



# MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

*3.2.2 Number of Workshops, Seminars, Conferences Including on Research Methodology, Intellectual Property Rights (IPR) and Entrepreneurship Conducted*



## CRITERION 3

### RESEARCH, INNOVATIONS AND EXTENSION

2021-2022



**3.2.2 Number of Workshops, Seminars, Conferences Including on Research Methodology, Intellectual Property Rights (IPR) and Entrepreneurship Conducted During Last Five Years**

Sl. No	Name of the Workshop/ Seminar	Nature of Programme	Number of Participants/ Beneficiaries	Organising Department	Date From – To	Page No
1	Data Science: Field of Mathematics	Research Methodology	86	Mathematics	18/12/2021	5
2	Atoms an Overview	Research Methodology	99	Chemistry	14/12/2021	11
3	Analysis of Data	Research Methodology	30	Commerce (Computer Application)	09/09/2021	17
4	Introduction to Research Methodology	Research Methodology	30	Commerce (Computer Application)	08/08/2021	22
5	Mangalyan and History of Space Mission	Research Methodology	50	Physics	7/10/2021	26
6	The Organic way to Health and Happiness: The Journey of a Food Blogger	Entrepreneurship Development	100	Commerce	10/09/2021	32
7	Recent Trends in Research	Research Methodology	45	Physics	17/12/2021	38
8	Research Design	Research Methodology	19	Zoology	13/08/2021 - 14/08/2021	43
9	Research Ethics	Research Methodology	17	Zoology	19/06/2021	48
10	Research Methodology	Research Methodology	45	Physics	20/11/2021	52
11	Some Open Problems in Research	Research Methodology	28	Mathematics	2/12/2021 - 3/12/2021	57

*[Signature]*

Principal - in - charge  
Mar Thoma College For Women  
Perumbavoor - 683 542





**MAR THOMA COLLEGE FOR WOMEN, PERUMBAAVOOR**  
(Affiliated to Mahatma Gandhi University, Kottayam. Re - Accredited by NAAC with 'B+')

Kerala 683 542  
0484 2522723  
Fax 0484 2520823  
E mail : mtcwpbr@yahoo.in

12	Dishwash & Handwash Making	Entrepreneurship Development	57	Chemistry	29/8/2022 to 30/8/2022	61
13	Entrepreneurship skills, Attitude and Behavioural Development	Entrepreneurship Development	111	Commerce (Computer Application )	27/2/2022	67
14	Entrepreneurship Development Workshop	Entrepreneurship Development	110	Commerce (Finance and Taxation)	25/02/2022	74
15	Plasma & Its Applications And Nuclear Fusion	Research Methodology	40	Physics	26/5/2022	80
16	Research Methodologies, Data Collection and Analysis and Literature Review	Research Methodology	18	Zoology	08/07/2022 - 09/07/2022	86
17	Women Empowerment through Entrepreneurship	Entrepreneurship Development	100	Commerce (Finance and taxation)	15/02/2022	91
18	Intellectual Property Right	Intellectual Property Right	175	Library	18/1/2022	97

*Signature*

Principal-in-charge  
Mar Thoma College For Women  
Perumbavoor - 683 542



**3.2.2:**

***Number of Workshops, Seminars,  
Conferences Including on Research  
Methodology, Intellectual Property  
Rights (IPR) and Entrepreneurship  
Conducted During Last Five Years***

## Data Science: Field of Mathematics

<b>Title of the Programme</b>	<b>Data Science: Field of Mathematics</b>
<b>Organizing Department</b>	<b>Mathematics</b>
<b>Resource Person</b>	<b>Dr. Sumitra S, Associate Professor, IIST, Trivandrum</b>
<b>Date</b>	<b>18/12/2021</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Duration</b>	<b>10.30a.m. to 12.30 p.m.</b>
<b>Number of Participants</b>	<b>86</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To generate knowledge on the basics of data science</li> <li>• To study applications of data science in various industries</li> <li>• To study various mathematical tools and techniques in research</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students attained valuable insights into the world of data science and its relationship with mathematics</li> </ul>

### Report

The Department of Mathematics organized a seminar on “Data Science: Field of Mathematics” by Dr. Sumitra S, Associate Professor, IIST, Trivandrum, on 18 December 2021 at 10:30 am. The seminar focused on the



application of mathematical principles in the field of data science. Dr. Sumitra S highlighted the various techniques and tools used in data science, the role of mathematics in data science, and the importance of data science in today's world. Dr. Sumitra S began the seminar by explaining the basics of data science and its applications in various industries. She highlighted how data science is transforming the world with its predictive capabilities and helping organizations make informed decisions. Dr. Sumitra S then explained the importance of mathematics in data science and how it forms the foundation of the field.

Dr. Sumitra S discussed the various mathematical techniques and tools used in data science, including linear algebra, calculus, statistics, probability theory, and optimization. She explained how these tools help data scientists analyze large sets of data, identify patterns, and make predictions. She also emphasized the importance of understanding the limitations and assumptions of these tools to ensure accurate analysis and interpretation of data.

Dr. Sumitra S also discussed the challenges faced by data scientists in the field, such as data quality, scalability, and interpretability. She explained how mathematical modelling can help overcome these challenges and produce accurate and reliable results. She also highlighted the need for collaboration between data scientists, mathematicians, and domain experts to ensure effective and efficient data analysis.

In conclusion, Dr. Sumitra S emphasized the importance of data science in today's world and how it is transforming various industries. She highlighted the crucial role of mathematics in data science and the need for ongoing research and development in the field. The seminar was informative and provided valuable insights into the world of data science and its relationship with mathematics.





# MAR THOMA COLLEGE FOR WOMEN PERUMBAAVOOR

RE-ACCREDITED BY NAAC WITH B+ GRADE  
(AFFILIATED TO MAHATMA GANDHI UNIVERSITY)

**PG Department of Mathematics  
organises**



## NATIONAL MATHEMATICS DAY CELEBRATIONS

**Inauguration  
&**

**Intercollegiate Webinar on  
"Data Science: Field of Mathematics"**



**Chief Guest & Resource Person**

**Dr. SUMITRA S.**

Associate Professor,

Indian Institute of Space Science & Technology, Trivandrum.

**REGISTER TO PARTICIPATE:**

**<https://forms.gle/XZswntX24ceQncxC9>**

**THE ENTRIES ARE LIMITED TO 100 PARTICIPANTS**

**LAST DATE OF REGISTRATION : 17/12/2021 @ 11.30 PM**

**E-CERTIFICATES WILL BE PROVIDED.**

**18 DECEMBER 2021**

**SATURDAY**

**PLATFORM : GOOGLE MEET**

**TIME: 10.30 AM**

In  
association  
with



The Kerala  
Mathematical  
Association

**For more details, contact:**



**9947142835  
8547969171**

Figure 1: Seminar - Brochure

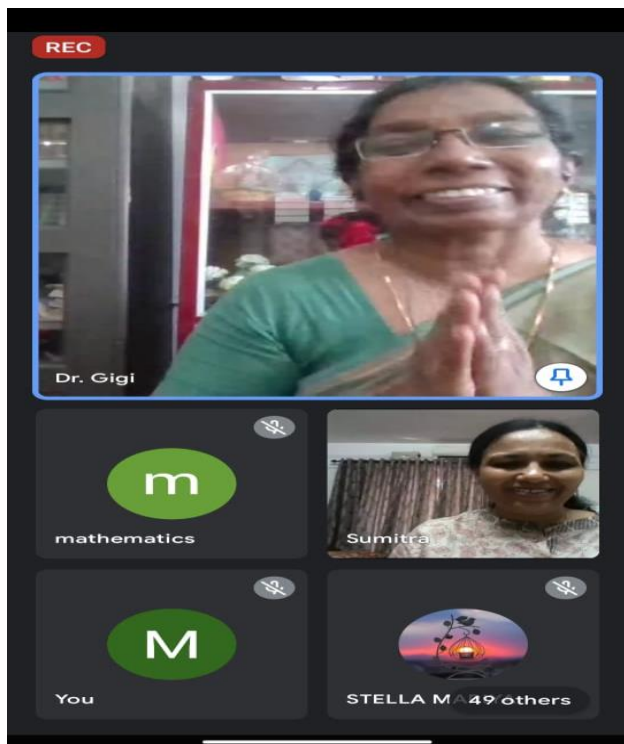


Figure 2: Screen shot of the programme

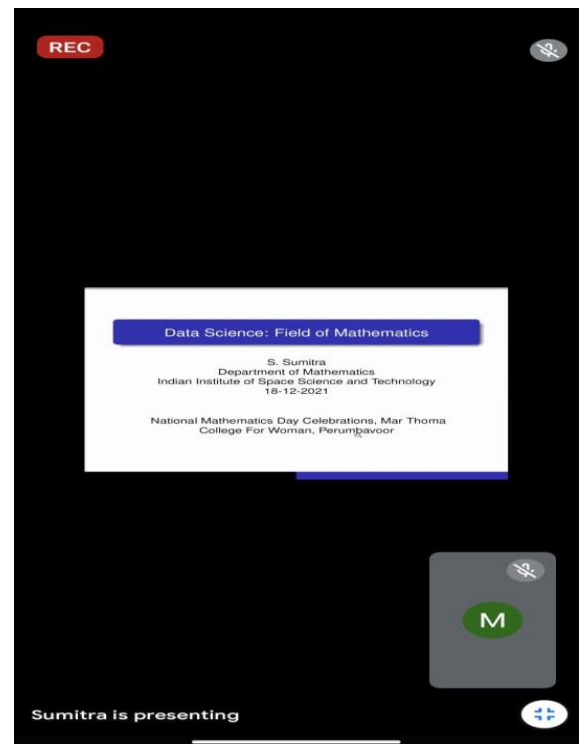


Figure 3: Screen shot of the programme



Figure 3: Screen shot of the programme



### List of Participants

Sl. No	Name of the student
1	ALEESHA RAIHAN M A
2	ANASWARA ASHOK P
3	ANGEL ELIZEBETH
4	ANJANA P J
5	ANUCHANDRA SANTHOSH
6	FARSEENA N M
7	FATHIMA ALIYA SALIM
8	NEHA JOY
9	PUNYA LALU
10	RASEENA KAREEM
11	SAIEETHA T J
12	SARAMOL SAJAN
13	STELLA MARIYA ROY
14	AKHILA ANN ZACHARIAH
15	ANITTA SHOJI
16	ASWATHI RANI
17	BHADRA SASIDHARAN
18	DHANYA
19	FATHIMA ABDUL AZEEZ
20	FATHIMA MOHAMMED
21	HANNATH E K
22	NAJUMA YOUSAF
23	SHIFNA SHAJI
24	STEFY POULOSE
25	ALFIYA K KARIM
26	AMINA N S
27	DEEPTHI RAJENDRAN
28	FARSANA P M
29	GAYATHRI AJITH
30	GREESHMA RAJAN
31	JEEVA GOPAL
32	KEERTHI RAJENDRAN
33	MIDHILA SASINDRAN
34	NAZIYA N A
35	SHIMNA C S
36	SOORYAMOL K S
37	VRINDHA P V
38	ANCY MATHEW
39	ANJANA M M
40	ANU A A
41	APARNA S KARTHA
42	ASWATHY MONEY
43	CHAITHANYA CHANDRAN
44	ELSA VARGHESE
45	FEBI MARIUM BABU
46	FOUSIYA RASHEED

47	MAYA PHILIPOSE
48	NINIYA K ELDHO
49	PRIYA BABU
50	REEMA BABY
51	RESHMA V A
52	SNEHA RADHAKRISHNAN
53	ADHEENA VARGHESE
54	AHILA HARI
55	ANAGHA V. R
56	ANAKHA JOSE
57	ANJALI VALSAN
58	ANJALY SIVADASAN
59	ANN MARY SANTY
60	ANSY SEBASTIAN
61	ASHITHA KAREEM
62	ASHNA ARAMTHURUTHIL KOYAN
63	ASNA K. A
64	ATHIRA VENUGOPAL
65	DEEPTHI RAJENDRAN
66	DONA MARIYA JOY
67	DONIYA LAIJU
68	GANALATHA
69	GREESHMA KRISHNAN
70	GREESHMA RAJAN
71	INARANI
72	JEBNA K JALEEL
73	KEERTHY RAJENDRAN
74	LINNY BENNY
75	NOEL KURIEN
76	PARVATHY V.G
77	PRAVEENA P.S
78	RAHMATH T.A
79	RAMLATH C.P
80	RAMSEENA P.A
81	RUSHDA V.A
82	SHAHANA C.K
83	SOYA JOY
84	SREELAKSHMI T.R
85	SUSAN VARGHESE
86	THAFCIYAMOL T.A

## Atoms an Overview

<b>Title of the Programme</b>	<b>Atoms an Overview</b>
<b>Organizing Department</b>	<b>Chemistry</b>
<b>Resource Person</b>	<b>Dr. Gireesh M K, Assistant Professor, Department of Chemistry, Sree Sankara College, Kalady</b>
<b>Date</b>	<b>14/12/2021</b>
<b>Venue</b>	<b>Seminar Hall</b>
<b>Duration</b>	<b>10.00a.m. to 12.00 p.m.</b>
<b>Number of Participants</b>	<b>99</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To study the experimental research for the invention of fundamental particles of an atom</li> <li>• To understand the quantum mechanics</li> <li>• To study application of multidisciplinary techniques in research</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students achieved more clarity in the concepts related to quantum mechanics</li> </ul>

### Report

The Chemistry association 2021-22 “CHEMISTA” was officially inaugurated on 14 December 2021. The function is presided over by Dr. Sujo Mary Varghese, Principal in charge. Dr. Rakhi R teacher incharge delivered the welcome speech. Dr. Gireesh M K, Assistant Professor, Department of Chemistry, Sree Sankara College, Kalady inaugurated the function. The



inauguration was followed by a talk on “Atoms an Overview” by Dr. Gireesh M K.

In this session Dr. Gireesh M K gives the basic concepts of atomic structure and quantum mechanics. He explained the experimental research for the invention of fundamental particles of an atom. This session is very helpful for students to understand the quantum mechanics which is included in their syllabus which was very difficult to understand. In the last session the students mentioned that too. The resource person's well prepared presentation gives more clarity to the concepts he discussed. The students appreciated this type of session which is very helpful for their studies. At the end of the session a vote of thanks is delivered by Ashiya Shaji association secretary.



