

PARUL UNIVERSITY

Faculty of Pharmacy

Dissertation Guidelines

For

M. Pharm

QA

(Effective from 2016-17)



PREAMBLE

- 1.1. The provisions in these guidelines govern the conditions for imparting dissertation work, conduction of examination and evaluation of performance of students leading to M.Pharm degrees.
- 1.2. These guidelines are effective for all the batches of M. Pharm students admitted in the academic year 2015-16 and onwards.
- 1.3. The Board of Studies may change any or all parts of these guidelines at any time.

2) GENERAL RULES FOR DISSERTATION TITLE

- 2.1. The objectives of the research, in general, encompass the discovery of new facts or techniques or correlation of facts already known, through analytical or experimental approach or both, while demonstrating a quality potential as to make a definite contribution to the advancement of knowledge useful to the society and the scholar's ability to undertake sustained research in future.
- 2.2. Students may be encouraged to undertake industry defined dissertation. For the industry defined dissertation, there shall be one external supervisor of the industry and one internal supervisor of student's own department. It will be the sole responsibility of internal supervisor to define the research problem, scope, methodology and possible outcome from the dissertation in consultation with external supervisor.
- 2.3. Supervisors for the PG dissertation can suggest the titles of dissertation considering their long term goal for research. They can undertake research project with possible funding from DST/GUCOST/ICMR, etc and involve students in part of research project as dissertation.
- 2.4. Students can also discuss the titles of their choice or titles given from industries with the supervisors and if feasible and accepted by supervisors, can be included in the list of suggested titles.
- 2.5. In case, two students give same/similar titles; title will be allotted based on merit. Decision should be taken by consensus. In case of disputes, Head of the Institution shall take final decision.

- 2.6. Final allotment of titles and supervisors will be published on notice board in consultation with Head of the Department.
- 2.7. Requirement of change in the title of dissertation work should be applied to the Head of the Department with sufficient reasons for the change, before the evaluation of Dissertation Progress Review-I.
- 2.8. After Dissertation Progress Review-I exam, change of the title will be permitted based on the comments of external examiner. Such cases should apply for the change in titles and should get approval from the Head of the Department.

3) DISSERTATION WORK IN COLLABORATION WITH INDUSTRY

- 3.1. It is preferable that students, with the approval of the Head of the Department, visit industry or a Research Laboratory for data collection, discussion of the dissertation, experimental work, survey, field studies, etc. during the project period. Projects sponsored by the Industries or R&D organizations will be encouraged and a close liaison with such organizations will be maintained.
- 3.2. Students shall acknowledge the involvement and / or contribution of an Industries or R&D organizations for their dissertations.
- 3.3. Satisfactory completion certificate issued by the Industry or R&D organization should be attached with the dissertation report.
- 3.4. Internal supervisor, should monitor the progress of his/her students by remaining in contact with the students and external supervisors by emails, video conferencing and/or by making visits to the industries at least once in a month, depending on the need of particular project and as decided by concerned Head of the Department. All the students will be working 5 days in industries and the 6th working day, in a week, have to report on the institute with progressive work to the HODs and institutional supervisor.

4) SUPERVISORS

- 4.1. Students shall be assigned one or two supervisors(s) as guide/co-guide from the Institute.
- 4.2. In case any supervisor leaves the Institute permanently or temporarily for a period exceeding

one semester, the Head of the Department/Institute shall appoint new supervisor for the concerned students. Any such arrangements made, should get approval from Head of the Institute.

- 4.3. A faculty can supervise maximum FOUR M. Pharm dissertations at a time.
- 4.4. In case of interdisciplinary areas, at least one supervisor must belong to the discipline in which the student is registered.

5) SUBMISSIONS

- 5.1. Students must submit two spiral bound reports for INTRODUCTION TO DISSERTATION, DISSERTATION PROGRESS REVIEW–I, and DISSERTATION PROGRESS REVIEW–II at the time of respective evaluation, duly signed by the supervisor(s), Head of Department and Head of the Institute one week before the date of exam.
- 5.2. Four hard bound copies (for external examiner, department library, supervisor and student copy) along with a soft copy in CD of the dissertation report shall be submitted to the Head of the Department before final evaluation of DISSERTATION on or before the date notified by the University. Reports must be certified by the supervisor, Head of the Department and the Head of the Institution.
- 5.3. The CD should contain PDF format of dissertation, with name, enrollment number, branch, year of admission of the student written on the CD.

6) EVALUATION SYSTEM

- 6.1. Method of evaluation is as per the following examination scheme:

Subject	Marking System	
	Internal	External
Introduction to Dissertation	20	30
Dissertation – Thesis and Open defence	70	80
Total Marks	90	+ 110 = 200

6.2. For continuous evaluation, a comprehensive internal assessment of the dissertation work should be made by an internal review panel formed of Head of the Department, supervisor and at least 1 senior faculty with expertise in same field of dissertation work.

