

MANNAM MEMORIAL NSS COLLEGE, KOTTIYAM

END COURSE EVALUATION

Name of department : Physics

Name of course : Research Writing (2021-22)

Duration of exam : 2 hrs

Total Marks : 50

Sl No	Name of Student	Marks Obtained
1	Arsha Unnithan	41
2	Akhila . A	40
3	Amritha . A.S	44
4	Anjali Devi . S.J	43
5	Arya . R. Nath	39
6	Avanthika . V.S.	38
7	Chithra . V.S	41
8	Lekshmi . B	44
9	Pravathi . B	39
10	Revathy . R	31
11	Sajna . S	35
12	Sona Vasanthan	41
13	Vishnu Biju	38
14	Vishnu Ratheesan	46
15	Abhinandana . B	45
16	Abhinami . R.S	41
17	Akhila . B	39
18	Amritha . U	44
19	Anoop . S	40
20	Aparna . B	35
21	Geopikrishnan . J	48
22	Krishna priya . L	46
23	Prerna . S. B	38



Curriculum :-

Introduction to Scientific Writing - An overview of the importance of research writing - its purpose and the specific requirements of academic writing - Research Proposal and Thesis writing - understanding the components and structure of a research proposal - Developing research objectives - formulating research questions and planning the structure of a thesis - Literature review - Techniques for conducting extensive literature searches - analysing and summarizing research papers - Scientific Ethics and integrity - principles of responsible conduct in scientific research; including plagiarism, data fabrication and the proper use of citations and references - Scientific writing style - use of technical language and improving readability - Data presentation - Techniques for effectively presenting scientific data including tables, graphs & figures - Research manuscript writing - precise description & the effective communication of scientific findings - Citations & Referencing - Peer review - understanding how to respond to the reviewer comments - Scientific Presentation Skills - Publication and Dissemination

Objectives -

- * Develop proficiency in academic writing
- * Enhancement of scientific communication
- * To understand research methodologies
- * To familiarise with citations and referencing management.



Developing effective time management and project management skills

Course Schedule.

3/12/2021	(Friday)	3.30 - 4.30	Introduction of Research Proposal & overview.
4/12/2021	(Saturday)	9.30 - 12.30	Formulate research thesis writing
6/12/2021	(Monday)	3.30 - 4.30	Literature review questions & planning the structure of thesis
8/12/2021	(Wednesday)	3.30 - 4.30	Techniques for literature searches
10/12/2021	(Friday)	3.30 - 4.30	Analysing & summarising research papers.
11/12/2021	(Saturday)	9.30 - 12.30	Scientific ethics & Integrity
14/12/2021	(Tuesday)	3.30 - 4.30	Principle of responsible conduct in research & plagiarism
20/01/2022	(Thursday)	3.30 - 4.30	Data fabrication & proper use of citations & references
21/01/2022	(Friday)	3.30 - 4.30	Scientific writing style
7/2/2022	(Monday)	3.30 - 4.30	Use of technical language & improving readability - Data presentation
12/2/2022	(Saturday)	9.30 - 12.30	Techniques for effectively presenting scientific data
14/2/2022	(Monday)	3.30 - 4.30	Research manuscript writing
17/2/2022	(Thursday)	3.30 - 4.30	Precise Descriptions & effective communications of scientific findings.
18/2/2022	(Friday)	3.30 - 4.30	Citations & Referencing
26/2/2022	(Saturday)	9.30 - 12.30	peer review.
28/2/2022	(Monday)	3.30 - 4.30	How to respond to reviewer comments
1/3/2022	(Tuesday)	3.30 - 4.30	Scientific presentation skills
5/3/2022	(Saturday)	9.30 - 12.30	Publications & Dissertation skills.
12/3/2022	(Saturday)	9.30 - 11.30	



17/3/2022

End Course
Evaluation

Sulheerthakali
DEPARTMENT OF PHYSICS
M. M. N. S. COLLEGE,
KOTTIYAM.

Research Writing
Add On-Course 2021-22, PG Department of Physics
MM NSS College, Kottiyam

Total Marks: 50

Duration: 2 Hours

Section A: 1-Mark Questions *Answer all questions. Each question carries 1 mark.*

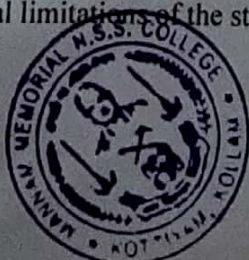
1. What is the primary purpose of a research paper?
2. What section of a research paper typically summarizes the study and discusses the implications of the results?
3. Name one common citation style used in academic writing.
4. In a research paper, what is the purpose of a literature review?
5. What does the term "hypothesis" refer to in research?

