



**Minutes of Meeting
BOARD OF STUDIES**


Faculty of Pharmaceutical Sciences & Rama Institute of Pharmacy

A meeting of the Board of Studies of Faculty of Pharmaceutical Sciences (FPHS) and Rama Institute of Pharmacy (RIP), Rama University, Kanpur was held on 19-06-2024. The following were present:

Prof.(Dr.) Neelam Jain	Dean, FPHS	Chairperson
Dr. M.S. Chandra Goud	Principal, RIP	Member
Mr. Neeraj Jain	Asso. Prof., FPHS	Member
Ms. Richa Shakya	Asso. Prof., FPHS	Member
Mr. Ajeet Kumar	Asst. Prof., FPHS	Member
Mr. Shubhrat Maheshwari	Asst. Prof., FPHS	Member
Mr. Sayantan Dutta	Asst. Prof., FPHS	Member
Ms. Princy Verma	Asst. Prof., FPHS	Member
Mr. Akhilesh Kumar	Asst. Prof., FPHS	Member
Ms. Alka	Asst. Prof., FPHS	Member
Ms. Diwya Dwivedi	Asst. Prof., FPHS	Member
Mr. Shubham Sharma	Asst. Prof., FPHS	Member
Dr. Rajesh Nath	Asst. Prof., FPHS	Member
Prof.(Dr.) S.P. Singh	Professor	External Member
	Amity Institute of Pharmacy	
	Amity University, Lucknow, U.P.	

Agenda:

S.No.	Item No.	Agenda
1	RU/FPHS/BOS/2024/01	To review the syllabus of B. Pharm, D.Pharm, Pharm D., M. Pharm courses.
2	RU/FPHS/BOS/2024/02	To review the evaluation scheme of Research Methodology and Biostatistics (MRM-303T) in M. Pharm syllabus.
3	RU/FPHS/BOS/2024/03	To approve the format of synopsis and research work for M. Pharm course.
4	RU/FPHS/BOS/2024/04	To approve the format of project report for B. Pharm course.
5	RU/FPHS/BOS/2024/05	To consider the analysis of results of previous semester.
6	RU/FPHS/BOS/2024/06	To approve the research facilities.
7	RU/FPHS/BOS/2024/07	To deliberate and suggest improvement in teaching methodologies to be adopted for curriculum delivery to update the students hands on.
8	RU/FPHS/BOS/2024/08	To discuss to promote the start up activities among UG and PG students.
9	RU/FPHS/BOS/2024/09	Any other item with the permission of the chairperson.


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 Faculty of Pharmaceutical Sciences
 Rama University, Kanpur



Minutes:

Item No.	Discussion	Action Recommended
RU/FPHS/BOS/2024/01	<p>Discussion about the syllabus of B.Pharm, D.Pharm, Pharm D and M.Pharm.</p> <p>The board members have also discussed about to maintain the quality of existing courses.</p> <p>The Expert strongly stressed on hands on exposure of all the courses specifically for the Pharm (D), Pharm D (PB) and M.Pharm courses.</p>	<p>List of all courses along with PCI syllabus and course code has been available. (Annexure 1) to all the authorities. Case study-based assignments must be given to all the students to promote the innovation and maintain the quality of pharmacy education.</p> <p>Kind Attn. - All Course Coordinator Faculty members; Dean FPHS, Principal RIP.</p>
RU/FPHS/BOS/2024/02	<p>Discussion about evaluation scheme of Research Methodology and Biostatistics (MRM-303T) in M. Pharm syllabus.</p> <p>For better understanding of subjects and to fill the gap of subject, softwares have been proposed to perform the statistical test for significance i.e. ANOVA.</p>	<p>Kind Attn. - All Course Coordinator Faculty members; Dean FPHS</p>
RU/FPHS/BOS/2024/03	<p>The board members, external member with the permission of chairperson approved the format of synopsis as well as research work for M. Pharm course.</p> <p>Guidelines with specimen copy have been proposed.</p>	<p>Kind Attn. - All Course Coordinator Faculty members; Dean FPHS</p>
RU/FPHS/BOS/2024/04	<p>The board members, external member with the permission of chairperson approved the format of project work for B. Pharm course.</p> <p>Guidelines with specimen copy have been proposed.</p>	<p>Kind Attn. - All Course Coordinator Faculty members; Dean FPHS</p>
RU/FPHS/BOS/2024/05	<p>Last year results analyzed by board members.</p> <p>Last Year result of B.Pharm was satisfactory 63%, D.Pharm was good 71%, Pharm D (PB) and M.Pharm was excellent 100% for FPHS.</p> <p>Last Year result of B.Pharm for RIP was on average 44%.</p>	
RU/FPHS/BOS/2024/06	<p>As research work of PG scholars has been started so to promote the research facilities, central instrumentation lab and animal house facility has been proposed for the smooth conduction of research.</p>	<p>Kind Attn. - Dean FPHS along with suggestion of experts and board members has instructed to maintain a research lab headed by Dean.</p>
RU/FPHS/BOS/2024/07	<p>The board members along with Dean suggested for the continuous improvement of teaching methodologies through FDP, Expert Talk, Workshops and Seminars to upgrade the knowledge among researchers and academicians.</p>	<p>Kind Attn. - Case study based assignments and seminars must be conducted among all students to promote the quality of pharmacy education.</p> <p>Exposure must be given to PG scholars especially for animal handling and experimentation and clinical exposure to Pharm D students.</p>



RU/FPHS/BOS/2024/08	External member suggests that various experts from outside the University shall be invited to promote the innovation interdisciplinary thinking for start Up.	Kind Attn. - All faculty members, Principal RIP, Dean FPHS instructed to arrange one expert lecture monthly to update the research knowledge.
RU/FPHS/BOS/2024/09	Dean FPHS suggested extracurricular activities like sports, cultural events, Model/Poster making related to pharmacy education etc for students.	Kind Attn. All Faculty Members; Principal RIP, Dean FPHS

The meeting concluded with a vote of thanks to the Chair.

