



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

2019-2020



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	Organizing Department	Date From – To	Page No
1	What Can We do with Texts? Fundamental of Critical Reasoning	Research Methodology	50	English	19/09/2019	5
2	Importance of Research in Education Sector	Research Methodology	37	Commerce (Finance and Taxation)	11/07/2019	11
3	Life Skill Enhancement Program-Liquid Soap Making	Entrepreneurship Development	39	Chemistry	25/11/2019-26/11/2019	16
4	Locating Histories of Women in Ancient India	Research Methodology	61	History	2/7/2019	22
5	Material Science and Tech Opportunities and Challenges	Research Methodology	46	Physics	27/8/2019	31
6	Recent Trends in Archaeology	Research Methodology	35	History	02/08/2019 - 3/8/2019	36
7	Exploring the Arctic-Indian and Global Research Initiatives at a Glance	Research Methodology	116	Chemistry	27/8/2019	41
8	Research Methodology and Data Analysis	Research Methodology	24	Zoology	13/06/2019-14/06/2019	49

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





MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

(Affiliated to Mahatma Gandhi University, Kottayam. Re - Accredited by NAAC with 'B+')

Kerala 683 542

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9	Sampling and Data Collection in Scientific Research	Research Methodology	18	Zoology	19/06/2019	53
10	Some Recent Trends in Mathematical Research	Research Methodology	38	Mathematics	4/12/2019–5/12/2019	57
11	3D Printing of Metallic Materials	Research Methodology	45	Physics	28/5/2020	62
12	Material Simulations	Research Methodology	45	Physics	27/5/2020	68
13	Recent Research Trends in Material Science	Research Methodology	45	Physics	18/2/2020	74
14	Scientific Temper	Research Methodology	50	Physics	17/2/2020	79

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3.2.2:

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



What Can We do with Texts? Fundamental of Critical Reasoning

Title of the Programme	What Can We do with Texts? Fundamental of Critical Reasoning
Organizing Department	English
Resource Person	Dr. Jibu Mathew George, Assistant Professor, The English and Foreign University, Hyderabad
Date and Year	19/09/2019
Venue	PG Seminar Hall
Duration	10 am to 12.00 pm
Number of Participants	50
Objectives	<ul style="list-style-type: none"> • To acquire knowledge about sceptical thinking and understanding • To deal with Challenging assumptions • To give an insight about how to read a text
Outcome	<ul style="list-style-type: none"> • The students understood that it is only through purposeful, intentional and frequent questioning that critical thinking skills can be sharpened

Report

A seminar on “What we do with Texts? Fundamentals of critical Reasoning” was organized by the English Association in association with the



IQAC on 19 September 2019. The resource person for the day was Dr Jibu Mathew George, Assistant Professor, The English and Foreign University, Hyderabad. The presidential address for the programme was delivered by Ms. Chaithanya Elsa Achankunju, Head of the Department of English.

Critical thinking skills are the most fundamental skills involved in making judgments and solving problems. The ability to think critically about a matter to analyse a question, situation, or problem down to its most basic parts is what helps us evaluate the accuracy and truthfulness of statements, claims, and information we read and hear. It is the sharp knife that, when honed, separates fact from fiction, honesty from lies, and the accurate from the misleading. The academic setting demands more of us in terms of critical thinking than everyday life. It demands that we evaluate information and analyse myriad issues. It is the environment where our critical thinking skills can be the difference between success and failure. In this environment we must consider information in an analytical, critical manner.

Critical thinking is clear, reasonable, reflective thinking focused on deciding what to believe or do. It means asking probing questions like, how do we know? or Is this true in every case or just in this instance? The lecture was about the need for being skeptical and challenging assumptions, rather than simply memorizing facts or blindly accepting what you hear or read. The students understood that, it is only through purposeful, frequent and intentional questioning that critical thinking skills can be sharpened and improved.





**MAR THOMA COLLEGE FOR WOMEN
PERUMBAVOOR**

**English Association
presents**

19 September, 2019
2:30 p. m.

SEMINAR ON

**" WHAT TO DO WITH
TEXTS?:
FUNDAMENTALS OF
CRITICAL REASONING "**

Figure 1: Event brochure





Figure 2: Photograph of the Event

List of Participants

Sl. No.	Name
1	Alfiya Sulthana
2	Anitha Sasi
3	Anju A Prabhu
4	Anupama Sajeev
5	Dhanya Sara Saji
6	Fathima Muhammed



7	Hena Ajayan
8	Jafna K. S.
9	Megha Chandran
10	Reshma Reji
11	Rizwana T. R.
12	Safa Abdul Majeed
13	Safna Basheer
14	Sreelakshmy K. G.
15	Swathi Jayan
16	Vrinda Vijayan
17	Athulya Sudhakar
18	Bhavya Balachandran
19	Fathima C. A.
20	Fathima Nazily V. K.
21	Abina Sulhath M. A.
22	Aiswarya K. Ashokan
23	Aksa Mol Sunny
24	Ammu C. Vinod
25	Anjam Ameer
26	Anjana K. Manoj
27	Anjitha Devassy
28	Anna Benny
29	Anoora Farsana V. R.
30	Anupama P. J.
31	Asbiya V. A.
32	Ashna Ashraf
33	Aswathy C. M.
34	Binsiya Bindh Baquir C. K.
35	Denaha Eliz George
36	Divya T. K.
37	Fathima Nehla K. S.
38	Fathima Nourine
39	Fousiya C. S.
40	Geethu M. A.



41	Jolsna Sibi
42	Mariya Chacko
43	Riya Ann Sanju
44	Sarannya Devi S.
45	Sisira Sivan
46	Sreemol P. S.
47	Sumayya K. R.
48	Sumayya M.
49	Sumayya P. S.
50	Swetha Mary Kurien



Importance of Research in Education Sector

Programme	
Organizing Department	Commerce (Finance and Taxation)
Resource Person	Dr. P Vimala, Head, Department of commerce, St. Xaviers College, Aluva
Date and Year	11/07/2019
Venue	PG Seminar Hall
Duration	10 am to 12.00 pm
Number of Participants	37
Objectives	<ul style="list-style-type: none"> • To acquire knowledge and understanding of the changing dynamics of the education system • To acquire understanding of the changing dynamics of education system • To understand the role of research in policy making
Outcome	<ul style="list-style-type: none"> • The students were able to identify the challenges faced by students and to implement effective strategies to address them

Report



The Department of Commerce organized a seminar on “Importance of Research in Education Sector”. Dr. P. Vimala was the resource person of the program and she spoke on the importance of research in the education sector. The seminar was attended by all faculty members and students of the department. The seminar was started with a brief introduction of Dr P Vimala by the head of the department, Sherin T Abraham.

Dr P Vimala began her talk by discussing the importance of research in education. She stressed on the need to conduct research to acquire knowledge and understanding of the changing dynamics of the education system. She further explained how research can help educators to identify the challenges faced by students and to implement effective strategies to address them. She also highlighted the role of research in policy making and its impact on the quality of education. The seminar also addressed topics such as the need for research in the field of curriculum development, assessment, and technology-based learning. Dr P Vimala also discussed the challenges faced by researchers and the need for collaboration between different stakeholders to ensure the success of research projects.