Figure 2: Seminar - Brochure

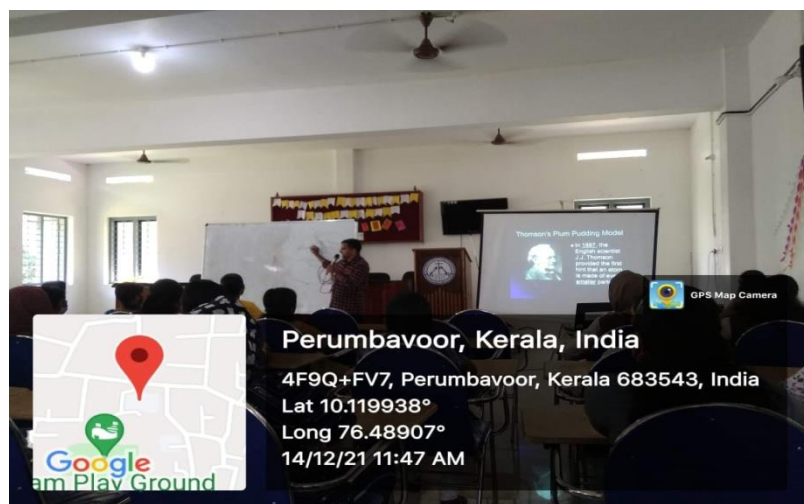


Figure 2: Dr. Gireesh delivering the talk



Figure 2: Dr. Gireesh delivering the talk

### List of Participants

Sl. No	Name of the student
1	AATHIRA A KUMAR
2	ABHIRAMI T A
3	AJUMUNNISA P A

4	ASHIYA SHAJI
5	ASWATHI K S
6	ATHEENA SEBASTIAN
7	DONA PATHROSE
8	MARIYA VINCENT
9	NADHIYA KOCHUMON
10	NARMADA M
11	NURJAHAN P J
12	PARVATHY VENU
13	RINSA K K
14	SAIFUNISA M A
15	VINAYA A M
16	ABEEBA ALI
17	AFLA ALI
18	ALFIYA ALIYAR
19	ALINSHA ALIYAR
20	AMRUTHALAKSHMI MOHANAN
21	ANUSREE ANIL
22	ASMA YOOSAF
23	FATHIMA SAFRIN P A
24	FATHIMA SHERIN M A
25	FATHIMMA K Y
26	JENNET WILSON
27	KADEEJA C S
28	KHADEEJAMOL P A
29	KRIPA ELSA KURIAN
30	MANYA MANOJ
31	MEENU MOHAN
32	MINCIYA UMMAR
33	NIVEDITHA A K
34	PARVATHY M A
35	REMEESA PARVIN
36	ROUFATH SHAJI
37	SAHALA KHALID
38	SUMAYYA S ALI
39	THASNEEM ABDUL RASHEED
40	VICTORIYA SELVI J



41	SOWMIYA K
42	ALEENA RAJU
43	ANJANA K R
44	FARSANA SULTHANA T A
45	FATIMA K H
46	FAZIYA E M
47	KRISHNAPRIYA K M
48	LAKSHMI SASIDHARAN
49	NATHA NASRIN T S
50	SAFNA NOUSHAD
51	SRUTHI SURESH
52	U MEENAKSHI PANICKER
53	AATHIRA BHARATH C A
54	AMMU SUNIL
55	AMRIN AZEEZ
56	ANASWARA E S
57	ARYA VINOD
58	ATHULYA VINOD
59	BLESSY M B
60	DEVOOTTY N S
61	KRISHNENDHU K G
62	NANDANA RAVI
63	SEETHAL K SASI
64	SHAHANA P S
65	UNNIMAYA P M
66	ABHIRAMI J S
67	ALIFNA K B
68	ANAGHA JOY
69	ANVIYA MARIAM BOBBY
70	ASNA P A
71	CHIPPY K S
72	FATHIMA MUNAJ
73	LINAMOL C K
74	MEERA BABU
75	PREETHIKA PRAKASH
76	RINSHIDA JESNI N P

77	ABEENA M M
78	ABHIMA SUBASH
79	AISHA DILEEP
80	AMEENA E A
81	AMINA K K
82	AMINA P M
83	AMIYA SUBAIR
84	AMMU PRAKASH
85	ANAGHA ASOKAN
86	ASHNA K H
88	CHRISTY ANNA VARGHESE
89	FATHIMA ALIYAR
90	FATHIMA K A
91	GADHA G KARTHA
92	GAYATHRY K G
93	JESEENA MOL C M
94	NANDANA M NAIR
95	SANDRA P NAIR
96	SANIJA SIVAN
97	SIFNA C S
98	SREESHMA RAJEEV
99	UMMU HABEEBA E A

## Analysis of Data

<b>Title of the Programme</b>	<b>Analysis of Data</b>
<b>Organizing Department</b>	<b>Commerce (Computer Application)</b>
<b>Resource Person</b>	<b>Mrs. Saritha, Department of commerce</b>
<b>Date and Year</b>	<b>09/09/2021</b>
<b>Venue</b>	<b>Room no. 102</b>
<b>Duration</b>	<b>2.30.p.m to 4.00 pm</b>
<b>Number of Participants</b>	<b>30</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To study the importance of selecting the right topic for research</li> <li>• To critically evaluate the collected data</li> <li>• To understand the proper methods to attain conclusions</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The listeners were able to understand the process of selecting the topic</li> </ul>

### Report

The seminar on “Analysis of Data” was held on 9th September 2021 at 2.30 pm in Room No. 102. The seminar was conducted by Mrs. Saritha Jeevan, Assistant Professor in the Department of Commerce. The seminar was presided over by Dr. Gigi George and was coordinated by Ms. Lakshmi. The seminar started with an explanation of the importance of selecting the right topic for

research.

Mrs. Saritha emphasized that selecting a good topic is a critical aspect of research, as it is the foundation for all research. She explained the various criteria to consider while selecting a topic, such as relevance, originality, and level of difficulty. She also discussed the importance of understanding the scope and limitations of the topic and advised the audience to always think critically before selecting a topic. The seminar was then followed by an interactive session, where the audience was encouraged to ask questions. The speaker answered all the queries of the audience and gave valuable advice to help them select the right topic for their research.

At the end of the seminar, the students expressed their satisfaction with the session and thanked Mrs. Saritha for providing them with the necessary guidance to select a good topic for their research. They also thanked the coordinator for organizing the seminar. Overall, the seminar on 'How to Select a Topic' was a great success, as it provided the audience with a better understanding of the process of selecting a topic and the various criteria to consider while doing so.



**Figure 3: Event brochure**



Figure 4 picture of the event

### List of Participants

Sl. No	Name of the student
1	ABHIRAMI K. R
2	ALFIYA MUHAMMED
3	ANJALA BABU
4	ANUPAMA RAJU
5	APARNA A. S
6	ARATHY MANOJ
7	AZNAMOL K. M
8	JOSNA P. J
9	KATHEEJA NAZEER
10	KEERTHANA T VIJAY
11	MANJU MANI
12	MANJU P. B
13	MEHA PARVEEN K. A
14	MIRSANA SALIM



15	NIKHITHA PAULACHAN
16	RESEENA K. R
17	REVATHY SUKUMARAN
18	ROSHNA ANIL
19	SARIKA SURESH
20	SUHARA P. R
21	SYAMA K. S
22	AKAMSHA SANTHOSH
23	ALEENA K. A
24	FARZANA A SALIM
25	FATHIMA FARSANA T. A
26	FATHIMA NAZRIN M.N
27	FOUSIYA V ZAKEER
28	JOSEENA JOSE
29	PUNNYA BIJU

## Introduction to Research Methodology

<b>Title of the Programme</b>	<b>Introduction to Research Methodology</b>
<b>Organizing Department</b>	<b>Commerce (Computer Application)</b>
<b>Resource Person</b>	<b>Ms. Ashitha Augustine Research scholar, St. Xaviers College Aluva</b>
<b>Date and Year</b>	<b>08/08/2021</b>
<b>Venue</b>	<b>P.G Seminar Hall</b>
<b>Duration</b>	<b>10.30 a.m to 12.00 pm</b>
<b>Number of Participants</b>	<b>30</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>To study the importance of research ethics</li> <li>To study various ethical guidelines that must be followed while conducting research</li> <li>To understand the proper method for research</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>The students gained insights into various research methods and the importance of pursuing research in an ethical manner.</li> </ul>

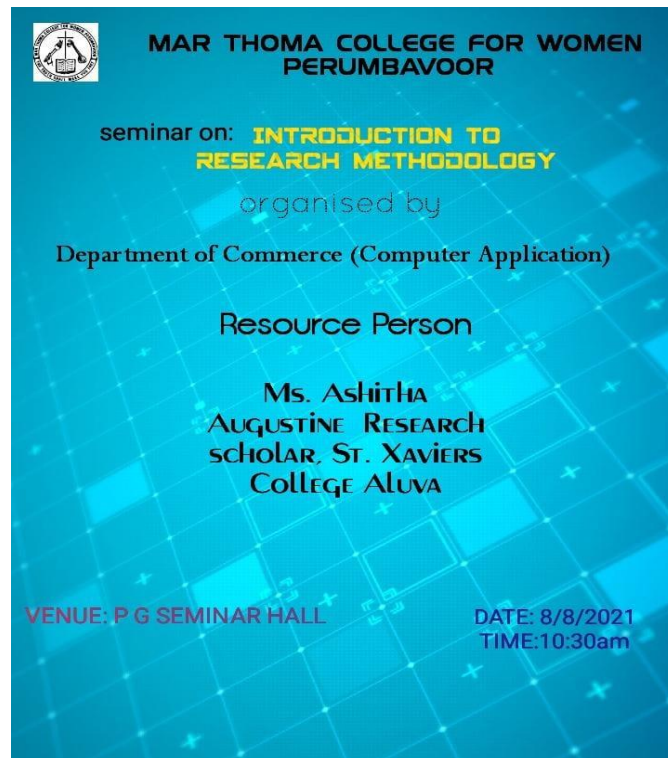
### Report

A seminar was organised on “Introduction to Research Methodology” and the resource person of the programme was Ms. Ashitha Augustine, Research Scholar, St. Xaviers College Aluva. The seminar was held on 8th August 2021, at 10.30 am and was presided by Dr. Sujo Mary Varghese. The student coordinator was Devarenjini. The seminar began with an introduction of the topic by Ms. Ashitha Augustine. She discussed the importance of research methodology and its various components such as research design, data collection, data analysis, and

report writing. She also highlighted the importance of research ethics and explained the various ethical guidelines that must be followed while conducting research.

Ms. Ashitha then discussed the various research methods such as qualitative and quantitative research methods. She discussed the advantages and limitations of these methods and the importance of choosing an appropriate method for a research project. She also discussed the different types of data, such as qualitative and quantitative data, and how these data can be collected and analysed. At the end of the seminar, Ms. Ashitha concluded by suggesting that research methodology is an important component of any research project and should be pursued carefully.

She also suggested that students should seek guidance from experienced research scholars and mentors to ensure that the research project is conducted in a systematic and ethical manner. Overall, the seminar was a great success and the participants were able to gain a better understanding of research methodology and its components. The participants were also able to gain insights into various research methods and the importance of pursuing research in an ethical manner.



**Figure 1: Programme Brochure**



**Figure 5: picture of the event**

## List of Participants

Sl. No	Name of the student
1	Aishavi P.K
2	Akshaya V.B
3	Aleena Roy
4	Aleena T.A
5	AlijaAssainar
6	Alshifa U.N
7	Amana Jenna C.N
8	AmjaFathima
9	Anusha Shaju
10	Arathy P.M
11	Arya V.S
12	Aswathy Unnikrishnan
13	Fasila K.A
14	Fathima Farzana
15	Fathimath Sahla V.N
16	Feha Foumic
17	Gouri Parvathy R
18	Helna Rose
19	Husna Yahiya
20	Jeena Jiji
21	Lakshmi K.K
22	Mary Daisy P.S
23	Neha K.L
24	Niba Nasrin K.S
25	Nithya Unni
26	Niya Anna Shibu
27	Nourin Nazir
28	Parvathy Santhosh
29	Raisha A Rasheed
30	Reshma Ramesh

## Mangalyan and History of Space Mission

<b>Programme</b>	<b>Mangalyan and History of Space Mission</b>
<b>Organizer</b>	<b>Physics</b>
<b>Resource Person</b>	<b>Mr. Harikumar K.S., Dy. Manager (Fire and Safety), FACT(Rtd)</b>
<b>Date and Year</b>	<b>7/10/2021</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Duration</b>	<b>7.00 pm to 9.00 pm</b>
<b>Beneficiaries</b>	<b>50</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To learn the importance of teamwork, collaboration, and precision in executing such a complex mission</li> <li>• To inspire students about India's remarkable achievement in space mission</li> <li>• To give insights in to the scientific aspects of a space mission</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The participants got insights into the scientific aspects of the mission, the challenges faced, and the significant contributions made by Indian scientists and engineers</li> </ul>

### Report

The Department of Physics at Mar Thoma College for Women in Perumbavoor organized a special event in celebration of World Space Week. The event was held in association with the Breakthrough Science Society and featured a talk on Mangalyaan (Mars Orbiter Mission) by Mr. Sajeev Kumar P



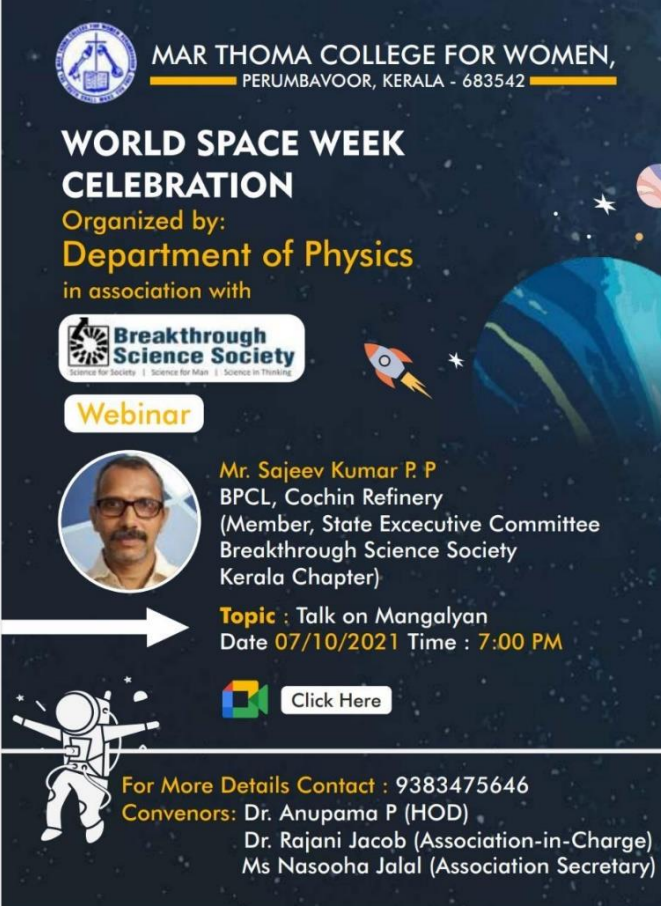


P from BPCL, Cochin Refinery. Mr. Sajeew Kumar PP is a member of the State Executive Committee of the Breakthrough Science Society's Kerala Chapter. The event took place on October 7, 2021, at 7.00 PM. The objective of the event was to educate and inspire students and participants about India's remarkable achievement in space exploration and its successful Mars mission, Mangalyaan. The talk aimed to provide insights into the scientific aspects of the mission, the challenges faced, and the significant contributions made by Indian scientists and engineers.