(End of the Document)

- cc:
1. Dean Academics and Planning Office
 2. Registrar Office

N. Jaiswal
 Dean
 Faculty of Pharmaceutical Sciences
 Rama University, Kanpur



भारत का राजपत्र The Gazette of India

साप्ताहिक/WEEKLY

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 19] नई दिल्ली, शनिवार, मई 10—मई 16, 2008 (वैशाख 20, 1930)
No. 19] NEW DELHI, SATURDAY, MAY 10—MAY 16, 2008 (VAISAKHA 20, 1930)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 4

[PART III—SECTION 4]

[सांविधिक निकायों द्वारा जारी की गई विविध अधिसूचनाएं जिसमें कि आदेश, विज्ञापन और सूचनाएं सम्मिलित हैं]
[Miscellaneous Notifications including Notifications, Orders, Advertisements and Notices issued by
Statutory Bodies]

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

सदर्भ : बैंपवि. सं. आईबीडी.-14241/23.13.048/2007-08--भारतीय रिज़र्व बैंक अधिनियम, 1934 (1934 का 2) की धारा 42 की उप-धारा (6) के खण्ड (ग) के अनुसरण में भारतीय रिज़र्व बैंक इसके द्वारा निदेश देता है कि उक्त अधिनियम की दूसरी अनुसूची में निम्नलिखित परिवर्तन किये जाएं :--

“अरब बांग्लादेश बैंक लिमिटेड” शब्दों के स्थान पर “एबी बैंक लिमिटेड” शब्द होंगे।


Dean
Faculty of Pharmaceutical Sciences
Rama University, Kanpur

आनन्द सिन्हा
कार्यपालक निदेशक

[PUBLISHED IN THE GAZETTE OF INDIA, No.19, PART III, SECTION 4]

Ministry of Health and Family Welfare
(Pharmacy Council of India)

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

Regulations framed under section 10 of the Pharmacy Act, 1948 (8 of 1948).

(As approved by the Government of India, Ministry of Health vide, letter No.V.13013/1/2007-PMS, dated the 13th March, 2008 and notified by the Pharmacy Council of India).

No.14-126/2007-PCI.— In exercise of the powers conferred by section 10 of the Pharmacy Act, 1948 (8 of 1948), the Pharmacy Council of India, with the approval of the Central Government, hereby makes the following regulations, namely:-

CHAPTER-I

1. Short title and commencement. – (1) These regulations may be called the Pharm.D. Regulations 2008.
(2) They shall come into force from the date of their publication in the official Gazette.
2. Pharm.D. shall consist of a certificate, having passed the course of study and examination as prescribed in these regulations, for the purpose of registration as a pharmacist to practice the profession under the Pharmacy Act, 1948.


Dean
Faculty of Pharmaceutical Sciences
Rama University, Kanpur

CHAPTER-II

3. Duration of the course. –

- a) Pharm.D: The duration of the course shall be six academic years (five years of study and one year of internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of six years duration is divided into two phases –

Phase I – consisting of First, Second, Third, Fourth and Fifth academic year.

Phase II – consisting of internship or residency training during sixth year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services and acquires skill under supervision so that he or she may become capable of functioning independently.

- b) Pharm.D. (Post Baccalaureate): The duration of the course shall be for three academic years (two years of study and one year internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of three years duration is divided into two phases –

Phase I – consisting of First and Second academic year.

Phase II – consisting of Internship or residency training during third year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services, and acquires skill under supervision so that he or she may become capable of functioning independently.

4. Minimum qualification for admission to. –

- a) Pharm.D. Part-I Course – A pass in any of the following examinations -

(1) 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the following subjects:

Mathematics or Biology.

(2) A pass in D.Pharm course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

(3) Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

Provided that a student should complete the age of 17 years on or before 31st December of the year of admission to the course.

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.


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b) Pharm.D. (Post Baccalaureate) Course -

A pass in B.Pharm from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act:

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.

5. Number of admissions in the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below –
 - i) Pharm.D. Programme – 30 students.
 - ii) Pharm.D. (Post Baccalaureate) Programme – 10 students.
6. Institutions running B.Pharm programme approved under section 12 of the Pharmacy Act, will only be permitted to run Pharm.D. programme. Pharm.D. (Post Baccalaureate) programme will be permitted only in those institutions which are permitted to run Pharm.D. programme.
7. Course of study. – The course of study for Pharm.D. shall include the subjects as given in the Tables below. The number of hours in a week, devoted to each subject for its teaching in theory, practical and tutorial shall not be less than that noted against it in columns (3), (4) and (5) below.