At the end of the seminar, Dr Licy Cheriyan, the principal, thanked Dr P Vimala for her enlightening talk. She also thanked the student coordinator Ainu C Sunny for organizing the seminar and making it a success. The seminar concluded with a vote of thanks from the head of the department.





Figure 2: Event brochure



Figure 2: Photograph of the Event





Figure 3 : Students attending the programme

List of Participants

Sl. No	Name of the student
1	Adhithya Roy
2	Ainu C Sunny
3	AmbilyAjeesh
4	Anagha Varghese George
5	Anamika M K
6	Anjana P R
7	Anju Wilson
8	Ann Mariyan Thomas
9	Anusha Ayyappankutty
10	Aparna M K
11	Aparna Raju
12	Arya Ravi
13	Aseena Abu
14	Athila Abdul Nassar
15	Athira C U
16	Bibitha Mol K A
17	Devika Anil
18	EbisaEldhose



19	Fathima Jamal
20	Feba P Thomas
21	Giya P Babu
22	Gopika Mohan T
23	Gowri Priyadharsini
24	Irin Mary Peter
25	Kesia K R
26	Krishna Rajeevan
27	Lakshmi V S
28	Maneeshma K S
29	Mariya Femina P J
30	Mariya George
31	Nazrin K S
32	Nelha Thomas
33	Preethi Babu
34	Reshma Ann Jacob
35	Reshma P Vikraman
36	Sona Paul
37	Yamuna P Manoj



Life skill Enhancement Programme: Liquid Soap Making

Title of the Programme	Life Skill Enhancement Program-Liquid Soap Making
Organizing Department	Chemistry
Name of the Coordinator	Ajil Sara Joy(Student Coordinator)
Resource Person	Dr. Rakhi R, Assistant Professor, Mar Thoma College for Women, Perumbavoor
Date	25/11/2019 to 26/11/2019
Venue	Chemistry Lab
Duration	Two Days
Number of Participants	39
Objective	<ul style="list-style-type: none"> • To analyze the role of washing and cleansing agents to maintain health and hygiene • To understand the process of preparation and packing of liquid soap • To develop entrepreneur skills among the students
Outcome	<ul style="list-style-type: none"> • The Students displayed entrepreneur skills

Report



The Department of Chemistry organized a workshop on “Liquid soap making” in the academic year 2019-2020. Third year students prepared liquid soap on 25th November 2019, under the guidance of Ms. Seba George. The student coordinator was Ajil Sara Joy. These soaps were distributed among the students and staff of the college. This programme gave a platform to the students to understand the process of preparation and packing of liquid soap. They became aware of the materials used for the preparation of liquid soap. It also provides awareness about the significance and scope of soap making.

This programme helped the students to get the knowledge of making soaps as their own. Thus they were able to make homemade liquid soap in a cheaper way. It also helps them to develop entrepreneur skills. All the students actively participated in making and selling the products. Students got awareness on the role of washing and cleansing agents to maintain health and hygiene.



**MAR THOMA COLLEGE FOR
WOMEN PERUMBAVOOR**

DEPARTMENT OF
CHEMISTRY

LIQUID SOAP MAKING



Dishwashing liquid soap

Life skill
enhancement program

Mrs. Seba George
(Teacher-in-charge)

Ms. Ajil Sara Joy
(Student co-ordinator)

Date:25/11/2019
Time:9:30am

Figure 1: Programme Brochure





Figure 1: Students preparing Liquid Soap



Figure 1: Students with Prepared Soap



List of Participants

Sl. No	Name of the student
1	AFSANA JAMAL
2	AISHA SALIM
3	AJIL SARA JOY
4	AJINIYAMOL IBRAHIM
5	ALEENA BENNY
6	ALFIYA ABBAS
7	ALKA ASOK
8	ANAHA BIJI
9	ANITTA SAJU
10	ANUSREE A SANTHOSH
11	ARYA MURALI
12	ASHITHA EBRAHIM
13	ASWANI C S
14	ATHIRA P R
15	DIVYA K V
16	DIVYA AVARACHAN
17	DIVYA VIJAYAKUMAR
18	FARA FARZEEN A H
19	FATHIMA RAEZA
20	FATHIMA UMMER V U
21	GREESHMA SATHYAN
22	JOMOL GEORGE
23	JOMOL JOSE
24	LAKSHMI INDUHOODAN



25	MANUMITHA S
26	MARIYA JEBY
27	MERIN VARGHESE
28	MUBEENA BASHEER
29	NISMA RAHMAN
30	RASLA T RAHMAN
31	RENJITHA RAVEENDRAN
32	SAHLA T EBRAHIM
33	SALIMA P S
34	SALIYA C S
35	SHEHANAS T M
36	SILPA PAILY
37	SIYA MARIYA SUNNY
38	SONA SAJI
39	SWATHY P S



Locating Histories of Women in Ancient India

Programme	Locating Histories of Women in Ancient India
Organizer	History
Resource Person	Dr. K. M. Sheeba, Professor, Department of History SreeSankaracharya University of Sanskrit, Kalady
Date and Year	2/7/2019
Venue	Seminar Hall
Duration	Two Day
Beneficiaries	61 Students, Teachers
objectives	<ul style="list-style-type: none"> • To provide overview of sources among the students • To study the importance o various sources in understanding the history of women in India • To learn the contributions of women in ancient India
Outcome	<ul style="list-style-type: none"> • The students were able to recognize the contributions of women in ancient India, in order to create a more equitable and inclusive society.

Report



The topic “Locating Histories of Women in Ancient India” was discussed in a lecture by Dr. K. M. Sheeba, Professor, Department of History at the SreeSankaracharya University of Sanskrit in Kalady, on 2nd July 2019.

Dr. Sheeba began the lecture by emphasizing the importance of locating the histories of women in ancient India. She argued that since ancient times, women have played an important role in Indian society, but their contributions have not been adequately recognized. She pointed out that while there are numerous sources that provide information about the history of men in ancient India, there has been a relative lack of sources that provide information about the history of women. Dr. Sheeba then went on to discuss various sources and methods of uncovering the histories of women in ancient India. She noted that there is a wealth of information to be found in ancient texts such as the Vedas, epics, and Puranas. These texts provide valuable insights into the lives of women in ancient India. She also discussed the importance of using archaeological evidence, such as inscriptions, sculptures and coins, to uncover the contributions of women during the ancient times.

Finally, Dr. Sheeba concluded the lecture by stressing the importance of uncovering the histories of women in ancient India. She emphasized that it is essential to recognize the contributions of women in ancient India, in order to create a more equitable and inclusive society.





