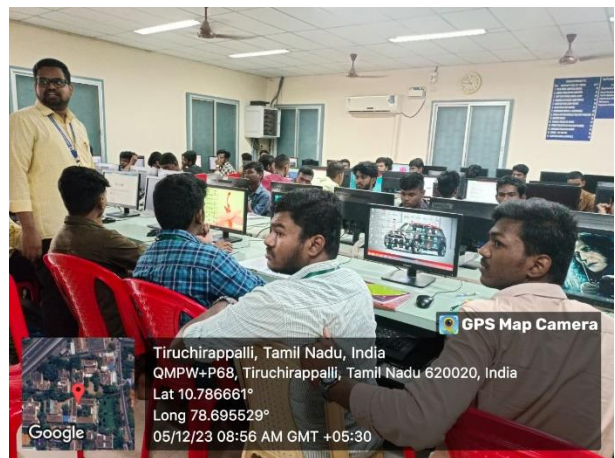
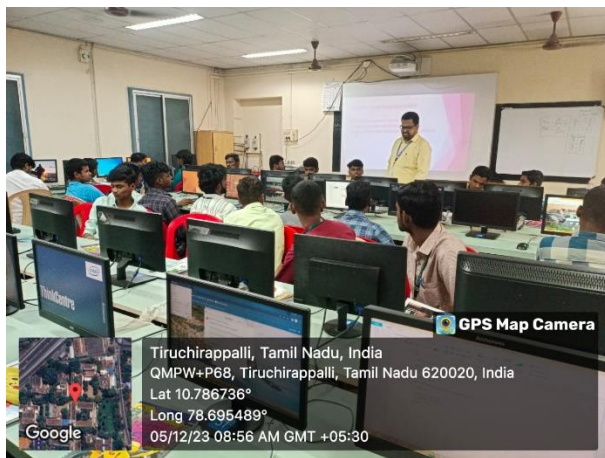
Resource Person : Dr. MA Rifayathali
Assistant Professor
Department of Mathematics
Jamal Mohamed College
Trichy-20

Grace the occasion with your Glorious presence

Report

The Mathematics Computer Lab at Jamal Mohamed College hosted a dynamic workshop on Sagemath on December 5th, 2023. Dr. MA Rifayathali, Assistant Professor from the Department of Mathematics, led the insightful session, equipping participants with practical Sagemath expertise. Attendees delved into hands-on activities, exploring the software's functionalities, from algebraic manipulations to advanced calculations. The interactive event fostered a deep understanding of mathematical concepts, empowering attendees to utilize Sagemath effectively. The session was a testament to Jamal Mohamed College's commitment to enhancing mathematical proficiency among students. Intoto 22 students participated in this programme.

Geotagged Photos



Programme Outcomes:

22 Participants will grasp SageMath's fundamentals, mastering its computational capabilities in diverse mathematical areas. They will gain proficiency in utilizing SageMath for symbolic computations, numerical analysis, and visualization, enabling problem-solving across mathematics, science, and engineering domains. Through hands-on sessions and interactive modules, attendees will explore graph theory, algebraic structures, calculus, and more, fostering a deeper understanding of mathematical concepts. The program aims to empower individuals with the tools to apply SageMath effectively in research, education, and practical problem-solving scenarios, promoting computational literacy and enhancing mathematical problem-solving skills.

Convenor of the Programme

Head of the Department



Jamal Mohamed College (Autonomous)

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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)

Type of the Programme : Trends and Technology

Title of the Programme : On the Notion of Rajan Transform

Venue: Mathematics Seminar Hall

Date: 05-12-2023



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

&

Dr. A.P.J. ABDUL KALAM CLUB

(Affiliated to Vigyan Prasar Network of Science Clubs)

Club ID: VP-TN0056



cordially invite you all to

a **Special Lecture Programme** on **5th December 2023** at **Mathematics Seminar Hall**

In the presence of

Janab. M. J. Jamal Mohamed Bilal, President

Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent

Hajee. M.J. Jamal Mohamed, Treasurer

Dr.K.Abdus Samad, Assistant Secretary

Special Address : **Dr. E. G. RAJAN**
Chairman, Pentagram Group of Companies
(India, UK, USA & Canada)

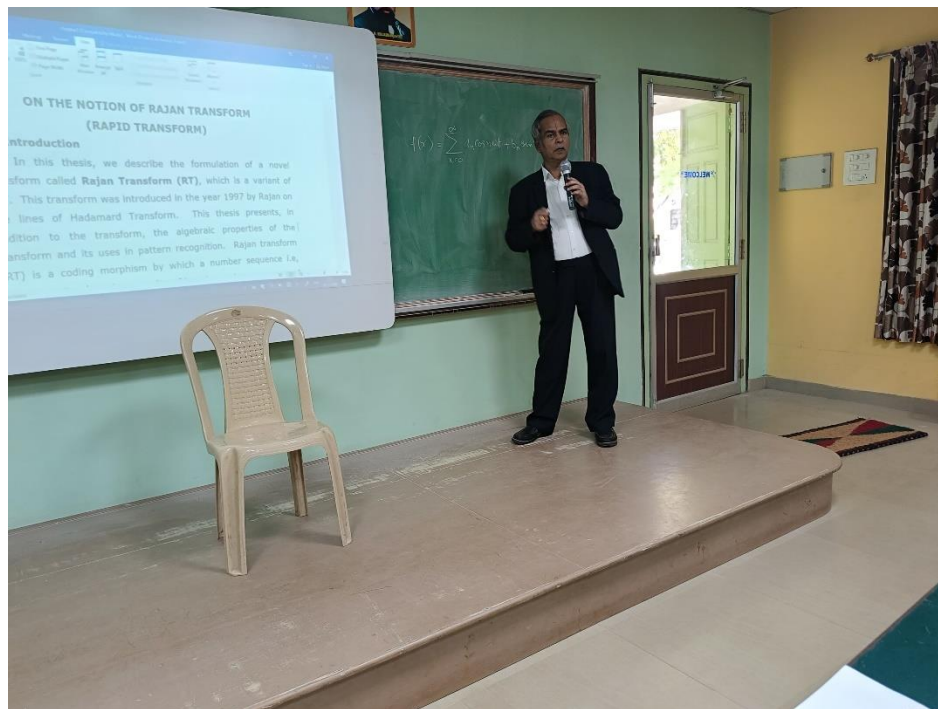
Topic : **On the Notion of Rajan Transform**

Grace the occasion with your Glorious presence

Report

On December 5th, 2023, the Mathematics Seminar Hall at Jamal Mohamed College hosted a riveting lecture by Dr. E. G. Rajan, Chairman of Pentagram Group of Companies across India, UK, USA, and Canada. Dr. Rajan delved into the intricate concept of the Rajan Transform, captivating the audience with its mathematical depth and real-world applications. 67 Attendees were enlightened by his expertise, gaining valuable insights into this transformative notion. The event served as an enriching platform, shedding light on cutting-edge mathematical concepts and their practical implications.

Geotagged Photos



Programme Outcomes:

The Special Lecture Programme on the Notion of Rajan Transform aims to equip participants with a comprehensive understanding of this mathematical transformation. By delving into its theoretical underpinnings and practical applications in signal processing, image compression, and data analysis, participants will grasp its significance in various fields. The program intends to foster critical thinking, enabling (67) attendees to apply Rajan Transform methodologies effectively. Through interactive sessions and hands-on demonstrations, participants will gain proficiency in utilizing this transformative tool, empowering them to innovate and excel in their respective domains.

Convenor of the Programme

Head of the Department



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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)

Type of the Programme : Seminar

Title of the Programme : Optimization Techniques

Venue: LH-11

Date: 11-12-2023 to 13-12-2023



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

welcomes you all to attend a

Seminar on Optimization Techniques

from 11-12-2023 to 13-12-2023

Target Audience: JMC Staff Members from Mathematics discipline

Venue: LH-11

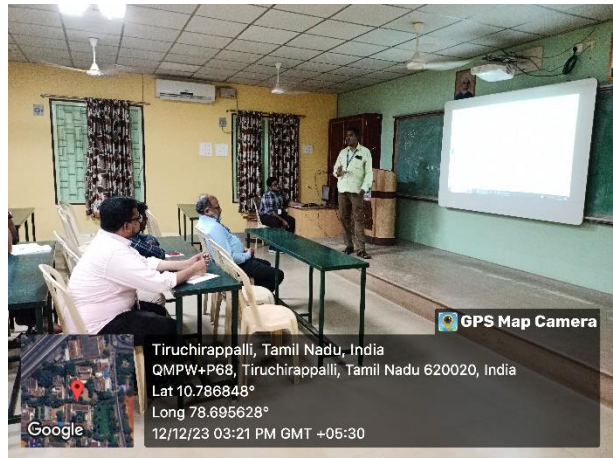
Resource Persons: Dr. S. Ismail Mohideen
Principal & HOD of Mathematics
Jamal Mohamed College
Tiruchirappalli

Dr. A. Prasanna
Assistant Professor of Mathematics
Jamal Mohamed College
Tiruchirappalli

Report

Jamal Mohamed College's Mathematics Department organized a seminar on Optimization Techniques at LH-11. Attended by JMC staff members specializing in Mathematics, the event featured Dr. S. Ismail Mohideen, Principal & HOD of Mathematics, and Dr. A. Prasanna, Assistant Professor. Dr. Mohideen elucidated advanced optimization methodologies, while Dr. Prasanna shared insights on practical applications. Participants delved into diverse optimization models, algorithms, and real-world problem-solving approaches. The seminar fostered a vibrant exchange of ideas among faculty members, enriching their understanding of optimization techniques in mathematics. Totally 11 staff members benefited from this programme.

Geotagged Photos



Programme Outcomes:

The Seminar on Optimization Techniques aims to impart comprehensive knowledge about diverse optimization methods crucial in problem-solving across industries. Focused on theoretical foundations and practical applications, it explores algorithms like gradient descent, genetic algorithms, and simulated annealing, elucidating their roles in enhancing efficiency and performance. Attendees will grasp optimization's significance in data analysis, machine learning, engineering, and more, gaining insights into cutting-edge advancements. Through case studies and interactive sessions, 11 participants will leave equipped with a deeper understanding of optimization frameworks, empowering them to employ these techniques effectively to streamline processes, improve decision-making, and drive innovation in various professional domains.

Convenor of the Programme

Head of the Department



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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Trends and Technology
Title of the Programme : Computational Thinking

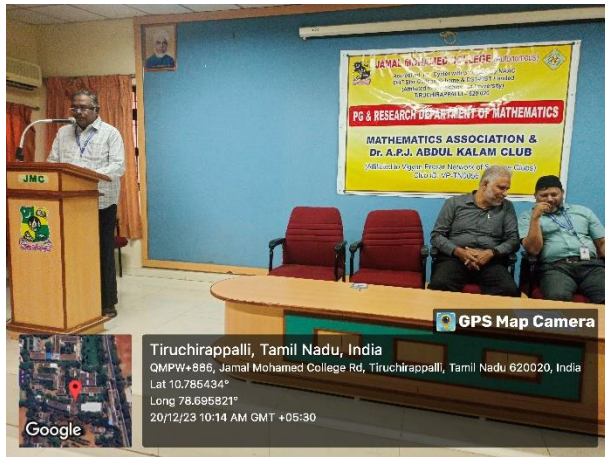
Venue: Almanhal Seminar Hall

Date: 20-12-2023

Report

P.G & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli Mathematics Association and JMC Alumni Association (Singapore Chapter) jointly organized a Special Lecture on 20.12.2023. Dr. A.J.Haja Mohideen, Additional Vice Principal delivered the Presidential Address. Mr. PMA. Amanullah, CEO, Infocom Consultants Pte Ltd, Singapore delivered the Special Address on the topic “Computational Thinking”. Earlier P. Shakib, II B.Sc welcomed the gathering. Finally M.Adnan Mohamed Aslam, III B.Sc proposed a vote of thanks. The arrangements were made by the faculty members of the Department. 123 members are participated in this event.

Geotagged Photos





Tiruchirappalli, Tamil Nadu, India
QMPW+886, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu 620020, India
Lat 10.785524°
Long 78.695889°
20/12/23 10:20 AM GMT +05:30



Tiruchirappalli, Tamil Nadu, India
QMPW+886, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu 620020, India
Lat 10.7856°
Long 78.695889°
20/12/23 10:22 AM GMT +05:30



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Lat 10.785613°
Long 78.695842°
20/12/23 10:35 AM GMT +05:30



Tiruchirappalli, Tamil Nadu, India
QMPW+886, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu 620020, India
Lat 10.785699°
Long 78.695696°
20/12/23 11:52 AM GMT +05:30

Programme Outcomes:

The Special Lecture Programme on Computational Thinking aims to equip participants with a foundational understanding of problem-solving using computational approaches. Through interactive sessions and practical examples, the program intends to cultivate logical thinking, algorithmic design, and abstraction skills. Participants will grasp fundamental concepts like decomposition, pattern recognition, and algorithm development applicable in various domains. By fostering computational thinking, the program strives to enhance problem-solving capabilities, promote innovation, and empower individuals to navigate complexities by leveraging computational tools and strategies effectively. Ultimately, 123 participants will gain a solid framework to approach challenges systematically and creatively in a technology-driven world.