T A B L E S

First Year :

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
1.1	Human Anatomy and Physiology	3	3	1
1.2	Pharmaceutics	2	3	1
1.3	Medicinal Biochemistry	3	3	1
1.4	Pharmaceutical Organic Chemistry	3	3	1
1.5	Pharmaceutical Inorganic Chemistry	2	3	1
1.6	Remedial Mathematics/ Biology	3	3*	1
	Total hours	16	18	6 = (40)

* For Biology


 Dean
 Faculty of Pharmaceutical Sciences
 Baba University, Kaopu

Sixth Year:

Internship or residency training including postings in speciality units. Student should independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other speciality departments

8. Syllabus. – The syllabus for each subject of study in the said Tables shall be as specified in Appendix -A to these regulations.
9. Approval of the authority conducting the course of study. – (1) No person, institution, society or university shall start and conduct Pharm.D or Pharm.D. (Post Baccalaureate) programme without the prior approval of the Pharmacy Council of India.
- (2) Any person or pharmacy college for the purpose of obtaining permission under sub-section (1) of section 12 of the Pharmacy Act, shall submit a scheme as prescribed by the Pharmacy Council of India.
- (3) The scheme referred to in sub-regulation (2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed:
- Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs., equipments, teaching staff, non-teaching staff, etc., as specified in Appendix-B to these regulations.
10. Examination. – (1) Every year there shall be an examination to examine the students.
- (2) Each examination may be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.
- (3) The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part of a subject as indicated in Tables below :

T A B L E S**First Year examination :**

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
1.1	Human Anatomy and Physiology	70	30	100	70	30	100
1.2	Pharmaceutics	70	30	100	70	30	100
1.3	Medicinal Biochemistry	70	30	100	70	30	100
1.4	Pharmaceutical Organic Chemistry	70	30	100	70	30	100
1.5	Pharmaceutical Inorganic Chemistry	70	30	100	70	30	100
1.6	Remedial Mathematics/Biology	70	30	100	70*	30*	100*
				600			600 = 1200

* for Biology.


 Dean
 Faculty of Pharmaceutical Sciences
 Kuvempu University, Kuvempu

Fifth Year examination :


S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
5.1	Clinical Research	70	30	100	-	-	-
5.2	Pharmacoepidemiology and Pharmacoeconomics	70	30	100	-	-	-
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	70	30	100	-	-	-
5.4	Clerkship *	-	-	-	70	30	100
5.5	Project work (Six Months)	-	-	-	100**	-	100
				300			200 = 500

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)

70 marks – Thesis work


11. Eligibility for appearing Examination.— Only such students who produce certificate from the Head of the Institution in which he or she has undergone the Pharm.D. or as the case may be, the Pharm.D. (Post Baccalaureate) course, in proof of his or her having regularly and satisfactorily undergone the course of study by attending not less than 80% of the classes held both in theory and in practical separately in each subject shall be eligible for appearing at examination.
12. Mode of examinations.— (1) Theory examination shall be of three hours and practical examination shall be of four hours duration.
- (2) A Student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of the same subject.
- (3) Practical examination shall also consist of a viva –voce (Oral) examination.
- (4) Clerkship examination – Oral examination shall be conducted after the completion of clerkship of students. An external and an internal examiner will evaluate the student. Students may be asked to present the allotted medical cases followed by discussion. Students' capabilities in delivering clinical pharmacy services, pharmaceutical care planning and knowledge of therapeutics shall be assessed.
13. Award of sessional marks and maintenance of records.— (1) A regular record of both theory and practical class work and examinations conducted in an institution imparting training for Pharm.D. or as the case may be, Pharm.D. (Post Baccalaureate) course, shall be maintained for each student in the institution and 30 marks for each theory and 30 marks for each practical subject shall be allotted as sessional.
- (2) There shall be at least two periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.
- (3) The sessional marks in practicals shall be allotted on the following basis:-
- (i) Actual performance in the sessional examination (20 marks);
- (ii) Day to day assessment in the practical class work, promptness, viva-voce record maintenance, etc. (10 marks).


Dean
Faculty of Pharmaceutical Sciences
Rajma University, Kanpur

Tables – 26: Schemes for internal assessments and end semester examinations
(Semester III& IV)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER III								
MRM301T	Research Methodology and Biostatistics*	10	15	1 Hr	25	75	3 Hrs	100
-	Journal club	-	-	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	-	-	-	50	-	-	50
-	Research work*	-	-	-	-	350	1 Hr	350
Total								525
SEMESTER IV								
-	Journal club	-	-	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	-	-	-	75	-	-	75
-	Research work and Colloquium	-	-	-	-	400	1 Hr	400
Total								500

*Non University Examination


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Tables - 1616 : Schemes for internal assessments and end semester
(Pharmaceutics- MPH)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continu- ous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPH 101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPH 102T	Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH 103T	Modern Pharmaceutics	10	15	1 Hr	25	75	3 Hrs	100
MPH 104T	Regulatory Affair	10	15	1 Hr	25	75	3 Hrs	100
MPH 105P	Pharmaceutics Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPH 201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	10	15	1 Hr	25	75	3 Hrs	100
MPH 202T	Advanced Biopharmaceutics & Pharmacokinetics	10	15	1 Hr	25	75	3 Hrs	100
MPH 203T	Computer Aided Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH	Cosmetic	10	15	1 Hr	25	75	3 Hrs	100

Tables – 25: Schemes for internal assessments and end semester examinations
(Pharmacognosy-MPG)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPG101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPG102T	Advanced Pharmacognosy-I	10	15	1 Hr	25	75	3 Hrs	100
MPG103T	Phytochemistry	10	15	1 Hr	25	75	3 Hrs	100
MPG104T	Industrial Pharmacognostical Technology	10	15	1 Hr	25	75	3 Hrs	100
MPG105P	Pharmacognosy Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPG201T	Medicinal Plant biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPG102T	Advanced Pharmacognosy-II	10	15	1 Hr	25	75	3 Hrs	100
MPG203T	Indian system of medicine	10	15	1 Hr	25	75	3 Hrs	100
MPG204T	Herbal cosmetics	10	15	1 Hr	25	75	3 Hrs	100
MPG205P	Pharmacognosy Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650