MAR THOMA COLLEGE FOR WOMEN
PERUMBAVOOR

Seminar on : **LOCATING HISTORIES OF
WOMEN IN ANCIENT INDIA**

Organised by

Department of History and Archaeology



dr. k. m. sheeba, professor,
department of history
sreesankaracharya
university of sanskrit, kalady

VENUE : P.G.SEMINAR HALL

DATE : 2/7/2019
TIME : 10 :00 AM

Figure 1: Brochure





Figure 1: Question Answer session of the programme



Figure 2: Students attending the programme

List of Participants



1	Fathima M.P
2	HaneesaParween PKP
3	Jeena Johnson
4	Payal Kumari
5	RemyaSandosh
6	Safarina .M Mahin
7	Aisha Marwa
8	Amalendu ER
9	Amina M.T
10	AnaghaE.R
11	AneenaV.A
12	Angala Mol Davis
13	Anjitha Ravi
14	Anju Varghese
15	Anumol Mani
16	AswathyN.A
17	AthiraK.T
18	AthulyaSasi
19	BibinaV.B
20	BibinshaT.I
21	Bini Eldhose
22	Fasna M.M
23	Jainu Paul
24	Josmy John
25	Keerthi T.S
26	Lakshmi K.V
27	Merin Mathews
28	Nasrin V.M
29	Nejuma Muhammad
30	Rahi Mani
31	Safrina A.M
32	Soja Mathayi
33	Theofilsa Mathew
34	Varsha Sunil



35	Vismaya Sasi
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36	Alkha Lakshmi
37	Anna Jose
38	Asna Ashraf
39	Devaki M
40	E K Krishnapriya
41	Fathima E B
42	Gopika G R
43	Riya P A
44	Abheendra V S
45	Anugraha A U
46	Anusree Rajan K B
47	Arathi C S
48	Ardhra Sivan
49	Arya Kk
50	Arya Udayan
51	Ashna P A
52	Asna Ashraf V A
53	Aswathi K S
54	Athira Biju
55	Chandini P J
56	Chris Antony
57	Eathal Kt
58	Fasila Basheer
59	Fathima Mi



60	Fathima Sakariya
61	Fathimmathu Sadiya
62	Gouri B S
63	Husna M M
64	Jyothy Lakshmi Suresh K
65	Krishnapriya R
66	Meenusree K S
67	Mufeeda Akbar
68	Nandana A S
69	Neslin T N
70	NoufiyaNooh
71	Sandra Sani
72	Siyana A
73	Soufiya K K
74	UmmulkulsoomEa
75	Vijisha P
76	Vismaya K V
77	Aasiya N
78	Ardhra Ravi
79	Asna K Ajas
80	Farsana Usman
81	Fathima P A
82	Gopika T G
83	Hasanath N A
84	Naciya Mole K A
85	Sara Farsana
86	ShahanasBeegum P S
87	Suriya V S
88	Vidya S L
89	Akhila P S
90	Aleena Jose
91	Aleena Mariya
92	Angel Lalu
93	Anna Poulouse



94	Ansin Ajmal
95	Anusha R
96	Ashna Jiji
97	Aswathy E T
98	Aswathy V S
99	Ayisha K M
100	Diya Supri
101	Emil Alias
102	Esther P
103	Fasnamol Shereef
104	Fathima Shabanam M R
105	Karthika S
106	Sandra K M
107	Shimi George
108	Sona Biju
109	Swathy Suresh
110	Varsha C
111	Zulfa Salim

36	AbithaClayer K Mathew
37	Aisha Ashna Salim
38	Amalu C Shaji
39	Anjana M.R
40	Anoopa George Kurian
41	Anuja Thankachan
42	ArunikaE.U
43	Arya P.A
44	AswathyK.D
45	Aswathy Suresh Babu
46	Farsana Azeez
47	Fathima V.M
48	Gopika M Gopi
49	Lakshmi Babu K
50	Lakshmi K.S



51	Mariya Iganitious
52	RevathyM.A
53	Riya Paul
54	RufseenaPareed
55	Ruth Santhosh
56	Sainunnisa M.M
57	SreelekhaE.V
58	ThaskinV.A
59	Thanzeera K.K.P
60	Anupama Venu
61	NafiyaK.N



Material Science and Technology: Opportunities and Challenges

Programme	Material Science and Technology: Opportunities and Challenges
Organizer	Physics
Resource Person	Dr. Ison .V.Vanchipurackal, Head, Department of Physics, St.Thomas College, Pala
Date and Year	27/8/2019
Venue	PG Seminar Hall
Duration	10.00 am to 12.00 pm
Beneficiaries	46
Objectives	<ul style="list-style-type: none"> • To learn possibilities of nanotechnology • To study the manipulation of materials at the atomic and molecular levels • To gain understandings in the emerging perspectives in nanotechnology
Outcome	<ul style="list-style-type: none"> • The participants got understanding in the possibilities of nanotechnology and the manipulation of materials at the atomic and molecular levels

Report

The Department of Physics organized a webinar on “Material Science and Technology: Opportunities and Challenges” on August 27, 2019. The purpose of the webinar was to explore the advancements and challenges in the field of



material science and technology. The event featured Dr. Ison V. Vanchipurackal, Head of Department of Physics, St. Thomas College, Pala, as the resource person. 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, providing an interactive platform for participants to engage in discussions and gain insights into the topic.

Dr. Ison, a renowned authority in material science and technology, delivered an enlightening presentation. He began by providing an overview of the field, emphasizing its vital role in various industries and applications. The resource person discussed the latest developments and emerging trends in materials research, highlighting their impact on technology, manufacturing, and everyday life.

Dr. Ison shed light on the vast opportunities available in the field of material science and technology. He emphasized the potential for innovation and the creation of advanced materials with desirable properties. The resource person discussed the application of materials in fields such as electronics, energy, healthcare, aerospace, and environmental sustainability. He also explored the possibilities of nanotechnology and the manipulation of materials at the atomic and molecular levels.

Alongside opportunities, Dr. Ison addressed the challenges faced by material scientists and technologists. He discussed the limitations of current materials, the need for improved durability, and the demand for eco-friendly alternatives. The resource person also highlighted the importance of addressing ethical concerns, such as the responsible use of materials and their impact on the environment. The webinar included an interactive session, where participants had the opportunity to ask questions and engage in discussions with Dr. Ison.



The resource person provided valuable insights and clarifications, fostering a deeper understanding of the subject matter.



Figure 3: Duty Certificate of the Resource Person





Figure 2: Photograph of the Programme

List of Participants

Sl. No	Name of the student
1	Aarya H Kartha
2	Sandra Krishna
3	Jaseela K S
4	Shifana E S
5	Saira Abraham
6	Beemamol M H
7	Aiswarya Muraleedharan
8	Arathy Sukumar
9	Ammu Babu
10	Anjana K S
11	Anupama Ravikumar
12	Anju T M
13	Remya Sathyan
14	Binitta B Arackal
15	Afnitha Kareem



16	Ameera Rasheed
17	Bintu Maria Paul
18	Ancy Mary Sunil
19	Jiya Eldho
20	Megha Manoj
21	Nimmy Joseph
22	Ginisha Mol C S
23	Afna Jaffer
24	Merin Joy
25	Bhagyalakshmi Unnikrishnan
26	Blessy Mathew
27	Keerthana Shaji
28	Jifna Varghese
29	Jeena Johny
30	Aswathi Sasi
31	Greeshma Eldho
32	Sreelakshmi S
33	Akhina K Sudheesh
34	Anu Paul
35	Fathima Hamsa
36	Fathima T S
37	Fathimath Saniya
38	Khadeeja M H
39	Akhilendu T Anil
40	Surya M C
41	Adhila K S
42	Afrin M K
43	Anna Davis
44	Farzana Ashraf
45	Durga Gopan
46	Fathima Shiril



Recent Trends in Archaeology

Programme	Recent Trends in Archaeology
Organizer	History
Resource Person	Bhakti Gohil, Rajalakshmi Karakulam and Nisha Rani Das Research Scholars, M. S. University Baroda
Date and Year	02/08/2019 to 3/8/2019
Platform	Google Meet
Duration	Two Day
Beneficiaries	35 Students, Teachers
Objectives	<ul style="list-style-type: none"> • To introduce the students various new trends in the field of archaeology • To study the importance in understanding our past • To learn various trends in archaeology
Outcome	<ul style="list-style-type: none"> • The students got opportunity to analyze the research techniques of archaeology

Report

The Department of History of Marthoma College for Women, organised a one-day workshop on “Recent Trends in Archaeology” on 2nd August 2019 at the college auditorium. The workshop was delivered by Bhakti Gohil,



Rajalakshmi Karakulam and Nisha Rani Das, all of whom are Research Scholars at M. S. University Baroda.

