



SARDAR PATEL UNIVERSITY
University Road P. B. 10
Vallabh Vidhyanagar-388120 (Gujarat)
NAAC accredited with Grade 'A'
(10-01-2023 to 09-01-2028)

Phone: 0692-226808/85; Email: exam_spu@spuvvn.edu; Website: www.spuvvn.edu

The Government of India notified the **National Commission for Allied and Healthcare Professions (NCAHP)** Act on **March 28, 2021**. As a common regulatory body, the NCAHP Act provides for regulation and maintenance of standards of education and services by Allied and Healthcare Professionals.

Medical Laboratory Sciences (MLS)

Semester IV –COMMON FOR ALL SPECIALIZATION

No	SEMESTER IV	Credits	Contact Hours	IA	EAE	Total
M03MLSCOPV	Dissertation	22	990	200	400	600
Total		22	990			

Proforma for submission of M.Sc. MLS dissertation proposal synopsis

1. Name & address of student
2. Email Id of the student
3. Registration number
4. Name of institute
5. Title of the dissertation
6. Name of the guide
7. Address, phone number and email id of the guide
8. Designation of the guide
9. Name of the co-guide
10. Address, phone number and email id of the Co guide
11. Designation of the Co-guide
12. Synopsis of the study Attached (Yes/No)

Date:

Signature of the guide

Enclosures



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Synopsis
Proposal /synopsis outline

- 1 Title
- 2 Purpose of the study
- 3 Objectives of the study
- 4 Operational Definitions
- 5 Conceptual Framework
- 6 Assumptions/Hypothesis
- 7 Research Methodology
 - Research Approach
 - Research Design
 - Setting
 - Population, Sample & Sampling Technique
 - Tools & Technique
 - Pilot study
 - Plan for data collection
 - Plan for data analysis
- 8 Work plan
- 9 Ethical Considerations
- 10 References

Guidelines in writing synopsis

1. The research protocol should be of 1200 words (4- 6 pages) on the topic.
2. It should be submitted along with a cover letter.
3. The work and writing of protocol/dissertation should be done under the Guide.
4. The Guide must be as per University norms.
5. The synopsis should be signed by the candidate and forwarded through the Guide, Departmental head and Principal of the Institution.

Date:

Signature of the Student

Signature of the Guide

Signature of the Principal



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Endorsement by the Head of the Institution

The information provided by the teacher is verified from the office records and found to be correct.
He/She is eligible to be recognised as a PG teacher to guide the dissertation work of PG students.

Place:

Date

Signature of Principal/Dean





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Format of the submission of Dissertation Hard & Soft copy

Instructions to candidates

- Although your dissertation may be prepared on a computer, consider the following requirements for meeting the standards.

Paper: Use only one side of high-quality, plain white bond paper. Erasable paper should not be used.

Type Size and Print:

- Select font type Times New Roman and a size of 12 characters. The size of the titles should be 14 and Bold, the size of subtitles should be 12 and Bold. Print should be letter quality or laser printing with dark black characters that are consistently clear and dense. Use the same type of print and print size throughout the document.

Pagination: Number all of the pages of your document, including not only the principle text, but also all plates, tables, diagrams, maps and so on. Roman numerals are used on the preliminary pages (pages up to the first page of text), and Arabic numerals are used on the text pages. The numbers themselves can be placed anywhere on the page; however, they should be consistent.

Spacing: Use double spacing except for long quotations and footnotes, which are single-spaced.

Margins: To allow for binding, the left-hand margin must be 1.5. Other margins should be 1.0. Diagrams or photographs in any form should be a standard page size, or if larger, folded so that a free left-hand margin of 1.5 remains and the folded sheet is not larger than the standard page.

Professional-quality black-and-white photographs are necessary for clear reproduction. Colours are allowed, but you should be certain the colored figure will copy clearly and will not be confusing when printed in black and white.

File Format

Dissertation format should be in Doc (MS Word Document) or PDF (Portable Document Format). Image files in JPG or TIFF format and Audio Visual in AVI (Audio Video Interleave), GIF, MPEG (Moving Picture Expert) files format, Labelling on CD (title, name of the candidate, degree name, subject name, guide name, name of the department, college, place and year).

References: Vancouver style format.



