



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

2018-2019



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	Synthesis of Nanomaterials	Research Methodology	50	Physics	15/11/2018 - 16/11/2018	4
2	Emerging Perspectives in History and Archaeology	Research Methodology	35	History	06/02/2019	11
3	Applications of Random Matrix Theory in Modern Statistical and Machine Learning Research	Research Methodology	111	Mathematics	2/8/2019	14
4	Significance of Literature Review in Research	Research Methodology	22	Zoology	02/08/2018	23
5	Research Paper Writing	Research Methodology	22	Zoology	15/06/2018-16/06/2018	27
6	Identification of Research Gap	Research Methodology	32	Commerce (Computer Application)	3/8/2018	32

S. J. Varghese
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***



Synthesis of Nanomaterials

Title of the Programme	Synthesis of Nanomaterials
Organizing Department	Physics
Resource Person	Dr. Thaivasanthi, Kalasalingam University
Date and Year	15/11/2018 to 16/11/2018
Venue	PG Seminar Hall
Duration	10 am to 3.00 pm
Number of Participants	50
Objectives	<ul style="list-style-type: none"> • To study the characterization techniques used to analyze the synthesized nanomaterials • To provide practical skills related to the synthesis of nanomaterials • To gain knowledge on the practical application of nanomaterials in different fields
Outcome	<ul style="list-style-type: none"> • The participants gained valuable insights into the theoretical concepts and practical aspects of nano materials synthesis



Report

The Zonal Center Training Program on the topic "Synthesis of Nano Materials" was organized in association with ECell (IIT Kharagpur Event) at Marthoma College For Women in Perumbavoor, Kerala. The workshop aimed to provide participants with knowledge and practical skills related to the synthesis of nano materials. Dr. Thaivasanthi from Kalasalingam University served as the resource person for the program, while Dr. Anupama P. coordinated the event.

The workshop spanned two days, taking place on the 15th and 16th of November 2018. The participants consisted of students and faculty members from Mar Thoma College for Women and other educational institutions in the region. The first day of the workshop commenced with a warm welcome by Dr. Anupama P., the coordinator of the event. She introduced the resource person, Dr. Thaivasanthi, and highlighted her expertise in the field of nano materials synthesis. Dr. Thaivasanthi started the session by providing an overview of nano materials and their applications in various fields.

The subsequent sessions focused on the different methods of synthesis, including physical and chemical methods. Dr. Thaivasanthi elaborated on the principles and techniques involved in each method, emphasizing their significance in obtaining desired nano materials properties. She also discussed the characterization techniques used to analyze the synthesized nano materials. On the second day, the workshop delved deeper into the practical aspects of nano materials synthesis. Dr. Thaivasanthi conducted hands-on sessions, allowing participants to gain practical experience in the synthesis process. The participants actively engaged in the synthesis procedures under the guidance of the resource