Mr. Sajeew Kumar P P began his talk by introducing the audience to the Mars Orbiter Mission, also known as Mangalyaan. He discussed the historical background of the mission and the motivation behind India's endeavor to explore the Red Planet. He explained the scientific goals of the mission, which included studying the Martian atmosphere, surface features, and the presence of water or methane. During the talk, Mr. Sajeew Kumar PP highlighted the technical aspects and challenges faced during the mission. He elaborated on the spacecraft's design, propulsion systems, and the intricate trajectory calculations required for a successful journey to Mars. He also emphasized the importance of teamwork, collaboration, and precision in executing such a complex mission.

The resource person captivated the audience with fascinating anecdotes about the mission's development, including the critical moments during the spacecraft's insertion into the Martian orbit. He shared inspiring stories of the scientists and engineers involved in the project, their dedication, and the pride they felt when Mangalyaan successfully entered Mars' orbit, making India the first Asian country to achieve this feat. The talk concluded with a question-and-answer session, where the audience had the opportunity to clarify their doubts and seek further insights from the resource person. The participants actively engaged in discussions, asking questions about the future of Mars exploration, potential applications of the mission's findings, and the role of space science in India's technological advancements.

The event was a resounding success, providing a platform for students and enthusiasts to learn and appreciate India's contributions to space exploration. The talk on Mangalyaan by Mr. Sajeed Kumar P P was both informative and inspiring, instilling a sense of curiosity and wonder among the attendees. The Department of Physics at Mar Thoma College for Women, along with the Breakthrough Science Society, deserves appreciation for organizing such an enlightening event. The World Space Week celebration not only celebrated the achievements of Mangalyaan but also promoted scientific awareness and curiosity among the participants.




**MAR THOMA COLLEGE FOR WOMEN,**  
PERUMBAVOOR, KERALA - 683542

**WORLD SPACE WEEK  
CELEBRATION**


Organized by:  
**Department of Physics**  
in association with

**Breakthrough  
Science Society**  
Science for Society | Science for Man | Science in Thinking

**Webinar**

 **Mr. Sajeew Kumar P. P.**  
BPCL, Cochin Refinery  
(Member, State Executive Committee  
Breakthrough Science Society  
Kerala Chapter)

**Topic :** Talk on Mangalyan  
**Date** 07/10/2021 **Time :** 7:00 PM

 [Click Here](#)

**For More Details Contact : 9383475646**  
**Convenors:** Dr. Anupama P (HOD)  
Dr. Rajani Jacob (Association-in-Charge)  
Ms Nasooha Jalal (Association Secretary)

**Figure 6: Brochure of the Programme**



**Figure 2: Screen Shot of the Programme**

## List of Participants

Sl. No	Name of the student
1	Linta Jose
2	Aneeja George
3	Arya Sivan
4	AnnMariya Philip
5	Aksa Jose
6	Arsha S Kumar
7	Jinu John
8	Jeny Rose Job
9	Varsha M Vijay
10	Haseena
11	Devika
12	Kishnendu
13	Anjana Ajith
14	Niya Merrin Mathew
15	Dona Mariam Roy
16	Prasthutha Pavithran
17	Binitha Baby
18	Anitha Thomas
19	Namitha K B
20	Alfina Jabbar
21	Karthika Das
22	Sulfath T S
23	Annmaria Jose
24	Soofiya Sudheer
25	Smija Reji
26	Fasna T Moosa
27	Aslamia K S
28	Sara Abey
29	Anagha Joy
30	Ahasana A Razak
31	Shifana C N
32	Najwa K A
33	Anjima K P
34	Sameena Parvin
35	Anju K Rajan
36	Steji P B
37	Akhina K Sudheesh
38	Anu Paul
39	Fathima Hamsa
40	Fathima T S
41	Fathimath Saniya
42	Khadeeja M H
43	Akhilendu T Anil
44	Surya M C
45	Adhila K S

46	Revathi Rajeev
47	Syamini Sasi
48	Shahima Shahazada
49	Farisha K M
50	Treesa Maria Stanly

## The Organic Way to Health and Happiness: The Journey of a Food Blogger

<b>Title of the Programme</b>	<b>The Organic way to Health and Happiness : The Journey of a Food Blogger</b>
<b>Organizing Department</b>	<b>Commerce</b>
<b>Resource Person</b>	<b>V T Kallyani, Food Blogger</b>
<b>Date</b>	<b>10/09/2021</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Duration</b>	<b>11 a.m. to 12 p.m.</b>
<b>Number of Participants</b>	<b>100</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To educate the students about the importance of organic food</li> <li>• To learn the experiences of a food blogger</li> <li>• To develop entrepreneurial capacity</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The participants got tips on how to start their own blog and how to effectively monetize the blog</li> </ul>

### Report

The seminar titled “The organic way to Health and Happiness: The journey of a food blogger” was conducted by Dept. of Commerce. The resource person of the programme was V T Kallyani and held on 10th September 2021. The seminar was conducted via Zoom. The seminar was organized by the ED club and was attended by the Principal Dr.Sujo Mary Varghese, Head of the Department Sherin T Abraham, ED Club coordinator Serene Anna Sam and Student coordinator Fahima Rafeeqe. The seminar was aimed to educate the students about the importance of organic food and the journey of a food blogger.

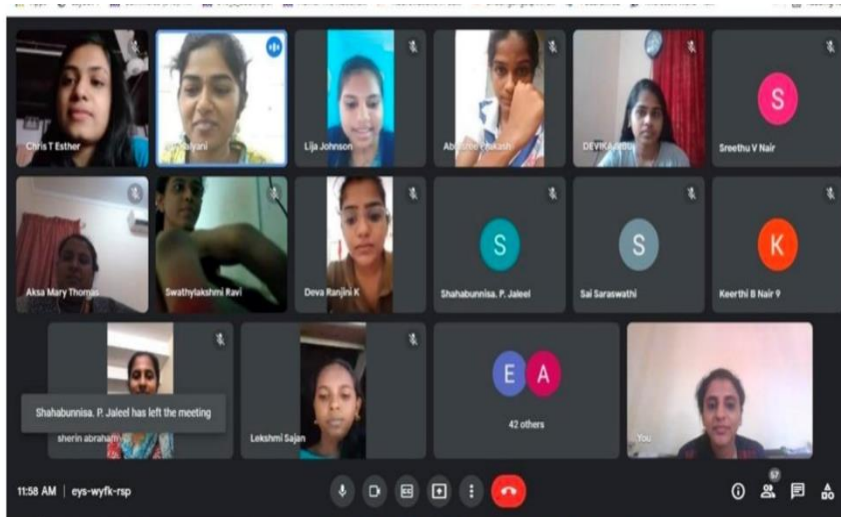




The resource person began by giving a brief introduction about organic food and its benefits. She then spoke about the different organic food products available in the market and their advantages. She also explained the journey of a food blogger and how they can monetize their blog. The resource person also answered the questions put forward by the students and gave them useful tips on how to start their own blog. The students were also encouraged to try out organic food products and follow a healthy diet. The students found the seminar to be informative and engaging. The seminar was a success and the students gained valuable knowledge about the importance of organic food and the journey of a food blogger.



**Figure 7: Seminar - Brochure**



**Figure 2: Students attending the Programme**



**Figure 3: Students attending the Programme**

## List of Participants

Sl. No	Name of the student
1	AMALA MATHEW
2	ANJU ELDHO
3	ASWATHY S
4	ATHIRA C PRAKASH
5	FEMY ANNA VARGHESE
6	GIFTY DOMANIC
7	IRFANA ISMATH K J
8	JOSEFINA JOSEPH
9	JYOTHIS EAPEN
10	KRISHNAPRIYA M R
11	NAFSIYA C B
12	RESHMA K K
13	SREELAKSHMI T A
14	WILSY MARIAM PHILIP
15	AMRITHA T S
16	ANAGHAMOL P U
17	ATHULYA BALAN
18	JOMOL JOY
19	MARIA THOMAS
20	NAYANA ASOKAN
21	ROSEMOL M SUNNY
22	SETHULAKSHMI K M
23	SHONCY SANTHOSH
24	SUMAYYA VEERAS
25	THASNEEM P S
26	AMI LIYANA U M
27	ANAKHA K P
28	ANNA PAUL
29	ANUSHA K B
30	APARNA A FRANCIS
31	ASHNA SALIM
32	DISNA XAVIER
33	EHUSANA K B
34	ELSA FRANCIS
35	FARZANA P G
36	FATHIMA M S
37	JOMOL BABU
38	NAUJATH V M
39	AMRITHA T S
40	ANAGHAMOL P U
41	ATHULYA BALAN
42	JOMOL JOY
43	MARIA THOMAS
44	NAYANA ASOKAN

45	ROSEMOL M SUNNY
46	SETHULAKSHMI K M
47	SHONCY SANTHOSH
48	SUMAYYA VEERAS
49	THASNEEM P S
50	AMI LIYANA U M
51	ANAKHA K P
52	ANNA PAUL
53	ANUSHA K B
54	APARNA A FRANCIS
55	ASHNA SALIM
56	DISNA XAVIER
57	EHUSANA K B
58	ELSA FRANCIS
59	FARZANA P G
60	FATHIMA M S
61	JOMOL BABU
62	NAUJATH V M
63	ANCY MATHEW
64	ANJANA M M
65	ANU A A
66	APARNA S KARTHA
67	ASWATHY MONEY
68	CHAITHANYA CHANDRAN
69	ELSA VARGHESE
70	FEBI MARIUM BABU
71	FOUSIYA RASHEED
72	MAYA PHILIPOSE
73	NINIYA K ELDHO
74	PRIYA BABU
75	REEMA BABY
76	RESHMA V A
77	SNEHA RADHAKRISHNAN
78	ADHEENA VARGHESE
79	AHILA HARI
80	ANAGHA V. R
81	ANAKHA JOSE
82	ANJALI VALSAN
83	ANJALY SIVADASAN
84	ANN MARY SANTY
85	ANSY SEBASTIAN
86	ASHITHA KAREEM
87	ASHNA ARAMTHURUTHIL KOYAN
88	ASNA K. A
89	ATHIRA VENUGOPAL
90	DEEPTHI RAJENDRAN
91	DONA MARIYA JOY
92	DONIYA LAIJU
93	GANALATHA
94	GREESHMA KRISHNAN

95	GREESHMA RAJAN
96	INARANI
97	JEBNA K JALEEL
98	KEERTHY RAJENDRAN
99	LINNY BENNY
100	NOEL KURIEN

## Recent Trends in Research

<b>Programme</b>	<b>Recent Trends in Research</b>
<b>Organizer</b>	<b>Physics</b>
<b>Resource Person</b>	<b>Dr. Lini Devassy, Asst. Professor, Dept. of Physics, Bharat Matha College, Thrikkakara</b>
<b>Date and Year</b>	<b>17/12/2021</b>
<b>Venue</b>	<b>PG Seminar Hall</b>
<b>Duration</b>	<b>10.00 am to 12.00 pm</b>
<b>Beneficiaries</b>	<b>45</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To get an overview of quantum computing,</li> <li>• To understand fundamental principles of quantum computing</li> <li>• To learn the potential applications of quantum computing</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• Students got understanding of the latest advancements in physics</li> </ul>

### Report

The Department of Physics organized a webinar on the topic “Recent Trends in Research” on 17th December 2021. The webinar aimed to provide insights into the latest advancements and emerging areas of research in the field of physics. Dr. Lini Devassy, an esteemed Assistant Professor from the Department of Physics at Bharat Matha College, Thrikkakara, served as the resource person for the event.

The webinar commenced at 10:00 am and lasted for two hours, concluding at 12.00 pm. It was conducted in the P. G. Seminar Hall. The session began with

an introduction by the organizing committee, highlighting the significance of staying updated with recent research trends. Dr. Lini Devassy then took over as the speaker, sharing her expertise and knowledge with the participants.

Dr. Lini Devassy discussed several cutting-edge areas of research that have gained prominence in recent years. She emphasized the significance of quantum computing, nanotechnology, and renewable energy as potential fields for future scientific breakthroughs. The resource person provided an overview of quantum computing, explaining its fundamental principles and potential applications. She discussed the advantages of quantum computing over classical computing and its potential impact on various industries. Dr. Lini Devassy highlighted the growing importance of nanotechnology in various fields, including medicine, electronics, and materials science. She explained the unique properties exhibited by materials at the nanoscale and their potential for innovation and advancement.

The speaker shed light on the latest developments in renewable energy research. She discussed advancements in solar cells, energy storage systems, and alternative sources of clean energy, emphasizing the importance of sustainable energy solutions to address global challenges. Dr. Lini shared insights into the latest methodologies and techniques employed in experimental and theoretical research. She discussed advancements in computational modeling, data analysis, and experimental setups, enabling researchers to delve deeper into complex scientific problems.

Following the presentation, a question and answer session was held, allowing participants to engage with the resource person. Attendees had the opportunity to seek clarification on specific topics discussed during the webinar. Dr. Lini Devassy provided detailed answers and encouraged participants to explore further resources and opportunities in the field.