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GUIDELINES OF DISSERTATIONS FOR MMLS DEGREE (COVER PAGE)

Title (Capital)

Logo (University/College)

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE DEGREE OF MASTER OF MEDICAL LABORATORY SCIENCE (university/College).

Year

Title

By

Name of the Candidate

Dissertation Submitted to the University/College
In partial fulfilment of the requirements for the degree of _____

Under the guidance of Name of the Guide

Name of the Course

Name of the College

Year



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DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation/thesis entitled _____ is a bonafide and genuine research work carried out by me under the guidance of Name and designation of the guide.

Signature of the candidate

Place:

Date

CERTIFICATE BY THE GUIDE

This is to certify that this dissertation/thesis entitled _____ is a bonafide and genuine research work done by Name of the candidate in partial fulfillment of the requirement for the degree of MMLS.

Signature of the Guide

Name and designation of Guide

Place:

Date:



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ENDORSEMENT BY THE PRINCIPAL/DEAN

This is to certify that this dissertation/thesis entitled

_____ is a

bonafide and genuine research work done by Name of the candidate in partial fulfillment of the requirement for the degree of MMLS.

Seal & Signature of the principal

Name:

Place:

Date:

Acknowledgement

Signature of the candidate





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Abstract:

Should be structured

(Include background/Introduction and objectives, methodology, results, and conclusion in a single paragraph limited to 250-300 words)

Keywords: 5-6 words

S. No	Chapter Title	Page No
1	Introduction	
2	Objectives	
3	Review of literature	
4	Methodology	
5	Results	
6	Discussion	
7	Conclusion	
8	Summary	
9	References	
10	Annexures	

List of Tables: (14 size bold)

S. No	Table	Page No
1		

List of Figures (14 size bold)

S. No	Figures	Page No
1		



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CHAPTER-I

- Introduction (14 size, Bold)
- Sub Headings (12 size, Bold)
- Background of the problem
- Need and significance of the study
- Statement of the problem
- Objectives
- Operational definitions
- Hypothesis
- Conceptual/ theoretical framework

CHAPTER-2 (14 sizes, Bold) Review of literature

- Subheading of the literature reviewed (12sizes, Bold)

CHAPTER-3

- Methodology
- Research approach
- Research design
- Variables
- Schematic representation of the study
- Setting of the study
- Population
- Sample and sampling technique
- Inclusion criteria
- Exclusion criteria
- Tool/instruments
- Development/selection of the tool
- Description of the tool
- Content validity
- Reliability of the tool
- Pilot-study
- Data collection process
- Plan for data analysis

CHAPTER-4 (14sizes, bold)

- Analysis and interpretation
- Section title (Section wise presentation of data)

CHAPTER-5(14sizes, bold)

- Results
- Objectives
- Hypothesis

CHAPTER-6 (14sizes,bold)

- Discussion



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- Summary and conclusion
- Implications
- Limitations
- Recommendations

DISSERTATION STYLE: Vancouver style format is used Citations in the text

General Rules:

1. References should be numbered consecutively in the order in which they are cited in the text. Place each reference number in parentheses (5) or as a superscript. Use Arabic numerals if the same references are used again, we use the original number. Square brackets {} or curved Brackets () can be used as long as they are consistent.
2. When multiple references are cited at a given place in a text, use a hyphen to join the first and last numbers that are inclusive (6-9) or use commas (2,6,8,9)
3. Whatever format is chosen, the punctuation must be consistently applied to whole document.

Tables

Tables must be self-explanatory. The data must be clearly organised and should supplement and not duplicate the text. Data may be presented either in a table or pictorial form. Do not use internal horizontal or vertical lines. Explanatory matter should be given as footnotes. Statistical analysis used must be appropriate. Confidence intervals, along with exact probability values, must be stated for the results. Round decimals to two digits. Each table must have a title and should be numbered with Arabic numerical e.g. (1,2). Type or print each table with double spacing on a separate sheet of paper. Number tables consecutively in the order of their first citation in the text and supply a brief title for each. Give each column a Short or an abbreviated heading. Explain all non-standard abbreviations in footnotes. The table should not be carried over to the next page.