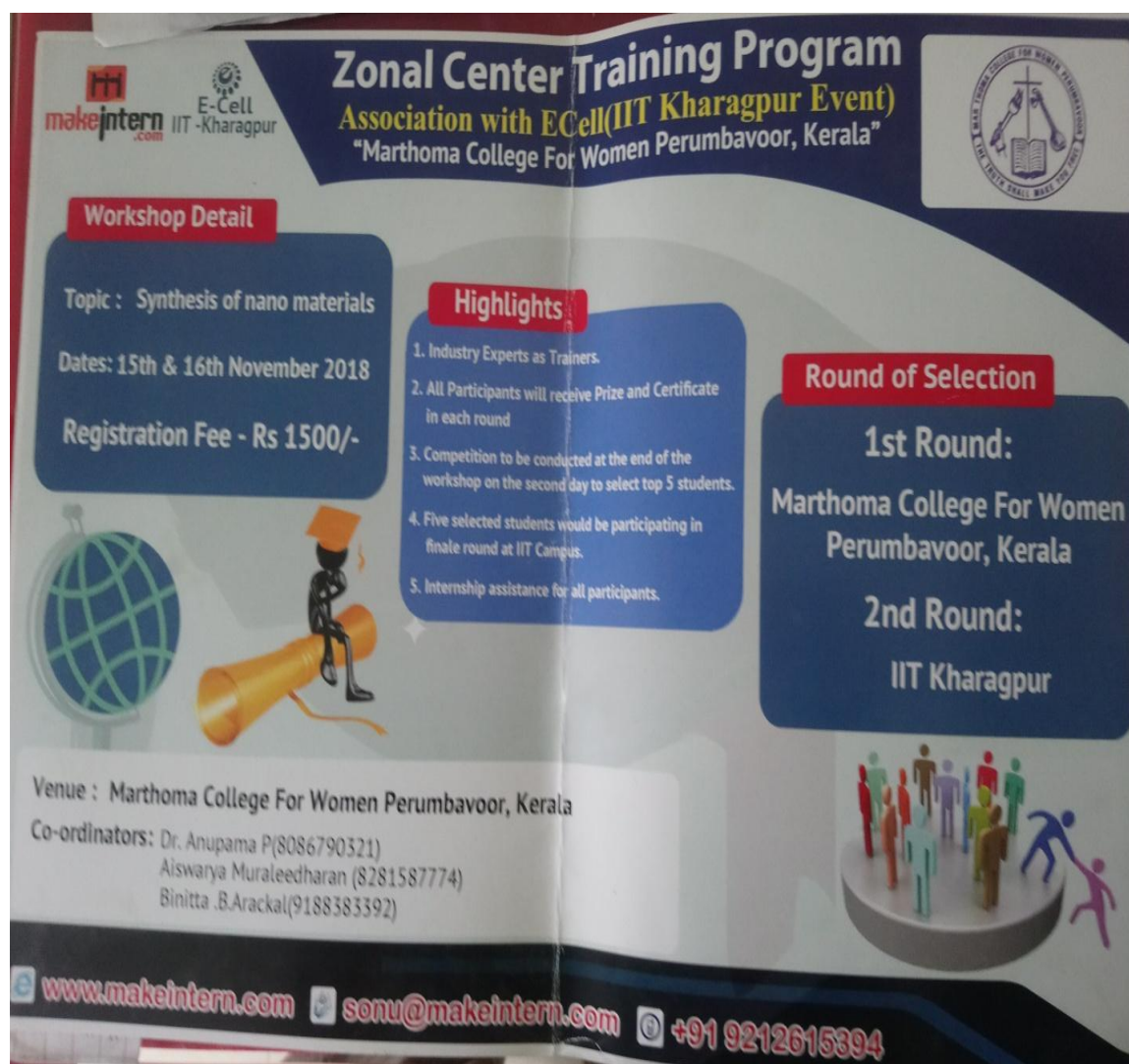


person.

Furthermore, Dr. Thaivasanthi shared her research experiences and presented case studies showcasing the applications of nano materials in various fields, such as medicine, electronics, and energy storage. The Zonal Center Training Program on the synthesis of nano materials was a highly informative and interactive workshop. The participants gained valuable insights into the theoretical concepts and practical aspects of nano materials synthesis. Dr. Thaivasanthi's expertise and guidance were instrumental in providing a comprehensive understanding of the subject.

To further extend the impact of this workshop, it is recommended to organize follow-up sessions or advanced workshops on advanced characterization techniques, specific applications of nano materials, and emerging trends in the field. Additionally, promoting research and development activities related to nano materials synthesis within the college and the region would be beneficial. Overall, the Zonal Center Training Program was a commendable initiative, equipping the participants with valuable knowledge and practical skills in the synthesis of nano materials






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Zonal Center Training Program

Association with ECell(IIT Kharagpur Event)
"Marthoma College For Women Perumbavoor, Kerala"




Workshop Detail

Topic : Synthesis of nano materials

Dates: 15th & 16th November 2018

Registration Fee - Rs 1500/-




Highlights

1. Industry Experts as Trainers.
2. All Participants will receive Prize and Certificate in each round
3. Competition to be conducted at the end of the workshop on the second day to select top 5 students.
4. Five selected students would be participating in finale round at IIT Campus.
5. Internship assistance for all participants.