6.3. Internal review panel will review the progress of the students intermittently, and give assessment of the work done by the students with comments of the review in the form of review card (Appendix I).

6.4. Work progress of the project work will be evaluated at different stages (Internal and external evaluations) as per the schedule and guideline given below:

Details	Tentative schedule	Work to be complete	Marks
Internal ITD	Beginning of August	Students must present the justification of the dissertation title supported by extensive literature review. Students also need to present 'Plan of work' with time schedule.	20
EXTERNAL ITD	Mid of August	Same as above, including the corrections made as per review comments of Internal ITD	30
Dissertation Progress Review – I	Beginning of December	Literature review and problem definition with objectives should be complete. Presentation of literature review should be accompanied with Patent Search Summary. Experimental work progress has to be reported in this section, with timeline for the remaining work.	50 (Av. of two Review)
Dissertation Progress Review – II	Mid of March	At least 80% of the planned work should be complete and reported. Compliance to comments of previous review must also be presented.	
Dissertation Submission	End of April	Every student must follow the guidelines for preparation of Dissertation as given in Appendix II.	20
DISSERTATION EVALUATION (External)	Mid of May	Presentation of the complete work done. Compliance to comments of previous review must also be presented.	80

6.5. Exact date of all the internal review (Internal CE) and external exams shall be adequately notified so as to enable interested faculty members and students to attend the same.

6.6. Dissertation and External Viva-Voce

- a) If any student has not done satisfactory work then internal review panel may not allow the student for external practical exam.

b) Dissertation viva - voce will be held within the date fixed in the academic calendar and the grades will be finalized. External examiner, from outside the Institution shall examine the dissertation by evaluating the presentation & viva voce.

6.7. The evaluation or marks distribution will be broadly done on the basis Dissertation rubrics, given as Appendix III in this guideline.

Annexure I

MARKSHEETS

AND

REVIEW CARD FORMATS

For

M. Pharm Dissertation Work

**PARUL UNIVERSITY
FACULTY OF PHARMACY**

(Name of Institute)

M. Pharm (QA)

Marksheet for INTERNAL Introduction to Dissertation (08205201)

Second Year M. Pharm (Batch: [admission year])

Date of Exam:

Sr. No.	Enrollment Number	Name of the Student	Objective/Rationale of the selected title (10 marks)	Presentation skill and Defence (10 marks)	Total (20 marks)

Sign and Name of examiners: 1)
2)
3)

**PARUL UNIVERSITY
FACULTY OF PHARMACY**

(Name of Institute)

M.Pharm (QA)

Marksheet for EXTERNAL Introduction to Dissertation (08205201)

Second Year M. Pharm (Batch: [admission year])

Date of Exam:

Sr. No.	Enrollment Number	Name of the Student	Objective/Rationale of the selected title (10 marks)	Presentation skill (10 marks)	Questions and answers (10 marks)	Total (30 marks)

Sign and Name of examiners: 1)
2)
3)

PARUL UNIVERSITY
FACULTY OF PHARMACY
(Name of Institute)

M.Pharm (QA)

Marksheet of Dissertation Progress Review I/II (08205201)

Second Year M. Pharm (Batch: [admission year])

Date of Exam:

Sr. No.	Enrollment Number	Name of the Student	Progress made (20 marks)	Presentation (20 marks)	Questions and answers (10 marks)	Total (50 marks)

Sign and Name of examiners: 1)
2)
3)

PARUL UNIVERSITY
FACULTY OF PHARMACY
(Name of Institute)

M.Pharm (QA)

Marksheet of Internal Dissertation (08205201)

Second Year M. Pharm (Batch: [admission year])

Date of Exam:

Sr. No.	Enrollment Number	Name of the Student	Average of Dissertation Progress Review I/II (50 marks)	Marks of Thesis (20 marks)	Total (70 marks)

Sign and Name of examiners: 1)
2)
3)

PARUL UNIVERSITY
FACULTY OF PHARMACY
(Name of Institute)

M. Pharm (QA)

Marksheet of External Dissertation Review (08205201)

Second Year M. Pharm (Batch: [admission year])

Date of Exam:

Sr. No.	Enrollment Number	Name of the Student	Dissertation: Quality of work done (20 marks)	Open defence* (60 marks)	Total (80 marks)

* Marks distribution

Technical skills: Methodology of work done:	15 marks
Discussion of results and conclusions:	20 marks
Clarity about outcome & Future action plan:	5 marks
Presentation skill:	10 marks
Questions and answers:	10 marks

Sign and Name of examiners: 1)

2)

PARUL UNIVERSITY
FACULTY OF PHARMACY
(Name of Institute)
Marksheet of M. Pharm. 2nd year