Convenor of the Programme

Head of the Department



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REPORT OF THE PROGRAMME

Name of the Department : **Mathematics (Aided)**
Type of the Programme : **Seminar**
Title of the Programme : **Special lecture on the title “An Introduction to Financial and Capital Markets”**
Venue: Mathematics Seminar Hall **Date: 21-12-2023**

Report

The Department of Physics in association with Mathematics Department organized the special lecture on the title “An Introduction to Financial and Capital Markets” as a part of Placement Activities on 21.12.2023 in the Mathematics Seminar Hall during 11.45 AM – 01.00 PM. to train the final year PG Physics and Maths students to find placements in the area of Financial and Capital Markets. Specifically, the chief guest Mr. Asif Shahinsha, *Senior Director, Pharma Venture, London, UK* delivered a lecture to highlight the growth of automations in the area of Financial and Capital Marketing which is creating considerable job opportunities for Physics and Maths graduates in the IT Sectors of financial management. The strong interaction between the students and speaker helped to reveal the importance of mathematical skills particularly in the field of differential calculus to deal the growth and decay of economic status of industries. Dr. R. Radhakrishnan, Placement Officer of Physics, welcomed the gathering and Dr. A. Ishaq Ahamed, Additional Vice Principal, honoured the speaker and Dr. A. Mohamed Saleem, Head of Physics, Dr. R. Jahir Hussain, Head i/c of Mathematics, and the Faculties of Physics and Maths felicitated the event. Finally Dr. P. Muruganatham, Placement Officer of Mathematics delivered the vote of thanks. 30 PG students of Mathematics participated in this programme.

Geotagged Photos



Programme Outcomes:

The special lecture on "An Introduction to Financial and Capital Markets" aims to provide attendees with a comprehensive understanding of financial systems, market mechanisms, and capital allocation. Participants will grasp the fundamental principles governing financial markets, including stocks, bonds, derivatives, and investment strategies. The session intends to elucidate the significance of these markets in global economies, exploring their role in wealth creation, risk management, and economic development. By the end, 30 attendees will possess foundational knowledge essential for navigating financial landscapes, enabling them to make informed decisions and engage effectively within the dynamic realm of financial and capital markets.

Convenor of the Programme

Head of the Department



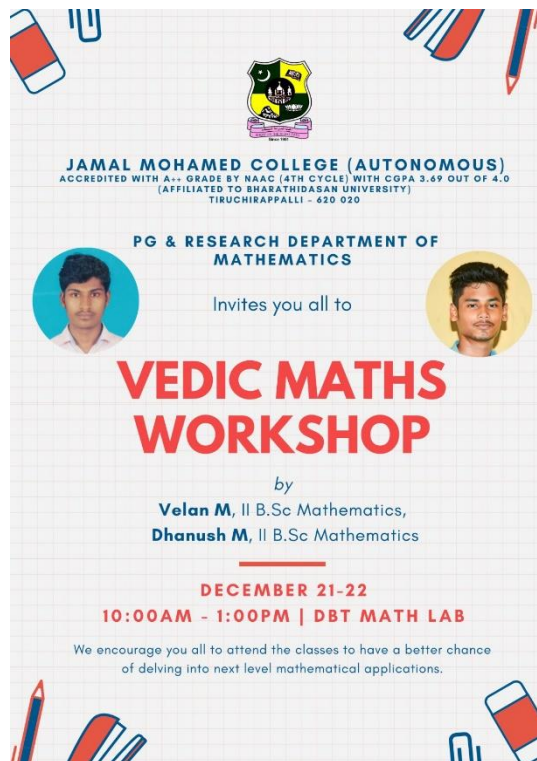
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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Seminar
Title of the Programme : National Mathematics Day Celebration- Special Lecture on Vedic Mathematics

Venue: Math Lab

Date: 21-12-2023 & 22-12-2023



Report

Press Report: National Mathematics Day Celebration

Department of Mathematics hosted a vibrant commemoration of National Mathematics Day with a compelling two-day event on 21st and 22nd December 2023. The highlight was a captivating Special Lecture on Vedic Mathematics conducted by resource persons comprising II BSc Mathematics Students.

The lecture, delivered to their classmates, delved deep into the fascinating world of Vedic Mathematics, showcasing its relevance and applications. Engaging and informative, the session enlightened attendees on the principles and techniques inherent in Vedic Mathematics, leaving an indelible mark on the students' understanding of mathematical concepts.

The event not only celebrated the legacy of National Mathematics Day but also fostered a spirit of enthusiasm and appreciation for mathematical sciences among (22) participants.

Geotagged Photos



Programme Outcomes:

Celebrate National Mathematics Day with a captivating Special Lecture on Vedic Mathematics. Explore ancient Indian mathematical techniques, fostering a deeper understanding of swift calculation methods, mental arithmetic, and problem-solving approaches. Unveil the beauty of Vedic Mathematics, showcasing its relevance in modern-day applications. Inspire curiosity and enthusiasm among participants, promoting mathematical thinking and logical reasoning. Empower 22 attendees to apply these insightful techniques in their academic pursuits and daily lives, fostering a stronger appreciation for the rich heritage of mathematical knowledge. Through this event, aim to spark interest, encourage exploration, and celebrate the timeless legacy of Vedic Mathematics in a concise and impactful manner.

Convenor of the Programme

Head of the Department



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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Outreach Activity
**Title of the Programme : National Mathematics Day Celebration- Special
Lecture Programme Remembering the Legend**

Venue: Samadh Senior Secondary School, Trichy

Date: 20-12-2023



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TIRUCHIRAPPALLI – 620 020

**PG & Research Department Of Mathematics
Outreach Program**

Project Mahout

Cordially Invites you to a Special Program

*Remembering the
Legend*

A special Tribute to Srinivasa Ramanujan

**In Commemoration of the National
Mathematics Day**



22 DECEMBER, 2023

9:30AM

Samadh Senior Secondary School, Trichy

Motivational Talk



Adnan Mohamed Aslam M
III B.Sc. Mathematics



Asraf Khan S
III B.Sc. Mathematics



Mohamed Fazil H
II B.Sc. Mathematics

Drama



Jayanthan R
II B.Sc. Mathematics



Mohamed Siddiq A
I B.Sc. Mathematics



Mohamed Bilal
I B.Sc. Mathematics



Gokulnath
I B.Sc. Mathematics

Quiz



Mohamed Rahmadullah H
III B.Sc. Mathematics



Mohamed Fazil H
II B.Sc. Mathematics



Abdul Jabbar M
I B.Sc. Mathematics

Connections



Prasanna A
III B.Sc. Mathematics



Mohamed Siddiq A
I B.Sc. Mathematics



Mohamed Bilal
I B.Sc. Mathematics

Fibonacci Series Application



Thalga Yasir K
I B.Sc. Mathematics



Shahul Hammed
I B.Sc. Mathematics

Vedic Maths



Dhanush M
II B.Sc. Mathematics



Mohamed Aabith
I B.Sc. Mathematics

Photography



Gokulnath
I B.Sc. Mathematics



Sundar
I B.Sc. Mathematics



Sharukesh
I B.Sc. Mathematics

Team Co-Ordinator's



Asraf Khan S
III B.Sc. Mathematics



A Prasanna
III B.Sc. Mathematics



**Mohamed
Rahmadullah H**
III B.Sc. Mathematics



**Adnan Mohamed
Aslam M**
III B.Sc. Mathematics

Report

Headline: Mathematical Marvel Ramanujan Honored in Grand Outreach Event at Samadh Higher Secondary School, Trichy, December 22, 2023:

In a heartwarming tribute to the legendary mathematician Srinivasan Ramanujan, the enthusiastic undergraduate students from the Department of Mathematics at Jamal Mohamed College, Trichy-20, organized an outreach activity under the "Project MahOut" scheme. The event, held at Samadh Higher Secondary School, Khaja Nagar, aimed to commemorate Ramanujan's birthday anniversary.

The inauguration function was felicitated with presence of the Secretary and Principal of Samadh Higher Secondary School.

The event started with a drama, "Recap of Ramanujan's Life," skillfully coordinated by Mr. Jayanathan and his talented team: Mr. A. Mohammed Siddiq, Mr. M. Mohamed Bilal, Mr. B. Prasanna Kumar, Mr. S. Shagul Hameed, and Mr. A. Gogulnath.

Following this, the mathematical prowess of the undergraduate students was showcased through an engaging Aptitude Quiz, coordinated by Mr. H. Mohamed Fazil, accompanied by Mr. M. Abdul Jabbar. Adding to the excitement, a Connection Game, coordinated by Mr. A. Prasanna, kept the participants on their toes.

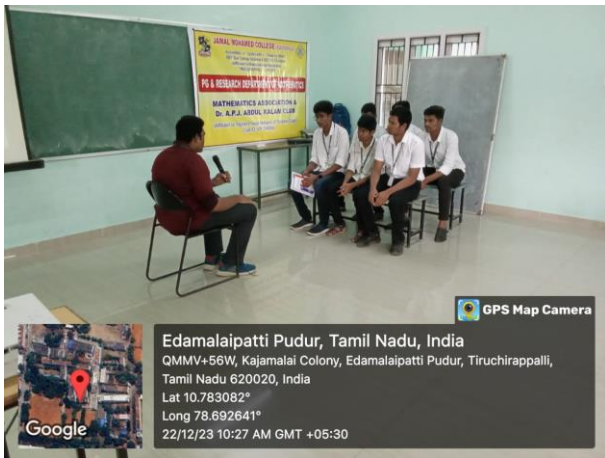
Mr. K. Thalga Yasir delivered an insightful presentation on the "Application of Mathematics - Fibonacci Series," enlightening the audience on the practical aspects of mathematical concepts. A special session on "Vedic Mathematics" was conducted by Mr. M. Dhanush, accompanied by Mr. R. Mohamed Aabith, expanding the horizons of mathematical knowledge.

The entire event was documented by the talented photographers Mr. M. Sanmuga Sundaram, and Mr. K. Sharukesh, ensuring lasting memories of the day.

The culmination of the program featured a motivational speech by Mr. M. Adnan Mohamed Aslam, encouraging students to excel in their upcoming exams. Mr. S. Asraf Khan and Mr. H. Mohamed Rahmadhullah expertly coordinated the overall program, ensuring its success.

A total of 120 students actively participated and benefitted from this exceptional program. The valediction function resonated with positive feedback from students, underlining the success of this outreach initiative in fostering a love for mathematics among the young minds of Samadh Higher Secondary School, Khaja Nagar, Trichy-20.

Geotagged Photos :



CERTIFICATE OF APPRECIATION

We are grateful to the staff and students of the mathematics, department of Jamal Mohamed College (Autonomous), Tiruchirappalli, who held an outreach program, "A special Tribute to Srinivasan Ramanujan" on December 22, 2023.

Our school's students participated in this program and benefited from its offline component.

Events conducted:

- ❖ Introduction – Purpose of the day
- ❖ Drama on "The Recap of Ramanujan's Life"
- ❖ Quiz on Aptitude
- ❖ Connection Game related to Math
- ❖ Application of Math-Fibonacci series
- ❖ Session on "Vedic Mathematics"
- ❖ Motivation Speech

Classes : STD: IX
No. of Students : 120 Students



M. J. J. 22/12/23

HEAD MISTRESS/ MASTER

PRINCIPAL

Samadh Hr. Sec. School
Khaja Nagar, Trichy - 20.

To
The Head
Department of Mathematics
Jamal Mohamed College
Trichy – 620 020

Programme Outcomes:

"Join us in celebrating National Mathematics Day with a special lecture program dedicated to honoring the prodigious mathematician, Srinivasa Ramanujan. Delve into Ramanujan's remarkable contributions and mathematical genius in a captivating session. Explore his legacy, pioneering theorems, and enduring impact on the realm of mathematics. Engage in an enlightening discourse highlighting Ramanujan's extraordinary intellect, fostering a deeper appreciation for mathematics. Unveil the mathematical marvels that continue to inspire generations worldwide. Come, be a part of this commemorative event, as we pay homage to the legendary Ramanujan and his indelible mark on the fascinating world of numbers and equations." Totally 120 school students benefited from this programme.