Round of Selection

1st Round:
Marthoma College For Women
Perumbavoor, Kerala

2nd Round:
IIT Kharagpur



Venue : Marthoma College For Women Perumbavoor, Kerala

Co-ordinators: Dr. Anupama P(8086790321)
Aiswarya Muraleedharan (8281587774)
Binitta .B.Arackal(9188383392)

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Figure 1: Brochure





Figure2: Presenting Memento to Dr. Thaivasanthi



Figure3: Certificate Distribution



List of Participants

Sl. No	Name of the student
1	Jiya Eldho
2	Megha Manoj
3	Nimmy Joseph
4	Ginisha Mol C S
5	Afna Jaffer
6	Merin Joy
7	Bhagyalakshmi Unnikrishnan
8	Blessy Mathew
9	Keerthana Shaji
10	Jifna Varghese
11	Jeena Johny
12	Aswathi Sasi
13	Greeshma Eldho
14	Sreelakshmi S
15	Aarya H Kartha
16	Sandra Krishna
17	Jaseela K S
18	Shifana E S
19	Saira Abraham
20	Beemamol M H
21	Aiswarya Muraleedharan
22	Arathy Sukumar
23	Ammu Babu
24	Anjana K S
25	Anupama Ravikumar
26	Anju T M
27	Remya Sathyan
28	Binitta B Arackal



29	Afnitha Kareem
29	Ameera Rasheed
30	Bintu Maria Paul
31	Ancy Mary Sunil
32	Akshaya Sathyan
33	Aarya H Kartha
34	Sandra Krishna
35	Linta Jose
36	Aneeja George
37	Arya Sivan
38	AnnMariya Philip
39	Aksa Jose
40	Arsha S Kumar
41	Jinu John
42	Jeny Rose Job
43	Varsha M Vijay
44	Haseena
45	Devika
46	Kishnendu
47	Anjana Ajith
48	Niya Merrin Mathew
49	Dona Mariam Roy
50	Prasthutha Pavithran



Emerging Perspectives in History and Archaeology

Title of the Programme	Emerging Perspectives in History and Archaeology
Organizing Department	History
Resource Person	Prof. P J Cherian, Director, Institute of Trans Disciplinary Archaeology Science and Former Director, KCHR, Trivandrum)
Date and Year	06/02/2019
Venue	Seminar Hall
Duration	10.00 am to 12.00 pm 2 Hours
Number of Participants	35
Objectives	<ul style="list-style-type: none"> • To make students aware about the divergent perspectives in the field of History and Archaeology • To understand different perspectives in history and archaeology • To gain practical knowledge on field surveys
Outcome	<ul style="list-style-type: none"> • Students were equipped to do research in the new fields of Archaeology and History




Report

The Department of History of Marthoma College for Women, Perumbavoor organized a workshop on “Emerging Perspectives in History and Archaeology” on 2nd August 2019 at the college auditorium. The workshop was conducted by PJ Cheriyan, Director, Kerala Council for Historical Research (KCHR).

The workshop was attended by more than 50 students and faculty members of the college. PJ Cheriyan opened the workshop by giving an overview of the current trends in the field of history and archaeology. He highlighted the importance of understanding the past, the present and the future in order to gain a better appreciation of the world around us. He then discussed the various aspects of history and archaeology, such as the importance of source material, the nature of data collection, the application of archaeological methods, and the need for proper research methodology. He also provided an insight into the various new methods and techniques being employed in the field of history and archaeology. The workshop was followed by an interactive session between the students and the speaker. The participants asked questions and discussed the various topics related to history and archaeology.

They also discussed the challenges faced by the students in their research and the need for proper guidance and mentoring. At the end of the workshop, PJ Cheriyan gave some useful tips to the students and faculty members for their future research and studies. The workshop was a great success and was highly appreciated by the participants. It has helped the participants to gain a better understanding of the various aspects of history and archaeology.