Name of Student:

Name of Branch: QA

Year:

Sr. No.	Name of Exam	Internal	External	Total
1	Introduction to Dissertation out of 20 out of 30 out of 50
2	Dissertation Evaluation out of 70 out of 80 out of 150
Total			 out of 200

Signature of Exam Incharge

Signature of Head of Department

Signature of Head of Institute

Seal of institute



**PARUL UNIVERSITY
FACULTY OF PHARMACY**

**Master of Pharmacy
(Introduction to Dissertation Review Card)**

Enrollment No of Student:

Name of Student:

College Name:

Title of Dissertation:

Date of Examination:

Total Marks: 10 Marks

SR. NO	PARAMETERS/CRITERIA	REMARKS/COMMENTS
1	TITLE	(Appropriate/Not appropriate)
2	LITERATURE SURVEY	
3	JUSTIFICATION/OBJECTIVES OF RESEARCH WORK	
4	PATENT SEARCH AND SUMMARY	
5	PROPOSED EXPERIMENTAL WORK	
6	NOVELTY AND FUTURE PERSPECTIVE	
7	PRESENTATION SKILL AND DEFENSE	Very Good Good Average
8	APPROVAL OF PROPOSED RESEARCH WORK	(Yes/No)

General Comments:

Name and Signature of Examiner (s)

1) External: _____

2) Internal: _____



**PARUL UNIVERSITY
FACULTY OF PHARMACY**

Master of Pharmacy

(Continuous Evaluation- I/II Review Card)

Enrollment No of Student:

Name of Student:

College Name:

Title of Dissertation:

Date of Examination:

Total Marks: 40 Marks

SR. NO	PARAMETERS/CRITERIA	REMARKS/COMMENTS
1	TITLE (If change suggested in ITD, revised title is implemented?)	Yes/No
2	JUSTIFICATION/OBJECTIVES (If change suggested in ITD, revised title is implemented?)	Yes/No
3	EXPERIMENTAL WORK PROGRESS	
4	SUGGESTION ABOUT EXPERIMENTAL WORK	
5	COMPLIANCE TO ITD COMMENTS	Complied/Not Complied
6	PRESENTATION SKILL AND DEFENSE	Very Good Good Average
7	GENERAL COMMENTS	

Name and Signature of Examiner (s)

1) External: _____

2) Internal: _____



**PARUL UNIVERSITY
FACULTY OF PHARMACY**

**Master of Pharmacy
(Dissertation - Open defense Review Card)**

Enrollment No of Student:

Name of Student:

College Name:

Title of Dissertation:

Date of Examination:

Total Marks: 100 Marks

SR. NO	PARAMETERS/CRITERIA	REMARKS/COMMENTS
1	COMPLIANCE TO ITD AND CONTINUOUS EVALUATION (Internal Review I &II)	Complied /Not complied
3	QUALITY AND QUANTITY OF EXPERIMENTAL WORK DONE	
4	PRESENTATION SKILL AND DEFENCE	Very Good Good Average
5	APPROVAL OF DISSERTATION (Yes/No)	Recommended/Not Recommended

General Comments:

Name and Signature of Examiner (s)

1) External: _____

2) Internal: _____

Annexure II

Guidelines For Preparation of M. Pharm Thesis

CONTENTS

- I. Introduction
- II. Originality
- III. Arrangement of Thesis or Report
- IV. Page Format and Layout
- V. Contents
- VI. Annexure
- VII. Sample Documents
 - a. Title Page
 - b. Certificate
 - c. Declaration
 - d. Thesis approval
 - e. Table of Contents
 - f. Abstract
 - g. Summary of Patent search

1 INTRODUCTION

- 1.1. This document herein referred to as the M.Pharm Thesis Guide; lists the general and specific requirements governing thesis preparation including guidelines for structuring the contents.
- 1.2. It is the student's responsibility to read and follow the requirements presented here.
- 1.3. The thesis will not be accepted if it does not fulfill the criteria mentioned herein.

2 ORIGINALITY

M. Pharm Thesis Shall:

- 2.1. Consist of the student's own account of his / her investigations.
- 2.2. Be either a record of original work or of an ordered and critical exposition of existing knowledge and shall provide evidence that the field has been surveyed thoroughly.
- 2.3. Be an integrated report and present a coherent argument.
- 2.4. Give a critical assessment of the relevant literature, describe the method of research and its findings and include a discussion on those findings.
- 2.5. Include a full bibliography or references
- 2.6. Be checked for originality of thesis with the help of anti-plagiarism software.

3. ARRANGEMENT OF THESIS

A thesis should contain the following parts in the order shown.