Dean

Faculty of Pharmaceutical Sciences
Rania University, Kanpur

Table - 4: Course of study for M. Pharm. (Pharmaceutical Chemistry)

Course Code	Course	Credit Hours	Credit Points	Hrs./week	Marks
Semester I					
MPC101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPC1012T	Advanced Organic Chemistry -I	4	4	4	100
MPC103T	Advanced Medicinal chemistry	4	4	4	100
MPC104T	Chemistry of Natural Products	4	4	4	100
MPC105P	Pharmaceutical Chemistry Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPC201T	Advanced Spectral Analysis	4	4	4	100
MPC202T	Advanced Organic Chemistry -II	4	4	4	100
MPC203T	Computer Aided Drug Design	4	4	4	100
MPC204T	Pharmaceutical Process Chemistry	4	4	4	100
MPC205P	Pharmaceutical Chemistry Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650


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 Faculty of Pharmaceutical Sciences,
 Rama University, Kampur

(Pharmaceutical Chemistry-MPC)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Cont inuous Mod e	Sessional Exams		Tot al	Mar ks	Du rati on	
			Mar ks	Durati on				
SEMESTER I								
MPC101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPC102T	Advanced Organic Chemistry -I	10	15	1 Hr	25	75	3 Hrs	100
MPC103T	Advanced Medicinal chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC104T	Chemistry of Natural Products	10	15	1 Hr	25	75	3 Hrs	100
MPC105P	Pharmaceutical Chemistry Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPC201T	Advanced Spectral Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPC202T	Advanced Organic Chemistry -II	10	15	1 Hr	25	75	3 Hrs	100
MPC203T	Computer Aided Drug Design	10	15	1 Hr	25	75	3 Hrs	100
MPC204T	Pharmaceutical Process Chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC205P	Pharmaceutic	20	30	6 Hrs	50	100	6	150

	al Chemistry Practical II						Hrs	
	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

Tables - 19: Schemes for internal assessments and end semester examinations
(Pharmaceutical Analysis-MPA)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continu- ous Mode	Sessional Exams		Tot- al	Mark- s	Dura- tion	
			Mark- s	Durati- on				
SEMESTER I								
MPA101T	Modern Pharmaceuti- cal Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA102T	Advanced Pharmaceuti- cal Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA103T	Pharmaceuti- cal Validation	10	15	1 Hr	25	75	3 Hrs	100
MPA104T	Food Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA105P	Pharmaceuti- cal Analysis- I	20	30	6 Hrs	50	100	6 Hrs	150
	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPA201T	Advanced Instrumental Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA202T	Modern Bio- Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPA203T	Quality Control and Quality	10	15	1 Hr	25	75	3 Hrs	100

Tables - 23: Schemes for internal assessments and end semester examinations
(Pharmacy Practice-MPP)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPP10 1T	Clinical Pharmacy Practice	10	15	1 Hr	25	75	3 Hrs	100
MPP10 2T	Pharmacotherapeutics-I	10	15	1 Hr	25	75	3 Hrs	100
MPP10 3T	Hospital & Community Pharmacy	10	15	1 Hr	25	75	3 Hrs	100
MPP10 4T	Clinical Research	10	15	1 Hr	25	75	3 Hrs	100
MPP10 5P	Pharmacy Practice Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPP20 1T	Principles of Quality Use of Medicines	10	15	1 Hr	25	75	3 Hrs	100
MPP10 2T	Pharmacotherapeutics II	10	15	1 Hr	25	75	3 Hrs	100
MPP20 3T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	10	15	1 Hr	25	75	3 Hrs	100
MPP20 4T	Pharmacoepidemiology & Pharmacoconomics	10	15	1 Hr	25	75	3 Hrs	100
MPP20 5P	Pharmacy Practice Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

Tables – 24: Schemes for internal assessments and end semester examinations
(Pharmacology-MPL)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPL10 1T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPL10 2T	Advanced Pharmacology-I	10	15	1 Hr	25	75	3 Hrs	100
MPL10 3T	Pharmacological and Toxicological Screening Methods-I	10	15	1 Hr	25	75	3 Hrs	100
MPL10 4T	Cellular and Molecular Pharmacology	10	15	1 Hr	25	75	3 Hrs	100
MPL10 5P	Experimental Pharmacology - I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPL20 1T	Advanced Pharmacology II	10	15	1 Hr	25	75	3 Hrs	100
MPL10 2T	Pharmacological and Toxicological Screening Methods-II	10	15	1 Hr	25	75	3 Hrs	100
MPL20 3T	Principles of Drug Discovery	10	15	1 Hr	25	75	3 Hrs	100
MPL20 4T	Clinical research and pharmacovigilance	10	15	1 Hr	25	75	3 Hrs	100
MPL20 5P	Experimental Pharmacology - II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

Tables - 25: Schemes for internal assessments and end semester examinations
(Pharmacognosy-MPG)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPG10 1T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPG10 2T	Advanced Pharmacognosy-I	10	15	1 Hr	25	75	3 Hrs	100
MPG10 3T	Phytochemistry	10	15	1 Hr	25	75	3 Hrs	100
MPG10 4T	Industrial Pharmacognostical Technology	10	15	1 Hr	25	75	3 Hrs	100
MPG10 5P	Pharmacognosy Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPG20 1T	Medicinal Plant biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPG10 2T	Advanced Pharmacognosy-II	10	15	1 Hr	25	75	3 Hrs	100
MPG20 3T	Indian system of medicine	10	15	1 Hr	25	75	3 Hrs	100
MPG20 4T	Herbal cosmetics	10	15	1 Hr	25	75	3 Hrs	100
MPG20 5P	Pharmacognosy Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650