The workshop commenced with an introduction to the field of archaeology and its importance in understanding our past. The speakers then discussed the various techniques used for archaeological research such as excavation, stratigraphy and radiocarbon dating. The audience was given a detailed insight into the different techniques and tools used in archaeological exploration. The workshop then moved on to discuss the various trends in archaeological studies. It was highlighted that archaeological studies have become increasingly interdisciplinary and integrated with other fields such as anthropology, history and sociology.

The audience was also informed about the various government policies that are in place to protect archaeological sites and monuments. The workshop concluded with a brief discussion on the role of technology in archaeology. The speakers highlighted the importance of using technology such as satellite imagery, 3D modelling and virtual reality for archaeological research. They also discussed the potential of using drones for aerial survey and mapping of archaeological sites.

The workshop was a great success and was attended by students, faculty members and researchers. The speakers answered queries from the audience and provided valuable insight into the field of archaeology. The workshop provided an excellent platform for students and faculty to gain knowledge and insight into the field of archaeology.



RESEARCHER'S TALK

National Workshop on Recent Trends in Archaeology

Speakers



Bhakti Gohil
Research Scholar, M.S. University, Baroda
Topic: Environmental Archaeology



Rajalakshmi Karakulam
Research Scholar, M.S. University, Baroda
Topic: Phyto-lith studies in Archaeology



Nisha Rani Das
Research Scholar, M.S. University, Baroda
Topic: Pre-historic studies in North-Eastern India

2 August 2019 **Venue: P.G. Seminar Hall**

Department of History & Archaeology
Marthoma College for Women, Perumbavoor
Ph: 0484 2522723 | Email: mtcpr@yahoo.co.in

Figure 1: Brochure of the Programme

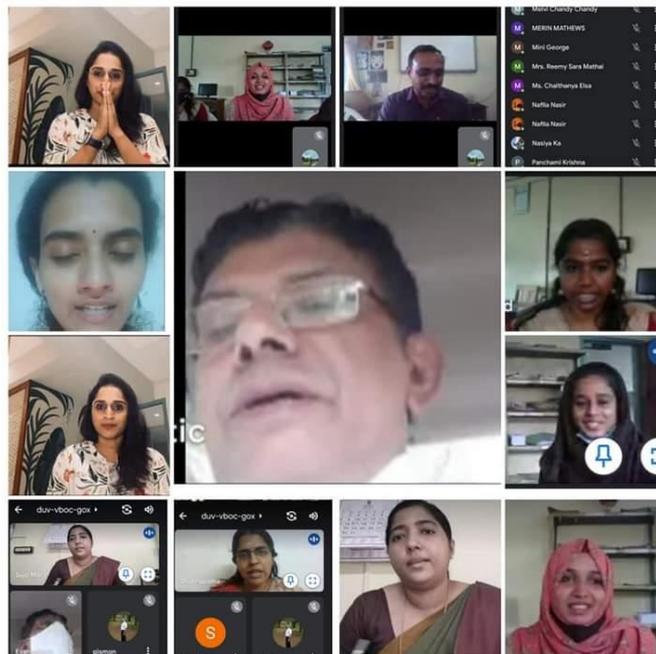


Figure 2: Screenshot of the Programme



List of Participants

Sl. No	Name of the Student
1	Fathima M.P
2	Haneesa Parween PKP
3	Jeena Johnson
4	Payal Kumari
5	Remya Sandosh
6	Safarina .M Mahin
7	Aisha Marwa
8	Amalendu ER
9	Amina M.T
10	Anagha E.R
11	Aneena V.A
12	Angala Mol Davis
13	Anjitha Ravi
14	Anju Varghese
15	Anumol Mani
16	Aswathy N.A
17	Athira K.T
18	Athulya Sasi
19	Bibina V.B
20	Bibinsha T.I
21	Bini Eldhose
22	Fasna M.M
23	Jainu Paul
24	Josmy John
25	Keerthi T.S



26	Lakshmi K.V
27	Merin Mathews
28	Nasrin V.M
29	Nejuma Muhammad
30	Rahi Mani
31	Safrina A.M
32	Soja Mathayi
33	Theofilsa Mathew
34	Varsha Sunil
35	Vismaya Sasi



Exploring the Arctic-Indian and Global Research Initiatives at a Glance

Programme	Exploring the Arctic-Indian and Global Research Initiatives at a Glance
Organizer	Chemistry
Resource Person	Dr. Anu Gopinath, Assistant Professor, KUFOS, Panangad
Date and Year	27/8/2019
Venue	Conference Hall
Duration	10.30 am to 12.00 pm
Beneficiaries	116
Objectives	<ul style="list-style-type: none"> • To create an awareness of the Arctic region and a better understanding of the research areas • To study Arctic expeditions • To learn Indian and Global Research Initiatives
Outcome	<ul style="list-style-type: none"> • The students got better understanding of the research areas in the field of chemical oceanography, physical oceanography, marine biology and geology



Report

The activities of Chemistry Association was officially inaugurated on 27th August 2019. The function is presided over by Dr. Gigi George, Principal in charge. Sahla T Ebrahim delivered the welcome speech. Dr. Anu Gopinath, Assistant Professor in Chemical Oceanography and Aquatic Environment Management, KUFOS, Panangad inaugurated the function. The inauguration was followed by a talk on “Exploring the Arctic - Indian and Global Research Initiatives at a Glance” by Dr. Anu Gopinath.

Dr. Anu Gopinath was the team leader of Indian Arctic Expedition - 2017 organized by NCAOR, Govt. of India. She was also a team member in 2014 & 2015 Arctic expeditions. She shared her experience at the research station Himadri in the Arctic. She discussed the sampling of water, phytoplankton, zooplankton and marine bacteria in the Arctic Fords. She also discussed the institutions in Kerala that have collaborations with NCAOR and the benefits for the students in these research areas and explore more areas.

The resource person’s research experiences was a great inspiration to our students which helped them to create an awareness of the Arctic region and a better understanding of the research areas in the field of chemical oceanography, physical oceanography, marine biology and geology.