- 3.1. Title page
- 3.2. Certificate pages
- 3.3. Dedication (Optional)
- 3.4. Acknowledgments
- 3.5. Table of contents

- 3.6. List of Figures and Tables
- 3.7. Abstract
- 3.8. The thesis body (Maximum 150 pages)
- 3.9. Reference list; and
- 3.10. Appendices (list of abbreviations) and other addendum, if any.

4. FORMAT

4.1. Colour

Branch wise color code for Cover Page:

- Pharmaceutics/Pharmaceutical Technology: Maroon
- Quality Assurance/Quality Assurance Technique: Navy Blue
- Pharmacology: Gray
- Pharmaceutical Chemistry: Black

4.2. Print quality

Paper and print quality are vitally important for successful microfilming and legibility. Normally, international A4; 80 to 90 gsm white paper should be used for the thesis which should be printed on single side of the paper. Exceptionally, paper other than international A4 size may be used when the nature of the thesis requires it.

4.3. Language

Thesis should be written in English, free from spelling, grammatical and other errors.

4.4. Layout

Left Margin should be 38mm (1.5”) and margins on all the other sides should be consistently 25.4 mm (1.0”). Exceptionally, margins of a different size may be used when the nature of the thesis requires it.

4.5. Font

A conventional **Times New Roman** font; size 12-point with 10 to 12 characters per

inch must be used. However, different font-size may be used for Table of Contents, footnotes and endnotes, charts, graphs, tables, quotations, captions.

4.6. Spacing

The thesis text must have 1.5 line spacing. Single spacing may be used only in the Table of Contents, footnotes and endnotes, charts, graphs, tables, quotations, captions, glossary, appendices, and bibliography.

4.7. Pagination

Pages must be numbered consecutively through the thesis, starting from introduction in Arabic numerals. Pages before Introduction section should be numbered using roman numerals.

4.8. Header/ Footer

- Header of relevant section chapter's shall contain the full chapter title in 10-point italics and left-aligned. There should be no header on the first page of each chapter.
- Footer shall contain Name of the institute and Page number.
- Pages before Introduction section shall not include any header and the footer should only depict the page number at the center.

5. CONTENTS

5.1. Title Page (refer Annexure - I) must consists of:

- The Thesis title
- The full name of the Candidate and Supervisor
- The degree for which the thesis is submitted
- The name of the University, i.e. The Parul University
- The month and year of submission

5.2. Certificate Pages including:

- Declaration (refer Annexure-II): The student must declare the originality of the

content of the thesis.

- Certificate from institute/s
- Thesis Approval

5.3. Dedication (Optional)

5.4. Acknowledgments

Any acknowledgement should be on the page following the Dedication page, or the Thesis approval page if there is no dedication.

5.5. Table of Contents

The table of contents (refer Annexure - V) should follow immediately either the Acknowledgements page. It must list in sequence, with page numbers, all relevant subdivisions of the thesis, including: the titles of chapters, sections and subsections, as appropriate; the list of references; any appendices; and any other functional parts of the whole thesis.

5.6. List of Figures and Tables

These lists should start on the page following the table of contents and be in the order Tables and Figures in the order in which they occur in the text.

5.7. Abstract

The abstract must provide a concise summary of the thesis and it should not be more than 250 words (refer Annexure - VI). These are the basic components of an abstract.

- Motivation/problem statement with purpose: Why do we care about the problem? What practical, scientific, theoretical or artistic gap is your research filling?
- Methods / procedure/approach: What did you actually do to get your results?
- Results / findings/product: As a result of completing the above procedure, what did you learn/invent/create?
- Conclusion / implications: What are the larger implications of your findings, especially for the problem/gap identified?

5.8. The Thesis Body (Maximum 150 pages)

1. *Chapters and Sections*

Theses should be divided as appropriate into chapters, sections and subsections. The system of headings must be consistent and should provide a clear indication of changes in content, emphasis and other features that occur at each stage of the work.

Arabic numerals should be used in the format 1, 2 etc (for chapters), 1.1 etc for sections and 1.1.1 etc for subsections.

2. *Headings*

All headings should be emboldened. The recommended style is: 14-point with capitalised initial letters for chapter headings; 12-point with capitalised initial letters for section headings; 12-point italicised for subsection-headings. All headings should be on separate lines from the text. Each chapter must begin on a new page and the heading should be preceded by the word Chapter and the appropriate number.

5.9. Tables, Figures and Equations

5.9.1. *Position and numbering*

Should be positioned according to the scientific requirement. Tables, figures etc. shall be numbered consecutively throughout individual chapters, e.g. table 1 in chapter 1 shall be written as Table 1.1. Within the text tables should be referred to as Table 1 or Fig. 1 etc.

5.9.2. *Caption*

The numbers (of the above form) and captions should be at the top of the tables and at the bottom of the figures. The top of an illustration that is bound sideways must be to the left of the page (the binding side).