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Tables – 26: Schemes for internal assessments and end semester examinations
(Semester III& IV)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER III								
MRM301T	Research Methodology and Biostatistics*	10	15	1 Hr	25	75	3 Hrs	100
-	Journal club	-	-	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	-	-	-	50	-	-	50
-	Research work*	-	-	-	-	350	1 Hr	350
Total								525
SEMESTER IV								
-	Journal club	-	-	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	-	-	-	75	-	-	75
-	Research work and Colloquium	-	-	-	-	400	1 Hr	400
Total								500

*Non University Examination


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GUIDELINES FOR PROJECT REPORT (BACHELOR OF PHARMACY)

PROJECT REPORT PREPARATION

1. Page Dimensions, Margins and Quality

The page dimensions of the final copies of the project report should be 290mm x 205mm. Standard A4 size (297mm x 210mm) paper may be used for preparing the copies. It should have the following page margins:

Top edge : 25 mm, Bottom edge : 25 mm

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2. Cover Page/ Title Page

A specimen of the cover/title page is given in the specimen copy.

3. Declaration and Bonafide Certificate of Supervision - As per specimen copy.

4. Font and font size –

Headings - Times New Roman, font size 14

Other content- Times New Roman, font size 12

5. Table of Contents

The table of contents should list all the contents following this section. The preceding section like the Title Page, Certificate and Acknowledgements will not find a place amongst the items listed in the Table of Contents. but the page numbers in lower case Roman letters shall be accounted for them. The title TABLE OF CONTENTS in Times New Roman with size 14 bold as heading be placed in centre. One and a half spacing should be adopted for typing the contents in a manner shown in specimen copy.

6. List of Tables

The list of tables should use exactly the same numbers and captions as they appear above the tables in the text. See sections 3.11 and 5.3 for the style of titling, numbering and placing of tables. Single spacing in Time New Roman with size 12 should be used.

7. List of Figures


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The list of figures should use exactly the same numbers and captions as they appear below the figures in the text. See section 3.11 and 5.3 for the style of titling, numbering and placing of figures. Single spacing in Time New Roman with size 12 should be used.

8. List of Symbols, Abbreviations and Nomenclature

Single spacing in Time New Roman with size 12 should be used typing the matter under this head. As far as possible, standard and popularly used symbols, abbreviations etc. should be adopted.

9. Chapters

Chapters of a project report may be broadly divided into 3 parts (i) introduction, literature survey and identification of problem and issues (ii) statement, formulation and presentation of the problem, solution approach (iii) findings, results, discussion, implementation and conclusions, and directions for future research. Each part may be suitably divided into several chapters, and a chapter may be further divided into several sections and sub-sections, sub-sub-sections. Each chapter should be given an appropriate title. Tables and figures in a chapter should be typed in title mode in single space in Time New Roman with font size 12. The titles of tables should be placed directly above the table whereas the titles of figures should be placed directly underneath the figure in the very same page which refers to the contents they annotate. Footnotes should be used sparingly. They should be typed single space and placed directly underneath in the very same page which refers to the material they annotate.

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11. Citation of References in the project report

Any work of other researchers used either directly or indirectly used in the research must be indicated at appropriate places in the project report. It could be a journal paper, a paper in conference proceedings, a monograph, a personal communication, or a book; in physical or electronic form. The standard should be followed as given below:

- If more than two authors the “Sir name of the first author et al. []” e.g., [73] A. Rao, R. K. Singh, and N. Srivastava, “In band Full-duplex Radio: A survey” in International Journal of Applied Engineering Research, 2019, vol I, pp. 81-86. Should be cited as Rao et al. [73]

- If two authors then “Sir name of first and Surname of second author []” e.g., [79] S. Sawyer and P.J. Guiman, “Software Development: Processing and Performance,” BM Syst. J., vol 37, no. 4, pp. 552-569, 1998. Should be cited as Sawyer and Guinan [79]

- If single author paper then “Full name of author []”

e.g., [72] R. Snijders, “Crowded Centric Requirements,” in International Conference on Utility and Cloud Computing, 2014, pp. 614-615. Should be cited as R. Snijders [72]

12. Listing of References in the REFERENCE section

The listing of references should be typed in alphabetical order of the first author’s name in single spacing starting 4 spaces below the heading REFERENCES in Times New Roman with font size 14 bold. The references should be serially numbered, separated by single space. For typing the references, Times New Roman with font size 11 is recommended. Few suggestive examples given in section 8 should be followed for referencing.

13. Typing instructions

General

- This section includes additional information for final typing of the project report. Some information given earlier under “Manuscript Preparation” shall also be referred to. The impression on the typed/ duplicated/ printed copies should be black in colour.
- Certain symbols characters or markings not found in a standard word processor may be hand written using Indian ink or a stylus pen (in case stencil sheets are used). Corrections, interlineations and crossing out of letters or words are not permitted in any of the copies of the project report intended for submission. Erasures, if made, should be neatly carried out in all copies.
- A sub-heading at the bottom of a page must have at least one full line below it or else it should be carried over to the next page.
- The last word of any page should not be split using a hyphen.
- Line spacing of 1.15 should be used for typing the general text.
- The general text shall be typed in font Style Times New Roman and Font Size 12.

14. References

All quotations exceeding one line should be typed in an indented space - the indentation being 15mm from either margin.

15. Chapters, Sections, Sub-sections, and Paragraphs


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The format for typing Chapter headings, Section headings and sub-section headings are explained through the following illustrative examples.