**MAR THOMA COLLEGE FOR WOMEN
PERUMBAVOOR**

**Seminar on : EMERGING PERSPECTIVES IN HISTORY
AND ARCHAEOLOGY**

organised by

Department of History and archaeology



**Prof. PJ Cherian (Director,
Institute of Trans disciplinary
Archaeology Science,
Former KCHR TVM)**

**Date : 6/2/2019
Time : 10:30 am**

VENUE : P.G.SEMINAR HALL

Figure 2: Brochure





Figure 2: Students attending the programme

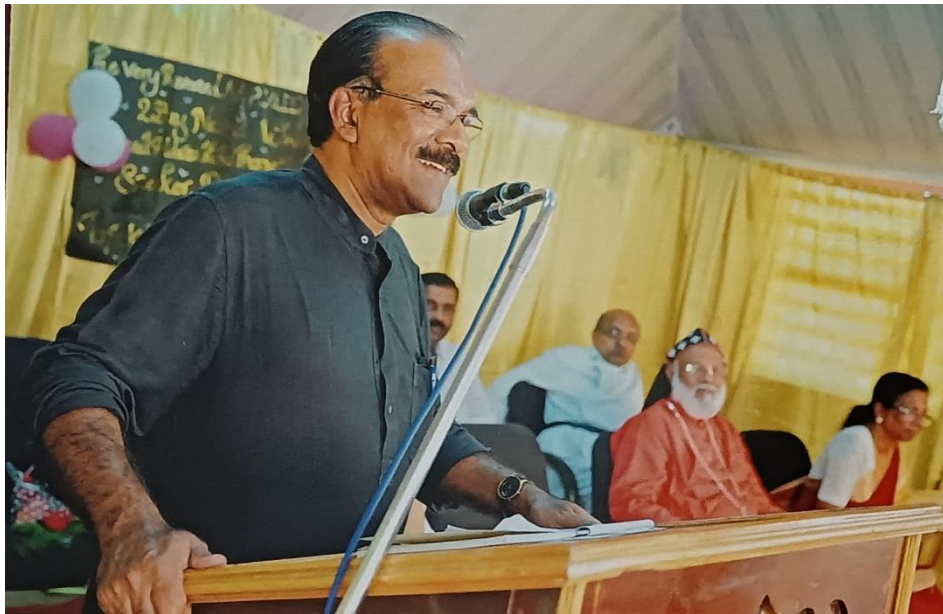


Figure 3: Prof. P. J Cheriyan delivering the talk



Applications of Random Matrix Theory in Modern Statistical and Machine Learning Research

Title of the Programme	Applications of Random Matrix Theory in Modern Statistical and Machine Learning Research
Organizing Department	Mathematics
Resource Person	Dr. Sandhya E, Associate Professor, Prajyoti Niketan College, Pudukkad
Date and Year	2/8/2019
Venue	Conference Hall
Duration	10.30 am to 12.30 pm
Number of Participants	111
Objectives	<ul style="list-style-type: none"> • To generate knowledge on analyzing large data sets • To develop new machine learning algorithms • To extract meaningful information from noisy data



Outcome

- This seminar helped the students to understand and scrutinize the various data analysis in their study

Report

The Department of Mathematics organized a seminar on "Applications of Random Matrix Theory in Modern Statistical and Machine Learning Research" by Dr. Sandhya E, Associate Professor, Prajyoti Niketan College, Pudukkad, on 2nd August 2019 at 10.30 am. The seminar focused on the applications of random matrix theory in modern statistical and machine learning research and its importance in data analysis. Dr. Sandhya E began the seminar by introducing the concept of random matrix theory and its relevance in modern data analysis. She discussed how random matrix theory provides a framework for analyzing large datasets and how it can be used to extract meaningful information from noisy data.

Dr. Sandhya E then discussed the applications of random matrix theory in statistical and machine learning research. She explained how random matrix theory can be used to model and analyze complex data structures, such as networks and time-series data, and how it can be used to develop new machine learning algorithms. Dr. Sandhya E also discussed the challenges facing the use of random matrix theory in data analysis, including the need for robust statistical methods and the need to account for non-random structures in data.

In conclusion, Dr. Sandhya E emphasized the importance of random matrix theory in modern statistical and machine learning research and its potential for advancing our understanding of complex datasets. She encouraged researchers to continue exploring the applications of random matrix theory and



to develop new methods for analyzing and interpreting data. The seminar was informative and provided valuable insights into the applications of random matrix theory in data analysis.





MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

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

PG DEPARTMENT OF MATHEMATICS

Mathematics Association [2019-20] Inauguration & Seminar on "Applications of Random Matrix Theory in Modern Statistical and Machine Learning Research"



RESOURCE PERSON
DR. SANDHYA E.
ASSOCIATE PROFESSOR,
PRAJYOTI NIKETAN COLLEGE, PUDUKKAD.

2 AUGUST 2019
FRIDAY
@ CONFERENCE HALL
TIME: 10.30 AM

CONVENORS:

Dr. Gigi George (HoD)

Ms. Emilda Sebastian (Association-in-charge)

Ms. Ramlath C P (Association Secretary)

Figure 1: Brochure 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



Significance of Literature Review in Research

Title of the Programme	Significance of Literature Review in Research
Organizing Department	Zoology
Resource Person	Ms. Neeraja M B, Alumni, Dept of Zoology, CSIR_JRF
Date and Year	2/8/2018
Venue	Room no.208
Duration	11 am
Number of Participants	22
Objectives	<ul style="list-style-type: none"> • To know the best practices for conducting a literature review • To understand different kinds of literature review and its application • To learn the appropriate literature review in different research context
Outcome	<ul style="list-style-type: none"> • The student displayed understanding in various Literature reviews such as narrative literature review, systematic literature review, meta-analysis, scoping review etc



Report

A research oriented session titled “Significance of Literature Review in Research” was conducted exclusively for final year Students of BSC Zoology on 2 August 2018, 22 students were participated in this session. The session handled by Ms. Neeraja M B, Alumni of Dept of Zoology. A literature review is a critical component of any research project, providing a comprehensive understanding of the current state of knowledge, identifying gaps in research, discusses its purposes, explores the types of literature reviews, and highlights best practices for conducting a literature review.

Purpose of literature review includes identifying gaps in research, establishing the context, informing research design, identifying research questions, supporting arguments, etc. Literature review includes narrative literature review, systematic literature review, meta-analysis, scoping review etc. Literature review is a vital component of research, by employing appropriate literature review techniques, conducting a comprehensive search and critically evaluating the literature. The researchers can ensure the validity, reliability, and relevance of their research.