5.9.3. *Figures and illustrations*

Colour may be used in diagrams and figures. However, it is recommended that such use be kept to a minimum, being reserved for situations where it is essential for clarity. The use of colour must be the same in all presentation copies of the thesis.

5.9.4. Equations

Equations should be placed on separate lines from the text and should be numbered whether or not they are referred to in the text. Numbering should appear in round brackets at the right hand side of the page and be ordered consecutively either throughout the thesis as (1) etc, or in each chapter (1.1) etc. Equations should be referred to in the text as equation (1) etc.

5.10. References

All references must be cited in the text by the reference number using superscripts. No links between superscripts in the text and actual references in the Reference Sections may be used. Notes may be used to cite manuscripts in preparation, unpublished observations and personal communications. References cited should follow the **Vancouver Citation Style**.

Examples of citing references are depicted below:

Article in Journal

Journal articles can be accessed in three different ways: (1) from the print (paper) copy; (2) from the journal's website; or (3) from an online article database like Medline. You will cite the article differently depending on how you accessed it.

Standard format for journal articles:

Author Surname Initials. Title of article. Title of journal, abbreviated. Date of Publication: Volume Number (Issue Number): Page Numbers.

Finding the journal abbreviation: Vancouver Style does not use the full journal name, only the commonly-used abbreviation: "New England Journal of Medicine" is cited as "N Engl J Med". If the abbreviation is not stated, use the PubMed Journals Database to find your journal: <http://www.ncbi.nlm.nih.gov/sites/entrez?db=journals>. The correct

abbreviation will be listed.

Journal Article in Print

1. Haas AN, de Castro GD, Moreno T, Susin C, Albandar JM, Oppermann RV, et al. Azithromycin as a adjunctive treatment of aggressive periodontitis: 12-months randomized clinical trial. *J Clin Periodontol*. 2008 Aug; 35(8):696-704.

Journal Article from a Website

2. Tasdemir T, Yesilyurt C, Ceyhanli KT, Celik D, Er K. Evaluation of apical filling after root canal filling by 2 different techniques. *J Can Dent Assoc [Internet]*. 2009 Apr [cited 2009 Jun 14];75(3):[about 5pp.]. Available from: <http://www.cda-adc.ca/jcda/vol-75/issue-3/201.html>

Journal Article from an Online Database

3. Erasmus S, Luiters S, Brijlal P. Oral hygiene and dental student’s knowledge, attitude and behaviour in managing HIV/AIDS patients. *Int J Dent Hyg [Internet]*. 2005 Nov [cited 2009 Jun 16];3(4):213-7. Available from Medline: <http://cclsw2.vcc.ca:2048/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=cmedm&AN=16451310&site=ehost-live>

Web Site

Standard format for websites:

Author Surname Initials (if available). Title of Website [Internet]. Place of publication: Publisher; Date of First Publication [Date of last update; cited date]. Available from: URL

Publication information online

Publication information is often unavailable on websites and is not standardized like books or journals. Vancouver Style requires the “Place of Publication”, the “Publisher” and the “Original Publication Date” as part of the citation. If these pieces of information are not given, use: [place unknown], [publisher unknown] or [date unknown].

Website with author:

4. Fehrenbach MJ. Dental hygiene education [Internet]. [Place unknown]: Fehrenbach and Associates; 2000 [updated 2009 May 2; cited 2009 Jun 15]. Available from:

<http://www.dhed.net/Main.html>

Website without author:

5. American Dental Hygienists' Association [Internet]. Chicago: American Dental Hygienists' Association; 2009 [cited 2009 May 30]. Available from: <http://www.adha.org/>

Part / article within a website:

6. Medline Plus [Internet]. Bethesda (MD): U.S. National Library of Medicine; c2009. Dental health; 2009 May 06 [cited 2009 Jun 16]; [about 7 screens]. Available from: <http://www.nlm.nih.gov/medlineplus/dentalhealth.html>

Blog

7. Skariah H. The tooth booth dental blog [Internet]. Mississauga (ON): Hans Skariah; 2004 - [cited 2009 Jun 20]. Available from: <http://dentaldude.blogspot.com/>

An entry / article within a blog

8. Skariah H. The tooth booth dental blog [Internet]. Mississauga (ON): Hans Skariah; 2004 - . Dental did you know: breastfeeding duration and non-nutritive sucking habits; 2009 May 18 [cited 2009 Jun 20]; [about 1 screen]. Available from: <http://dentaldude.blogspot.com/2009/05/dental-did-you-know-breastfeeding.html>

Image on the internet

9. McCourtie SD, World Bank. SDM-LK-179 [image on the Internet]. 2009 Apr 29 [cited 2009 Jun 14]. Available from: <http://www.flickr.com/photos/worldbank/3486672699/>

Books

Standard format for books:

Author Surname Initials. Title: subtitle. Edition (if not the first). Place of publication: Publisher; Year. **Book with One Author or Editor**

10. Mason J. Concepts in dental public health. Philadelphia: Lippincott Williams & Wilkins; 2005.

11. Ireland R, editor. Clinical textbook of dental hygiene and therapy. Oxford: Blackwell Munksgaard; 2006.

Two-six authors/editors

Author Surname Initials. Title: subtitle. Edition (if not the first). Place of publication: Publisher; Year.