Chapter headings: CHAPTER 1 INTRODUCTION

Section: 1.1 OUTLINE OF PROJECT REPORT

Sub-section heading: 1.1.1 Literature Review.

16. Numbering Instructions

16.1. Page Numbering

The preliminary pages of the project report (such as Title page, Acknowledgement, Table of Contents etc.) should be numbered in lower case Roman numerals e.g. (i), (ii), (iii), The Title page, however, will be treated numbered as (i) but this will not be typed. The page immediately following the title page shall be numbered (ii) and it should appear at the bottom center of the page, and so on. Pages of the main text, starting with Chapter 1 should be consecutively numbered using Arabic numerals e.g. 1, 2, All page numbers (whether Roman or Arabic) should be typed without punctuation in the center of the page 15mm above from the bottom.

16.2. Numbering of Chapters, Sections and Sub-sections

The numbering of Chapters, sections and sub-sections should be done using Arabic numerals only and further decimal notation should be used for numbering the sections and sub-sections within a chapter. For examples sub-section 4 under section 3 of chapter 2 should be numbered as 2.3.4. The heading for a section or a sub-section should immediately follow in the same line after the number with a line spacing of 1.15 in between.

16.3. Numbering of Tables and Figures

Tables and figures appearing anywhere in the project report should bear appropriate numbers. The rule for assigning such numbers is illustrated through an example. If a figure in Chapter 3, happens to be the fourth then Fig. 3.4 is assigned to that figure. Identical rules apply for tables except that the word figure is replaced by the word Table. If a table is to be continued into the next page, then a line should be drawn underneath an unfinished table and the phrase continued on page no... placed on the right side and underlined should be typed just below the line. The top line of the table continued on the next page should, for example read Table 2.1 (continued) placed centrally and underlined. While referring to a figure or table in the body of the project report it should be referred to as Fig. 3.4, Table 2.1, Table II.6, and so on.

17. Project report Submission and Binding Specifications

Colour Code - bound with hard cover not less than 120 gsm with black color with impressions printed in golden colour. The side back of the report should also carry the title, name of candidate and month and year of final submission.

Copies - Bound with hard cover triplet copies


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18. References

For knowing more about the styles and presentation, the following few references should be followed:

Journal Research Papers:

1. Nintanavongsa, Prusayon, Ufuk Muncuk, David Richard Lewis, and Kaushik Roy Chowdhury. "Design optimization and implementation for RF energy harvesting circuits." IEEE Journal on emerging and selected topics in circuits and systems 2, no. 1 (2012): 24-33.
2. Lee, Hoon, Sang-Rim Lee, Kyoung-Jae Lee, Han-Bae Kong, and Inkyu Lee. "Optimal beamforming designs for wireless information and power transfer in MISO interference channels." IEEE Transactions on Wireless Communications 14, no. 9 (2015): 4810-4821.
3. Mo, Jeonghoon, Hoi-Sheung Wilson So, and Jean Walrand. "Comparison of multichannel MAC protocols." IEEE Transactions on mobile computing 7, no. 1 (2008): 50-65.

Magazines:

1. Candès, Emmanuel J., and Michael B. Wakin. "An introduction to compressive sampling [a sensing/sampling paradigm that goes against the common knowledge in data acquisition]." IEEE signal processing magazine 25, no. 2 (2008): 21-30.
2. Leaves, Paul, Klaus Moessner, Rahim Tafazolli, David Grandblaise, Didier Bourse, Ralf Tonjes, and Michele Breveglieri. "Dynamic spectrum allocation in composite reconfigurable wireless networks." IEEE Communications Magazine 42, no. 5 (2004): 72-81.
3. Demestichas, Panagiotis, Guillaume Vivier, Karim El-Khazen, and M. Theologou. "Evolution in wireless systems management concepts: from composite radio environments to reconfigurability." IEEE Communications Magazine 42, no. 5 (2004): 90-98.

Conference Papers:

- 1 Clancy, T. Charles. "Achievable capacity under the interference temperature model." In IEEE INFOCOM 2007-26th IEEE International Conference on Computer Communications, pp. 794-802. IEEE, 2007.
- 2 Pandharipande, Ashish, and J-PMG Linnartz. "Performance analysis of primary user detection in a multiple antenna cognitive radio." In 2007 IEEE International Conference on Communications, pp. 6482-6486. IEEE, 2007.
- 3 Zheng, Haitao, and Chunyi Peng. "Collaboration and fairness in opportunistic spectrum access." In IEEE International Conference on Communications, 2005. ICC 2005. 2005, vol. 5, pp. 3132-3136. IEEE, 2005.


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Symposium Papers:

- 1 Buddhikot, Milind M., Paul Kolodzy, Scott Miller, Kevin Ryan, and Jason Evans. "DIMSUMnet: new directions in wireless networking using coordinated dynamic spectrum." In Sixth IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks, pp. 78-85. IEEE, 2005.
- 2 Pérez-Romero, Jordi, Oriol Sallent, Ramón Agustí, and Lorenza Giupponi. "A novel on-demand cognitive pilot channel enabling dynamic spectrum allocation." In 2007 2nd IEEE international symposium on new frontiers in dynamic spectrum access networks, pp. 46-54. IEEE, 2007.
- 3 Raman, Chandrasekharan, Roy D. Yates, and Narayan B. Mandayam. "Scheduling variable rate links via a spectrum server." In First IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks, 2005. DySPAN 2005., pp. 110-118. IEEE, 2005.