Convenor of the Programme

Head of the Department



Jamal Mohamed College (Autonomous)
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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Outreach Activity
Title of the Programme : Visit to DBT Math Lab

Venue: Math Lab – Department of Mathematics

Date: 03-01-2024

JAMAL MOHAMED COLLEGE (Autonomous)
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(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI – 620 020

In Association with
Tiruchirappalli District Administration and
Department of School Education
Students Exposure Visit 2023

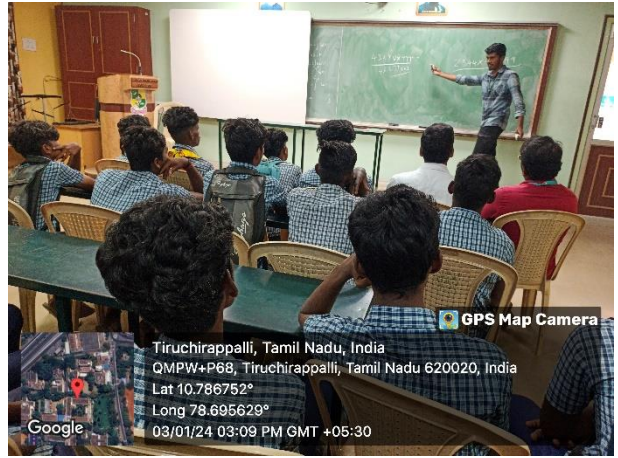
(Naan Mudhalvan Scheme)

Date: 03-01-2024

Route I	Route II	Route III
Mathematics	Visual Communication	Indoor Stadium
Library	FT	Gymnasium
Zoology	Botany	Chemistry
N & D	Physics	Physics
Computer Science	Chemistry	Botany
Gymnasium	Indoor Stadium	Mathematics
Indoor Stadium	Gymnasium	Library
Chemistry	Computer Science	Zoology
Phycis	N & D	Computer Science
Botany	Zoology	Visual Communication
FT	Library	FT
Visual Communication	Mathematics	N & D

Report:

Geotagged Photos :



Programme Outcomes:

The visit to the DBT Math Lab on January 3, 2024, as part of our outreach program aimed to inspire and educate school students in mathematics. The program fostered a hands-on learning environment, promoting problem-solving skills and critical thinking. Students engaged in interactive sessions, experiments, and collaborative activities, enhancing their understanding of mathematical concepts. The visit aimed to ignite curiosity and passion for mathematics, encouraging students to explore its real-world applications. By fostering a positive and interactive experience, the program aspired to in-still a lasting appreciation for the beauty and relevance of mathematics in their academic journey and beyond. 104 school students participated in this programme.

Convenor of the Programme

Head of the Department



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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Special Lecture
Title of the Programme : Special Lecture on Life Skills
Venue: Mathematics Seminar Hall, Department of Mathematics

Date: 05-01-2024



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

cordially invite you all to

a Special Lecture Programme on 5th January 2024 at Mathematics Seminar Hall

In the presence of

Janab. M. J. Jamal Mohamed Bilal, President
Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent
Hajee. M.J. Jamal Mohamed, Treasurer
Dr.K.Abdus Samad, Assistant Secretary

Special Address : **Dr. S. Selvarajan**
Director (R&D)
Gnanamani College of Technology, Salem

Topic : **Life Skills**

Grace the occasion with your Glorious presence

Report

On January 5, 2024, Dr. S. Selvarajan, the Research Director at Gnanamani College of Technology, Salem, delivered a captivating and insightful special lecture on life skills to postgraduate students of the Department of Mathematics at Jamal Mohamed College.

Dr. Selvarajan, a distinguished expert in his field, began the lecture by emphasizing the importance of life skills in personal and professional development. He seamlessly integrated practical examples and theoretical concepts, creating an engaging learning environment for the students.

The lecture covered a spectrum of life skills, including communication, critical thinking, problem-solving, and time management. Dr. Selvarajan illustrated how these skills are not only essential in academic pursuits but also play a pivotal role in shaping a successful and fulfilling life beyond the classroom.

Moreover, the lecture encouraged interactive participation, allowing students to ask questions and share their perspectives. Dr. Selvarajan's expertise and passion for the subject resonated with the audience, leaving a lasting impact on the PG students. The session served as a valuable opportunity for the students to acquire practical insights and strategies that will undoubtedly contribute to their holistic development. Overall, Dr. S. Selvarajan's special lecture proved to be an enriching and enlightening experience for the students of Jamal Mohamed College, offering them valuable life skills for their academic and future endeavors. 30 PG Mathematics students benefited from this programme.

Geotagged Photos :



Programme Outcomes:

The special lecture by Dr. S. Selvarajan, Director (R&D) at Gnanamani College of Technology, Salem, aims to enhance life skills for PG students in the Department of Mathematics at Jamal Mohamed College. The program focuses on cultivating critical thinking, problem-solving, and effective communication skills. Dr. Selvarajan will share insights into applying mathematical principles in real-world scenarios, fostering adaptability and innovation. The session aims to instill a holistic approach, empowering students with resilience and emotional intelligence. Attendees will gain valuable perspectives on career development and personal growth, preparing them for future challenges in academia and beyond.

Convenor of the Programme

Head of the Department



Jamal Mohamed College (Autonomous)

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(Affiliated to Bharathidasan University)
Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Outreach Activity
Title of the Programme : Pre-Board Examination

Venue: Department of Mathematics

Date: 07-01-2024

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PG & Research Department Of Mathematics
Conducts an

OUTREACH PROGRAM

**PRE - BOARD
EXAM (MATHS)**

CLASS XII (STATE BOARD /
MATRICULATION)

A Trial to the Board Exam.
As per the current pattern.

Last Date for Registration - **05.01.2024**
No Registration fee

VENUE: JAMAL MOHAMED COLLEGE

EXAM DATE 07 JANUARY 2024 **TIME** 9.30 AM - 01.30 PM

REGISTER NOW

CONTACT: 9361608984, 8248729638

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(AFFILIATED TO BHARATHIDASAN UNIVERSITY)
TIRUCHIRAPPALLI – 620 020

PG & Research Department Of Mathematics
Conducts an

OUTREACH PROGRAM

**PRE - BOARD
EXAM (MATHS)**

CLASS XII (CBSE)

A Trial to the Board Exam.
As per the current pattern.

Last Date for Registration - **05.01.2024**
Registration fee - ₹ 50/- (UPI)

VENUE: JAMAL MOHAMED COLLEGE

EXAM DATE 07 JANUARY 2024 **TIME** 9.30 AM - 01.30 PM

REGISTER NOW

CONTACT: 9361608984, 8248729638

Report: Mathematics Pre-Board Exam - A Highlight of Our Outreach Program

Our journey to organize the Pre-Board Exam at Jamal Mohamed College commenced with an inspiring idea day on 28-12-2023. Our aim was clear - to provide students with a genuine experience of the upcoming board exams and offer valuable insights into their preparation.

This Mathematics Pre-Board Exam holds a special place as part of our department's Outreach Program, a dedicated effort to extend educational support and opportunities to a broader community. Targeting Class 12 students in Tiruchirappalli District, this initiative aligns with our commitment to fostering academic excellence beyond our college walls.

Our students put in relentless efforts in a collaborative endeavor to create a well-rounded question paper that not only tested knowledge but also encouraged critical thinking. The registration process, which commenced on 31-12-2023, attracted 115 participants, including 80 from CBSE Board and 35 from the State Board.

On the exam day 07-01-2024, 95 students from Class 12 schools in Tiruchirappalli District arrived promptly at the exam center, creating an atmosphere filled with anticipation. The exam, which commenced at 10.30pm, concluded at 1. 30pm. The Mathematics Pre-Board Exam, a pivotal aspect of our Outreach Program, was graced by the official presence of our esteemed Principal and Head of the Department, underscoring the college's commitment to academic excellence.

Results were communicated via email. For State board students, result was declared on 13-01-2024 at 10:00am. For CBSE students, result was declared on 13-01-2024 at 08:00pm This method ensures a timely and confidential sharing of results with each participant.

Feedback from both participants and parents has been exceptionally positive, with praise for the realistic exam environment and appreciation for the detailed feedback provided. This positive response fuels our commitment to continually improve our methods for the benefit of our students.

In summary, the Mathematics Pre-Board Exam stands as a significant component of our Outreach Program, marking a pivotal step in our dedication to academic excellence. We are enthusiastic about building on this experience and further enhancing our methods to support the academic growth of Class 12 students in Tiruchirappalli District.

Geotagged Photos :



Programme Outcomes:

The Pre-Board Examination for Class 12 students conducted on January 7, 2024, by the PG & Research Department of Mathematics at Jamal Mohamed College aims to assess and enhance students' understanding and application of mathematical concepts. The program focuses on testing problem-solving skills, analytical thinking, and mathematical reasoning. It strives to prepare students for the upcoming CBSE and State Board examinations, emphasizing comprehensive knowledge and effective time management. The examination also aims to foster a competitive spirit, motivating students to excel in mathematics and achieve success in their academic pursuits. 95 students participated in this examination.

Convenor of the Programme

Head of the Department



Jamal Mohamed College (Autonomous)
Accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0
(Affiliated to Bharathidasan University)
Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

PG & Research Department of Mathematics

CIRCULAR

Date: 15-12-2023

For all UG & PG classes

Dear Mathematicians,

The Most Awaited the intra departmental Sports Competition is commencing on **08-01-2024**. It is a great platform where students display their talents across various sports events.

We invite all Mathematicians to participate, witness the fervor of the events, and cheer for your favorite teams in the upcoming weeks.

All the best to all the participating teams. May the best team win.

Note: Students who are willing to participate in intra departmental sports meet games are requested to assemble at our College Ground.

Events

- 1) Volleyball
- 2) Badminton Doubles
- 3) Badminton Single

For any clarification Please contact your respective class Teachers.

Dept. Staff In-charge

HOD



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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : PG & Research Department of Mathematics
Type of the Programme : Sports Event
Title of the Programme : Intra Department Sports Competition
Venue: College Ground **Date: 08/01/2024**

Report:

This activity Intra Department Sports Competition has been organized on 08-01-2024 by PG & Research Department of Mathematics, Jamal Mohamed College, Trichy. The event began with was organized to address by the HOD about the improvement activities to provide an opportunity to the students at the Department to develop and display the skills in the sports activity. In this event, indoor games like volleyball, badminton singles and doubles was designed for the students where they can enhance themselves. All the participants enjoyed this event and were glad that these types of events were organized in the department where they can achieve something and grow themselves. Sports helps an individual much more than in the physical aspects alone. It builds character, teaches and develops strategic thinking, analytical thinking, leadership skills, goal setting and risk taking.

All the students were motivated to devote time to each game and were also instructed to play each game. The main aim was to provide emotional concern for the students in Pandemic to build their mental health and to create awareness through this event.

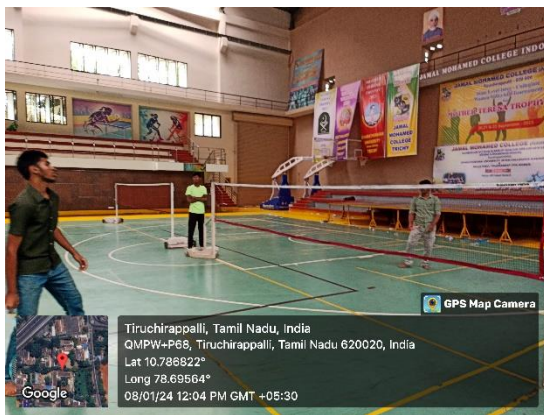
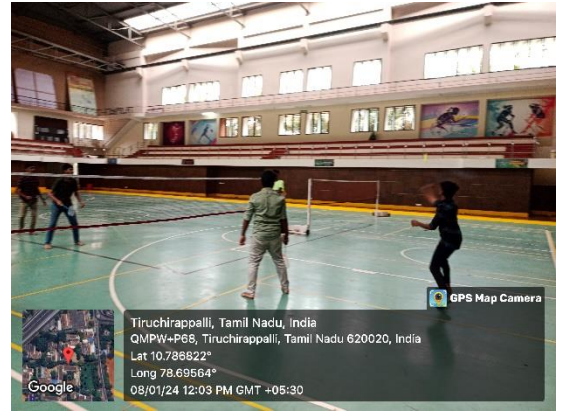
Dept. Staff In-charge

HOD

Geotagged Photos:



Volley ball match between III B.Sc. Mathematics & I B.Sc. Mathematics



Badminton Doubles match between II B.Sc. Mathematics & III B.Sc. Mathematics



Badminton singles match between II B.Sc. Mathematics & III B.Sc. Mathematics

Winner (Volleyball)

S.No	NAME	REG.NO	CLASS
1.	ABDUL JABBAR	23UMA005	I B.Sc.
2.	DHARSHAN S	23UMA012	I B.Sc.
3.	GOGULNATH A	23UMA013	I B.Sc.
4.	JOYEL RAJ S	23UMA020	I B.Sc.
5.	MOHAMED TARIQ S	23UMA030	I B.Sc.
6.	NAVEEN S	23UMA037	I B.Sc.
7.	NISHANTH KUMAR S	23UMA038	I B.Sc.
8.	VENKATSRINIVAS A	23UMA059	I B.Sc.