Section B: 2-Mark Questions *Answer all questions. Each question carries 2 marks.*

6. Briefly describe the purpose of an abstract in a research paper.
7. What is the difference between primary and secondary sources in research?
8. How should you structure the introduction section of a research paper? Provide a brief outline.
9. Explain the significance of properly citing sources in a research paper.
10. What are two key elements that should be included in the methodology section of a research paper?

Section C: 15-Mark Questions *Answer all questions. Each question carries 15 marks.*

11. **Developing a Research Paper:** a. Write a brief outline for a research paper on the topic of "The Impact of Climate Change on Coastal Ecosystems."
b. Include sections such as Introduction, Literature Review, Methodology, Results, Discussion, and Conclusion.
c. Provide a brief description of what each section should include, and list the key points that should be addressed.
12. **Writing a Literature Review:** a. Draft a short literature review on the topic of "Advancements in Machine Learning Techniques."
b. Summarize at least three key studies, highlighting their findings and relevance to the topic.
c. Discuss how these studies contribute to understanding the advancements in machine learning.
13. **Creating a Research Methodology:** a. Design a methodology section for a research paper studying "The Effects of Remote Work on Employee Productivity."
b. Include details on research design, data collection methods, and data analysis techniques.
c. Justify your chosen methods and explain how they will help achieve the research objectives.
14. **Interpreting Research Results:** a. Write a sample discussion section for a research paper on "The Effectiveness of Online Learning Platforms in Higher Education."
b. Interpret hypothetical results, discuss their implications, and relate them to existing literature.
c. Address potential limitations of the study and suggest areas for future research.



DEPARTMENT OF PHYSICS
M. M. N. S. S. COLLEGE
KOTTIYAM.

MANNAM MEMORIAL NSS COLLEGE, KOTTIYAM

STUDENT ENROLMENT LIST

Name of department : PHYSICS

Name of course : RESEARCH WRITING (2021-22)

Sl No	Name of Student	Signature
1	ARSHA UNNITHAN	
2	AKHILA A	
3	AMRITHA A S	
4	ANJALI DEVI S J	
5	ARYA R NATH	
6	AVANTHIKA V S	
7	CHITHRA V S	
8	LEKSHMI B	
9	PARVATHI B	
10	REVATHY R	
11	SAJNA S	
12	SONA VASANTHAN	
13	VISHNU BIJU	
14	VISHNU RATHEESAN	
15	ABHINANDANA B	
16	ABHIRAMI R S	
17	AKHILA B	
18	AMRITHA U	
19	ANOO P S	
20	APARNA B	
21	GOPIKRISHNAN J	
22	KRISHNAPRIYA L	
23	PRANAV S B	
24	SRADHA J S	
25	NAYANA S KUMAR	
26	PALLAVI P S	
27	KRISHNEDU A S	
28	SANJAY V NAIR	
29		
30		
31	DEPARTMENT OF PHYSICS	
32	M. M. N. S. S. COLLEGE	
33	KOTTIYAM.	
34		

Report

Academic writing is an essential skill for a successful career in academics and research. Exposure to the global standards of scientific writing is a need of the hour which would potentially transform the way to approach publishing. To facilitate this the PG Department of Physics offered an add on course on Research Writing to the PG students of Physics. The classes were of 30 hours and students were benefitted by the course. They got the ^{information} ~~idea~~ about plagiarism in research and they got the idea of writing a report of the research project. The ~~got~~ students learnt the principles, techniques and tools ~~feedback~~ of academic and research report writing.

Feed back Analysis

Students showed a positive response for the course offered. They agreed the content of the course is very much useful for them while writing their project thesis. It enhanced their writing techniques such as logical organization, clarity of ideas, citation usage and overall coherence. The course provided a base to improve their writing skills and ensured the proficiency in academic writing.

Sp

Sulheertha Das

DEPARTMENT OF PHYSICS

M. M. N. S. S. COLLEGE

(Dr. Sulheertha S. Das)

Hacer G. Krishnaprasad



Sp
Principal
M. M. N. S. S. COLLEGE
KOTTIYAM