The seminar on "Recent Trends in Research" organized by the Department of Physics was a successful event that provided valuable insights into





emerging areas of research. Dr. Lini Devassy's expertise and knowledge in the field enhanced the participants' understanding of the latest advancements in physics. The session served as a platform for academia and researchers to stay updated with the evolving trends in the scientific community, fostering a culture of innovation and collaboration.

Mar Thoma College for Women  
Perumbavoor  
Department of Physics

**ASSOCIATION INAUGURATION &  
ALUMNI LECTURE SERIES 2**

**Meet our Alumna**  
*B.Sc. Physics ( Applied Electronics )  
2002 - 2005 Batch*

**TALK ON  
RESEARCH  
METHODOLOGY**

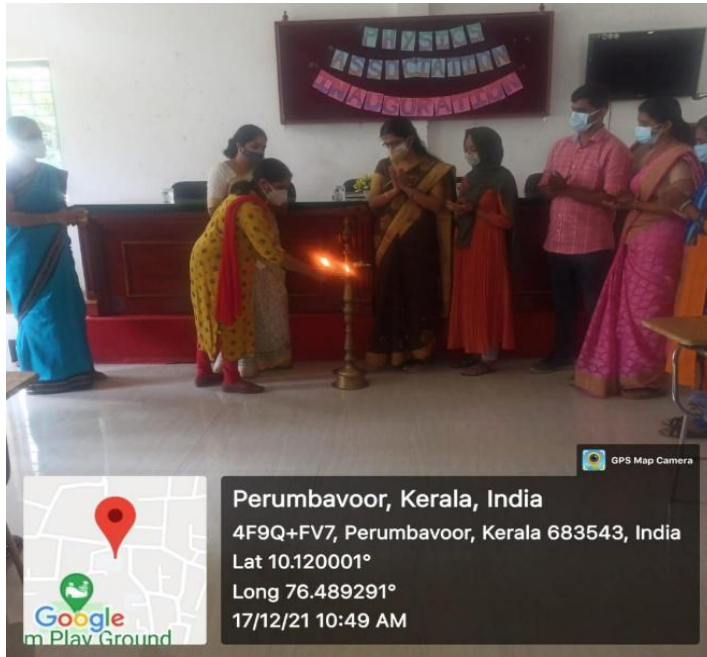
17 December 2021  
Friday  
**Time:  
10 AM**

**Dr. Lini Devassy**  
Asst. Professor, Department of Physics  
Bharat Matha College, Thrikkakara

**Nasootha Jalal**  
( Association Secretary )

**VENUE: PG Seminar Hall**

**Figure 8: Brochure of the Programme**



**Figure 2: Photograph of the Programme**

## **List of Participants**

Sl. No	Name of the student
1	Linta Jose
2	Aneeja George
3	Arya Sivan
4	AnnMariya Philip
5	Aksa Jose
6	Arsha S Kumar
7	Jinu John
8	Jeny Rose Job
9	Varsha M Vijay
10	Haseena
11	Devika
12	Kishnendu
13	Anjana Ajith
14	Niya Merrin Mathew
15	Dona Mariam Roy
16	Prasthutha Pavithran
17	Binitha Baby
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20	Alfina Jabbar
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37	Akhina K Sudheesh
38	Anu Paul
39	Fathima Hamsa
40	Fathima T S
41	Fathimath Saniya
42	Khadeeja M H
43	Akhilendu T Anil
44	Surya M C
45	Adhila K S

## Research Design

<b>Title</b>	<b>Research Design</b>
<b>Organizing Department</b>	<b>Zoology</b>
<b>Resource Person</b>	<b>Ms. Sunu N V, Assistant Professor, Mar Thoma College for Women, Perumbavoor</b>
<b>Date</b>	<b>13/08/2021- 14/08/2021</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Duration</b>	<b>2 days</b>
<b>Number of Participants</b>	<b>19</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To Understand and employing various research designs</li> <li>• To study the proper method of selecting a research area</li> <li>• To get proper understanding of statistical methods in experimental research</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• Students gained knowledge about various types of research designs and employed in their P G projects</li> </ul>

### Report

The Zoology Department conducted two day online workshop on the topic “Research Designs” on 13-14 August 2021 in which 19 students from the final year MSC, Zoology was participated. Due to Covid-19 pandemic situation, workshop was conducted through Google Meet platform. Meeting link for the workshop was given to the students through their WhatsApp group. Mrs.Sunu

N.V. (Assistant Professor, Mar Thoma College for Women, Perumbavoor) was the resource person.

The program was aimed in the enhancement of knowledge of students about various types of research designs that they can be employed in their project works. The workshop aimed at providing an overview of research designs commonly used in zoology research and guiding attendees on the selection of the most appropriate research design for their research projects. The workshop was attended by undergraduate and postgraduate students, research assistants, and faculty members.

The workshop was divided into three sessions. The first session, Ms. Sonu introduced research designs and their importance in zoology research. She highlighted the different types of research designs such as descriptive, correlational, experimental, and quasi-experimental designs. She also explained the advantages and disadvantages of each research design and the factors that influence the choice of a particular research design.

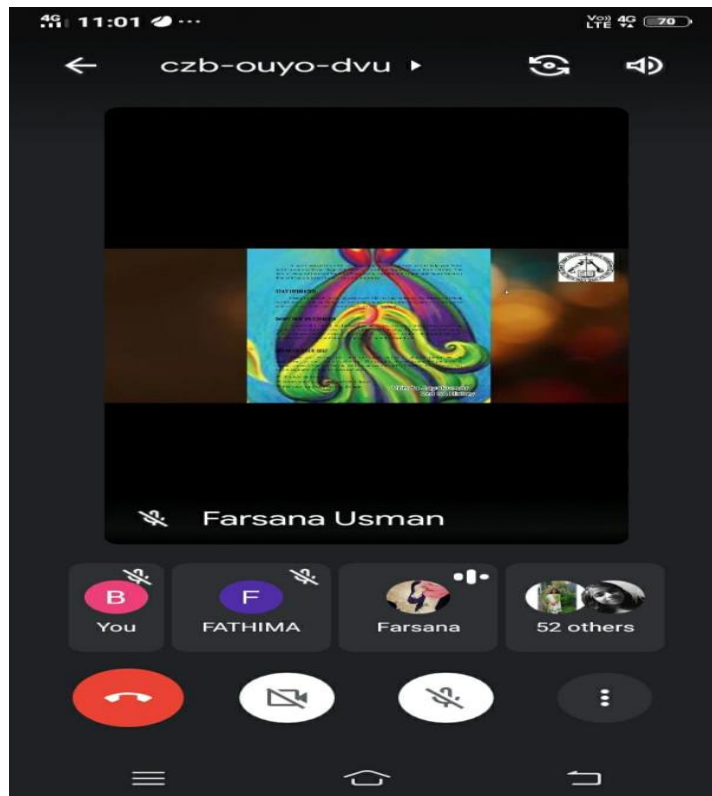
In the second session, Ms. Sonu focused on the experimental research design. She discussed the key elements of experimental research design such as random assignment, manipulation of independent variables, and the control of extraneous variables. She also highlighted the importance of selecting appropriate research subjects, ethical considerations in animal experimentation, and the use of statistical analysis in experimental research.

In the third session, she discussed about the quasi-experimental research design. She highlighted the differences between experimental and quasi-experimental research designs, the importance of selecting appropriate research subjects, and controlling extraneous variables. She also emphasized the use of statistical analysis in quasi-experimental research and discussed the strengths and limitations of quasi-experimental research designs.

The workshop on research designs was very informative and provided attendees with a good understanding of the different types of research designs commonly used in zoology research. The presentations by the three speakers were well-organized and presented in a clear and concise manner. The attendees were actively engaged in the discussions, and the questions asked were well-addressed by the speakers. Overall, the workshop was a success, and the attendees left with a better understanding of how to select appropriate research designs for their research projects.



**Figure 1: Program Brochure**



**Figure 2: Screenshot of the programme**

### **List of Participants**

<b>Sl. No</b>	<b>Name of the Student</b>
1	Amrutha Singh K
2	Aswathy Vijayan
3	Deepika Y
4	Devika Shibu
5	Divya K S
6	Farsana M J
7	Jaseera Fairroosa P
8	Jitto Joy
9	Karthika Ravi
10	Pooja Krishnan K
11	Reshma R Kurup
12	Revathy P G
13	Shalu Reju
14	Sreelakshmi S



15	Swathy Sajikumar
16	Swathy Sasi
17	Thasni P M
18	Treesa Mary Bose
19	Varsha V

## Research Ethics

<b>Title</b>	<b>Research Ethics</b>
<b>Organizing Department</b>	<b>Zoology</b>
<b>Resource Person</b>	<b>Ms. Sunu N V, Teacher in charge, MSC Zoology, Mar Thoma College for Women, Perumbavoor</b>
<b>Date and Year</b>	<b>19/06/2021</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Time</b>	<b>4 pm</b>
<b>Number of Participants</b>	<b>17</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To familiarizes students with the concept of research</li> <li>• To learn relevance of good research in academia and beyond</li> <li>• To provide overview of research methodologies and techniques</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students got through understanding of the various research methodologies and techniques</li> </ul>

### Report

A Research Oriented Webinar was conducted exclusively for the final year students of BSC Zoology on 19 June 2021. The session aimed to introduce students to the importance of research, the research process, and resources available to them. It familiarizes students with the concept of research and its

relevance in academia and beyond. It provides an overview of the various research methodologies and techniques.

Session explained the step by step research process, including topic selection, literature review, methodology, data collection, analysis and conclusion. It discussed the importance of ethical considerations in research, shared real world example to illustrate the appropriate use of each methodology. The interactive session encouraged students to ask question and participate in discussions, it addresses queries related to research, career opportunities, and further education in research oriented fields.

The students expressed an interest in pursuing research projects and collaborating with faculty members. Positive feedbacks received from participants regarding the session's organization and content.



 **MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR** 

**DEPARTMENT OF ZOOLOGY**

Organize  
A Research Orientation webinar

**RESEARCH ETHICS**

By  
***Ms. Sunu N.V.***  
*Teacher-in-charge*  
*M.Sc. Zoology*

**Date: June 19, 2021- Saturday** **Time: 4 P.M.**

 **MEETING LINK:** <https://meet.google.com/rns-pyrb-kyt>

Mrs. Fathima Farzana  
Student Coordinator

Mrs. Reemly Sara Mathai  
Head of the Department

Dr. Guja Mary Varghese  
Principal

Figure 1: Brochure of the Program

### **List of Participants**

<b>Sl. No</b>	<b>Name of the Student</b>
1	Aleena Mariya George
2	Alfiya Shaji
3	Amalendhu Rajan
4	Anjana Sajeerv
5	Ashlin Sabu
6	Fathima Farzana
7	Fathima Shaji
8	Leeshma Shaji
9	Maneesha Beegum P M
10	Mayoori M B
11	Nidhy Anna Sunny
12	Shabana Kareem
13	Fathima Kareem
14	Hindbeevi A M
15	Nabeela A A
16	Sandra P S
17	Siya Paul

## Research Methodology

<b>Programme</b>	<b>Research Methodology</b>
<b>Organizer</b>	<b>Physics</b>
<b>Resource Person</b>	<b>Dr. Anjali A.R, Research Associate, Newcastle University, UK</b>
<b>Date and Year</b>	<b>20/11/2021</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Duration</b>	<b>2.00 pm to 4.00 pm</b>
<b>Beneficiaries</b>	<b>45</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To understand significance of a well-defined research</li> <li>• To study research question, literature review</li> <li>• To equip the students to formulate a hypothesis</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• Participants gained a comprehensive understanding of the research process, from the formulation of research questions to data collection, analysis, and publication</li> </ul>

### Report

The Department of Physics organized a webinar on “Research Methodology”, featuring Dr. Anjali A. R, a Research Associate at Newcastle University, U .K . The webinar aimed to provide participants with insights into effective research methods and techniques. The webinar took place on November 20, 2021, from 2:00 pm to 4.00 pm and was conducted through the Google Meet platform. The event attracted a diverse audience comprising students, faculty members, and researchers interested in enhancing their knowledge of research methodology.

Dr. Anjali began by providing an overview of research methodology, emphasizing its importance in conducting scientific investigations. She highlighted the significance of a well defined research question, literature review, and hypothesis formulation. The resource person discussed different research designs, such as experimental, observational, and survey-based studies. Dr. Anjali explained the process of selecting an appropriate research design based on the research question and objectives. She also delved into various data collection methods, including interviews, surveys, and experiments. The webinar touched upon statistical analysis techniques commonly used in research, such as descriptive statistics, inferential statistics, and regression analysis. Dr. Anjali provided practical examples to illustrate the application of these techniques and their significance in drawing meaningful conclusions from research data.

The speaker emphasized the importance of ethical considerations in research, including informed consent, confidentiality, and responsible conduct. She discussed ethical review boards and their role in ensuring research compliance with established guidelines and principles. Dr. Anjali addressed the process of manuscript preparation, peer review, and the significance of effective communication in research. She shared tips on writing scientific papers, selecting appropriate journals, and engaging in academic collaborations.

Following the presentation, there was an interactive question and answer session. Participants had the opportunity to seek clarifications and gain further insights from Dr. Anjali A. R. The resource person responded to queries on various aspects of research methodology, providing valuable guidance and suggestions. The webinar on Research Methodology organized by the Department of Physics and featuring Dr. Anjali A. R was highly informative and beneficial. Participants gained a comprehensive understanding of the research process, from the formulation of research questions to data collection, analysis, and publication. The event successfully enhanced participants' knowledge and skills in conducting

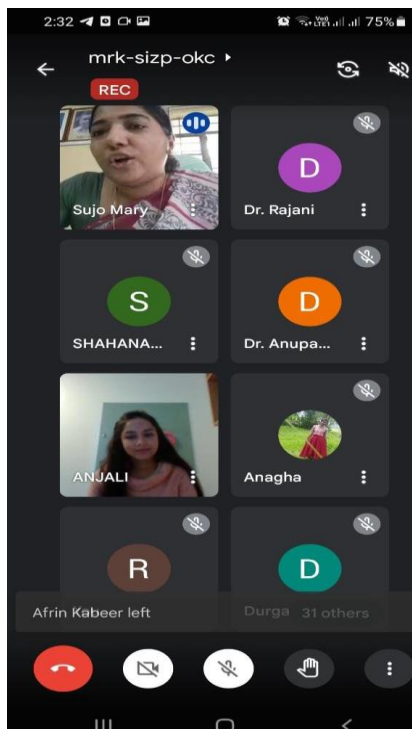


scientific investigations using robust research methodology.