Workshop Papers:

1. Mitola Iii, Joseph. "Cognitive radio for flexible mobile multimedia communications." Mobile Networks and Applications 6, no. 5 (2001): 435-441.
2. Holland, Oliver, Vasilis Friderikos, and A. Hamid Aghvami. "Green spectrum management for mobile operators." In 2010 IEEE Globecom Workshops, pp. 1458-1463. IEEE, 2010.
3. Cabric, Danijela, Artem Tkachenko, and Robert W. Brodersen. "Experimental study of spectrum sensing based on energy detection and network cooperation." In Proceedings of the first international workshop on Technology and policy for accessing spectrum, p. 12. ACM, 2006.

Books:

1. Marsch, Patrick, and Gerhard P. Fettweis, eds. Coordinated Multi-Point in Mobile Communications: from theory to practice. Cambridge University Press, 2011.
2. Xiao, Yang, and Fei Hu, eds. Cognitive radio networks. CRC press, 2008.
3. Caso, Giuseppe, Mai T. Phuong Le, Luca De Nardis, and Maria-Gabriella Di Benedetto. "Non-cooperative and cooperative spectrum sensing in 5G cognitive networks." Handbook of Cognitive Radio (2017): 1-21.

Book Chapter:

1. Karygiannis, Tom, and Les Owens. "Wireless network security." NIST special publication 800 (2002): 48.
2. Frankel, Sheila, Bernard Eydt, Les Owens, and Karen Scarfone. "Establishing wireless robust security networks: a guide to IEEE 802.11 i." National Institute of Standards and Technology (2007).
3. Karygiannis, Tom, and Les Owens. "Wireless network security." NIST special publication 800 (2002): 48.


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Thesis:

1. Mitola III, Joseph. "Cognitive radio: an integrated agent architecture for software radio." Royal Institute of Technology (KTH) (2000).
2. Lehtomaki, Janne. "Analysis of energy based signal detection." Ph. D. Thesis, University of Oulu (2005).
3. Luo, Chenchi. "Non-uniform sampling: algorithms and architectures." PhD diss., Georgia Institute of Technology, (2012).

Dissertation:

1. J. Mitola, "Cognitive radio: An integrated agent architecture for software defined radio," Ph.D. dissertation, KTH Royal Inst. of Technol., Stockholm, Sweden, 2000.
2. Sharma, Shree Krishna. "Interweave/underlay cognitive radio techniques and applications in satellite communication systems." PhD diss., University of Luxembourg, Luxembourg, 2014.
3. Duarte, Melissa. "Full-duplex wireless: Design, implementation and characterization." PhD diss., Rice University, 2012.

Report:

1. Force, FCC Spectrum Policy Task. "Report of the spectrum efficiency working group." http://www.fcc.gov/sptf/files/SEWGFinalReport_1.pdf (2002).
2. DARPA, ATO. "Next Generation (XG) Program." <http://www.darpa.mil/ato/programs/xg/index.htm>.
3. Mobile VCE. Green Radio, Aug. (2015). [Online]. Available: <http://www.mobilevce.com/green-radio>


Faculty of Pharmaceutical Sciences
Rama University, Kanpur

TITLE OF PROJECT



A Project Report Submitted

In the Partial Fulfilment of the requirement for the degree of

BACHELOR OF PHARMACY

Submitted By

Student name

(Roll No: 200112012009)

Under the guidance of


SUPERVISOR NAME

(Designation)

FACULTY OF PHARMACEUTICAL SCIENCES

RAMA UNIVERSITY, KANPUR, UTTAR PRADESH

May, 2024


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Rama University, Kanpur

CERTIFICATE

This is to certify that **Name of Student (Roll No. xxxxxxxxx)**, has carried out the research work presented in this report entitled "**Project Title**" for the award of **Bachelor of Pharmacy** from Faculty of Pharmaceutical Sciences, Rama University, Kanpur under guidance of **Name of Supervisor**. The report embodies results of original work and studies are carried out by the student himself and the contents of the report do not for the basis of award of any other degree to the candidate or to anybody else from this or any other university / institution.

(Signature)

Date:

Supervisor Name

Place:

Designation


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DECLARATION

I, hereby declare that this report entitled "**Project title**" is a Bonafide an genuine research work carried out by me in partial fulfilment of the requirements of the degree of **Bachelor of Pharmacy** under the supervision and guidance of **Name of Supervisor**, Faculty of Pharmaceutical Sciences Rama University, Kanpur (U.P.) The work is original and has not been submitted in any part or whole to any other university or institution for the award of any degree or fellowship.

Date:

(Student Signature)

Place:

STUDENT NAME

Roll No. XXXXXXXX


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Rama University, Kanpur

ACKNOWLEDGEMENTS

First and foremost, I would like to express gratitude and heartiest deep-felt thanks to ALMIGHTY GOD, the Creator of the mankind for giving me the opportunity to carry on research and making all my paths free of obstacles. I thank GOD for his blessings as without the will of GOD the completion of my work would not have been possible.

Towards the submission of this dissertation, I would seize the opportunity to acknowledge my gratitude towards all those who have extended their kind help and support in fulfilling this endeavour.

Accomplishment of even a small piece of scientific work is possible only with the sincerest enlightenment of the path by the "MASTER" of the "STATE OF ART". To express my gratitude even satisfactorily to such an eminent and honorable Chancellor, **Dr. Suraj B.S. Kushwah, Rama University, Kanpur.**

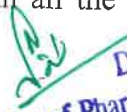
I am deeply indebted to **(Prof) Dr.**, Dean, Faculty of Pharmaceutical Sciences, Rama University, Kanpur for providing good infrastructure facilities and encouragement.