Book with one author or editor

12. Mason J. Concepts in dental public health. Philadelphia: Lippincott Williams & Wilkins; 2005.
13. Ireland R, editor. Clinical textbook of dental hygiene and therapy. Oxford: Blackwell Munksgaard; 2006.

Two-six authors/editors

14. Miles DA, Van Dis ML, Williamson GF, Jensen CW. Radiographic imaging for the dental team. 4th ed. St. Louis: Saunders Elsevier; 2009.
15. Dionne RA, Phero JC, Becker DE, editors. Management of pain and anxiety in the dental office. Philadelphia: WB Saunders; 2002.

More than six authors/editors

16. Fauci AS, Braunwald E, Kasper DL, Hauser SL, Longo DL, Jameson JL, et al., editors. Harrison's principles of internal medicine. 17th ed. New York: McGraw Hill; 2008.

Organization as author

17. Canadian Dental Hygienists Association. Dental hygiene: definition and scope. Ottawa: Canadian Dental Hygienists Association; 1995.

No author/editor

18. Scott's Canadian dental directory 2008. 9th ed. Toronto: Scott's Directories; 2007.

Government document

19. Canada. Environmental Health Directorate. Radiation protection in dentistry: recommended safety procedures for the use of dental x-ray equipment. Safety Code 30. Ottawa: Ministry of Health; 2000.

Chapter in a book

20. Alexander RG. Considerations in creating a beautiful smile. In: Romano R, editor. The art of the smile. London: Quintessence Publishing; 2005. p. 187-210.

E-book

21. Irfan A. Protocols for predictable aesthetic dental restorations [Internet]. Oxford: Blackwell Munksgaard; 2006 [cited 2009 May 21]. Available from Netlibrary: <http://cclsw2.vcc.ca:2048/login?url=http://www.netLibrary.com/urlapi.asp?action=summary&v=1&bookid=181691>

Dissertations

22. Patel K.S, Ph.D. Thesis, “.....” Parul University, May 2015.

Patents

23. Trevor M, Aggelos N and Helmut S. Process for the preparation of aceclofenac. European Patents EP 1082290 A1, 1999.

6. ANNEXURE

6.1. Comment Sheet

Student should submit the comment sheets along with the compliance report in the thesis.

6.2. Anti-plagiarism Check

- 7.1. Students have to submit soft copy of their dissertation thesis to the Head of the institute / University, for Plagiarism check before final printing. The percentage similarity with prior published literature/s should not exceed 20 %.
- 7.2. Plagiarism report generated by the software, containing the title of dissertation and percentage similarity, should be attached in the thesis.
- 7.3. As per the UGC Guidelines, all the thesis will be made available on University's / Institutes website. If there is any complaint regarding plagiarism, the concerned student and his / her Guide will be liable for all consequences if prima facie is established. As per the UGC norms, University can revoke M.Pharm Degree conferred to such students, if the student is found guilty.

6.3. Approval letters

Student must take approvals from different authorities, like Animal Ethical Committee, Human ethical Committee, etc., wherever required. Scanned copy of such approval letters obtained must be published as annexure in the thesis.

6.4. Proof of Publication

Students are encouraged to publish research and/or review articles related to his project work before submission of thesis. If accepted, proof of such acceptance/publication may also be attached as annexure.

7. THESIS SUBMISSION

- 7.1. A student has to submit **four copies** of the bound thesis along with soft copy in pdf format on a CD that is attached at the inside of the back cover of the thesis to the Institution Head.
- 7.2. At the time of thesis submission, the student should submit the proof of having at least one research paper communicated / published in **SJR listed Journals** only.

[Title of Thesis]

A Thesis Submitted
in Partial Fulfillment of the Requirements
for the Degree of [Name of Program (Branch)]

To

Parul University



By

[Student's name as found in PU records and in next line Student's Enrollment Number]

[Supervisor's name with qualification and designation]

FACULTY OF PHARMACY

Name of the Institute

PARUL UNIVERSITY

Month, Year

CERTIFICATE

It is certified that the work contained in the thesis titled “Title of the Thesis,” by “Name of the Student (Enrollment No.____),” has been carried out under my/our supervision and that this work has not been submitted elsewhere for a degree.