Runner (Volleyball)

S.No	NAME	REG.NO	CLASS
1.	ADHAVAN K	21UMA001	III B.Sc.
2.	ARUN KUMAR S	21UMA005	III B.Sc.
3.	ARAVIND V	21UMA006	III B.Sc.
4.	BOOPATHI RAJA M	21UMA009	III B.Sc.
5.	JAIHINDH S	21UMA014	III B.Sc.
6.	MOHAMED IRFAN M	21UMA024	III B.Sc.
7.	MOHAMED JAMALUDEEN A	21UMA025	III B.Sc.
8.	RAJPALANI O R	21UMA036	III B.Sc.
9.	TAMILARASAN R	21UMA041	III B.Sc.
10.	SUDHARSAN R	21UMA046	III B.Sc.
11.	NAVANETHA KRISHNAN P	21UMA053	III B.Sc.

Winner (Badminton Doubles)

S.No	NAME	REG.NO	CLASS
1.	MOHAMMED SHIYAB C	22UMA037	II B.Sc.
2.	SHAKIB P	22UMA047	II B.Sc.

Runner (Badminton Doubles)

S.No	NAME	REG.NO	CLASS
1.	CHINRAJ	21UMA010	III B.Sc.
2.	NANDHAKUMAR R	21UMA028	III B.Sc.

Winner (Badminton singles)

S.No	NAME	REG.NO	CLASS
1	MUJEEBURAHMAN T C	PHDMA05/MAR.20	PhD.

Runner (Badminton singles)

S.No	NAME	REG.NO	CLASS
1	MOHAMMED IRSHAD PK	23UMA033	I B.Sc.

Dept. Staff In-charge**HOD**

Programme Outcomes:

1. Enhanced their tactical and decision making skills based on tactics involved in playing the games.
2. Playing various sports helps them teach life skills such as teamwork, leadership, accountability, patience, and self-confidence and prepares them to face life challenges. Students get a chance to work on their physical and mental abilities to achieve goals in their life.
3. Demonstrate an understanding of the typical game sequencing: serve, pass, attack, transition, and defense. Understand and apply the knowledge of basic rules of volleyball. Demonstrate proper etiquette and good sportsmanship. Understand basic volleyball scoring and officiating procedures
4. The aim of badminton is to hit the shuttle with your racket so that it passes over the net and lands inside your opponent's half of the court. Whenever you do this, you have won a rally; win enough rallies, and you win the match

Convener of the Programme

Head of the Department



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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Trends and Technology
Title of the Programme : Special Lecture on Today's generation in IT environment

Venue: Mathematics Seminar Hall, Department of Mathematics

Date: 09-01-2024



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

cordially invite you all to

a Special Lecture Programme on 9th January 2024 at Mathematics Seminar Hall

In the presence of

Janab. M. J. Jamal Mohamed Bilal, President
Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent
Hajee. M.J. Jamal Mohamed, Treasurer
Dr.K.Abdus Samad, Assistant Secretary

Special Address : **Mr. Khaja Abdul Bari**
Finance Specialist
Supply Chain, HR Inc, Bengaluru

Topic : **Today's generation in IT environment**

Grace the occasion with your Glorious presence

Report:

A special lecture program was held on January 9th, 2024, at the Mathematics Seminar Hall featuring Mr. Khaja Abdul Bari, a Finance Specialist from HR Inc, Bengaluru. The lecture focused on "Today's Generation in IT Environment." Mr. Bari delved into the challenges and opportunities presented by the rapidly evolving IT landscape, particularly concerning the current generation. He discussed the significance of adapting to technological advancements and leveraging them effectively in various sectors. Attendees gained insights into the intersection of IT with finance, supply chain, and HR, elucidating its impact on businesses and society. Mr. Bari's expertise shed light on navigating the complexities of the modern IT environment, equipping participants with valuable knowledge to thrive in this dynamic field. The lecture concluded with an interactive session, fostering dialogue and exchange of ideas among attendees.

Geotagged Photos :



Programme Outcomes:

The special lecture program on "Today's Generation in IT Environment" aims to equip participants with a nuanced understanding of contemporary IT trends and their impact on society. Through insightful discussions and expert insights, attendees will gain heightened awareness of the challenges and opportunities presented by the evolving digital landscape. They will develop critical thinking skills to navigate ethical dilemmas, cybersecurity concerns, and the transformative potential of emerging technologies. By the end of the program, participants will be empowered to leverage IT innovations responsibly, contribute meaningfully to digital discourse, and adapt effectively to the dynamic demands of today's technological ecosystem.

Convenor of the Programme

Head of the Department



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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : National Day Celebration
Title of the Programme : Pongal Celebration

Venue: Department of Mathematics

Date: 11-01-2024

JAMAL MOHAMED COLLEGE
(Autonomous) Tiruchirappalli - 620 020.
Accredited with 'A++' Grade by NAAC 4th Cycle with CGPA 3.69 OUT OF 4
Affiliated to Bharathidasan University

**PG & RESEARCH DEPARTMENT OF
MATHEMATICS**

CARDIALLY INVITERS YOU TO

**PONGAL
CELEBRATION**

JAN
THURSDAY 11 AT 11:00AM
2024

MATHEMATICS SEMINAR HALL

Let us put our worries aside and welcome the advent of Spring with open arms. Let us thank Sun for his presence in our lives. Warm wishes to you on Pongal. Happy Pongal Valthukkal.

Report:

On 11/01/2024 Thursday we have celebrated the Pongal festival which is organized by the PG students of the department. Pongal festival is the very old and traditional festival of the tamil people as to bring that tradition into our department. Our PG students got permission from the principal then made all the arrangements. In the morning, all the students were came with an uniform dress and they prepared pongal with all the professors of the department in the college playground, it was a different kind of celebration as the students and staffs together prepared the pongal food. In the next moment all the staff and students were gathered at the mathematics seminar hall, and our beloved Secretary, Treasurer, Assistant Secretary, Principal, Vice Principal, Additional Vice Principals, Bursar, Former Principals, Principal of Jamal Mohamed College of Education were participated to the celebration. Students of PG welcomed the gathering and initiated the fun events, the active participation of the principal and the staff of the department brought the celebration with colourful moments. Then they served pongal food to all the dignitaries of the function at the end of the celebration. Around 60 Members participated in the Pongal Celebration.

Geotagged Photos :



Programme Outcomes:

The Pongal celebration on January 11, 2024, organized by PG students of the Department of Mathematics at Jamal Mohamed College, promises an enriching program. Focused on fostering cultural unity, the event aims to showcase the vibrant traditions of Pongal through traditional music, dance, and culinary delights. The program emphasizes promoting community engagement, enhancing interpersonal relationships, and providing a platform for students to showcase their talents. With a blend of cultural performances, interactive sessions, and festive decorations, the outcome is anticipated to be a memorable and inclusive celebration that not only honors the essence of Pongal but also strengthens the bonds within the academic community.

Convenor of the Programme

Head of the Department

Class: I B.Sc. Mathematics

JAMCROP ACTIVITY at Inamkulathur Village on 30.01.2024





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Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)
Type of the Programme : Seminar
Title of the Programme : One Week FDP on Pure and Applied Mathematics
Venue: Blended Mode
Date: 03-02-2024 to 09-02-2024

One Week FDP on Pure and Applied Mathematics



Dr. Izhar Uddin
Jamia Millia Islamia, New Delhi



Dr. Paras D. Uchat
Indian Institute of Teacher Education, Gujarat



Dr Hardik M Pandya
Gyanmanjari Innovative University, Gujarat



Dr. Shibsankar Das
Banaras Hindu University, Uttar Pradesh



Dr. Deepak Umrao Sarwe
University of Mumbai, Mumbai



03:00pm - 04:00pm
**03-02-2024 to
09-02-2024**

Discussions & Insights

- 03-02-2024** • Basic and Advanced Problems of Fixed Point Theory
- 05-02-2024** • Coloring of Graphs
- 06-02-2024** • Some Problems related to Tribology
- 08-02-2024** • Wide Variety of Graph Models in Different Fields
- 09-02-2024** • Differential Transform and it's Application

Meeting Link (Microsoft Teams): <https://shorturl.at/xNPW8>



**PG and Research Department of Mathematics
Jamal Mohamed College (Autonomous)**

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(Affiliated to Bharathidasan University)

Tiruchirappalli - 620 020

Dr. S. Ismail Mohideen
Principal

For Further Details:
Dr. R. Jahir Hussain
Head of the Department (i/c)

+91 94438 36946

Report:

Online FDP on Pure and Applied Mathematics

Date: 3rd February 2024

Speaker: Dr. Izhar Uddin, Jamia Millia Islamia, New Delhi

Topic: Basic and Advanced Problems of Fixed Point Theory

Dr. Izhar Uddin kicked off the online Faculty Development Program (FDP) with an enlightening session on the fundamental and intricate problems of fixed point theory. He delved into both basic concepts and advanced applications, providing participants with a comprehensive understanding of this crucial area in mathematics.

Date: 5th February 2024

Speaker: Dr. Paras D. Uchat, Indian Institute of Teacher Education, Gujarat

Topic: Coloring of Graphs

Dr. Paras D. Uchat led an engaging session on the topic of graph coloring. He discussed various algorithms and techniques used in graph theory for coloring graphs, shedding light on its practical applications and theoretical implications. Participants gained insights into the intricacies of graph coloring and its significance in diverse domains.

Date: 6th February 2024

Speaker: Dr. Hardik M Pandya, Gyanmanjari Innovative University, Gujarat

Topic: Some Problems Related to Tribology

Dr. Hardik M Pandya presented an intriguing session focusing on problems related to tribology. Participants explored the interdisciplinary nature of tribology, which encompasses the study of friction, wear, and lubrication. Dr. Pandya provided valuable insights into current challenges and emerging trends in this field, fostering a deeper understanding among attendees.

Date: 8th February 2024

Speaker: Dr. Shibsankar Das, Banaras Hindu University, Uttar Pradesh

Topic: Wide Variety of Graph Models in Different Fields

Dr. Shibsankar Das elucidated the diverse applications of graph models across various disciplines. He highlighted the versatility of graph theory in modeling real-world phenomena, ranging from social networks to biological systems. Participants gained a holistic view of graph theory's role in different fields, enriching their knowledge and analytical skills.

Date: 9th February 2024

Speaker: Dr. Deepak Umrao Sarwe, University of Mumbai, Mumbai

Topic: Differential Transform and Its Applications

Dr. Deepak Umrao Sarwe concluded the FDP with an illuminating session on the differential transform and its myriad applications. He demonstrated the utility of this mathematical technique in solving differential equations and analyzing dynamic systems. Participants gained practical insights into employing the differential transform method, equipping them with valuable tools for their academic and research pursuits.

Geotagged Photos :

03-02-2024



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Recording has started. Started by RIFAYATH ALI M. A. By attending this meeting, you consent to being recorded. [Privacy policy](#)

RIFAYATH ALI M. A.

Attendees (3) | Mute all

- DP Dr. Murugan P (Guest) Meeting guest Leaving...
- DP Durga Prasad (Guest) Meeting guest Leaving...
- KV K. Vishweshwari (Guest) Meeting guest Leaving...

Basic and advanced Problems of Fixed Point Theory

Izhar Uddin

Department of Mathematics
Jamia Millia Islamia, New Delhi-INDIA

Talk at One week FDP on Pure and Applied Mathematics
3-9 Feb, 2024 at
Department of Mathematics Jamal Mohamed College,
Tiruchirappalli, India

Jamia Millia Islamia

Izhar Uddin | 33°C Haze | 15:08 03-02-2024

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Attendees (3) | Mute all

- DP Dr. Murugan P (Guest) Meeting guest Leaving...
- DP Durga Prasad (Guest) Meeting guest Leaving...
- KV K. Vishweshwari (Guest) Meeting guest Leaving...

Motivation

Division of Fixed Point Theory

Some Basic Problems in Metric Fixed Point Theory

Amalgam of discreet and analytic

Let X be a complete metric space. $T: X \rightarrow X$ is a contraction map. Then T has a unique fixed point x^* . $T^n x \rightarrow x^*$ as $n \rightarrow \infty$. $T^n x$ is called the iterates of x under T . $T^n x$ is called the iterates of x under T . $T^n x$ is called the iterates of x under T .