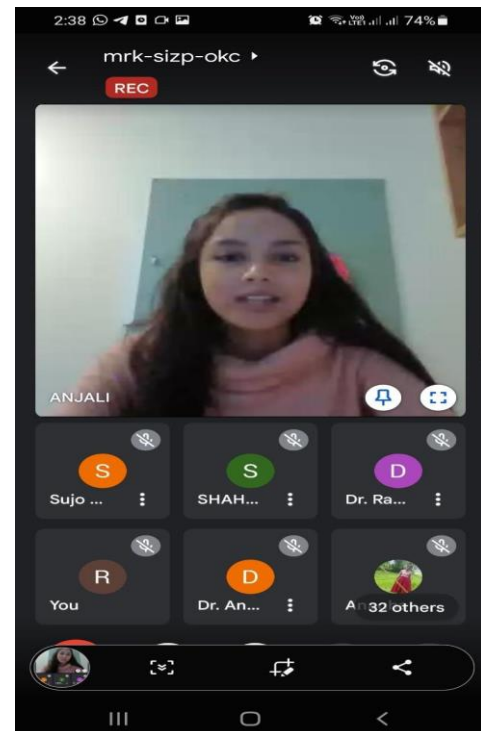
Overall, the webinar provided an excellent platform for attendees to learn from an experienced researcher and gain valuable insights into research methodology. The Department of Physics should be commended for organizing such an informative and engaging event that benefitted both students and faculty members.



Figure 9: Brochure of the Programme



**Figure 2: Screen Shot of the Programme**



**Figure 3: Screen Shot of the Programme**

### **List of Participants**

Sl. No	Name of the student
1	Linta Jose
2	Aneeja George
3	Arya Sivan
4	AnnMariya Philip
5	Aksa Jose
6	Arsha S Kumar
7	Jinu John

8	Jeny Rose Job
9	Varsha M Vijay
10	Haseena
11	Devika
12	Kishnendu
13	Anjana Ajith
14	Niya Merrin Mathew
15	Dona Mariam Roy
16	Prasthutha Pavithran
17	Binitha Baby
18	Anitha Thomas
19	Namitha K B
20	Alfina Jabbar
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30	Ahasana A Razak
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34	Sameena Parvin
35	Anju K Rajan
36	Steji P B
37	Akhina K Sudheesh
38	Anu Paul
39	Fathima Hamsa
40	Fathima T S
41	Fathimath Saniya
42	Khadeeja M H
43	Akhilendu T Anil
44	Surya M C
45	Adhila K S

## Some Open Problems in Research

<b>Title of the Programme</b>	<b>Some Open Problems in Research</b>
<b>Organizing Department</b>	<b>Mathematics</b>
<b>Resource Person</b>	<b>Dr. Gigi George, Associate Professor, Mar Thoma College, Perumbavoor</b>
<b>Date</b>	<b>2/12/2021 – 3/12/2021</b>
<b>Venue</b>	<b>Room No 114, Dept of Mathematics</b>
<b>Duration</b>	<b>Two Days.</b>
<b>Number of Participants</b>	<b>28</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To generate knowledge on analyzing large data sets</li> <li>• To provide knowledge on the various fields of mathematics including algebra, geometry etc.</li> <li>• To tackle challenges involved in research</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students were able to apply methods to solve some of the simpler open problems</li> </ul>

### Report

A two-day workshop on “Some Open Problems in Mathematics” was conducted by the Department of Mathematics on 3<sup>rd</sup> and 4<sup>th</sup> December 2017 in room no. 114 at 9.30 am. Dr. Gigi George, Associate Professor, Department of Mathematics, an expert in the field of mathematics, was the resource person for the workshop. The workshop aimed to introduce participants to some of the most challenging and intriguing unsolved problems in mathematics. Dr. Gigi



George provided an overview of several open problems in various branches of mathematics, such as number theory, algebra, geometry, and analysis. She also discussed some of the current research trends and techniques used to tackle these problems.

On the first day of the workshop, Dr. Gigi George introduced participants to famous unsolved problems such as the Riemann Hypothesis, the Birch and Swinnerton-Dyer Conjecture, and the Collatz Conjecture. She also explained the significance of these problems and their potential implications for various fields of science. The second day of the workshop focused on the mathematical techniques used to tackle open problems. Dr. Gigi George discussed the use of algebraic and topological methods in solving problems in number theory and geometry. The participants engaged in discussions and activities, applying these methods to solve some of the simpler open problems.

The workshop was well-attended by mathematics students, researchers, and faculty members. It provided an opportunity for participants to learn about some of the most significant open problems in mathematics, gain insights into the latest research trends, and interact with experts in the field. Overall, the workshop was a great success, and the participants left with a deeper appreciation of the challenges and rewards of working on open problems in mathematics.



**MAR THOMA COLLEGE FOR WOMEN,  
PERUMBAVOOR**

(Affiliated to MG university, Kottayam  
Accredited by NAAC with B+ grade)

Department of Mathematics  
Two days Workshop on  
**SOME OPEN PROBLEMS  
IN MATHEMATICS**

Resourse Person,  
Dr.Gigi George

Dates: 02/12/2021 &  
03/12/2021  
Venue: Room No. 114  
Time: 9:30AM



Dr.Gigi George  
Associate Professor,  
Department of Mathematic

Figure 10: Seminar - Brochure



## **List of Participants**

<b>Sl No</b>	<b>Name of the student</b>
1	ALFIYA K KARIM
2	AMINA N S
3	DEEPTHI RAJENDRAN
4	FARSANA P M
5	GAYATHRI AJITH
6	GREESHMA RAJAN
7	JEEVA GOPAL
8	KEERTHI RAJENDRAN
9	MIDHILA SASINDRAN
10	NAZIYA N A
11	SHIMNA C S
12	SOORYAMOL K S
13	VRINDHA P V
14	ANCY MATHEW
15	ANJANA M M
16	ANU A A
17	APARNA S KARTHA
18	ASWATHY MONEY
19	CHAITHANYA CHANDRAN
20	ELSA VARGHESE
21	FEBI MARIUM BABU
22	FOUSIYA RASHEED
23	MAYA PHILIPOSE
24	NINIYA K ELDHO
25	PRIYA BABU
26	REEMA BABY
27	RESHMA V A
28	SNEHA RADHAKRISHNAN



## Dishwash & Handwash Making

<b>Title of the Programme</b>	<b>Dishwash &amp; Handwash Making</b>
<b>Organizing Department</b>	<b>Chemistry</b>
<b>Name of the Coordinator</b>	<b>Aleesha Kabeer (Student Coordinator)</b>
<b>Resource Person</b>	<b>Ms. Aishwarya K. R, Assistant Professor, Mar Thoma College for Women, Perumbavoor</b>
<b>Date</b>	<b>29/8/2022 to 30/8/2022</b>
<b>Venue</b>	<b>Conference Hall</b>
<b>Duration</b>	<b>10.30a.m. to 12.30 p.m.</b>
<b>Number of Participants</b>	<b>57</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To familiarize students about the preparation of dish wash and hand wash</li> <li>• To provide awareness in hygiene in daily life</li> <li>• To develop entrepreneurship development skills among students</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students got awareness on the importance of hygiene products in our day to day life</li> </ul>

### Report

Department of Chemistry organized a workshop on “Dishwash and Handwash making” in the academic year 2021-2022. Our II<sup>nd</sup> and III<sup>rd</sup> year students prepared dishwash liquid and hand wash on 30<sup>th</sup> August 2022, under the guidance of Ms. Reshma Mathew. The products were distributed among the students and staff of the college. This programme gave a platform for students to understand the process of preparation and packing of dish wash and



hand wash. They became aware of the materials used for its preparation. The workshop also provided awareness on the importance of these hygiene products in our day to day life.

This programme helped the students to familiarize the method of preparing dish wash and hand wash as their own. Thus they were able to make homemade hygiene products in a cheaper way. It also helps them to develop entrepreneur skills. All the students actively participated in the preparation and selling of the products.

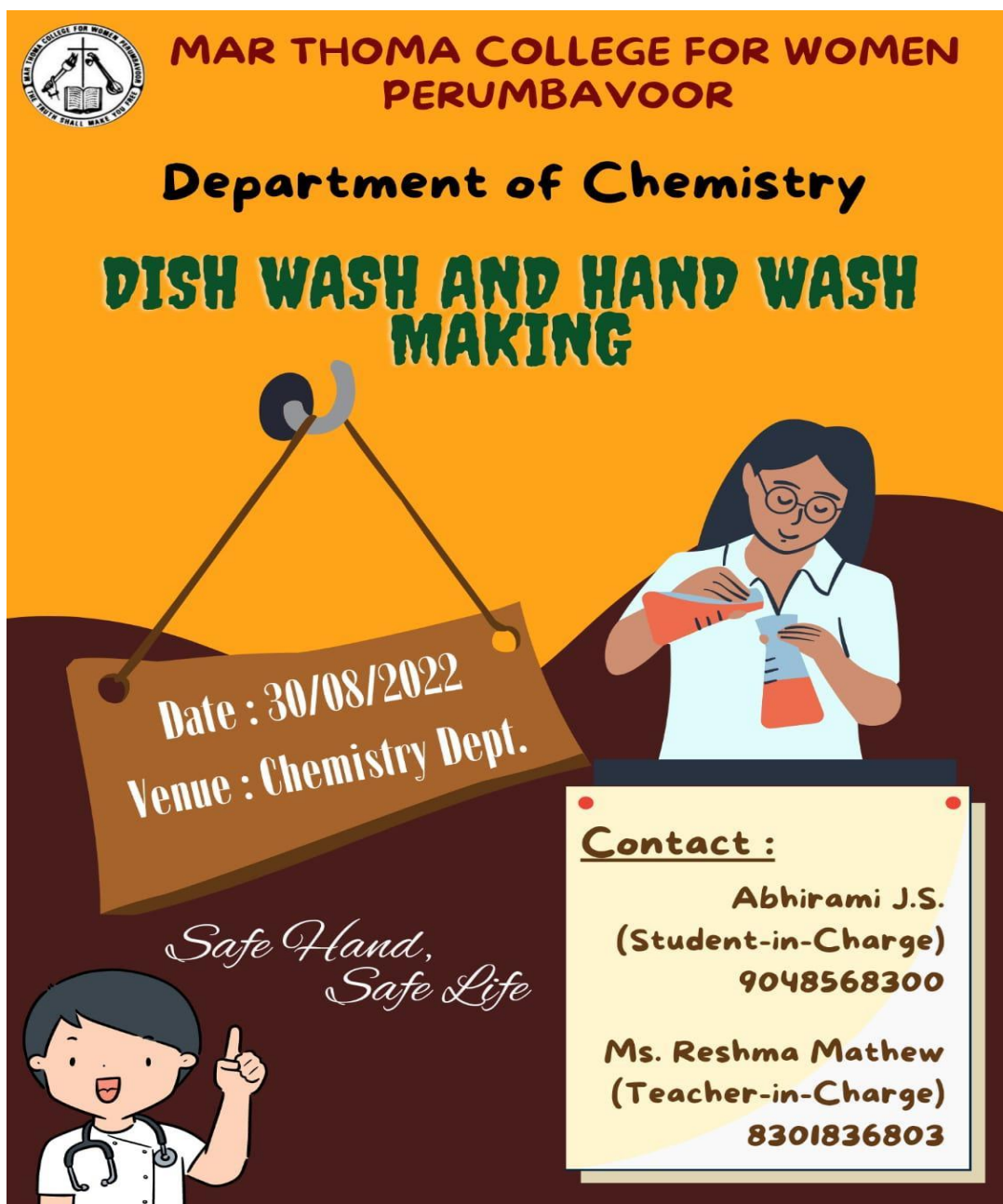


Figure 11: Brochure of the programme



**Figure 2: Students attending the Programme**



**Figure 3: Students attending the Programme**

## **List of Participants**

<b>Sl. No</b>	<b>Name of the student</b>
1	ABHIRAMI J S
2	ALIFNA K B
3	ANAGHA JOY
4	ANVIYA MARIAM BOBBY
5	ASNA P A
6	CHIPPY K S
7	FATHIMA MUNAJ
8	LINAMOL C K
9	MEERA BABU
10	PREETHIKA PRAKASH
11	ABEENA M M
12	ABHIMA SUBASH
13	AISHA DILEEP
14	AMEENA E A
15	AMINA K K
16	AMINA P M
17	AMIYA SUBAIR
18	AMMU PRAKASH
19	ANAGHA ASOKAN
20	ASHNA K H
21	CHRISTY ANNA VARGHESE
22	FATHIMA ALIYAR
23	FATHIMA K A
24	GADHA G KARTHA
25	GAYATHRY K G
26	JESEENA MOL C M
27	NANDANA M NAIR
28	SANDRA P NAIR
29	SANIJA SIVAN
30	SIFNA C S
31	SREESHMA RAJEEV
32	UMMU HABEEBA E A

33	VAISHNAVI K R
34	ALEENA RAJU
35	ANJANA K R
36	FARSANA SULTHANA T A
37	FATIMA K H
38	FAZIYA E M
39	KRISHNAPRIYA K M
40	LAKSHMI SASIDHARAN
41	NATHA NASRIN T S
42	SAFNA NOUSHAD
43	SRUTHI SURESH
44	U MEENAKSHI PANICKER
45	AATHIRA BHARATH C A
46	AMMU SUNIL
47	AMRIN AZEEZ
48	ANASWARA E S
49	ARYA VINOD
50	ATHULYA VINOD
51	BLESSY M B
52	DEVOOTTY N S
53	KRISHNENDHU K G
54	NANDANA RAVI
55	SEETHAL K SASI
56	SHAHANA P S
57	UNNIMAYA P M

## Entrepreneurship Skills, Attitude and Behaviour Development

<b>Title of the Programme</b>	<b>Entrepreneurship skills, Attitude and Behavioural Development</b>
<b>Organizing Department</b>	<b>Commerce (Computer Application)</b>
<b>Resource Person</b>	<b>Ms. Shimi A K, Assistant Professor, Dept. of Commerce, St Kuriakose College of Management and Science, Kuruppampady</b>
<b>Date</b>	<b>27/2/2022</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Duration</b>	<b>5 p.m. to 7 p.m.</b>
<b>Number of Participants</b>	<b>111</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To generate understanding of the essential skills and attitudes needed to become a successful entrepreneur</li> <li>• To gain experience from an experienced entrepreneur in this field</li> <li>• To provide sufficient knowledge to start and run a business</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students got the essential entrepreneurship skills, attitudes, and behaviours necessary to succeed in today's competitive business world</li> </ul>



## **Report**

A workshop on “Entrepreneurship Skills, Attitude and Behaviour Development” was conducted by the Department of Commerce (Computer Application) in collaboration with Institution's Innovation Council (IIC) & Innovation and Entrepreneurship Development Centre (IEDC) on 27 Feb 2022 at 5pm. Ms. Shimi A. K, Asst. Professor, Department of Commerce, St. Kuriakose College of Management and science, Kuruppampady, was the resource person. Entrepreneurship is the process of starting and managing a business venture in order to make a profit. Developing the necessary skills, attitude, and behaviour is crucial for success in this field. Some important entrepreneurship skills include creativity, critical thinking, problem-solving, communication, and leadership. Attitude and behaviour development involve traits such as perseverance, resilience, risk-taking, adaptability, and self-confidence.