Figure 1: Brochure of the Programme



Figure 2 & 3: Photos of the program



List of Participants

Sl. No	Name of the Student
1	AFSANA JAMAL
2	AISHA SALIM
3	AJIL SARA JOY
4	AJINIYAMOL IBRAHIM
5	ALEENA BENNY
6	ALFIYA ABBAS
7	ALKA ASOK
8	ANAHA BIJI
9	ANITTA SAJU
10	ANUSREE A SANTHOSH
11	ARYA MURALI
12	ASHITHA EBRAHIM
13	ASWANI C S
14	ATHIRA P R
15	ATHIRA RAVI
16	DIVYA K V
17	DIVYA AVARACHAN
18	DIVYA VIJAYAKUMAR
19	FARA FARZEEN A H
20	FATHIMA RAEZA
21	FATHIMA UMMER V U
22	GREESHMA SATHYAN
23	JOMOL GEORGE



24	JOMOL JOSE
25	LAKSHMI INDUCHOODAN
26	MANUMITHA S
27	MARIYA JEBY
28	MERIN VARGHESE
29	MUBEENA BASHEER
30	NISMA RAHMAN
31	RASLA T RAHMAN
32	RENJITHA RAVEENDRAN
33	SAHLA T EBRAHIM
34	SALIMA P S
35	SALIYA C S
36	SHEHANAS T M
37	SILPA PAILY
38	SIYA MARIYA SUNNY
39	SONA SAJI
40	SWATHY P S
41	ABHIRAMI T.V
42	AGNS BABU
43	AISWARYA P.S
44	AISWARYA A.V
45	AJMIYA C.S
46	AKHILA P.S



47	ALEENA BABU
48	AMRUTHA ANILKUMAR
49	AMRUTHA JOY
50	ANAGHA DAMODARAN
51	ANAGHA P KRISHNA
52	ANAGHA A.A
53	ANAKHA P.M
54	APARNA NAIR
55	APARNA THILAK E.T
56	ASWATHY AJITH
57	ATHIRA BIJU
58	ATHISHA P.M
59	BESTY BENNY
60	DEVIKA CHANDRAN
61	FATHIMA RASBIN K.R
62	GOPIKA K.S
63	HARITHA V.H
64	HARSHAMOL GOPI
65	JYOTHIKA RAMAKRISHNAN
66	MARIYA MATHEW
67	MERIN BABU
68	MUBINA MUHAMMED
69	NIRANJANA ANAND



70	RINCY ALI
71	SAHALA SHAJAN
72	SANOOJA BEEGUM T.A
73	SHAHEEBATH SALIM
74	SNEHA T.S
75	SONIYA A.S
76	AATHIRA A KUMAR
77	ABHIRAMI T A
78	AJUMUNNISA P A
79	ASHIYA SHAJI
80	ASWATHI K S
81	ATHEENA SEBASTIAN
82	DONA PATHROSE
83	MARIYA VINCENT
84	NADHIYA KOCHUMON
85	NARMADA M
86	NURJAHAN P J
87	PARVATHY VENU
88	RINSA K K
89	SAIFUNISA M A
90	VINAYA A M
91	ABEEBA ALI
92	AFLA ALI
93	ALFIYA ALIYAR



94	ALINSHA ALIYAR
95	AMRUTHALAKSHMI MOHANAN
96	ANUSREE ANIL
97	ASMA YOOSAF
98	FATHIMA SAFRIN P A
99	FATHIMA SHERIN M A
100	FATHIMMA K Y
101	JENNET WILSON
102	KADEEJA C S
103	KHADEEJAMOL P A
104	KRIPA ELSA KURIAN
105	MANYA MANOJ
106	MEENU MOHAN
107	MINCIYA UMMAR
108	NIVEDITHA A K
109	PARVATHY M A
110	REMEESA PARVIN
111	ROUFATH SHAJI
112	SAHALA KHALID
113	SUMAYYA S ALI
114	THASNEEM ABDUL RASHEED
115	VICTORIYA SELVI J
116	SOWMIYA K



Research Methodology and Data Analysis

Title	Research Methodology and Data Analysis
Organizing Department	Zoology
Resource Person	Ms. Sunu N V, Ms. Jintumol Raj, Assistant Professors, Mar Thoma College for Women, Perumbavoor
Date	13/06/2019- 14/06/2019
Venue	P G Seminar Hall
Duration	Two days
Number of Participants	24
Objectives	<ul style="list-style-type: none"> • To understand the steps in research process • To get understanding on the significance of analysis of collected data in research • To enable the participants to answer the research questions
Outcome	<ul style="list-style-type: none"> • Students gained knowledge about the steps involved in research methodology, data collection, and its analysis

Report

Zoology Department conducted two day workshop on the topic “Research Methodology and Data Analysis” on 13 -14 June 2019, in the P G, Seminar Hall in which 24 students from the final year M. S. C, Zoology was



participated. Ms. Sunu N.V. and Mrs. Jintumol Raj P (Assistant Professors, Mar Thoma College for Women, Perumbavoor) were the resource persons.

Research methodology refers to the systematic and organized way in which a research study is conducted. It involves a set of techniques and principles used to collect and analyze data to answer research questions or test hypotheses. Data analysis, on the other hand, is the process of examining and interpreting data to extract meaningful insights and conclusion.

There are several methodologies including quantitative, qualitative, and mixed methods approaches. Quantitative research involves the collection and analysis of numerical data, often using statistical methods. Qualitative research involves collecting non numerical data, such as interviews, observations, and case studies and analyzing them to uncover patterns and themes. Mixed methods research combines both quantitative and qualitative methods to gain a more comprehensive understanding of a research problem.

The choice of research methodology depends on the research questions, the nature of the data, and the research context. Once the data is collected, it needs to be analyzed to draw meaningful conclusions. Data analysis involves several steps including cleaning, coding, and transforming the data into a format that can be easily analyzed.



MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR



Post Graduate Department of Zoology

PRESENTS

RESEARCH METHODOLOGY AND DATA ANALYSIS

Two day workshop for final year M. Sc. Zoology
students

SESSION 01	SESSION 02
13 JUNE 2019	14 JUNE 2019
9.30AM TO 2.30 PM.	9.30 AM TO 3 PM.

Venue: P. G. Seminar Hall

Resource Persons: Mrs. Jeyanthi Raj P.
and
Mrs. Sana N. V.
(Assistant Professors, Department of Zoology,
Mar Thoma college for Women, Perumbavoor)

Figure 1: Program Brochure



List of Participants

Sl. No	Name of the Student
1	Abhirami Ajayan
2	Aiswarya P
3	Akshara Mohan
4	Aneete George
5	Annmol George
6	Anusree T G
7	Ashitha Ajayan
8	Ashna Abbas
9	Aswani
10	Ayana P S
11	Bibinu Kuriakose
12	Greeshma T R
13	Henna James
14	Jina Ferin M
15	Kripa Eldhose
16	Malavika S Devadas
17	Neethu C
18	Parvathy M
19	Rishika Ravi A
20	Sharon Thomas
21	Smrithi S
22	Sumisha P P
23	Thaneesha Jabeen P
24	Vindhya Sundaran



Sampling and Data Collection in Scientific Research

Title	Sampling and Data Collection in Scientific Research
Organizing Department	Zoology
Resource Person	Ms. Shalu Soman, Guest Faculty, St. Peter's College, Kolenchery
Date	19/06/2019
Venue	Room no.208
time	10.30 am
Number of Participants	18
Objectives	<ul style="list-style-type: none"> • To provide knowledge in sampling and data collection • To generate knowledge on the different kinds of data collection techniques • To equip the students to draw proper conclusions based on the data
Outcome	<ul style="list-style-type: none"> • The students gained understanding in sampling and data collection in scientific research, the different types of sampling methods, and data collection techniques

Report

A research orientation titled “Sampling and Data Collection in Scientific Research” was conducted exclusively for final year BSC Zoology students on 19 June 2019. Students and teachers of the department were participated in this session and was handled by Ms. Shalu Soman, Faculty of St. Peter's College,



Kolenchery. Sampling and data collection are critical components of scientific research.