Fixed Point Theorem

Let X be a complete metric space. $T: X \rightarrow X$ is a contraction map. Then T has a unique fixed point x^* . $T^n x \rightarrow x^*$ as $n \rightarrow \infty$. $T^n x$ is called the iterates of x under T . $T^n x$ is called the iterates of x under T . $T^n x$ is called the iterates of x under T .

Applications

Fixed point theorems have many applications in various fields of mathematics and science. They are used to prove the existence and uniqueness of solutions to differential equations, integral equations, and other mathematical problems. They are also used in economics, physics, and engineering.

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Attendees (3) | Mute all

- DP Dr. Murugan P (Guest) Meeting guest Leaving...
- DP Durga Prasad (Guest) Meeting guest Leaving...
- KV K. Vishweshwari (Guest) Meeting guest Leaving...

Introduction

Fixed Point Theory is a branch of mathematics that deals with the study of points that remain fixed under a transformation. It has many applications in various fields of mathematics and science.

Fixed Point Theorem

Let X be a complete metric space. $T: X \rightarrow X$ is a contraction map. Then T has a unique fixed point x^* . $T^n x \rightarrow x^*$ as $n \rightarrow \infty$. $T^n x$ is called the iterates of x under T . $T^n x$ is called the iterates of x under T . $T^n x$ is called the iterates of x under T .

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- DP Durga Prasad (Guest) Meeting guest Leaving...
- KV K. Vishweshwari (Guest) Meeting guest Leaving...

An Elementary Proof of the Brouwer Fixed Point Theorem

Sompong Chompradit and Poorn Kumarn

This Journal of Mathematics
Volume 2 (2024) Pages 21-239-242
<http://dx.doi.org/10.30453/jom.v2i2.10890>

The Brouwer Fixed Point Theorem states that any continuous function from a compact convex set to itself has at least one fixed point. This theorem is a fundamental result in topology and has many applications in various fields of mathematics and science.

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- DP Durga Prasad (Guest) Meeting guest Leaving...
- KV K. Vishweshwari (Guest) Meeting guest Leaving...

Division of Fixed Point Theory

Analytic Metric Fixed Point Theory

Banach's Fixed Point Theorem, Fund. Math. 3 (1922) 133-131

Any contraction mapping defined on a complete metric space has a unique fixed point.

Proof

We choose any $x_0 \in X$ and define the "iterative sequence" $\{x_n\}$ by $x_{n+1} = T x_n$. By using contractive condition, we can show that the sequence is Cauchy sequence. Then by using completeness, we have a limit. This limit is our desired fixed point.

05-02-2024

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Dr.Pawan D Uchat (Guest) Meeting guest
RIFAYATH ALI M.A. Organizer
Amanpreet Singh
SUDHAKAR M... Meeting guest
Umeshwar Singh Meeting guest
A SATISHA BOD... (Guest) Meeting guest
A. SATHYA LAKSHI (Guest) Meeting guest
APALA RAMANAN M.S.
AJOY MITTAL (Guest) (P) Meeting guest
Flow
Origin of Graph Theory
An Interesting Story of Coloring of Graphs
Preliminaries
Applications of Coloring of Graphs
Some Known Facts of Coloring of Graphs
Some Known Variants of Coloring of Graphs
Open Problems of Coloring of Graphs
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Origin of Graph Theory
Königsberg Bridge Problem - 150 years old puzzle of Russia in early 18th century. Justified by Swiss Mathematician Leonhard Euler. Euler's work was presented to the St. Petersburg Academy on 26 August 1735, and published in the journal Commentarii academiae scientiarum Petropolitanae.
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10:58
Origin of Graph Theory
Königsberg Bridge Problem - 150 years old puzzle of Russia in early 18th century. Justified by Swiss Mathematician Leonhard Euler. Euler's work was presented to the St. Petersburg Academy on 26 August 1735, and published in the journal Commentarii academiae scientiarum Petropolitanae.
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Stay in the know. Turn on desktop notifications. Turn on X
10:58
An Interesting Story of coloring of Graph
Four Color Theorem - "Every Planar graph can be color with at most four colors"
First this puzzle Observed By High School Student: Francis Guthrie from England in 1852.
He shown the problem his brother Frederick Guthrie.
He asked this to his teacher De Morgan.
A

06-02-2024

Zoom meeting screenshot showing a slide titled "Some Problem Related to Tribology" by Dr. Hardik M. Pandya, Assistant Professor at GyanManjari Innovative University. The slide features a logo for GyanManjari Innovative University and a list of participants on the right side of the screen.

Zoom meeting screenshot showing a slide titled "Tribology represents phenomena and problems that arose since the Stone Age and extend to our present lives." The slide includes images of an ancient tribologist and a Mars rover. Text on the slide mentions "The first tribologist pouring a liquid (water) onto the path of motion (2400 B.C.)" and "Space Tribology Mars Exploration Program NASA, Oct. 11, 2019".

Zoom meeting screenshot showing a slide titled "Plain bearings" with a list of characteristics and an image of a bearing. The characteristics listed are: "A plain bearing is the simplest type of bearing.", "There are no rolling elements.", "They have high load carrying capacity.", and "Plain bearings are used for rotational, sliding, reciprocating or oscillatory motion."

Zoom meeting screenshot showing a slide with mathematical equations (4.5), (4.7), (4.8), and (4.9) related to tribology. The equations are:
$$p^* = Q^* \log_2 \left(\frac{r}{r_1} \right) \quad (4.7)$$
$$W = P_0 \pi r_1^2 + \int_{r_1}^{r_2} r^2 \rho^* \Pr \, d\theta \, dr \quad (4.8)$$
$$W = P_0 \pi r_1^2 \left(\frac{1 - \frac{r_2^2}{r_1^2}}{2 \log_2 \left(\frac{r_2}{r_1} \right)} \right) \quad (4.9)$$

08-02-2024

Zoom meeting screenshot for 08-02-2024. The main slide displays the title "Wide Variety of Graph Models in Different Fields" and the presenter's name, Dr. Shibsankar Das, from the Department of Mathematics, Institute of Science, Banaras Hindu University. A network graph diagram is visible on the slide. The meeting interface shows a list of participants on the right and a toolbar at the top.

Zoom meeting screenshot for 08-02-2024 showing an "Outline!" slide. The topics listed include: Prerequisites, Why Graph Theory?, What is a Graph?, History of Graph, Different Kinds of Graphs!, (Re)Presentations of Graphs, Graph: Wide Variety of Models in Diverse Fields, Some More Terminologies & The Handshaking Theorem, Some Special Simple Graphs, Matching Problem, Graph Colouring Problem, and Konigsberg Bridge Problem. The meeting interface shows a list of participants on the right.

09-02-2024

Zoom meeting screenshot for 09-02-2024. The main slide displays the title "Applications of Differential Transform to Real World Problems" and the presenter's name, DEEPAK UMMAID SAHNE, from the Department of Mathematics, University of Mumbai, Mumbai-400 098. The date February 9, 2024, is also shown. The meeting interface shows a list of participants on the right.

Zoom meeting screenshot for 09-02-2024 showing a slide titled "1.1 Introduction". The slide contains several bullet points discussing mathematical modeling of real-world dynamical problems, the development of various methods to find exact, analytic, or numerical solutions, and the advantages and disadvantages of these methods. The meeting interface shows a list of participants on the right.

Zoom meeting screenshot for 09-02-2024 showing a slide titled "Theorem 7". The slide contains mathematical equations: $M^k(x) = g(x)M(x)(x)$, then $D(x) = \sum_{n=0}^{\infty} \frac{g_n(x)}{n!} M^n(x) = M(x)G(x)$. It also discusses the differential transform of $g(x)$ using Equation 2 and the original function $h(x)$. The meeting interface shows a list of participants on the right.

Zoom meeting screenshot for 09-02-2024 showing a slide titled "Theorem 15". The slide contains mathematical equations: $M^k(x) = (1+x)^m$, then $D(x) = \sum_{n=0}^{\infty} \frac{m!}{n!} M^n(x) = M(x)G(x)$. It also includes a "Proof" section showing the derivation of $G(x) = \frac{1}{1+x}$ and the final result $D(x) = \sum_{n=0}^{\infty} \frac{m!}{n!} M^n(x) = M(x)G(x)$. The meeting interface shows a list of participants on the right.

Programme Outcomes:

The one-week online FDP on Pure and Applied Mathematics provided participants with a diverse array of topics and insights into cutting-edge research areas. The sessions, conducted by esteemed speakers from renowned institutions, fostered intellectual engagement and enhanced participants' understanding of mathematical concepts and their real-world applications. The FDP served as a platform for academic exchange, collaboration, and continuous learning, empowering participants to contribute meaningfully to the advancement of mathematics and its interdisciplinary applications.

Convenor of the Programme

Head of the Department

Principal and Vice-Principal of Theivanai Ammal College for Women, Villupuram visited our DBT -MATH Lab on 08.02.2024



Board of Studies Meeting (Internal) 10-02-2024





Jamal Mohamed College (Autonomous)

Accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0
(Affiliated to Bharathidasan University)

Tiruchirappalli – 620 020

REPORT OF THE PROGRAMME

Name of the Department : Mathematics (Aided)

Type of the Programme : Workshop

Title of the Programme : R Programming

Venue: NBAG Auditorium

Date: 14-02-2024



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI - 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION

cordially invite you all to

Workshop on R Programming on 14th February 2024 at Mathematics Dept. Lab

In the presence of

Janab. M. J. Jamal Mohamed Bilal, President

Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent

Hajee. M.J. Jamal Mohamed, Treasurer

Dr.K.Abdus Samad, Assistant Secretary

Presidential Address : Dr.S.Ismail Mohideen, Principal

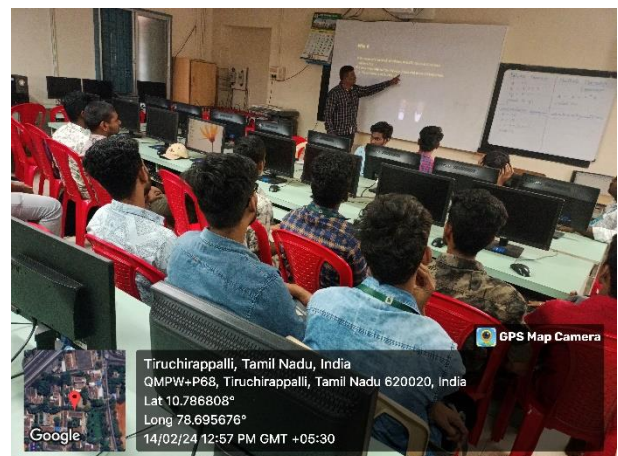
Resource Peron : **Dr. B.Balaguru**
Assistant Professor of Botany
Jamal Mohamed College, Trichy-20

Grace the occasion with your Glorious presence

Report:

The Workshop on R Programming held on 14th February 2024 at the Mathematics Department Computer Lab was conducted by Dr. B. Balaguru, Assistant Professor of Botany from Jamal Mohamed College, Trichy. The workshop aimed to introduce participants to the fundamentals of R programming, a widely used language in statistical computing and data analysis. Dr. Balaguru provided comprehensive insights into various aspects of R programming, including data manipulation, visualization, and statistical analysis. Attendees gained practical knowledge through hands-on exercises conducted during the workshop. Dr. Balaguru's expertise and interactive teaching style facilitated an engaging learning environment, allowing participants to grasp essential concepts effectively. The event received positive feedback from participants, highlighting its effectiveness in enhancing their understanding of R programming for diverse applications in research and academia.

Geotagged Photos :



Programme Outcomes:

Participants gained a profound understanding of R programming fundamentals, enabling them to manipulate data efficiently, conduct statistical analysis, and create visualizations. Dr. Balaguru's expertise bridged interdisciplinary gaps, illustrating the application of R in botanical research and beyond. Attendees learned to leverage R's versatility in diverse scientific domains, enhancing their analytical capabilities and research methodologies. The workshop fostered a collaborative learning environment, encouraging participants to exchange insights and problem-solving strategies. Overall, it empowered attendees with valuable skills to tackle complex data challenges and contribute effectively to their respective fields, aligning with the college's commitment to fostering interdisciplinary knowledge exchange and research excellence.