There are various ways to develop entrepreneurship skills, attitude, and behaviour. One approach is to pursue education and training programs that focus on entrepreneurship. These programs can provide individuals with the necessary knowledge and skills to start and run a business. Another approach is to gain experience by working in the industry and learning from successful entrepreneurs. Networking with other entrepreneurs and seeking mentorship from experienced business leaders can also be helpful in developing entrepreneurship skills, attitude, and behaviour.

In summary, developing entrepreneurship skills, attitude, and behaviour is essential for success in the business world. With the right mindset, training, and experience, individuals can become successful entrepreneurs and contribute to the growth of the economy. The workshop was well-attended by commerce students, researchers, and faculty members. Overall, the workshop was a great success, and

the participants left with deeper insights about entrepreneurship skills, attitude and behaviour developments.



MAR THOMA COLLEGE FOR WOMEN  
Perumbavoor, Ernakulam, Kerala.  
Affiliated to MG University & Accredited "B+" by NAAC



INNOVATION AND  
ENTREPRENEURSHIP  
DEVELOPMENT CENTRE

**Department of Commerce ( Computer Application)**  
**Institution's Innovation Council (IIC) &**  
**Innovation and Entrepreneurship Development Centre (IEDC)**

27 Feb 2022

5 PM

**Workshop on  
Entrepreneurship Skill,  
Attitude and Behaviour  
Development**

**Resource Person**



**Ms. Shimi A.K**

Asst. Professor, Department of  
Commerce, St.Kuriakose College of  
Management and Science, Kuruppampady



**Student Co-ordinators:**

Aysha Beevi , III B.Com (CA)  
Sarika Suresh, II B.com (CA)

Figure 12: Seminar - Brochure

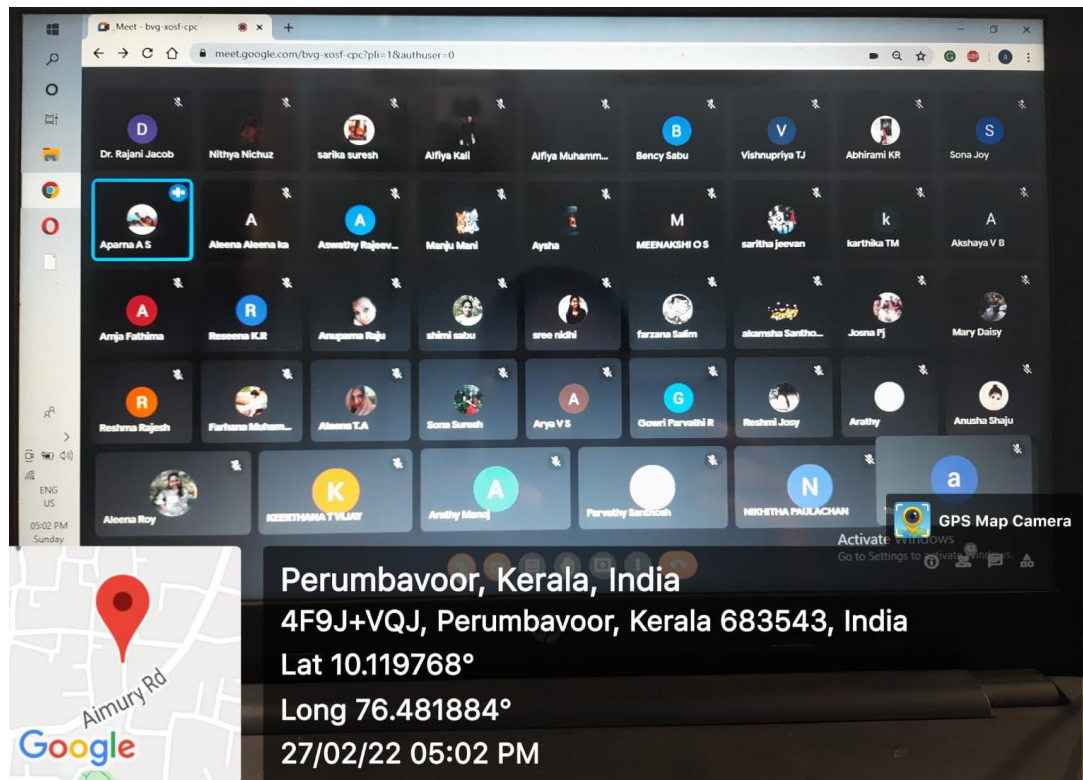


Figure 2: Students attending the Programme

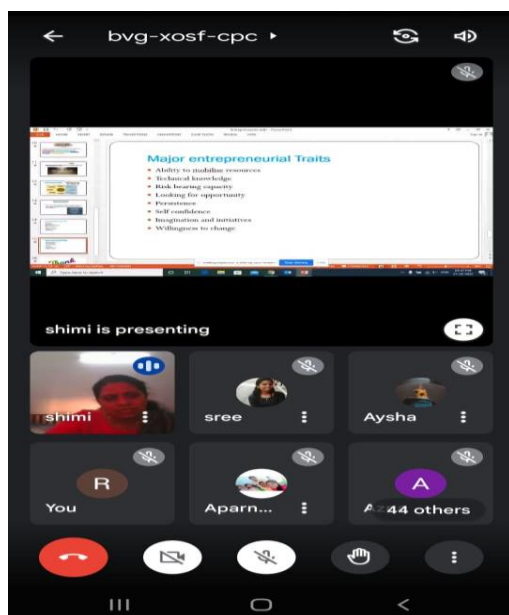


Figure 3: Screenshot of the Programme

### List of Participants

Sl. No	Name of the student
1	AMALA MATHEW
2	ANJU ELDHO
3	ASWATHY S
4	ATHIRA C PRAKASH
5	FEMY ANNA VARGHESE
6	GIFTY DOMANIC
7	IRFANA ISMATH K J
8	JOSEFINA JOSEPH
9	JYOTHIS EAPEN
10	KRISHNAPRIYA M R
11	NAFSIYA C B
12	RESHMA K K
13	SREELAKSHMI T A
14	WILSY MARIAM PHILIP
15	AMRITHA T S
16	ANAGHAMOL P U
17	ATHULYA BALAN
18	JOMOL JOY
19	MARIA THOMAS
20	NAYANA ASOKAN
21	ROSEMOL M SUNNY
22	SETHULAKSHMI K M
23	SHONCY SANTHOSH
24	SUMAYYA VEERAS
25	THASNEEM P S
26	AMI LIYANA U M
27	ANAKHA K P
28	ANNA PAUL
29	ANUSHA K B
30	APARNA A FRANCIS
31	ASHNA SALIM
32	DISNA XAVIER
33	EHUSANA K B
34	ELSA FRANCIS
35	FARZANA P G
36	FATHIMA M S
37	JOMOL BABU
38	NAUJATH V M
39	AMRITHA T S
40	ANAGHAMOL P U
41	ATHULYA BALAN
42	JOMOL JOY
43	MARIA THOMAS
44	NAYANA ASOKAN

45	ROSEMOL M SUNNY
46	SETHULAKSHMI K M
47	SHONCY SANTHOSH
48	SUMAYYA VEERAS
49	THASNEEM P S
50	AMI LIYANA U M
51	ANAKHA K P
52	ANNA PAUL
53	ANUSHA K B
54	APARNA A FRANCIS
55	ASHNA SALIM
56	DISNA XAVIER
57	EHUSANA K B
58	ELSA FRANCIS
59	FARZANA P G
60	FATHIMA M S
61	JOMOL BABU
62	NAUJATH V M
63	ANCY MATHEW
64	ANJANA M M
65	ANU A A
66	APARNA S KARTHA
67	ASWATHY MONEY
68	CHAITHANYA CHANDRAN
69	ELSA VARGHESE
70	FEBI MARIUM BABU
71	FOUSIYA RASHEED
72	MAYA PHILIPOSE
73	NINIYA K ELDHO
74	PRIYA BABU
75	REEMA BABY
76	RESHMA V A
77	SNEHA RADHAKRISHNAN
78	ADHEENA VARGHESE
79	AHILA HARI
80	ANAGHA V. R
81	ANAKHA JOSE
82	ANJALI VALSAN
83	ANJALY SIVADASAN
84	ANN MARY SANTY
85	ANSY SEBASTIAN
86	ASHITHA KAREEM
87	ASHNA ARAMTHURUTHIL KOYAN
88	ASNA K. A
89	ATHIRA VENUGOPAL
90	DEEPTHI RAJENDRAN
91	DONA MARIYA JOY
92	DONIYA LAIJU
93	GANALATHA
94	GREESHMA KRISHNAN

95	GREESHMA RAJAN
96	INARANI
97	JEBNA K JALEEL
98	KEERTHY RAJENDRAN
99	LINNY BENNY
100	NOEL KURIEN
101	PARVATHY V.G
102	PRAVEENA P.S
103	RAHMATH T.A
104	RAMLATH C.P
105	RAMSEENA P.A
106	RUSHDA V.A
107	SHAHANA C.K
108	SOYA JOY
109	SREELAKSHMI T.R
110	SUSAN VARGHESE
111	THAFCIYAMOL T.A

## Entrepreneurship Development Workshop





<b>Title of the Programme</b>	<b>Entrepreneurship Development Workshop</b>
<b>Organizing Department</b>	<b>Commerce (Finance and Taxation)</b>
<b>Name of the Coordinator</b>	<b>Aysha Bheevi (Student Coordinator)</b>
<b>Resource Person</b>	<b>Serene Anna Sam, Assistant Professor, Mar Thoma College for Women Perumbavoor</b>
<b>Date</b>	<b>25/02/2022</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Duration</b>	<b>11 a.m to 12 p.m</b>
<b>Number of Participants</b>	<b>110</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To learn the various aspects of entrepreneurship such as starting a business, marketing, finance, etc.</li> <li>• To familiarize various opportunities available in this field</li> <li>• To aware the students entrepreneur risks in the business</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students were highly motivated and inspired to pursue their entrepreneurial dreams</li> </ul>

## **Report**

The one-day entrepreneurship development workshop in association with Gandhi Smarak Grama Seva Kendram was held on 25th February 2022. The workshop started with the welcome address by the Head of the





Department, Sherin T Abraham, who gave a brief overview of the workshop. She also presented an overview of the objectives and activities planned for the day. The session was then addressed by the Principal, Dr Sujo Mary Varghese, who highlighted the importance of entrepreneurship and provided an insight into the various opportunities available in the area of entrepreneurship.

The workshop was then taken over by the ED Club Coordinator, Mrs Serene Anna Sam, who presented the various aspects of entrepreneurship such as starting a business, marketing, finance, etc. She also gave a brief overview of the Entrepreneurial Development Programmes available in the college. The programme was followed by a presentation by the student coordinator, Niranjana B, who spoke about the various challenges faced by entrepreneurs and the importance of proper planning and execution.

The day concluded with a quiz session, wherein the participants were asked to answer questions related to the topics discussed during the workshop. The winner was awarded a certificate of appreciation. The workshop was a great success and the participants were highly motivated and inspired to pursue their entrepreneurial dreams. The feedback from the participants was highly positive and they felt that it was a very enriching experience.