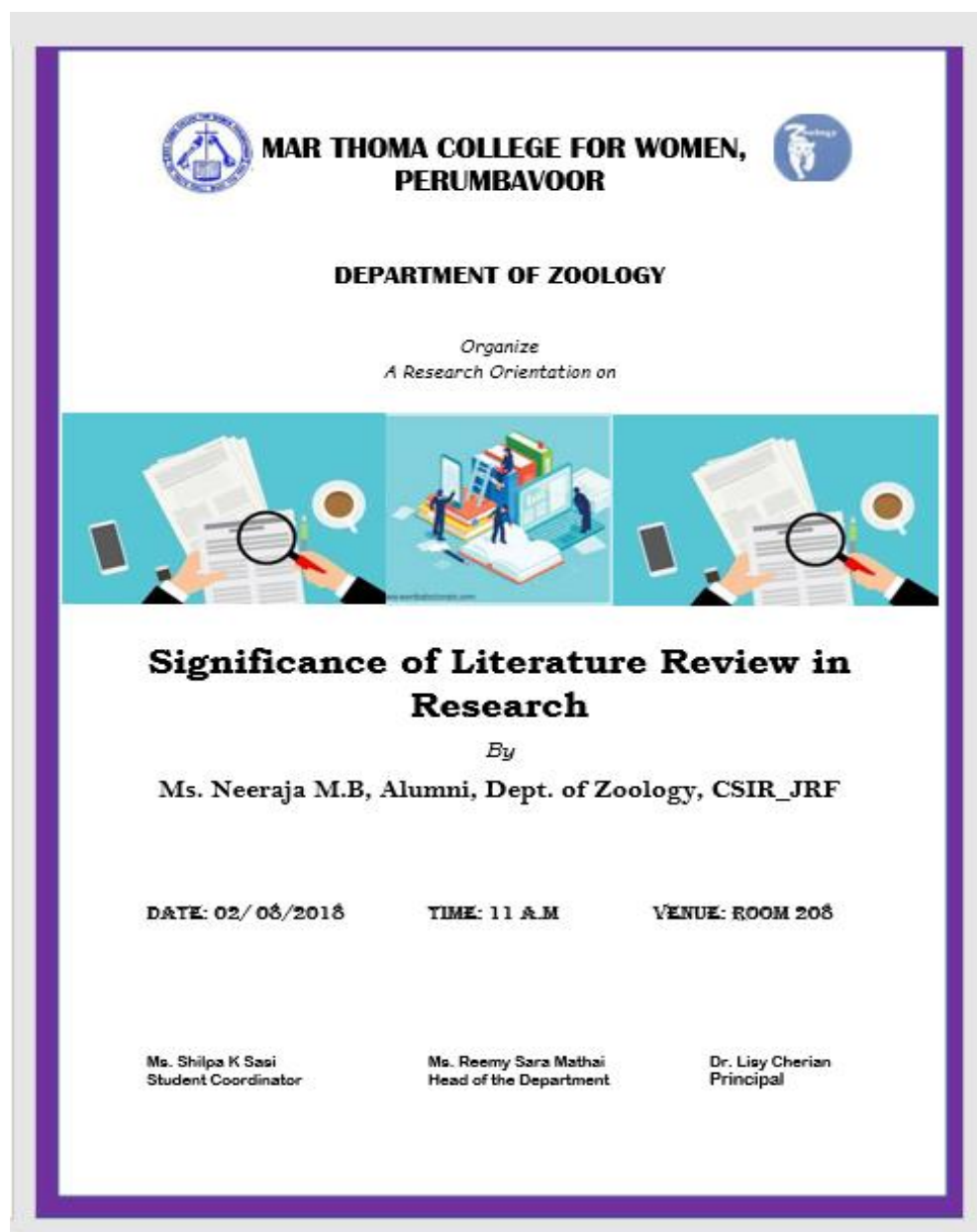


Figure 1: Brochure of the Programme



List of Participants

Sl. No	Name of the Student
1	Anaswara Sajeew
2	Aparna P M
3	Devika Viju
4	Farzana Abdul Kalam
5	Ruksana K A
6	Shabana Nazrin T M
7	Amaya M V
8	Anjana Anil
9	Anjana Ravindran
10	Anju N Mathew
11	Anu C Gopi
12	Anulakshmi K S
13	Bijimol Mathew
14	Fathimabeevi P J
15	Haritha S
16	Jeena A J
17	Jomol Jose
18	Khowlath M U
19	Rizvana Sakeer
20	Sandra K S
21	Sherin K Raju
22	Shilpa K Sasi



Research Paper Writing

Title of the Programme	Research Paper Writing
Organizing Department	Zoology
Resource Person	Ms. Sunu N V, Assistant Professor, Mar Thoma College for Women, Perumbavoor
Date and Year	15/06/2018- 16/06/2018
Venue	P G Seminar Hall
Duration	Two days
Number of Participants	22
Objectives	<ul style="list-style-type: none"> • To Understand the basic process of research paper writing • To improve and learn different referencing and writing styles followed in research • To overcome the challenges in research paper writing such as selection and narrowing the theme etc.
Outcome	<ul style="list-style-type: none"> • Students were able to write a research paper in proper methodological framework



Report

The Zoology department conducted a two day workshop on the topic “Research Paper Writing” On 15-16 June 2018 in which 22 students from final year MSc Zoology were participated. Ms. Sunu N V, Assistant Professor, Mar Thoma College for Women, Perumbavoor was the resource person. The purpose of this study was to investigate the current practices and challenges faced by students and researchers when writing research papers in the field of zoology. The study involved a survey of 100 students and researchers, as well as interviews with 10 experts in the field.

The findings of the study indicate that while most students and researchers are familiar with the basic principles of research paper writing, they face several challenges in the process. The study recommends that students and researchers be provided with more training and resources to improve their writing skills. Research paper writing is an essential skill for students and researchers in the field of zoology. The ability to write clear, concise, and well-organized research papers is critical to communicating scientific findings and advancing knowledge in the field. However, writing research papers can be a challenging and time-consuming task. The purpose of this study was to investigate the current practices and challenges faced by students and researchers when writing research papers in the field of zoology.