Convenor of the Programme

Head of the Department

Board of Studies Meeting (External) on 17.02.2024





Jamal Mohamed College (Autonomous)
Accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0
(Affiliated to Bharathidasan University)
Tiruchirappalli – 620 020

Report of the programme

Name of the Department : Mathematics (Aided)

Type of the Programme : Student Symposium

Title of the Programme : JAMATICS 2024

Venue: NBAG Auditorium

Date: 20-02-2024



Jamal Mohamed College (Autonomous)
Accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0
(Affiliated to Bharathidasan University)
Tiruchirappalli – 620 020
PG & Research Department of Mathematics
Valedictory Function of JAMATICS – 2024

Organized by

Mathematics Association

Agenda

Date: 20.02.2024 Time: 12.30 p.m. Venue: N.B.A.G.AUDITORIUM (A/C)

Prayer : Mr. H.Mohamed Rahmadullah, III B.Sc. Mathematics

Tamil Thaaai Vaazhtu :

Welcome Address : Mr. R.Manikandan, II M.Sc. Mathematics

Feedback :

Presidential Address : Dr. S. Ismail Mohideen, Principal &
Head of the Department

Felicitations :

Dr. A.K. Khaja Nazeemudeen, Secretary & Correspondent

Hajee M.J. Jamal Mohamed, Treasurer

Dr. K. Abdus Samad, Assistant Secretary

Dr. K.N. Abdul Khader Nihal, Member & Hon. Director

Dr. D.I. George Amalarethnam, Vice Principal

Dr. A. Ishaq Ahamed, Additional Vice Principal

Dr. A.J. Haja Mohideen, Additional Vice Principal

Dr. K.N. Mohamed Fazil, Director - Hostel Administration

Ms. J. Hajira Fathima, Director- Women Hostel

Dr. R. Jahir Hussain, Head of the Department (i/c)

Honoring the Guest :

Valedictory Address : Ms. J. Subha Prabu
Administrator,
Joseph Eye Hospital, Trichy

Vote of Thanks : Mr. A. Mohamed Umar Farrok, II M.Sc. Mathematics

Distribution of Prizes :

National Anthem :

Report:

PG & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli organized the JAMATICS – 2024, a National Level Intercollegiate Meet on 20.02.2024.

Dr. S. Ismail Mohideen, the Principal delivered the Presidential Address, College Secretary & Correspondent Dr. A.K. Khaja Nazeemudeen and Treasurer Hajee. M.J. Jamal Mohamed gave the winner shield to the Gandhigram Rural Institute - Deemed University, Dindigul Team, and Runner shield to Ayya Nadar Janaki Ammal College, Sivakasi. Ms. J.Subha Prabu, Administrator, Joseph Eye Hospital, Trichy delivered the Valedictory Address. Prizes & Certificates were distributed to the college students who emerged Winner and Runner in the events, Math Quiz, Connections, Math Rangoli, Math Modelling and Paper Presentation.

A total of 167 students from various Colleges participated in this Intercollegiate Meet.

Mathematics Department Documentary - Jamal Mohamed College (JAMATICS 2024)

<https://youtu.be/VV8d4FtD1h4>

Geotagged Photos :



Programme Outcomes:

JAMATICS-2024, National Level Intercollegiate Meet showcased exceptional mathematical prowess among students, fostering intellectual exchange and camaraderie. Participants engaged in rigorous competitions spanning various mathematical disciplines, including problem-solving, theorem proving, and mathematical modeling. The event facilitated networking opportunities and knowledge sharing, inspiring innovative approaches to mathematical challenges. Eminent mathematicians provided insights through insightful lectures and workshops, enriching participants' understanding of theoretical and applied mathematics. JAMATICS 2024 underscored the significance of mathematics in modern society, nurturing a culture of analytical thinking and academic excellence. It left a lasting impact on attendees, igniting passion and curiosity for the infinite possibilities within the realm of mathematics.

Convenor of the Programme

Head of the Department



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

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(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI – 620 020

PG & RESEARCH DEPARTMENT OF MATHEMATICS

cordially invite you all to

Felicitation Function to the Retiring Staff Members (2023-24)

at 11.30 a.m. on Wednesday, 28th February 2024 at **Mathematics Seminar Hall**

In the presence of

Janab. M. J. Jamal Mohamed Bilal, President
Dr. A. K. Khaja Nazeemudeen, Secretary & Correspondent
Hajee. M.J. Jamal Mohamed, Treasurer
Dr.K.Abdus Samad, Assistant Secretary
Dr. K. N. Abdul Kader Nihal, Member & Hon. Director

Prayer : Dr.H.Sheik Mujibur Rahman, Asst. Prof. of Mathematics

Welcome Address : Mr. S.Masoothu
Associate Professor of Mathematics

Honouring the retiring faculty members:

Felicitations :

Dr. A. K. Khaja Nazeemudeen
Secretary & Correspondent

Hajee. M.J. Jamal Mohamed
Treasurer

Dr. K. Abdus Samad
Assistant Secretary

Dr. K. N. Abdul Kader Nihal
Member & Hon. Director

Dr. D.I. George Amalarethinam
Vice Principal

Dr. A. Ishaq Ahamed
Additional Vice Principal

Dr. A.J. Haja Mohideen
Additional Vice Principal

Ms. A. Famitha Banu
Additional Vice Principal

Dr. K. N. Mohamed Fazil
Director-Hostel Administration

Ms. J.Hajira Fathima
Director-Women Hostel

Dr. R.Jahir Hussain
Head (i/c), Dept.of Mathematics

Gratification Speech : **Dr.S. Ismail Mohideen**
Principal & HOD of Mathematics

Vote of Thanks : Dr.M. Mohammed Jabarulla
Associate Professor of Mathematics

Snapshots of Retirement Felicitation Function for Dr. S. Ismail Mohideen, Principal and HOD of Mathematics on 28th February 2024.



**SCIENCE ACADEMIES' LECTURE WORKSHOP ON
"MATHEMATICAL BIOLOGY"**

Date: 18.03.2024 and 19.03.2024

Sponsored and Supported by



Indian Academy of Sciences
Bengaluru



Indian National Science
Academy, New Delhi



The National Academy of
Sciences, India
Allahabad

Organized by



Since 1951

PG & RESEARCH DEPARTMENT OF MATHEMATICS

JAMAL MOHAMED COLLEGE (Autonomous)

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(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI – 620 020

**REPORT OF THE SCIENCE ACADEMIES' LECTURE WORKSHOP ON
"MATHEMATICAL BIOLOGY"**

(Sanction Letter No. SEP/LW/Mar/2024 dated. 4th March 2024)

Dr. S. Mohamed Yusuff Ansari
Coordinator of the Workshop &
Assistant Professor
Department of Mathematics
Jamal Mohamed College (Autonomous)
Tirucirappalli – 620 020
Mobile No.: 7904515874

Dr. S.Saravanan, F.N.A.Sc,
Convener of the Workshop &
Professor & Head,
Department of Mathematics,
Bharathiar University
Coimbatore- 641 046

SCIENCE ACADEMIES' LECTURE WORKSHOP ON "MATHEMATICAL BIOLOGY"

Date: 18.03.2024 & 19.03.2024

Sponsored and Supported by



Indian Academy of Sciences
Bengaluru



Indian National Science Academy
New Delhi



The National Academy of Sciences, India
Allahabad

Organized by

PG & RESEARCH DEPARTMENT OF MATHEMATICS

JAMAL MOHAMED COLLEGE

(AUTONOMOUS)

Accredited with A++ Grade by NAAC (4th cycle) with CGPA 3.69 out of 4.0
(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI - 620020

Website : www.jmc.edu



About Science Academies

Indian Academy of Sciences (IAS), Bangalore founded in 1934 by Sir C.V. Raman, aims at promoting the progress and upholding the cause of science in the pure and applied branches. Its major activities include publication of scientific journals and special volumes, organizing meetings of the Fellowship and discussions on important topics, recognizing scientific talent, improvement of science education, and taking up other issues of concern to the scientific community. As part of the science education programmes, the Indian Academy of Sciences, Bangalore in association with the Indian National Science Academy (INSA), New Delhi and The National Academy of Sciences, India (NASI), Allahabad organize programmes for the improvement of science education in the Universities and Colleges throughout the country.

The Science Academies have been supporting two/three-day lecture workshops and fifteen-day refresher courses on topics of current interest throughout the country. All the programmes conducted by the Joint Science Education Panel of the Academies are fully supported by the Department of Science and Technology, GOI.

About the Institution

Jamal Mohamed College was founded in 1951, as an affiliated college to the University of Madras and then affiliated to Bharathidasan University, Tiruchirappalli, when it was formed in 1982. Jamal Mohamed College is situated in the central part of Tamil Nadu, Tiruchirappalli city. It was established as a religious minority institution with the primary objective of providing higher education to the downtrodden and socially backward section of the society in general and Muslim minority in particular.

The college is administered by the Society of Jamal Mohamed College. It is established in a sprawling land area of 87 acres, as a religious minority institution. Hajee M. Jamal Mohamed Sahib and Janab N.M. KhajamianRowther, of revered memory, were the founding fathers of this institution.

In the year 1957 the college got the single honor of being bracketed with the thirty best colleges in India when Danforth Foundation of USA selected the college for the award of study fellowships in U.S.A. In 1963 the college was elevated to the status of a post-graduate college.

In the year 1972, the college was recognized by UGC New Delhi, for the purposes of Grants under section 2(F) and 12(B) of the University Grants Commission Act 1956. In 1977, on the recommendation of the University of Madras, the UGC recognized the college as one of the ten "Lead colleges" in the university area.

Our College was bestowed with the unique honour of "CPE" status Phase-I and Phase-II by the University Grants Commission under the Scheme "Colleges with Potential for Excellence" in 2011 and 2016 respectively. Accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0.

The college has obtained the prestigious 56th rank among Top ranking institutions in NIRF Rankings - 2023. It is remarkable to state that the college has been recognized with Three Star status by the Institutions Innovation Council (IIC), MHRD innovation cell, Government of India in 2019. Department of Science and Technology (DST), Government of India has accorded FIST Scheme to the Departments of Zoology, Botany and Physics in 2004 and to the Department of Mathematics in 2008. Again DST FIST Scheme has been extended to the Departments of Mathematics, Physics, Botany, Zoology and Computer Science in 2019. Five Science Departments such as Mathematics, Physics, Chemistry, Botany and Zoology have been short-listed after a meritorious presentation, among many competing institutions and awarded the Star Status Scheme by the Department of Bio Technology (DBT) in 2020.

Over a period of 73 years the college was able to scale greater heights and raise to the present status as a multi-faculty institution with 28 UG and 20 PG courses. 18 departments of the college are functioning with the status of approved research centres. The college has a strength of around 12000 students. There are 133 Government Aided teaching faculty and 359 staff members are working under the self finance stream. The college celebrated its silver Jubilee in 1971, subsequently the Golden Jubilee and Diamond Jubilee in 2001 and 2011 respectively.

With many milestone achievements, the College has been marching towards fulfilling marvelous plans, matching the vision and mission of our noble founders and the present Management Committee Members. "The Jamal" journey continues with all gentle Jamalians for still more greater heights of glory in higher education.

About the Department

The Department of Mathematics of Jamal Mohamed College, was started as one of the earliest department in the year 1951. B.Sc., and M.Sc. Mathematics programmes were started in 1957 and 1963 respectively. The Department was elevated into a research department in the year 2002 by offering M.Phil. (Full Time & Part-Time) and Ph.D. (Full-Time & Part-Time) programmes. B.Sc. Mathematics (Self-Financing Section) was started for women in 2003. M.Sc. Mathematics (Self-Financing Section) was started for women and men in 2005 and 2010 respectively. In the year 2008, the Department was identified for the award of FIST – Grant by the Ministry of Science and Technology of Government of India. The Department has highly qualified faculty members actively engaged in teaching, research, continuing education programmes and consultancy. In the last 15 years, the members of the Department have written 10 books, 95 research scholars were awarded Ph.D. degrees, published more than 670 research papers in National and International journals and presented many research papers in National and International Conferences.

About the Workshop

This lecture workshop is focused to benefit the students, faculty members and research scholars to attain an expertise in developing cognitive skills mathematically about biological systems. Participants are sure to acquire fundamental skills in mathematical analysis and simulation, specialized experience in mathematical modeling in biology and neuroscience and knowledge of particular areas of biology. In addition to this, the modelling of real time problems in the form of mathematical equations, its solution methods and its impact on the global challenges are to be explained to them. Moreover, the numerical techniques will be dealt with which will provide the learners a clear idea about the behavior of the problem or the model provided. Finally, this lecture workshop is intended to motivate the students, research scholars and faculty members in understanding the applications of mathematics in biology.

REGISTRATION

The workshop is open to UG & PG students, Research Scholars and Faculty members of Mathematics and other related disciplines. There is **No Registration fee** to attend the workshop. Only Limited entries are available (FCFS). **Selected participants will be intimated through their registered Mail ID and the Selection list will be made available on our College website by 14.03.2024.**

This workshop will be conducted only through offline.

Registration link : <https://forms.gle/NXPKgNKBRRq4wpTvbA>

Last date of Registration : 13.03.2024.