Illustrations and figures

Number each figure in the text in consecutive order

Abbreviations and symbols: Use only standard abbreviations; the use of non-standard abbreviations can be confusing to readers. Avoid abbreviations in the title of the manuscripts. The spelt-out abbreviation in parentheses should be used on first mention unless the abbreviation is a standard unit of measurement.

Abstract

Abstract provides a summary of the dissertation/thesis, summing up clearly the problem examined, the methods used and the main findings. The abstract is a one-paragraph, self contained summary of the most important elements of the paper. The abstract word limit is between 250 and 300 words. All numbers in the abstract (except those beginning a sentence) should be typed as digits rather than words. Key words (max.6) should be given, chosen from subject concerned headings. Each word should be separated by semicolon.



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References

- The reference list should appear at the end of the paper and provide the complete bibliographic information about the sources cited.
- List all reference in order by number, not alphabetically. Each reference is listed once only, since the same number is used throughout the paper. It should be numbered consecutively in the order in which they are first mentioned in the text. Identify references in text and tables by Arabic numerals in parentheses.
- The titles of journals should be abbreviated according to the style used in the list of journals. The following information is included for journal articles: author(s), article, title, abbreviated journal title, year, month (if applicable), day, volume number, issue number (if applicable), and page numbers. For books author(s), title, Edition, place of publication, publisher and year.
- List each author's last name and initials: full first names are not included. List all authors, but if the number exceeds six, give the first six followed by "et al."
- For books with chapters written by individual authors, list the authors of the chapter first, then the chapter title, followed by "In:" the editors' names, and the book title.
- Initials follow the family names of authors and editors, with no space or full stops between the initials of an author, e.g. Halpern SD, Ubel PA, Caplan AI.
- Commas are used to separate each author's name. Note that "and" is not used to separate the last two names.
- Minimal capitalisation is used for the article title, i.e. only the first word and words that normally would begin with a capital letter are capitalised.
- Full stops are used after the last authors initials, after the article title, after the abbreviated journal title and at the end of the entry. Gerald Callee J, Andrew G Fraser, Barrie P Marmion, Anthony Simmons. Mackie & MC Cartney Practical medical microbiology, New York, Churchill Livingstone, 1996.

Standard journal article (for more than six authors): List the first six contributors followed by *et al.*

Roddy P, Goiri J, Flevaud L, Palma PP, Morote S, Lima N. *et al.*, Field Evaluation of a Rapid Immunochromatographic Assay for Detection of *Trypanosoma cruzi* Infection by Use of Whole Blood. J. Clin. Microbiol. 2008; 46: 2022-2027.

Book: Personal author(s):

Parija SC. Textbook of Medical Parasitology. 3rd ed. All India Publishers and Distributors. 2008.
Editor(s), compiler(s) as author

Garcia LS, Filarial Nematodes In: Garcia LS (editor) Diagnostic Medical Parasitology ASM press Washington DC 2007: pp 319-356.



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Electronic Sources as reference

Journal article on the Internet: Parija SC, Khairnar K. Detection of excretory Entamoeba histolytica DNA in the urine, and detection of E. histolytica DNA and lectin antigen in the liver abscess pus for the diagnosis of amoebic liver abscess. BMC Microbiology 2007, 7:41.doi:10.1186/1471-2180-7-41.
<http://www.biomedcentral.com/1471-2180/7/41>

Evaluation System

Internals Weightage (%)	End semester Exam Weightage (%)
30	70

Weightage distribution Item	Weightage (%)
Formative	
Class participation/Seminar	5%
Assignment & quizzes	5%
Sessional exams	20%
Summative	
End-of-Semester University exam	70%
Total	100 %

Point grading system (credit value)

grading system (credit value) Letter Grade	A+	A	B	C	D	E	F/I/DT
Credit value	10	9	8	7	6	5	0

Attendance:

A candidate has to secure minimum -

1. 80% attendance in theoretical
2. 80% in Skills training (practical) for qualifying to appear for the final examination.

No relaxation, whatsoever, will be permissible to this rule under any ground including indisposition etc.

Program Completion Timeline

- All academic coursework must be completed within a maximum of **double the program duration**.
- For example, in a **2-year program**, all requirements must be fulfilled within **4 years** from the date of admission.
- **Note:** Failure to complete the program within the stipulated maximum duration will result in **automatic exit** from the program.