The quality of the data collected during research is critical to the reliability of research findings. This talk discusses the importance of sampling and data collection in scientific research, the different types of sampling methods, and data collection techniques. Sampling refers to the process of selecting a subset of individuals or units from a larger population to participate in a study. It is crucial for scientific research due to efficiency, Generalization, Feasibility, etc. Sampling and data collection are vital components of scientific research, enabling researchers to draw meaningful conclusions and make evidence-based decisions.





**MAR THOMA COLLEGE FOR WOMEN,
PERUMBAVOOR**



DEPARTMENT OF ZOOLOGY

*Organize
A Research Orientation on*

**Sampling and Data collection in
Scientific Research**

By

Ms. Shalu Soman
Guest Faculty, St. Peter's College, Kolenchery



TIME: 10.30 A.M

VENUE: ROOM 206

DATE: 19/06/2019

Ms. Shahina Basheer
Student Coordinator

Ms. Reemy Sara Mathai
Head of the Department

Dr. Gigi George
Principal

Figure 1: Brochure of the Program



List of Participants

Sl. No	Name of the Student
1	Carolin Ann George
2	Aparna Anil
3	Deepthi K Surendran
4	Dona Joy
5	Elna Eldho
6	Fathima Fairouz
7	Kallyani Surendran
8	Karthika Rajan
9	Karthika S
10	Lakshmi Narayanan
11	Mariya Emima Babu
12	Neeraja Ponnu
13	Ponnu Dileep
14	Saranya Bhadrn
15	Shahina Basheer
16	Shilpa Kiran
17	Soya Mol
18	Thasni K M



Some Recent Trends in Mathematical Research

Title of the Programme	Some Recent Trends in Mathematical Research
Organizing Department	Mathematics
Resource Person	Dr. Gigi George, Associate Professor, Mar Thoma College, Perumbavoor
Date	4/12/2019– 5/12/2019
Venue	Room No. 114
Duration	Two Days
Number of Participants	38
Objective	<ul style="list-style-type: none"> • To study the importance of effective communication • To create writing skills and time management in research • To provide tips on how to improve the research skills
Outcome	<ul style="list-style-type: none"> • The students were empowered to embrace and contribute to the ever-evolving field of mathematical research

Report

The two-day workshop on "Some Recent Trends in Mathematical Research" was organized by Mar Thoma College for Women in Perumbavoor



on 4th and 5th December 2019. The workshop aimed to provide a platform for students and researchers to gain insights into emerging trends in mathematical research and foster discussions among participants. Dr. Gigi George, a renowned mathematician from Mar Thoma College for Women, served as the resource person for the workshop. Elsa Francis, a student coordinator, played a pivotal role in ensuring the smooth execution of the event. This report highlights the key aspects covered during the workshop. In the Session 1 she gave an introduction to Recent Trends in Mathematical Research

Dr. Gigi George commenced the workshop by providing an overview of recent trends in mathematical research. She discussed the importance of staying updated with the evolving landscape of mathematical research and the need to explore new avenues for investigation. Various emerging topics, including machine learning in mathematics, computational mathematics, and data analysis, were introduced, generating curiosity among the participants.

The Session 2 discussed Applications of Graph Theory in Real-World Problems. The second session focused on the applications of graph theory in solving real-world problems. Dr. George presented several case studies highlighting the significance of graph theory in areas such as social networks, computer science, and transportation systems. The session sparked intriguing discussions among participants regarding the potential of graph theory in solving complex problems.

The final session focused on discussing future directions and research opportunities in mathematical research. Dr. George encouraged the participants to explore interdisciplinary collaborations and emphasized the role of mathematics in addressing complex societal challenges. She also shared



resources and references to aid participants in furthering their understanding of the discussed topics.

The two day workshop on "Some Recent Trends in Mathematical Research" successfully provided an enriching platform for students and researchers to explore emerging trends in mathematics. Dr. Gigi George's expertise and engaging sessions captivated the participants, inspiring them to delve deeper into the discussed topics. The interactive nature of the workshop fostered knowledge-sharing and generated fruitful discussions among the attendees. Overall, the workshop left a lasting impact, empowering the participants to embrace and contribute to the ever-evolving field of mathematical research.





**MAR THOMA COLLEGE FOR WOMEN,
PERUMBAVOOR**

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

Department of Mathematics
Two days Workshop on

RECENT TRENDS IN MATHEMATICAL RESEARCH

Resourse Person,
Dr.Gigi George

Dates: 04/12/2019 &
05/12/2019
Venue: Room No. 114
Time: 9:30AM



Dr.Gigi George
Associate Professor,
Department of Mathematics

Figure 4: Brochure of the Workshop



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



3D Printing of Metallic Materials

Programme	3D Printing of Metallic Materials
Organizer	Physics
Resource Person	Prof. Dr. K G Prashanth, Head of the Department of Mechanical and Industrial Engineering at Tallinn, Estonia
Date and Year	28/5/2020
Platform	Google Meet
Duration	10 am to 12 pm
Beneficiaries	45
Objectives	<ul style="list-style-type: none"> • To provide the students an insight into the importance of 3D printing in the industries • To study the application of 3D printing in metallic materials • To learn about the accuracy of 3D printing
Outcome	<ul style="list-style-type: none"> • The students gained knowledge about tricks on optimizing the 3D printing process and methods to improve the accuracy of the parts and components

Report

The seminar on 3D printing of metallic materials was conducted by Prof. Dr. Ing K G Prashanth, Head of the Department of Mechanical and Industrial



Engineering at Tallinn, Estonia. The seminar focused on the various aspects of 3D printing and its applications to metallic materials.

Prof. Prashanth discussed the basics of 3D printing in detail and explained how it works. He also discussed the various types of 3D printing, such as fused deposition modeling (FDM), selective laser sintering (SLS), and direct metal laser sintering (DMLS). The professor also shared his experience in 3D printing of metallic materials. He discussed the various challenges faced while designing and printing complex parts and components in metal.

He also shared various tips and tricks on optimizing the 3D printing process and methods to improve the accuracy of the parts and components. Prof. Prashanth also discussed the various applications of 3D printing in the automotive, aerospace and medical industries. He highlighted the importance of 3D printing in these industries. He also discussed the potential of 3D printing in revolutionizing manufacturing processes and creating new possibilities. At the end of the seminar, Prof. Prashanth answered various questions posed by the participants. The seminar was very informative and was a great learning experience for the participants.