Special Feature :

- ☒ **No Registration fee**
- ☒ **Eminent Scholars as Resource Persons**
- ☒ **Tea, Snacks and Lunch will be provided to all the Participants**

Dr. S.Saravanan, F.N.A.Sc.,
CONVENER
Professor & Head
Department of Mathematics
Bharathiar University
Coimbatore

Dr.S.MohamedYusuff Ansari
COORDINATOR
Assistant Professor
PG & Research Department of Mathematics
Jamal Mohamed College (Autonomous)
Tiruchirappalli – 620 020
Mobile:7904515874

PROGRAMME SCHEDULE

Venue : Hussaindeen Hall (A/C), Jamal Mohamed College, Trichy

18.03.2024 Monday

Time	Event	Speaker	Title of Talk
08.30 am - 09.00 am	Registration		
09.00 am - 9.30 am	Welcome and Inaugural		
09.30 am - 11.00 am	Lecture 1	Dr. S. Saravanan, F.N.A.Sc., Professor & Head Department of Mathematics Bharathiar University, Coimbatore	Some Basic Models in Mathematical Biology-I
11.00 am - 11.15 am	Tea Break		
11.15 am - 12.45 pm	Lecture 2	Dr.P. Kandaswamy, F.N.A.Sc., Former Director School of Mathematics & Statistics Bharathiar University, Coimbatore	Mathematical Model for Human Infections- I
12.45 pm - 02.00 pm	Lunch Break		
02.00 pm - 03.30 pm	Lecture 3	Dr. Mini Ghosh Professor Vellore Institute of Technology (VIT) University, Chennai	Mathematical modeling of infectious Diseases
03.30 pm - 3.45 pm	Tea Break		
3.45 pm - 05.15 pm	Lecture 4	Dr. G P Raja Sekhar, F.N.A.Sc., Professor, Department of Mathematics Indian Institute of Technology Kharagpur	Mathematical modelling - population growth models in the context of biological tumors

19.03.2024 Tuesday

Time	Event	Speaker	Title of Talk
09.00 am - 9.30 am	Re-Registration		
09.30 am - 11.00 am	Lecture 5	Dr. G P Raja Sekhar, F.N.A.Sc., Professor, Department of Mathematics Indian Institute of Technology Kharagpur	Hydrodynamics of Swimming Micro-organisms
11.00 am - 11.15 am	Tea Break		
11.15 am - 12.45 pm	Lecture 6	Dr. Mini Ghosh Professor Vellore Institute of Technology (VIT) University, Chennai	Modeling the spread of vector-borne diseases
12.45 pm - 02.00 pm	Lunch Break		
02.00 pm - 03.30 pm	Lecture 7	Dr.P. Kandaswamy, F.N.A.Sc., Former Director School of Mathematics & Statistics Bharathiar University, Coimbatore	Mathematical Model for Human Infections- II
03.30 pm - 3.45 pm	Tea Break		
3.45 pm - 05.15 pm	Lecture 8	Dr. S. Saravanan, F.N.A.Sc., Professor & Head Department of Mathematics Bharathiar University, Coimbatore	Some basic models in Mathematical Biology-II
05.15 pm - 05.45 pm	Concluding Session		

ALL ARE INVITED

**BRIEF REPORT OF THE SCIENCE ACADEMIES' LECTURE WORKSHOP ON
"MATHEMATICAL BIOLOGY"**

A two-day SCIENCE ACADEMIES' LECTURE WORKSHOP ON "MATHEMATICAL BIOLOGY" was held in the PG & Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli-20 on 18th and 19th March 2024. The Lecture workshop was sponsored by the Science Academies, Indian Academy of Science (IASc) Bengaluru, Indian National Science Academy (INSA), and National Academy of Science (NASI) New Delhi. **Dr. S. Saravanan F.N.A.Sc., Professor & Head, Department of Mathematics, Bharathiar University, Coimbatore was the convener of this Lecture Workshop.**

This lecture workshop is focused to benefit the students, faculty members and research scholars to attain an expertise in developing cognitive skills mathematically about biological systems. Participants are sure to acquire fundamental skills in mathematical analysis and simulation, specialized experience in mathematical modeling in biology and neuroscience and knowledge of particular areas of biology. In addition to this, the modelling of real time problems in the form of mathematical equations, its solution methods and its impact on the global challenges are to be explained to them. Moreover, the numerical techniques will be dealt with which will provide the learners a clear idea about the behavior of the problem or the model provided. Finally, this lecture workshop is intended to motivate the students, research scholars and faculty members in understanding the applications of mathematics in biology.

A total of 8 lectures were delivered by resource persons. About 117 participants from various colleges participated in the workshop. The resource persons are

- Dr.P. Kandaswamy, F.N.A.Sc.,
Former Director
School of Mathematics & Statistics
Bharathiar University
Coimbatore
- Dr. G P Raja Sekhar, F.N.A.Sc.,
Professor
Department of Mathematics
Indian Institute of Technology
Kharagpur
- Dr. Mini Ghosh
Professor
Vellore Institute of Technology (VIT)
University, Chennai.

The two days lecture workshop was inaugurated by Dr. S. Saravanan at 9.00 am on 18.03.2024. Dr.R.Jahir Hussain, HOD (i/c) of Mathematics, Jamal Mohamed College welcomed the gathering. Dr. S. Ismail Mohideen, Principal, Jamal Mohamed College delivered the Presidential Address. Jamal Mohamed College Management Committee Secretary and Correspondent Dr.A.K.Khaja Nazeemudeen. Treasurer Hajee. M.J.Jamal Mohamed, Assistant Secretary Dr.K.Abdus Samad and Hon. Director Dr. K.N.Abdul Kader Nihal made their august presence in this Meeting. Dr. S. Saravanan, Convenor of this workshop gave introductory speech and mentioned the objectives of the lecture workshop. He also explained the various activities of Science Academies'. Dr. S. Ismail Mohideen in his Presidential address thanked the Science academies' for conducting the workshop at Jamal Mohamed College. Finally, Dr. A. Mohamed Ismayil, Associate Professor of Mathematics, Jamal Mohamed College proposed vote of thanks.

On 18.03.2024, First lecture was delivered by Dr. S. Saravanan on Some Basic Models in Mathematical Biology - I between 9.30 a.m. and 11.00 a.m.

On 18.03.2024, Second session was taken by Dr.P. Kandaswamy, F.N.A.Sc., Former Director, School of Mathematics & Statistics, Bharathiar University, Coimbatore between 11.15 a.m. – 12.45 p.m. on Mathematical Model for Human Infections-I. Earlier Dr. N. Mohamed Thoiyab, Assistant Professor in Mathematics welcomed the Resource person.

On 18.03.2024, Third lecture was given in the afternoon session by Dr Mini Ghosh, Professor, Vellore Institute of Technology (VIT) University, Chennai, on Mathematical Modeling of infectious Diseases between 2.00 p.m. and 3.30 p.m. Earlier Dr. U. Abuthahir, Assistant Professor in Mathematics welcomed the Resource person.

On 18.03.2024, Dr. G.P. Raja Sekhar F.N.A.Sc., Professor, Department of Mathematics, Indian Institute of Technology, Kharagpur, gave fourth lecture on Mathematical Modelling – population growth models in the context of biological tumors from 3.45 p.m. to 5.15 p.m. Earlier Dr.P. Murugannatham, Assistant Professor in Mathematics welcomed the Resource person.

On 19.03.2024 (**Second day**), First lecture was delivered by Dr. G.P. Raja Sekhar F.N.A.Sc., Professor, Department of Mathematics, Indian Institute of Technology, Kharagpur, on Hydrodynamics of Swimming Micro-organisms between 9.30 a.m. and 11.00 a.m. Finally, Dr. M. Rifayathali, Assistant Professor in Mathematics proposed vote of thanks.

On 19.03.2024, Second session was taken by Dr Mini Ghosh, Professor, Vellore Institute of Technology (VIT) University, Chennai between 11.15 a.m. – 12.45 p.m. on Modeling the spread of vector-borne diseases. Finally, Dr.M. Mohamed Althaf, Assistant Professor in Mathematics proposed vote of thanks.

On 07.01.2023, Third lecture was given in the afternoon session by Dr.P. Kandaswamy, F.N.A.Sc., Former Director, School of Mathematics & Statistics, Bharathiar University, Coimbatore on Mathematical Model for Human Infections-II between 2.00 p.m. and 3.30 p.m. Finally, Dr.A. Prasanna, Assistant Professor in Mathematics proposed vote of thanks.

On 19.03.2024, Dr. S. Saravanan F.N.A.Sc., Professor & Head, Department of Mathematics, Bharathiar University, Coimbatore, gave fourth lecture on Some basic models in Mathematical Biology - II from 3.45 p.m. to 5.15 p.m.

On 19.03.2024, In the feedback session, the young and energetic participants expressed their views about the Lecture workshop. They appreciated the lectures delivered by resource persons and the good hospitality and other arrangements made by the Jamal Mohamed College. Dr. S. Mohamed Yusuff Ansari, Coordinator of the program presented the report of the programme. At the end Dr. M. Mohammed Jabarulla, Associate Professor of Mathematics, Jamal Mohamed College delivered vote of thanks. He especially thanked, convenor Dr. S. Saravanan F.N.A.Sc., Professor & Head, Department of Mathematics, Bharathiar University, Coimbatore and all the resource persons for the successful completion Lecture workshop. Earlier Mr. S. Masoothu, Associate Professor of Mathematics, Jamal Mohamed College welcomed the gathering.

Acknowledgement:

As a coordinator of the workshop, I am very much thankful to the Academy for the financial assistance. I express my gratitude to Shri. N. Maheshchandra (Executive Secretary, Science Academies' Education Programme), Dr. S. Saravanan (Convener of LW) and resource persons for their valuable support and guidance. Hosting the Science Academies Lecture Workshop is a great honour to our institution. Particularly to the Department of Mathematics of our College.

JAMAL MOHAMED COLLEGE (Autonomous)

TIRUCHIRAPPALLI – 20

PG & Research Department of Mathematics

SCIENCE ACADEMIES' LECTURE WORKSHOP ON

"MATHEMATICAL BIOLOGY"

Sponsored and Supported by

Indian Academy of
Sciences
Bengaluru

Indian National Science
Academy
New Delhi

The National Academy of Sciences,
India
Allahabad

Date: 18.03.2024 and 19.03.2024

Composition of Participants

S.No.	Name of Institution	No. of Participants
1.	Aiman College of Arts And Science for Women, Trichy	2+2
2.	Barathidasan University , Trichy	14
3.	Bishop Heber College, Tiruchirapalli	7
4.	Dhanalakshmi Srinivasan University, Trichy	22+7
5.	Holy Cross College (Autonomous), Tiruchirappalli	13
6.	Jamal Mohamed College, Tiruchirappalli	7+15
7.	MIET Arts & Science College, Trichy	2
8.	MIT Campus Anna University Chennai.	1
9.	Rajalakshmi Institute of Technology, Chennai.	1
10.	S.R.M Institute of Science and Technology	11
11.	St. Joseph's College , Trichy.	1+1
12.	Srimad Andavan Arts and Science College, Trichy.	1
13.	Arignar Anna Institute of Technology	1
14.	Urumu Dhanalakshmi College, Kattur, Trichy	8
15.	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	1
16.	Saranathan College of Engineering.	3
	Total	120

Total participants approved by IASc: 100 to 150; No. actually participated 117

(Students: 102 ; Teachers: 18 ; Resource Persons: 04 ; Supporting Staff: 04)

SCIENCE ACADEMIES' LECTURE WORKSHOP ON "MATHEMATICAL BIOLOGY"

SCIENCE ACADEMIES' LECTURE WORKSHOP ON "Mathematical Biology"
 Date: 18.03.2024 and 19.03.2024
 Sponsored and Supported by
 Indian Academy of Sciences Bangalore, Indian National Science Academy New Delhi, The National Academy of Sciences, India, Allahabad.
 Organized by
PG & RESEARCH DEPARTMENT OF MATHEMATICS JAMAL MOHAMED COLLEGE (Autonomous)
 Accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0 (Affiliated to Bharathidasan University) TIRUCHIRAPPALLI - 620 020

Science Acedamies' Lecture Workshop on 'Mathematical Biology'
 Sponsored & Supported by
 Indian Academy of Sciences Bangalore, Indian National Science Academy New Delhi, The National Academy of Sciences, India, Allahabad.
 Speakers
 Dr. S. Saravanan, F.R.A.Sc., Professor & Head, Department of Mathematics, Bharathidasan University
 Dr. P. Kandaswamy, F.R.A.Sc., Senior Director, Central Institute of Education, Bharathidasan University
 Dr. P. Raja Shekar, F.R.A.Sc., Professor, Department of Mathematics, Bharathidasan University
 Dr. Mini Ghosh, Professor, Department of Mathematics, Bharathidasan University
 18th & 19th March 2024
 8.30 a.m. - 5.15 p.m.
 Hussaindeen Hall (A/C)
 Organized by
 PG & RESEARCH DEPARTMENT OF MATHEMATICS Jamal Mohamed College (Autonomous) TIRUCHIRAPPALLI - 620 020



Dignitaries on the stage



Dr.R.Jahir Hussain welcomed the gathering



Dr. S. Ismail Mohideen in his Presidential address



Keynote Address by Dr. S. Saravanan, Convenor of this Workshop



Enthusiastic participants of SCIENCE ACADEMIES' LECTURE WORKSHOP



First lecture was delivered by Dr. S. Saravanan, F.N.A.Sc., on Some Basic Models in Mathematical Biology - I between 9.30 a.m. and 11.00 a.m.