[PU Watermark]

Signature of Supervisor

Signature of Principal

Name
Department
Name of Institute
Faculty of Pharmacy
Parul University, Limda

Name
Institute Name
Faculty of Pharmacy
Parul University, Limda

Seal of Institute

(If the work is carried out in industry then a certificate from industry shall also be attached.)

DECLARATION

I hereby declare that this work is my original work and further confirm that:

- This work has been composed by me with the assistance of my Supervisor.
- I have clearly referenced in accordance with the university requirements, in both the text and the bibliography or references, all sources (either from a printed source, internet or any other source) used in the work.
- All data and findings in the work have not been falsified or embellished.
- This work has not been previously or concurrently used either for other courses or within other exam processes as an exam work.
- This work has not been published.

I understand that any false claim in respect of this work will result in disciplinary action in accordance with university regulations.

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Signature of Student with Date:

Name of Student:

Enrollment No:

Name of the Institute:

THESIS APPROVAL

Student: Name of Student

Enrollment No.:

In partial fulfillment of the requirements for the degree of: **Master of Pharmacy in Branch**

Thesis Title:

As research supervisor for the above student, I hereby certify that I have read the student's defended thesis, titled above and have also received the plagiarism report which was found to be within the prescribed limit. Hence, I recommended the thesis to the Faculty of Pharmacy, Parul University for the award of the Degree in Master of Pharmacy.

_____	_____	_____
Name of Supervisor	Signature of Supervisor	Date (dd/mm/yyyy)

The undersigned hereby certify that they recommend the thesis to the Faculty of Pharmacy, Parul University for the award of the Degree in Master of Pharmacy.

_____	_____	_____
Name of Examiner	Signature of Examiner	Date (dd/mm/yyyy)

_____	_____	_____
Name of Examiner	Signature of Examiner	Date (dd/mm/yyyy)

TABLE OF CONTENTS

Particulars	Page No.
Title Page	i
Certificate	ii
Declaration of Originality	iii
Thesis Approval	iv
Dedication Page, if any	v
Acknowledgements	vi
Table of Contents	vii
List of Figures	viii
List of Tables	ix
Abstract	x
Chapter 1 Introduction	1
Chapter 2 Literature Review and Patent Summary	16
Chapter 3 Materials and Methods	26
Chapter 4 Results and Discussions	70
Chapter 5 Summary and Conclusion	130
References	135
Appendix A List of Abbreviation	145
Appendix B Comment Sheet	146
Appendix C Compliance Report	147
Appendix D Plagiarism Report	148
Appendix E Approval Letter (Animal / Ethical Committee) if applicable)	149
Appendix F Proof of Paper Acceptance / Publication	150

ABSTRACT

Title of Abstract

Authors and Affiliation

Type original abstract here: (Not to exceed 250 words) stating the Problem Statement, Purpose, Methods, Results and Conclusions

Keywords:

Summary of Patent Search

Summary of Patent

Sr. No	Patent Application Number/Patent Number	Title of Patent	Name of Applicant	Name of Inventor	Country
1					
2					
3					
4					
5					

Looking at above 05 patents, your Dissertation project is novel up to what extent? Novelty grade:

– 50 to 90%

Looking at the above 05 Patents, please explain about rational of selection of your dissertation project?

(Write at max. in 400 words)*

1. Patent 1:
2. Patent 2:
3. Patent 3:
4. Patent 4:
5. Patent 5:

(Brief about 5 patents (purpose of invention and conclusion))

6. Brief about selection of Rationale based on above 5 patents

Annexure III

Dissertation Rubrics

Sr. No	Description	Criteria for scores above 90%	Criteria for scores between 80% and 89%	Criteria for scores between 70% and 79%	Criteria for scores between 60% and 69%	Criteria for scores between 50% and 59%	Criteria for scores below 50%
1	Technical Skill	Demonstrates in-depth knowledge and thoughtful application in stating an in-depth analysis of key theories supporting the study.	The candidate is generally clear in stating an in-depth analysis of key theories supporting the study.	The candidate has done sufficient analysis of key theories supporting the study.	The candidate has studied the theories and done some level of analysis supporting the study.	The candidate has studied the theories but lacking the in-depth analysis.	Demonstrates minimal knowledge and application of presenting the theoretical framework of the study.
2	Problem Definition with objectives	The title, scope and objectives of the dissertation are innovative and original.	The title, scope and objectives of the dissertation are original.	The title, scope and objectives of the dissertation are sufficiently defined and are original.	The title, scope and objectives of the dissertation are defined but are not original.	Although the title, scope and objectives of the dissertation are defined but are not original.	The title, scope and objectives of the dissertation are poorly defined and are not original.
3	Literature Survey	Excellent knowledge about the previous	Convincing knowledge, coverage,	Sufficient knowledge, interpretation	Sufficient knowledge of the relevant	A basic overview of the literature, with limited	Knowledge, Interpretation and applications