**MAR THOMA COLLEGE FOR WOMEN
PERUMBAVOOR**

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

IQAC & DEPT. OF PHYSICS
PRESENTS

RESEARCH METHODOLOGY SEMINAR
(Online)
International Seminar Series 1

**TOPIC : 3D PRINTING OF METALLIC
MATERIALS**



Resource Person : Prof. Dr. Ing. K. G. Prashanth
Prof. and Head of Additive Manufacturing Laboratory
Dept. of Mechanical and Industrial Engineering
Tallinn, Estonia

**28 MAY 2020
10 AM**

For more details, contact
Dr. Anupama P, Mob : 8086790321

Figure 5: Brochure of the Programme



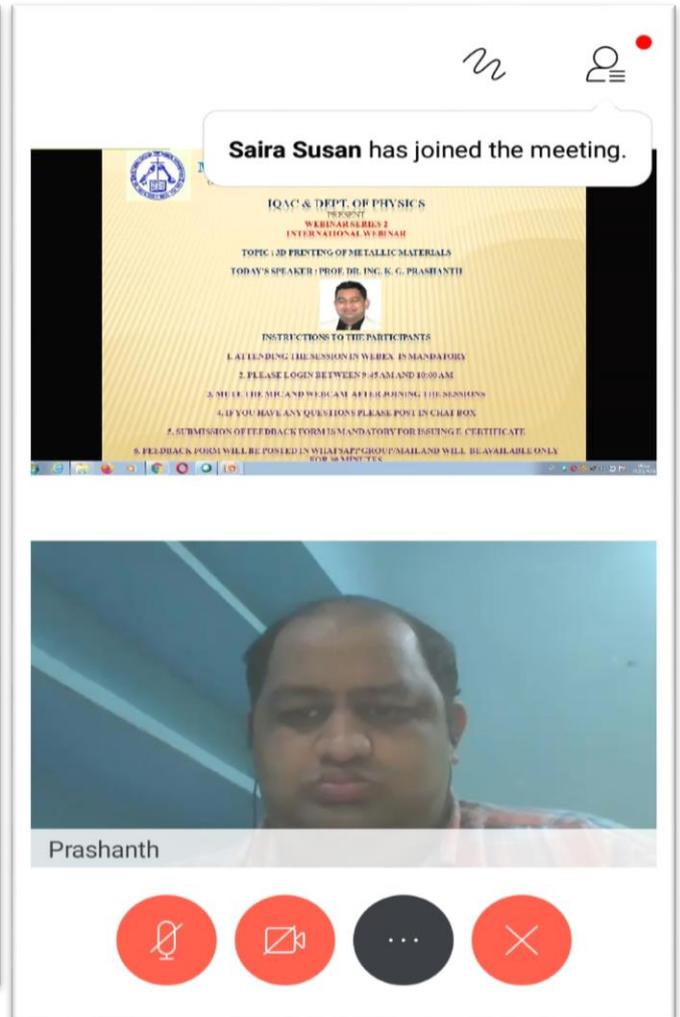
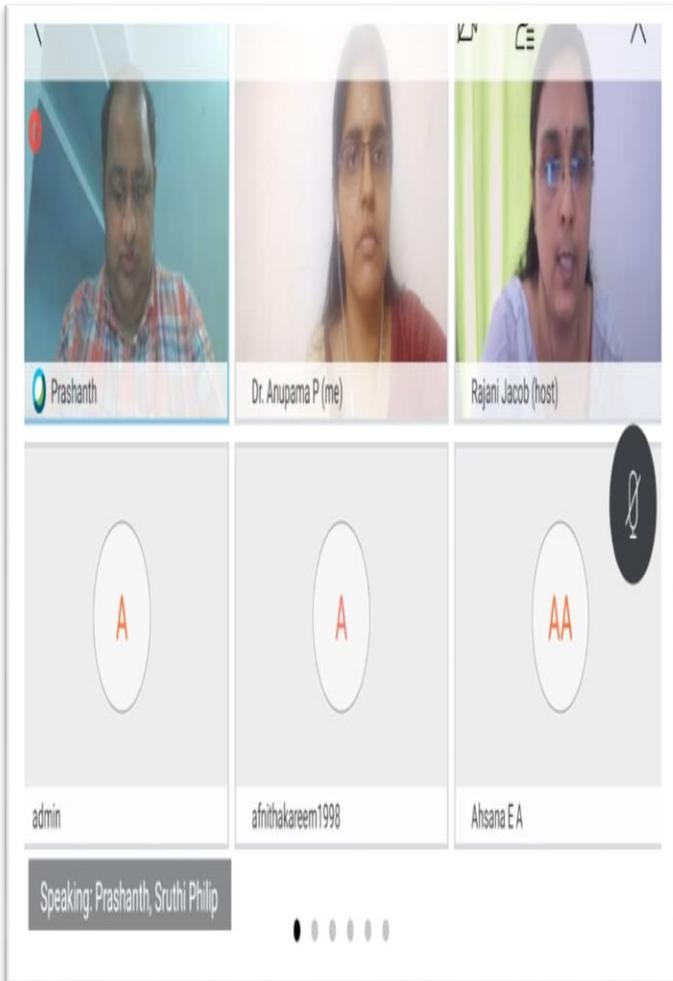


Figure 2 & 3: Screen Shots of the Programme



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



Material Simulations

Programme	Material Simulations
Organizer	Physics
Resource Person	Dr. Binit Lukose, Associate Editor, John Wiley and Sons, Hoboken, Nj, USA
Date and Year	27/5/2020
Platform	Google Meet
Duration	9 am to 11 am
Beneficiaries	45
Objectives	<ul style="list-style-type: none"> • To provide valuable insight in to material simulations • To use the simulation software with caution in order to avoid any mistakes • To reduce time taken to conduct experiments
Outcome	<ul style="list-style-type: none"> • The students got valuable insight into the research methodology in material simulations

Report

The seminar was organised by IQAC (Institute Quality Assurance Cell) and the Department of Physics on 27 May 2020 at 9 am. In the seminar, Dr. Lukose discussed the various methods used in material simulations. He



highlighted the importance of using simulations in research and how it can help to reduce the time taken to conduct experiments.

He also discussed the various techniques used in material simulations such as finite element method, Monte Carlo method, molecular dynamics method and finite difference method. Dr. Lukose shared his experience of working on various projects and the challenges faced in material simulations. He stressed on the need for researchers to have a clear understanding of the concepts in order to be successful in this field. He also mentioned the importance of choosing the right tools and software for material simulations. He concluded the seminar by giving some useful tips for researchers. He advised them to read and understand the concepts properly and to use the simulation software with caution in order to avoid any mistakes. He also suggested that researchers should always keep in mind the objectives of the simulation before beginning the work.

Overall, the seminar was very informative and provided valuable insight into the research methodology in material simulations. The participants appreciated the knowledge shared by Dr. Lukose and thanked him for the same.





**MAR THOMA COLLEGE FOR WOMEN
PERUMBAVOOR**

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

**IQAC & DEPT. OF PHYSICS
PRESENT**

**Research Methodology Seminar
(online)**

International Seminar Series 1

Topic: Material Simulations



Resource Person : Dr. Binit Lukose
Associate Editor
John Wiley & Sons
Hoboken, NJ, USA