The results of the survey indicate that most students and researchers are familiar with the basic principles of research paper writing, such as the importance of clear and concise writing, proper citation and referencing, and adherence to formatting guidelines. However, many participants reported facing several



challenges in the process, including difficulty in selecting and narrowing down a research topic, organizing and structuring the paper, and writing clearly and concisely. In conclusion, the study found that while most students and researchers in the Department of Zoology are familiar with the basic principles of research paper writing, they face several challenges in the process. The study recommends that students and researchers be provided with more training and resources to improve their writing skills, as well as support and feedback from advisors and peers. By addressing these challenges, students and researchers can improve the quality and effectiveness of their research papers and contribute to advancing knowledge in the field of zoology.



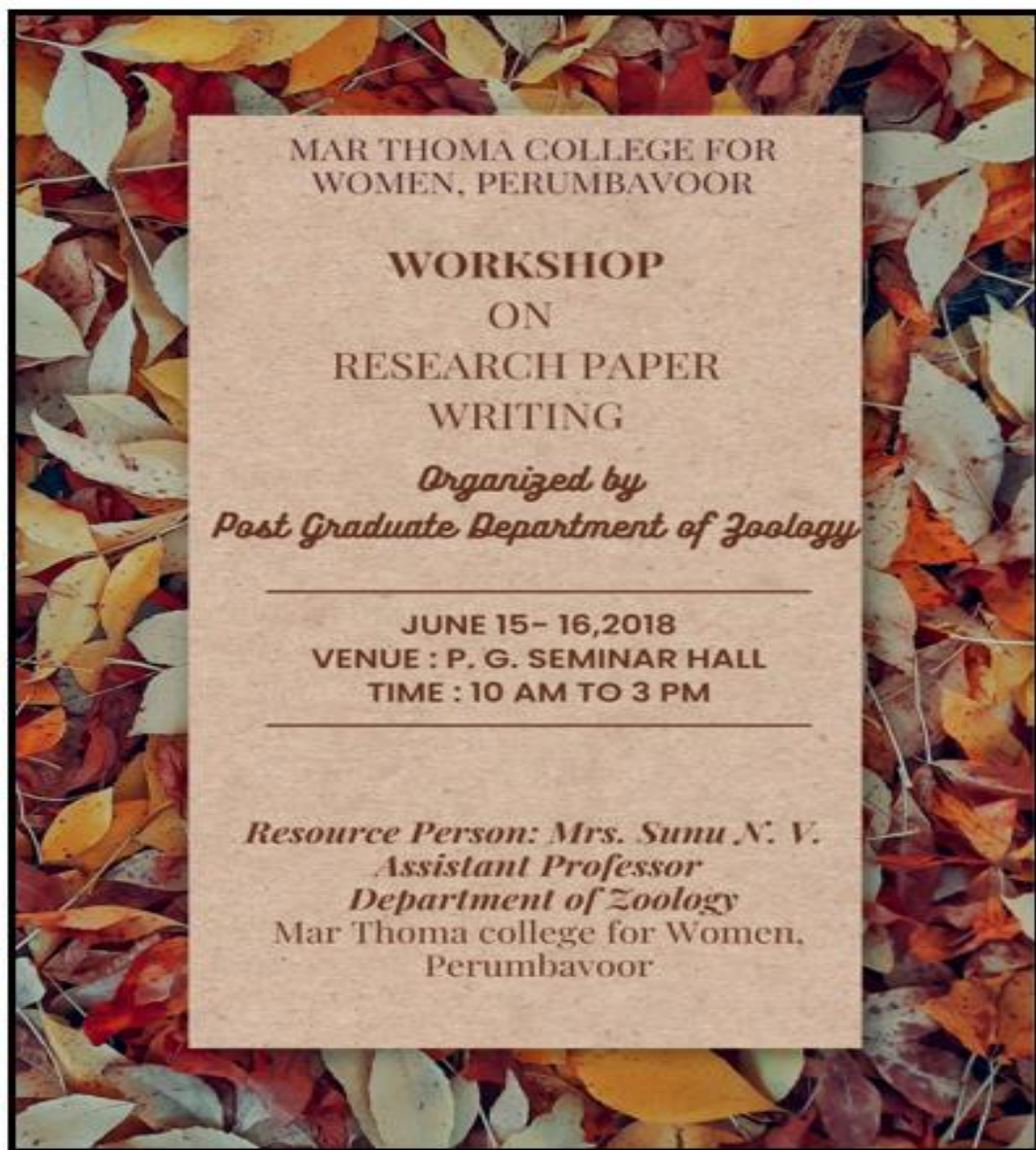


Figure 1: Brochure of the Programme



List of Participants

Sl. No	Name of the Student
1	Anigha Antony
2	Anjitha V R
3	Anna P Devassy
4	Aparna P
5	Arshana K Nazer
6	Arya K B
7	Athulya Radhakrishnan
8	Gayathri S
9	Gopika Prathap
10	Haritha K S
11	Jissmol K D
12	Krishna Ashokan
13	Krishnendhu K s
14	Neethumol Varkey
15	Ranju Raju
16	Reshma M R
17	Saliha P A
18	Salphy Thonnikkallu Adam
19	Shamitha Pankaj
20	Sherina K Y
21	Shilpa K S
22	Vismaya P R



Identification of Research Gap

Title of the Programme	Identification of Research Gap
Organizing Department	Commerce (Computer Application)
Resource Person	Ms. Neeraja TS, Research Scholar, St. Xaviers College Aluva
Date and Year	3/8/2018
Venue	
Duration	10.30 a.m to 12.00 pm
Number of Participants	32
Objectives	<ul style="list-style-type: none"> • To study importance of research gap analysis in the research process • To enable the students to formulate research objectives • To develop research skills and aptitude among the students