**MAR THOMA COLLEGE FOR WOMEN**  
**PERUMBAVOOR**

Department of Commerce  
B.com Finance &  
Taxation  
& IQAC

In association with

**GANDHI SMARAK GRAMA  
SEVA KENDRAM**

**ENTREPRENEURSHIP  
DEVELOPMENT WORKSHOP**

Date:  
25th Feb  
2022

Venue :  
College  
Auditorium

DR. SUJO MARY VARGHESE  
PRINCIPAL

MS. SHERIN T ABRAHAM  
HEAD OF THE DEPARTMENT

Figure 13: Seminar - Brochure

## List of Participants

Sl. No	Name of the student
1	AMALA MATHEW
2	ANJU ELDHO
3	ASWATHY S
4	ATHIRA C PRAKASH
5	FEMY ANNA VARGHESE
6	GIFTY DOMANIC
7	IRFANA ISMATH K J
8	JOSEFINA JOSEPH
9	JYOTHIS EAPEN
10	KRISHNAPRIYA M R
11	NAFSIYA C B
12	RESHMA K K
13	SREELAKSHMI T A
14	WILSY MARIAM PHILIP
15	AMRITHA T S
16	ANAGHAMOL P U
17	ATHULYA BALAN
18	JOMOL JOY
19	MARIA THOMAS
20	NAYANA ASOKAN
21	ROSEMOL M SUNNY
22	SETHULAKSHMI K M
23	SHONCY SANTHOSH
24	SUMAYYA VEERAS
25	THASNEEM P S
26	AMI LIYANA U M
27	ANAKHA K P
28	ANNA PAUL
29	ANUSHA K B
30	APARNA A FRANCIS
31	ASHNA SALIM
32	DISNA XAVIER
33	EHUSANA K B
34	ELSA FRANCIS
35	FARZANA P G
36	FATHIMA M S
37	JOMOL BABU
38	NAUJATH V M
39	AMRITHA T S
40	ANAGHAMOL P U
41	ATHULYA BALAN
42	JOMOL JOY
43	MARIA THOMAS
44	NAYANA ASOKAN

45	ROSEMOL M SUNNY
46	SETHULAKSHMI K M
47	SHONCY SANTHOSH
48	SUMAYYA VEERAS
49	THASNEEM P S
50	AMI LIYANA U M
51	ANAKHA K P
52	ANNA PAUL
53	ANUSHA K B
54	APARNA A FRANCIS
55	ASHNA SALIM
56	DISNA XAVIER
57	EHUSANA K B
58	ELSA FRANCIS
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60	FATHIMA M S
61	JOMOL BABU
62	NAUJATH V M
63	ANCY MATHEW
64	ANJANA M M
65	ANU A A
66	APARNA S KARTHA
67	ASWATHY MONEY
68	CHAITHANYA CHANDRAN
69	ELSA VARGHESE
70	FEBI MARIUM BABU
71	FOUSIYA RASHEED
72	MAYA PHILIPOSE
73	NINIYA K ELDHO
74	PRIYA BABU
75	REEMA BABY
76	RESHMA V A
77	SNEHA RADHAKRISHNAN
78	ADHEENA VARGHESE
79	AHILA HARI
80	ANAGHA V. R
81	ANAKHA JOSE
82	ANJALI VALSAN
83	ANJALY SIVADASAN
84	ANN MARY SANTY
85	ANSY SEBASTIAN
86	ASHITHA KAREEM
87	ASHNA ARAMTHURUTHIL KOYAN
88	ASNA K. A
89	ATHIRA VENUGOPAL
90	DEEPTHI RAJENDRAN
91	DONA MARIYA JOY
92	DONIYA LAIJU
93	GANALATHA
94	GREESHMA KRISHNAN

95	GREESHMA RAJAN
96	INARANI
97	JEBNA K JALEEL
98	KEERTHY RAJENDRAN
99	LINNY BENNY
100	NOEL KURIEN
101	PARVATHY V.G
102	PRAVEENA P.S
103	RAHMATH T.A
104	RAMLATH C.P
105	RAMSEENA P.A
106	RUSHDA V.A
107	SHAHANA C.K
108	SOYA JOY
109	SREELAKSHMI T.R
110	SUSAN VARGHESE

## Plasma & Its Applications and Nuclear Fusion

<b>Programme</b>	<b>Plasma &amp; Its Applications And Nuclear Fusion</b>
<b>Organizer</b>	<b>Physics</b>
<b>Resource Person</b>	<b>Dr. Ravi A Kumar, Scientific Officer ,Institute for Plasma Research</b>
<b>Date and Year</b>	<b>26/5/2022</b>
<b>Platform</b>	<b>Google Meet</b>
<b>Duration</b>	<b>2.00 pm to 4.00 pm</b>
<b>Beneficiaries</b>	<b>40</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To understand the principles of nuclear fusion</li> <li>• To learn its potential as a clean and sustainable energy source</li> <li>• To study the challenges involved in achieving controlled fusion reactions</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students learned about plasma and its applications, as well as nuclear fusion research</li> </ul>

### Report

A virtual field visit to the Institute for Plasma Research (IPR) in Gandhinagar, Gujarat, was conducted on 26th and 27th May 2022. The visit included a webinar on "Plasma & Its Applications and Nuclear Fusion" organized by Dr. Sujo Mary Varghese, Dr. Anupama P, and Dr. Rajani Jacob from Mar



Thoma College for Women, Perumbavoor. The resource persons for the webinar were Dr. Ravi A.V. Kumar, Scientific Officer H at IPR, and Ms. Chhaya Chavda. The sessions were held on Google Meet platform.

The first session of the webinar began promptly at 2:00 PM. Dr. Ravi A.V. Kumar started the session by providing an overview of plasma and its applications. He explained the fundamental concepts of plasma, its properties, and its relevance in various fields of science and technology. The session covered topics such as plasma physics, plasma confinement, and plasma diagnostics. Dr. Ravi A.V. Kumar's presentation was informative and engaging. He shared his expertise in the field and answered questions from the participants. The session concluded at 4:00 PM.

The second session of the webinar focused on nuclear fusion, a prominent area of research at the Institute for Plasma Research. Dr. Ravi A.V. Kumar continued his presentation by discussing the principles of nuclear fusion, its potential as a clean and sustainable energy source, and the challenges involved in achieving controlled fusion reactions.

The session also highlighted the research projects and facilities at IPR related to nuclear fusion. Ms. Chhaya Chavda, another resource person, shared her experiences working in the field of plasma and nuclear fusion. The participants actively engaged in the session, asking questions and seeking clarifications on various aspects of plasma and nuclear fusion. Dr. Ravi A.V. Kumar and Ms. Chhaya Chavda responded to the queries and provided valuable insights.

The virtual field visit to the Institute for Plasma Research, Gandhinagar, Gujarat, provided an excellent opportunity for participants to learn about plasma and its applications, as well as nuclear fusion research. Dr. Ravi A.V. Kumar and Ms. Chhaya Chavda, the resource persons, shared their expertise and knowledge, making the sessions informative and engaging. The webinar successfully fulfilled its objective of promoting awareness and understanding of plasma



physics and nuclear fusion among the participants. The organizers from Mar Thoma College for Women, Perumbavoor, deserve appreciation for arranging this virtual field visit and facilitating the interaction between the participants and the experts.

Overall, the virtual field visit to the Institute for Plasma Research was a valuable learning experience, leaving the participants with a deeper understanding of plasma and its applications, and the challenges and potential of nuclear fusion as a clean energy source.





प्लाज्मा अनुसंधान संस्थान  
Institute for Plasma Research



आज़ादी का  
अमृत महोत्सव



TECHNOLOGIES FOR  
NEW INDIA@75  
अभ्युदय का अमृत महोत्सव



Azadi Ka  
Amrit Mahotsav

## Virtual Field Visit to Institute for Plasma Research Gandhinagar, Gujarat

Webinar on:  
*"Plasma & Its Applications and Nuclear Fusion"*

Session 1 : 26 May 2022  
2:00 pm - 4:00 pm

Session 2 : 27 May 2022  
2:00 pm - 4:00 pm

Platform:



Google Meet



**26 & 27 MAY 2022**  
**2:00 PM - 4:00 PM**

Organising Committee:

<p>Dr. Ravi A.V.Kumar Scientific Officer H, IPR</p> <p>Ms.Chhaya Chavda Outreach Division, IPR Gujarat</p>	<p>Dr.Sujo Mary Varghese, Principal</p> <p>Dr.Anupama P</p> <p>Dr. Rajani Jacob</p> <p>Dr. Paulose Thomas</p> <p>Dr.Melvi Chandy (Dept.of Physics, MTCW)</p>
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**MAR THOMA COLLEGE FOR WOMEN**  
Perumbavoor, Ernakulam, Kerala.  
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Figure 14: Brochure of the Programme

## List of Participants

Sl. No	Name of the student
1	Revathi Rajeev
2	Syamini Sasi
3	Shahima Shahazada
4	Farisha K M
5	Alfiya Kareem
6	Najiya A A
7	Nandana Jayan
8	Nasoooha Jalal
9	Ramseena Shameer
10	Sana Sayed
11	Shahanas T S
12	Aiswarya Ramesh
13	Ameena M K

14	Ansila Anas
15	Daya Das P K
16	Nithuna Rajan
17	Treesa Maria Stanly
18	Akhina K Sudheesh
19	Anu Paul
20	Fathima Hamsa
21	Fathima T S
22	Fathimath Saniya
23	Khadeeja M H
24	Akhilendu T Anil
25	Surya M C
26	Adhila K S
27	Afrin M K
28	Anna Davis
29	Farzana Ashraf
30	Durga Gopan
31	Fathima Shiril
32	Akhina K Sudheesh
33	Anitha Thomas
34	Namitha K B
35	Alfina Jabbar
36	Karthika Das
37	Sulfath T S
38	Annmaria Jose
39	Soofiya Sudheer
40	Smija Reji

## Research Methodologies, Data Collection and Analysis and Literature Review

<b>Title</b>	<b>Research Methodologies, Data Collection and Analysis and Literature Review</b>
<b>Organizing Department</b>	<b>Zoology</b>
<b>Resource Person</b>	<b>Ms. Athira M, Assistant Professor, Mar Thoma College for Women, Perumbavoor</b>
<b>Date</b>	<b>08/07/2022- 09/07/2022</b>
<b>Venue</b>	<b>MSC Laboratory</b>
<b>Duration</b>	<b>Two days</b>
<b>Number of Participants</b>	<b>18</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To understand the basic process of research</li> <li>• To study the significance of data analysis</li> <li>• To gain knowledge on review of literature</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• Students gained knowledge about the steps and rules involved in research and understand the methods of data analysis and also employed these in their projects.</li> </ul>

## **Report**

Department of Zoology conducted two day workshop on the topic “Research Methodologies, Data Collection and Literature Review” on 08-09 July 2022 in the MSc, Zoology lab in which 18 students from the final year M. S. C, Zoology was participated. Ms. Athira M. (Assistant Professor, Mar Thoma College for Women, Perumbavoor) was the resource person. The first session deals with various methods in research process and the effective ways of literature review. The second day of the workshop focus on teaching students about the importance of data collection in research and introducing various tools for the analysis of collected data.

The program was aimed to teach students about the basic steps in the research process. It also aimed in the enhancement of knowledge of students about the importance of data collection and its analysis. In the field of zoology, there are various research methodologies that can be used to investigate various aspects of animal life, behaviour, and ecology. Some of the commonly used research methodologies include: Observational studies, Experimental studies, Laboratory studies.

**Literature Review:** In zoology research, literature reviews are important for identifying knowledge gaps, understanding the current state of knowledge, and developing research questions. Literature reviews involve reviewing published research studies, books, and other sources of information on the topic of interest. The following are some key steps involved in conducting a literature review: Identify the research question: Before conducting a literature review, it is important to identify the research question that needs to be answered.

**Search for relevant literature:** Researchers use various databases and search engines to identify relevant literature on the topic of interest. **Evaluate the quality of the literature:** Researchers critically evaluate the quality of the literature to determine its relevance, reliability, and validity. **Synthesize the**



findings: Researchers synthesize the findings from the literature to identify knowledge gaps and develop research questions.



**Figure 1: Program Brochure**



**Figure 2: Photo of the programme**

### **List of Participants**

Sl. No	Name of the Student
1	Aiswarya Sunil
2	Aleema Pareekunju
3	Amina P M
4	Anakha Murali
5	Anitta Jose
6	Aswathy Sudhakaran
7	Avani M
8	Bincy Joy
9	Divya Dinesh
10	Gopika Vijayan
11	Greeshma Rajikumar
12	Khadeeja Salah
13	Krichnapriya Babu
14	Preetham Madhavan

15	Rohini P Mukundan
16	Sruthymol A S
17	Surya Sasi
18	Susmi George



## Women Empowerment Through Entrepreneurship

<b>Title of the Programme</b>	<b>Women Empowerment through Entrepreneurship</b>
<b>Organizing Department</b>	<b>Commerce (Finance and Taxation)</b>
<b>Resource Person</b>	<b>Ms. Roopa George, Managing Partner, Baby Marine Engineering, Tokyo and Entrepreneur and Motivation Speaker</b>
<b>Date</b>	<b>15/02/2022</b>
<b>Platform</b>	<b>Zoom</b>
<b>Duration</b>	<b>3.30 pm to 5.00 pm</b>
<b>Number of Participants</b>	<b>100</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To study the importance of entrepreneurship in women empowerment</li> <li>• To develop entrepreneur skill among the students</li> <li>• To aware the students with self employment opportunities</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The students attained understanding of women entrepreneurs, the role of government in supporting women entrepreneurs and the strategies to overcome the challenges</li> </ul>

### Report

The Entrepreneurial talk series chapter 2 was conducted on 15th February 2022 at 3.30 pm through Zoom. The resource person was Ms Roopa George, an entrepreneur and a motivational speaker. The event was organized by the ED Club of our college. The session began with the welcome address by the Principal Dr. Sujo Mary Varghese. She emphasized on the importance of women empowerment and the need for more women entrepreneurs in India. She also appreciated the efforts taken by ED Club for organizing this talk series.

The talk was a great success as it was filled with inspiring stories and experiences shared by Ms. Roopa George. She highlighted the importance of entrepreneurship in women empowerment. She also encouraged the students to think outside the box, take risks and work hard to achieve their dreams.

The session ended with a question and answer session. The students asked various questions regarding the challenges faced by women entrepreneurs, the role of government in supporting women entrepreneurs and the strategies to overcome the challenges. Ms. Roopa George answered all the questions satisfactorily and inspired the students to pursue their dreams without any fear. The session was highly informative and motivating. The event concluded with a vote of thanks from the Head of the Department, Sherin T Abraham, and ED Club Coordinator, Serene Anna Sam. The event was successful and the students gained a lot of knowledge and motivation from it.