		works, interpretation and applications of the relevant literature.	interpretation and applications of the relevant literature.	and applications of the relevant literature.	literature. Interpretation and applications of the literature need to improve.	interpretation and applications.	of the literature are not proper, used irrelevant literature.
4	Methodology	Demonstrates advanced control, understanding, depth and insight in the application of relevant research methodology, techniques and analysis.	Demonstrates very good control and understanding in the application of relevant research methodology, techniques and analysis.	Thorough knowledge and understanding of the significance of the research. Demonstrates effective application of relevant research methodology, techniques and analysis.	Adequate knowledge and understanding of the significance of the research. Good organization and application of research methodology.	Satisfactory understanding of the significance of the research and a reasonably effective interpretation and application of the methodology.	The work displays such a low level of research methodology, interpretation, findings and layout that it can be regarded as unacceptable.
5	Results/Findings	The chapter organizes and reports the study's main results/findings, including the clear presentation of relevant quantitative (statistical) and /or qualitative (narrative) data.	The chapter organizes and reports the study's main results/findings, but presentation of relevant quantitative (statistical) and /or qualitative (narrative) data is not proper.	The chapter organizes and reports the study's main results/findings without the supportive data.	Discussion about the results/findings can be still better explained.	All the results/findings of the study are not discussed.	The results/findings of the study are not clearly or sufficiently discussed with appropriate data. Findings are poorly organized and statistical analyses (if used) are not appropriate or accurate.
6	Conclusions	The chapter clearly interprets and discusses the results in light of the study's research questions, literature review,	The chapter clearly interprets and discusses the results in light of the study's research questions, literature review.	The discussion, conclusions and recommendations are clearly explained or substantiated by the results/findings.	The discussion, conclusions and recommendations are clearly explained or substantiated by the results/findings.	The discussion, conclusions and recommendations are clearly explained but for some results it is lacking the support by the	The discussion, conclusions and recommendations are not clearly explained or substantiated by the results/findings.

		and conceptual framework, concluding with recommendations for policy and practice.	The connections to the purpose of the study and relevance to the existing body of knowledge are clear.	The connections to the purpose of the study and relevance to the existing body of knowledge are clear.		results/findings.	The connections to the purpose of the study and relevance to the existing body of knowledge are not clear.
7	Thesis	The thesis follows all the standards of the format. There are no or extremely few linguistic and typographical errors, grammatical and almost no rectifications are required.	The thesis is of good quality. There are few linguistic and typographical errors, and few linguistic and/or typographical rectifications required.	The thesis is of acceptable quality. There are less important omissions and linguistic and/or typographical errors. Editing would improve the text.	The thesis requires attention. There are omissions and linguistic and/or typographical errors. Editing/revision would improve the work and errors should definitely be rectified.	The thesis requires serious attention, as there are numerous linguistic and typographical mistakes. These errors should definitely be rectified.	There are serious, conspicuous and unacceptable linguistic and typographical errors. The writing style and layout are plagued by serious problems and should be reviewed as a whole. Most of the material is copied from others without citing.
8	Questions and answers	Student could accurately and firmly answer each question asked to him.	Student could accurately and firmly answer most of questions.	Student could accurately and firmly answer more than 50% questions.	Student could accurately and firmly answer a few questions.	Student could accurately and firmly answer only one or two questions.	Student could not answer all the question asked to him.
9	Presentation Skill	Shows a full understanding of the topic. Presentation is very easy to follow and content very well explained.	Shows a good understanding of the topic. Presentation is easy to follow and content well explained. All information	Shows a good understanding of parts of the topic. Most information included. Average intonation, body	Shows a good understanding of parts of the topic. Presentation is little confusing to follow and content not	Does not seem to understand the topic very well. Presentation is hard to follow and content not effectively explained.	Does not seem to understand the topic very well. Presentation is hard to follow and content not effectively explained.

		Additional information included. Very Good intonation, body language and use of the space.	included. Very Good intonation, body language and use of the space.	language and use of the space.	clearly explained. Most information included. Sometimes show good intonation, body language and use of the space.	Missing information. Incorrect intonation, body language and use of the space.	Missing information. Inappropriate intonation, body language and use of the space.
10	Overall	Deserves a distinction without reserve. A really excellent dissertation. In the top 10% of all master's degree dissertations.	Deserves a distinction. In the top 20% of all master's degree dissertations.	The dissertation is a very acceptable piece of work, but needs that extra spark to turn it into an above-average dissertation.	Seen as a whole, the dissertation is of an acceptable academic standard and deserves an average mark. Some parts require revision/editing.	The academic standard of the dissertation is sufficient to merit a pass mark. The work, however, is in need of serious editing.	The dissertation does not meet the minimum academic requirements, and it is unlikely that even large scale revision/editing would bring the dissertation up to scratch. Additional research may be required.