Outcome	<ul style="list-style-type: none"> • The students were able to apply skills learnt during the seminar in their research projects

Report

Seminar on “Identification of Research Gap” was conducted by Dept of Commerce on 3rd August 2018 at 10.30 am at the Commerce Classroom. Ms



Neeraja T S of St. Xavier's College, Aluva was the chief resource person. The seminar was attended by the Principal Dr. Lisy Cheriyan, Head of the department Mrs. Saritha Nair and various research scholars from various departments.

Ms Neeraja T S started the seminar by giving a brief introduction about the importance of identification of research gap, its relevance to the research scholars and the various methods used for identification. She also discussed about the various techniques and tools used for the purpose. She further went on to explain the importance of research gap analysis in the research process and how it can help in the formulation of better research objectives.

At the end of the seminar, the participants asked various questions related to the topic and Ms. Neeraja provided detailed answers to each of them. The seminar was concluded by the Principal Dr. Lisy Cheriyan who thanked Ms Neeraja and the other participants for their valuable contribution and also encouraged the participants to apply the knowledge and skills learnt during the seminar in their research projects.





Figure 1: Brochure of the Programme





Figure 3: picture of the event

List of Participants

Sl. No	Name of the student
1	AMALU .D. JOHN
2	AMRUTHA .M. BALAN
3	ANJALY PRAKASH
4	ARCHANA SHAJI
5	ASWATHY JAYARAM
6	ASWINI K.P
7	BASIMA M.B
8	CHAITHRA SREEVALSAN
9	CHRISTY .K.STANLY
10	DEVIKA JAYAN
11	FATHIMA N.J
12	GREESHMA T.A
13	HARIPRIYA N
14	JEENA JOSE



15	KAFILA ALI
16	RILBA MERIN PAUL
17	SANJU VIJAYAKUMAR
18	SHALU S
19	SHILPA BABU
20	SURUMI E.S
21	SUSAN PRASAD
22	T.J VISHNUPRIYA
23	ANN MERIN BABY
24	ANNAM A.D
25	ANURADHA K
26	ATHIRA R
27	DHANUSREE VIJAI
28	KRISHNA RAJ M.S
29	MEENU THOMAS
30	NEBHA AFSAL
31	RIYA MATHEW
32	ROSEMOL .K.PAUL