Registration Link : <https://forms.gle/MR9sokPMunV1LeS19>

**27 MAY 2020
9 AM**

For more details, contact
Dr. Anupama P, Mob : 8086790321

Figure 6: Brochure of the Programme



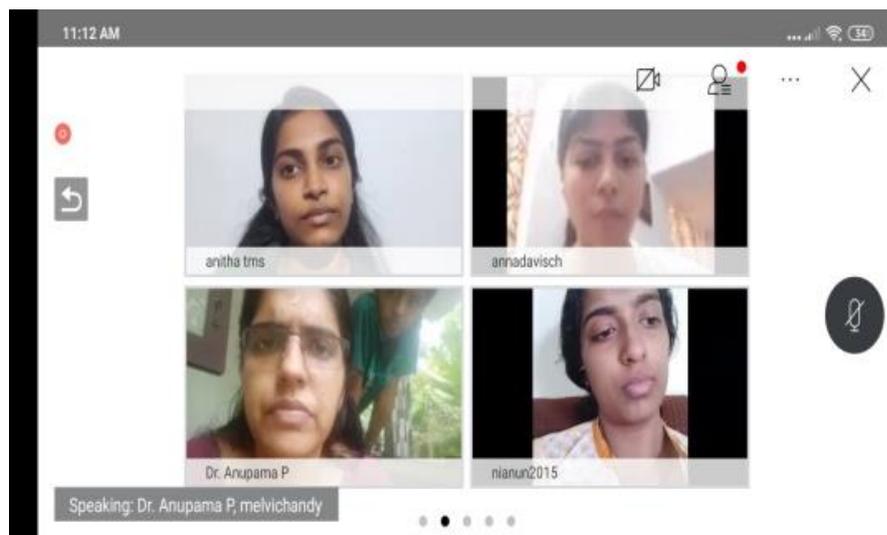


Figure 2: Screen Shot of the Programme

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



Recent Research Trends in Material Science

Programme	Recent Research Trends in Material Science
Organizer	Physics
Resource Person	Dr. Anju Paulose, Lecturer, St. Theresa's College, Ernakulam
Date and Year	18/2/2020
Venue	PG Seminar hall
Duration	10.00 am to 12.00 pm
Beneficiaries	45
Objectives	<ul style="list-style-type: none"> • To learn the applications of nanotechnology, biomaterials, and renewable energy materials • To provide valuable insights in to the material science and its potential impact • To provide scientific temper among the students
Outcome	<ul style="list-style-type: none"> • The talk enabled the students to pursue scientific research and innovation

Report

The Department of Physics at Mar Thoma College for Women, Perumbavoor, organized a series of events to celebrate National Science Day on 18th February 2020. The main highlight of the event was a lecture by Dr. Anju Paulose from St. Theresa's College, Ernakulam, who delivered a fascinating presentation on "Recent Research Trends in Material Science". The event began



with an inaugural ceremony, where the department head, faculty members, and students were present. The chief guest, Dr. Anju Paulose, was warmly welcomed and introduced to the audience. The program commenced with the lighting of the lamp, followed by an opening address by the department head, highlighting the importance of National Science Day and the significance of promoting scientific temper among students.

Dr. Anju Paulose, an esteemed lecturer known for her expertise in Material Science, then took the stage to deliver her lecture. She captivated the audience with her profound knowledge and engaging presentation style. Dr. Paulose provided an overview of the recent advancements and emerging research trends in the field of Material Science. She discussed the applications of nanotechnology, biomaterials, and renewable energy materials. Her talk highlighted the importance of interdisciplinary collaboration and the potential of material science in solving various global challenges. The lecture was followed by an interactive session, during which the students enthusiastically posed questions to Dr. Paulose. She patiently addressed their queries and provided valuable insights into the practical aspects of material science research. The students greatly appreciated her efforts to simplify complex concepts and make them accessible to everyone.

The Science Day celebrations at Mar Thoma College for Women, Perumbavoor, were successful in fostering scientific curiosity and promoting a deeper understanding of the latest developments in Material Science. The event concluded with a vote of thanks to Dr. Anju Paulose for her enlightening lecture and to all the participants for their active involvement.

Overall, the Science Day celebrations served as a platform for students and faculty members to gain valuable insights into the fascinating world of



Material Science and its potential impact on various sectors. The event successfully fulfilled its objective of inspiring young minds and encouraging them to pursue scientific research and innovation. The Department of Physics at Mar Thoma College for Women, Perumbavoor, expresses its gratitude to Dr. Anju Paulose for sharing her knowledge and expertise, making the Science Day celebrations a resounding success. The department looks forward to organizing similar events in the future to continue promoting scientific awareness and nurturing the spirit of inquiry among students.



Figure 2: Photo of the Lecture





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	Annmaryia 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
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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



Scientific Temper

Programme	Scientific Temper
Organizer	Physics
Resource Person	Prof. (Dr.) Babu Joseph, former Vice Chancellor, Cochin University of Science and Technology (CUSAT)
Date and Year	17/2/2020
Venue	PG Seminar hall
Duration	10.00 am to 12.00 pm
Beneficiaries	50
Objectives	<ul style="list-style-type: none"> • To foster scientific temper among students • To promote awareness about the importance of science in our daily lives • To understand the importance of Science Day
Outcome	<ul style="list-style-type: none"> • The students achieved scientific curiosity, critical thinking, and a passion for scientific exploration

Report

The Department of Physics at Mar Thoma College for Women, Perumbavoor, organized a grand celebration to mark National Science Day on 17 February 2020. The event aimed to foster scientific temper among students and raise awareness about the importance of science in our daily lives. The celebration featured a distinguished resource person, Professor (Dr.) Babu Joseph, former Vice Chancellor of Cochin University of Science and Technology (CUSAT).



The event commenced at 9:00 AM with an inaugural session in the college auditorium. The faculty members, students, and other participants enthusiastically gathered to witness the enlightening session. The program was inaugurated by the college principal, followed by a welcome address delivered by the Head of the Physics Department, highlighting the significance of National Science Day.

Professor (Dr.) Babu Joseph, the esteemed resource person, took the stage and delivered a captivating lecture on the theme of “Scientific Temper”. His talk focused on cultivating a scientific mindset, critical thinking, and the role of scientific inquiry in our society. Dr. Joseph emphasized the need to question, investigate, and analyze scientific claims to promote a rational and evidence-based approach towards understanding the world around us. He shared inspiring examples from his own research and experience, engaging the audience with real-life applications of scientific principles.

The session continued with an interactive question-and-answer session, where students eagerly participated, seeking clarifications and further insights on various scientific concepts. Dr. Joseph's expertise and deep knowledge in the field of science provided invaluable guidance and inspiration to the aspiring young scientists.

After the lecture, an open forum was organized, allowing students to showcase their scientific projects and research work. The event created an atmosphere of enthusiasm and curiosity, with students presenting their innovative ideas and discoveries. The projects covered a wide range of scientific disciplines, including physics, chemistry, biology, and environmental science. The celebration concluded with a vote of thanks delivered by a student representative, expressing gratitude to Professor (Dr.) Babu Joseph for his



informative and motivational session. The students and faculty members appreciated his valuable contribution to the event and acknowledged the significance of promoting scientific temper among the youth.

The National Science Day celebrations at Mar Thoma College for Women, Perumbavoor, were a resounding success. The event effectively fostered scientific curiosity, critical thinking, and a passion for scientific exploration among the participants. The engagement and enthusiasm exhibited by the students showcased their dedication towards embracing the scientific spirit. The Department of Physics, along with the college administration, expressed their gratitude to Professor (Dr.) Babu Joseph for his enlightening presence and invaluable contribution to the event.

The celebration served as a reminder of the endless possibilities that scientific knowledge holds and motivated the attendees to pursue their scientific aspirations with zeal and dedication. Overall, the National Science Day celebrations at Mar Thoma College for Women, Perumbavoor, were a testament to the institution's commitment to promoting scientific education and cultivating a scientific temper among its students. The event successfully inspired young minds and fostered a deeper appreciation for the wonders of science in our society.





Figure 2: Photograph 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
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	Afrin M K
47	Anna Davis
48	Farzana Ashraf
49	Durga Gopan
50	Fathima Shiril