On 18.03.2024, Second session by Dr.P. Kandaswamy, F.N.A.Sc., on Mathematical Model for Human Infections-I

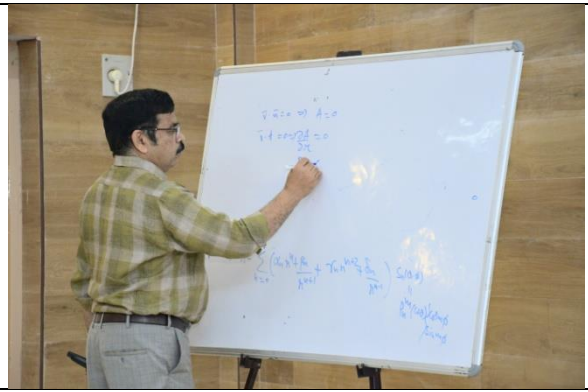


Dr.U. Abuthahir Welcomed the Resource Person in the Third Session

Dr Mini Ghosh, Professor, Vellore Institute of Technology (VIT) University, Chennai, on Mathematical Modeling of infectious Diseases



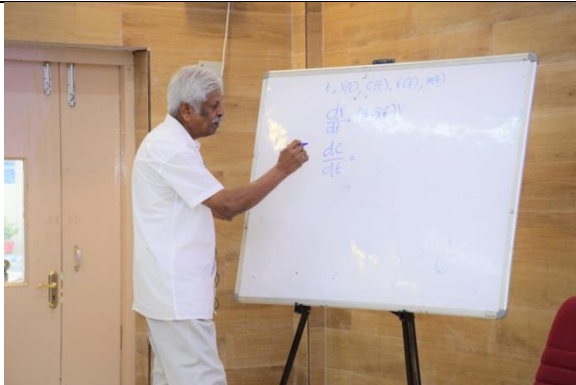
Dr. G.P. Raja Sekhar gave fourth lecture on Mathematical Modelling – population growth models in the context of biological tumors



On 19.03.2024, First lecture by Dr. G.P. Raja Sekhar F.N.A.Sc., Professor, Department of Mathematics, Indian Institute of Technology, Kharagpur, on Hydrodynamics of Swimming Micro-organisms between 9.30 a.m. and 11.00 a.m.



Second session by Dr Mini Ghosh on Modeling the spread of vector-borne diseases



Third lecture by Dr.P. Kandaswamy, F.N.A.Sc., on Mathematical Model for Human Infections-II

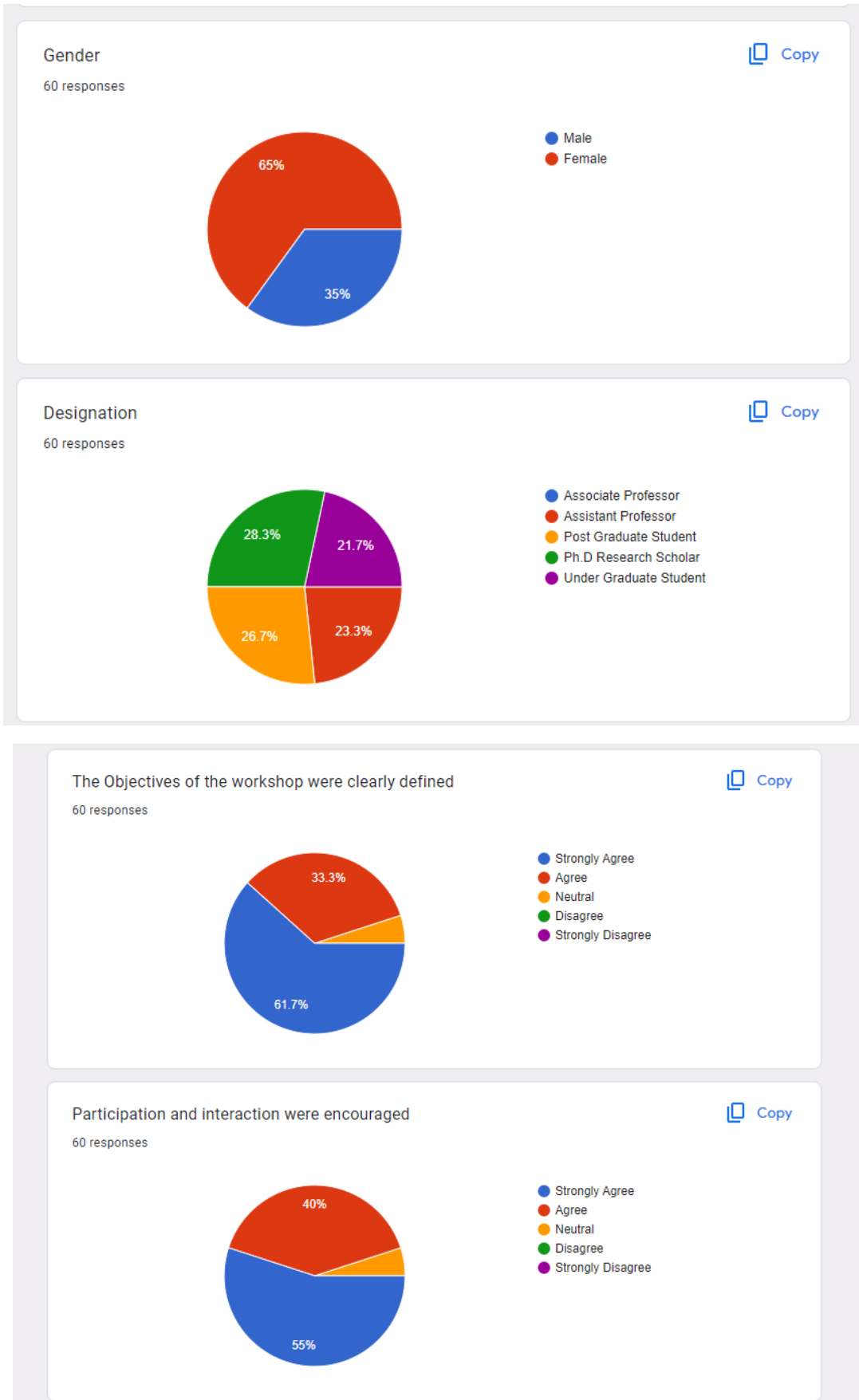


On 19.03.2024, Dr. S. Saravanan F.N.A.Sc., Professor & Head, Department of Mathematics, Bharathiar University, Coimbatore, gave fourth lecture on Some basic models in Mathematical Biology - II from 3.45 p.m. to 5.15 p.m.



Feedback session, the young and energetic participants expressed their views about the Lecture workshop in the Concluding Session on 19.03.2024.

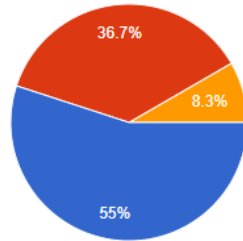
Feedback Report -SCIENCE ACADEMIES' LECTURE WORKSHOP ON "MATHEMATICAL BIOLOGY" on 18.03.2024 & 19.03.2024.



The content was organized and easy to follow

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60 responses

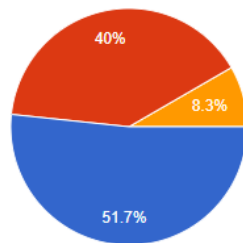


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The training experience will be useful in my work

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60 responses

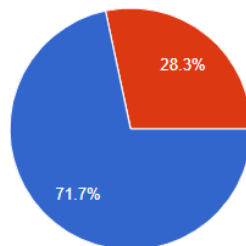


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The trainer was knowledgeable about the training topics

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60 responses

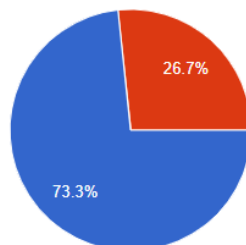


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The trainer was well prepared

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60 responses

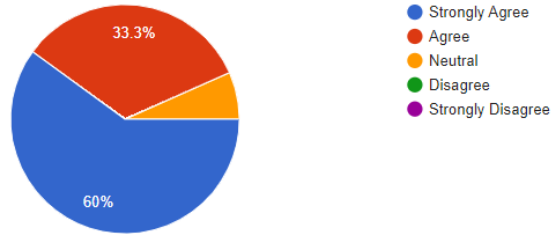


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The training objectives were met

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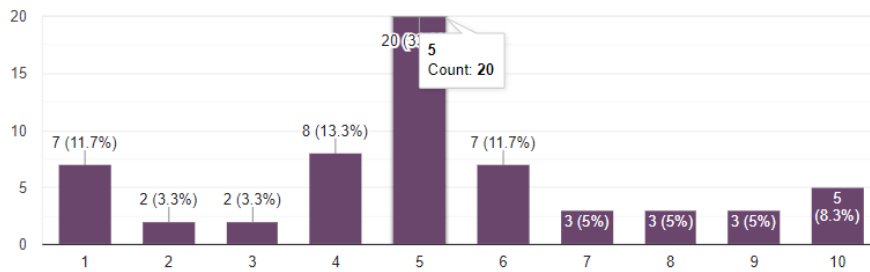
60 responses



Knowledge Level Before Attending this Programme

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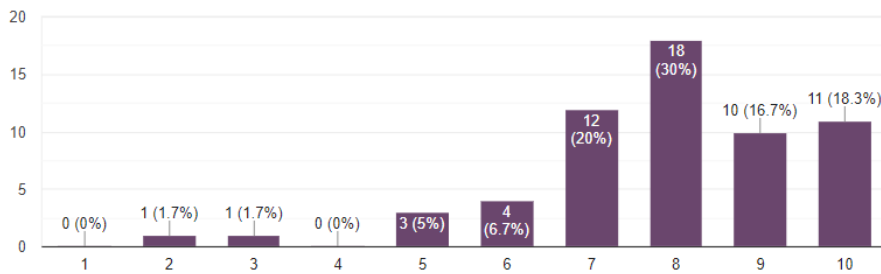
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Knowledge Level After Attending this Programme

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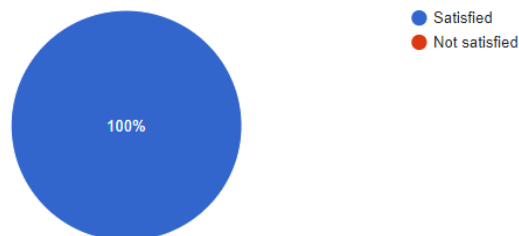
60 responses



Hospitality

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60 responses



Any Suggestion

- Good
- It was more useful to recall my former studies to start an interest on research
- We need the participation certificate separately
- I wish that upcoming workshop should be a bit longer so that we can gain more knowledge about the concept
- Thank you for this lecture workshop. Looking forward for many more workshops in future
- It was useful to our studies
- Please offer more work shops like this
- The workshop was truly insightful and informative. I am eager to participate in more workshops in future.
- Easily understandable
- Everything is fine but if the lecture is conducted for 1week it would be even more clear to the participants
- The upcoming Programme may conducting more number of days..
- I am expecting that you should separately give the certificate and attendece.
- Great work
- Nice sessions
- Looking forward for more workshops in inventory.
- Need more workshop on Operations Research
- Need workshops on operations research
- Looking for pure mathematics topics in future
- This type of Excellent programes needed in future
- Good 😊
- Useful session
- It is very well organized workshop and my suggestion is continue to 3 days.
- Very nice
- The work shop was good, conduct more like this. Think you.
- Teaching in Tamil is good
- Please conduct more workshops for operation research and management studies.
- Please extend the days of workshop and please include some pure mathematics in that workshop sir
- Very informative and interesting sessions.
- If possible means please provide Participants certificate in next workshop sir. That's all. Thank you sir.
- Research idea learn to many topics

- Nice
- Excellent
- No suggestions. The event is wonderful thank you all . Jamaliyaens ✨⁺¹⁰⁰😊
- EVERYTHING IS GOOD
- Expecting More Commitments Like This Ever . Thank You For Making Us Much Satisfied In All Categories. Thank You Jamal.
- Workshop is very useful for future studies
- Excellent
- Always good keep it up sir
- kindly share experts PPT to all participants
- Hope to have such more workshops in the future.