**MAR THOMA COLLEGE FOR WOMEN**

Perumbavoor, Ernakulam, Kerala

Affiliated to MG University and Reaccredited "B+" by NAAC



## **ENTREPRENEURSHIP DEVELOPMENT CLUB**

### **DEPARTMENT OF COMMERCE**

in association with

### **INSTITUTION'S INNOVATION COUNCIL (IIC)**

Presents

### **ENTREPRENEURIAL TALK SERIES - CHAPTER 2**

### **"WOMEN EMPOWERMENT THROUGH ENTREPRENEURSHIP"**



Resource Person :

**Ms.ROOPA GEORGE**

MANAGING PARTNER, BABY MARINE  
INTERNATIONAL,  
ASIAN KITCHEN BY TOKYO BAY

SOCIAL ENTREPRENEUR, AUTHOR,  
ENVIRONMENTALIST,

My Story  
Motivational  
Session By  
Successful  
Entrepreneur

**Figure 15: Seminar - Brochure**



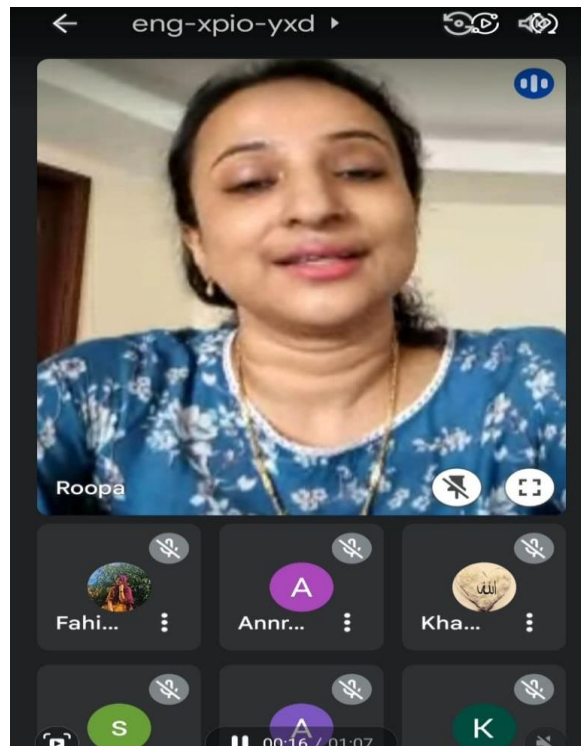


Figure 2: Screenshot of the Programme

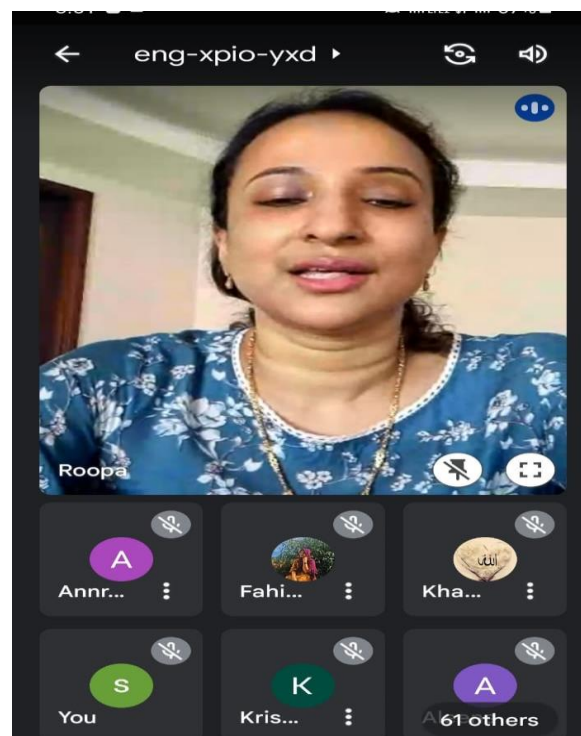


Figure 3: Screenshot of the Programme

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8	JOSEFINA JOSEPH
9	JYOTHIS EAPEN
10	KRISHNAPRIYA M R
11	NAFSIYA C B
12	RESHMA K K
13	SREELAKSHMI T A
14	WILSY MARIAM PHILIP
15	AMRITHA T S
16	ANAGHAMOL P U
17	ATHULYA BALAN
18	JOMOL JOY
19	MARIA THOMAS
20	NAYANA ASOKAN
21	ROSEMOL M SUNNY
22	SETHULAKSHMI K M
23	SHONCY SANTHOSH
24	SUMAYYA VEERAS
25	THASNEEM P S
26	AMI LIYANA U M
27	ANAKHA K P
28	ANNA PAUL
29	ANUSHA K B
30	APARNA A FRANCIS
31	ASHNA SALIM
32	DISNA XAVIER
33	EHUSANA K B
34	ELSA FRANCIS
35	FARZANA P G
36	FATHIMA M S
37	JOMOL BABU
38	NAUJATH V M
39	AMRITHA T S
40	ANAGHAMOL P U
41	ATHULYA BALAN
42	JOMOL JOY
43	MARIA THOMAS
44	NAYANA ASOKAN
45	ROSEMOL M SUNNY
46	SETHULAKSHMI K M
47	SHONCY SANTHOSH
48	SUMAYYA VEERAS
49	THASNEEM P S
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51	ANAKHA K P

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53	ANUSHA K B
54	APARNA A FRANCIS
55	ASHNA SALIM
56	DISNA XAVIER
57	EHUSANA K B
58	ELSA FRANCIS
59	FARZANA P G
60	FATHIMA M S
61	JOMOL BABU
62	NAUJATH V M
63	ANCY MATHEW
64	ANJANA M M
65	ANU A A
66	APARNA S KARTHA
67	ASWATHY MONEY
68	CHAITHANYA CHANDRAN
69	ELSA VARGHESE
70	FEBI MARIUM BABU
71	FOUSIYA RASHEED
72	MAYA PHILIPOSE
73	NINIYA K ELDHO
74	PRIYA BABU
75	REEMA BABY
76	RESHMA V A
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78	ADHEENA VARGHESE
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81	ANAKHA JOSE
82	ANJALI VALSAN
83	ANJALY SIVADASAN
84	ANN MARY SANTY
85	ANSY SEBASTIAN
86	ASHITHA KAREEM
87	ASHNA ARAMTHURUTHIL KOYAN
88	ASNA K. A
89	ATHIRA VENUGOPAL
90	DEEPTHI RAJENDRAN
91	DONA MARIYA JOY
92	DONIYA LAIJU
93	GANALATHA
94	GREESHMA KRISHNAN
95	GREESHMA RAJAN
96	INARANI
97	JEBNA K JALEEL
98	KEERTHY RAJENDRAN
99	LINNY BENNY
100	NOEL KURIEN

## Intellectual Property Rights

<b>Title of the Programme</b>	<b>Intellectual Property Rights</b>
<b>Organizing Department</b>	<b>College Library</b>
<b>Resource Person</b>	<b>Ms. Lavanya Madduri, Examiner of Patents and Designs and NIPAM, Trainer, Intellectual Property Office, Chennai</b>
<b>Date</b>	<b>18/1/2022</b>
<b>Platform</b>	<b>Webex</b>
<b>Duration</b>	<b>2.15 pm to 4.00 pm</b>
<b>Number of Participants</b>	<b>175</b>
<b>Objective</b>	<ul style="list-style-type: none"> <li>• To study significance of protecting intellectual property</li> <li>• to encourage research and development in IPR</li> <li>• to study importance of patent protection in fostering technological advancements</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• The Students attained an insightful overview of the various forms of intellectual property, including patents, trademarks, copyrights, and trade secrets</li> </ul>



## **Report**

The seminar on "Intellectual Property Rights" held on January 18, 2022, was a significant event aimed at increasing awareness and understanding of intellectual property rights among the participants. The virtual seminar, conducted on the Webex platform, brought together experts, educators, and students interested in the field of intellectual property. The seminar began with a warm welcome address by the organizers from the National IP Awareness Mission and Mar Thoma College for Women. They emphasized the importance of intellectual property in fostering innovation and creativity. Smt. Lavanya Madduri, an esteemed Examiner of Patents and Designs and NIPAM Trainer from the Intellectual Property Office in Chennai, delivered the keynote speech. She provided an insightful overview of the various forms of intellectual property, including patents, trademarks, copyrights, and trade secrets.

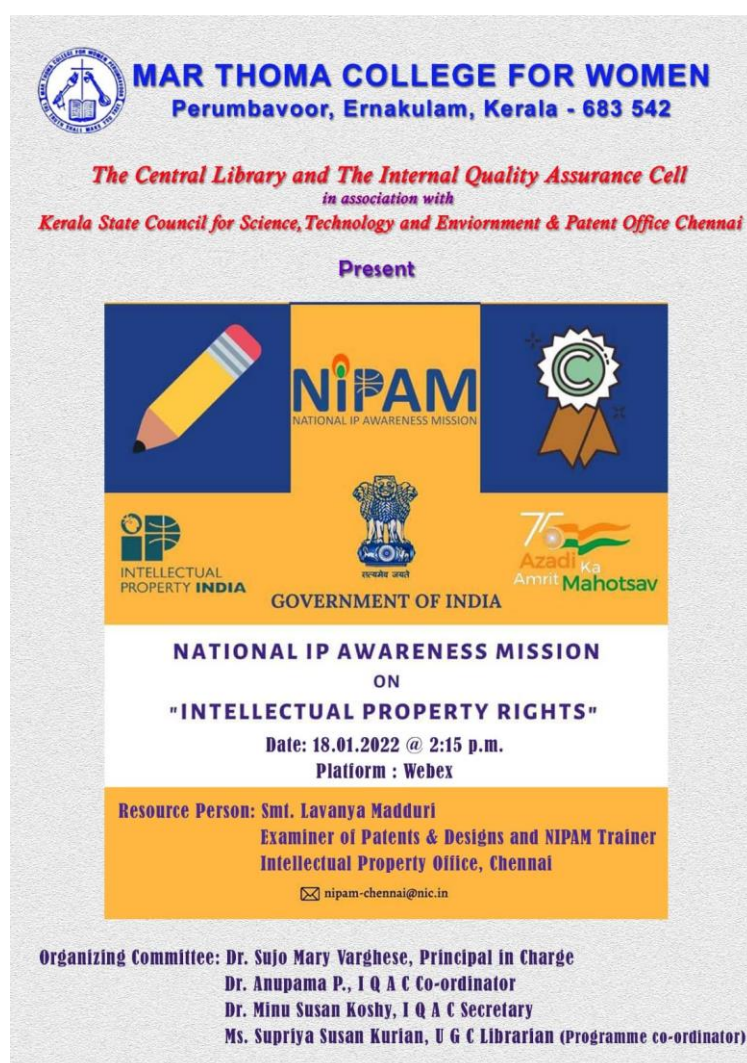
Additionally, Smt. Madduri highlighted the significance of protecting intellectual property to encourage research and development in different sectors. The first session of the seminar focused on patents and design rights. Smt. Madduri elucidated the patent application process, criteria for patentability, and the importance of patent protection in fostering technological advancements. She also discussed the role of the Intellectual Property Office in examining patent applications and granting patents to deserving inventions. The second session centered on trademarks and copyrights. Participants learned about the significance of trademarks in brand protection, consumer identification, and market competitiveness. The discussion on copyrights covered the scope of protection, fair use, and the importance of securing rights for creative works. In this segment, Smt. Madduri shed light on the challenges of enforcing intellectual property rights and the legal mechanisms available for combating infringement.

She discussed case studies and real-life examples to illustrate the





consequences of IP violations and the steps that rights holders can take to protect their interests. The seminar concluded with an interactive Q&A session, allowing participants to seek clarifications and share their perspectives on intellectual property issues. Smt. Madduri provided valuable insights and addressed various queries posed by the audience.



**MAR THOMA COLLEGE FOR WOMEN**  
Perumbavoor, Ernakulam, Kerala - 683 542

*The Central Library and The Internal Quality Assurance Cell  
in association with  
Kerala State Council for Science, Technology and Environment & Patent Office Chennai*

**Present**

**NIPAM**  
NATIONAL IP AWARENESS MISSION

**INTELLECTUAL PROPERTY INDIA**

**GOVERNMENT OF INDIA**

**75 Azadi Ka Amrit Mahotsav**

**NATIONAL IP AWARENESS MISSION  
ON  
"INTELLECTUAL PROPERTY RIGHTS"**

**Date: 18.01.2022 @ 2:15 p.m.  
Platform : Webex**

**Resource Person: Smt. Lavanya Madduri**  
Examiner of Patents & Designs and NIPAM Trainer  
Intellectual Property Office, Chennai

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**Organizing Committee:** Dr. Sujo Mary Varghese, Principal in Charge  
Dr. Anupama P., I Q A C Co-ordinator  
Dr. Minu Susan Koshy, I Q A C Secretary  
Ms. Supriya Susan Kurian, U G C Librarian (Programme co-ordinator)

**Figure 1: Programme Brochure**

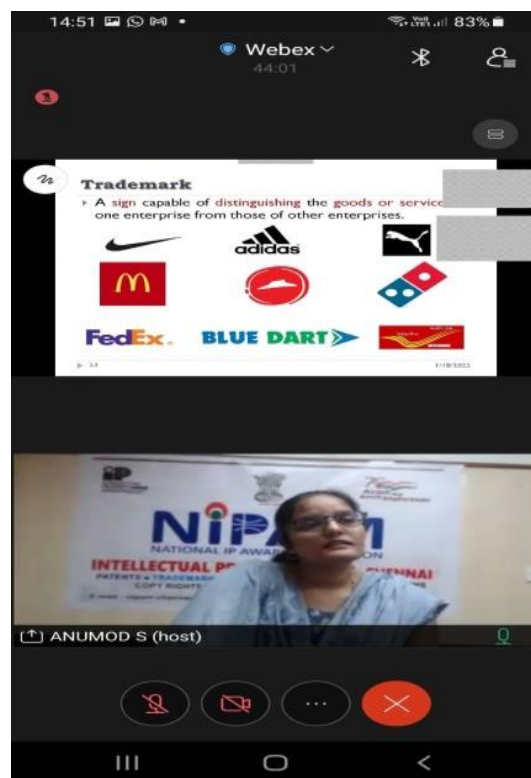
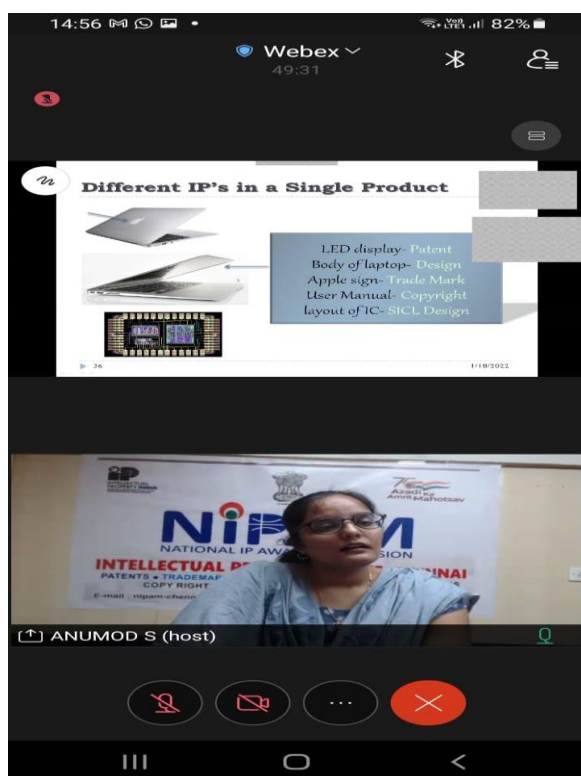


Figure 2 & 3: Screenshots of the programme

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