I am extremely indebted to my supervisor, **Name of Supervisor, Designation**, Faculty of Pharmaceutical Sciences, Rama University, Kanpur, for his/her valuable guidance and support. His/her friendly suggestions and caring attitude helped me make my way successfully through many obstacles. He/She, besides giving me an open and flexible environment to work, also made me realize the professional responsibilities associated with this work. It wouldn't have been possible without his/her constant source of encouragement.

It is my pleasure to express my deep sense of gratitude and thankfulness to my faculty members for invigorates guidance, felicitous advice, punctilious and valuable hints with energizing, criticism, thought during the course of my research work. Indeed, without his guidance and optimistic approach this project wouldn't have been a successful one.

I am also thankful to all supporting staff of department for their kind help and support throughout my study period.

Friends are like gifts of god. I feel so fortunate to have such dear friends who have helped me in the hour of need. Thank you for stimulating discussions along with all the fun we had throughout our work.


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But above all, I feel short of words to express thanks to my beloved mother and father who sacrificed their needs for me and it wouldn't have been possible without their prayers and blessings. Their constant support, unconditional love and care have brought me to this stage. Their inspiration and motivation have always been a driving force behind my efforts. I am thankful to my indeed family members for their constant support in the long hours of working which were always easier with their encouragement and cooperation. I would like to thank everybody who was important to the successful realization of thesis, as well as expressing my apology that I could not mention personally one by one.

Name of Student


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TABLE OF CONTENT

Declaration

Certificate

Authentication certificate

Acknowledgement

Abstract

List of Tables

List of Figures

List of abbreviation, keywords

CHAPTER-1: Introduction

CHAPTER-2: Aim and Objectives

CHAPTER-3: Review of Literature

CHAPTER-5: Materials & Methods

CHAPTER-6: Result and Discussion

CHAPTER-7: Conclusion

References


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GUIDELINES FOR SYNOPSIS/THESIS PREPARATION **(MASTER OF PHARMACY)**

Sequence of Contents

The following sequence for the thesis organization should be followed:

Preliminaries

- (i) Front(Title) Page
- (ii) Forwarding letter of Head of Department
- (iii) Declaration by the candidate
- (iv) Certificate of the supervisor and Co-supervisor (if any)
- (v) Expression of Gratitude
- (vi) Table of content
- (vii) List of Tables
- (viii) List of Charts
- (ix) List of Figures
- (x) List of Graphs
- (xi) List of Abbreviations (sorted in alphabetical order)
- (xii) List of Symbols (in order of their use in text)
- (xiii) Abstract of thesis (Max 250 words and also indicate keywords maximum 6)
- (xiv) Chapters
- (xv) Conclusions and Future Work
- (xvi) References (For Pharmacy-APA Style)
- (xvii) Webliography (Date wise and hyperlink- which you have actually referred)
- (xviii) Bibliography (If you have referred books)
- (xix) Appendices (Where included) required to attach
- (xx) List of Publications
- (xxi) Research Papers (only front page)
- (xxii) Plagiarism Report

Note: CD containing complete thesis material is pasted on inner side of Cover of thesis. Final thesis 5 Nos. to be submitted in research cell duly signed will be hard bind.


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By the word Table is meant the representation of tabulated numerical as well as non-numerical data in the body of the project report and also in the appendices. All other non-verbal material used in the body of the project report and appendices such as charts, graphs, maps, photographs and diagrams may be designated as figures. A proper representation of a table or a figure and its placement immensely add to the ability to comprehend the work. Here are few suggestive guide lines in this regard which, of course, in no way substitute the ingenuity and creativity of an author. A table or figure including its caption should be accommodated within the prescribed margin limits and should appear on the page where its reference is made or on the page following the page in case it is not possible to place it on the same page. Table and figures on half or less in length should necessarily appear on the same page along with the text. However, they should be separated from the text both above and below by double spacing. All tables and figures should be prepared on the same paper or material used for the preparation of the rest of the project report. Captions of table/figures may use characters, numerals or symbols in the title mode. Two or more small tables or figures may be grouped if necessary on a single page. Wherever possible, the entire colour photographs(s) may be reproduced on a full sheet of photographic paper. More than one photograph can be included on a page. Samples of fabric, leather, etc., if absolutely necessary may be attached evenly in a page and fixed/ pasted suitably and should be treated as figures.

11. Citation of references in the thesis

Any work of other researchers used either directly or indirectly used in the research must be indicated at appropriate places in the project report. It could be a journal paper, a paper in conference proceedings, a monograph, a personal communication, or a book; in physical or electronic form. The standard should be followed as given below:

- If more than two authors the “Sir name of the first author et al. []” e.g., [73] A. Rao, R. K. Singh, and N. Srivastava, “In band Full-duplex Radio: A survey” in International Journal of Applied Engineering Research, 2019, vol I, pp. 81-86. Should be cited as Rao et al. [73]

- If two authors then “Sir name of first and Surname of second author []” e.g., [79] S. Sawyer and P.J. Guiman, “Software Development: Processing and Performance,” BM Syst. J., vol 37, no. 4, pp. 552-569, 1998. Should be cited as Sawyer and Guinan [79]

- If single author paper then “Full name of author []”

e.g., [72] R. Snijders, “Crowded Centric Requirements,” in International Conference on Utility and Cloud Computing, 2014, pp. 614-615. Should be cited as R. Snijders [72]

12. Listing of References in the REFERENCE section

The listing of references should be typed in alphabetical order of the first author’s name in single spacing starting 4 spaces below the heading REFERENCES in Times New Roman with font size 14 bold. The references should be serially numbered, separated by single space. For typing the references, Times New Roman with font size 11 is recommended. Few suggestive examples given in section 8 should be followed for referencing.

13. Typing instructions

General

- This section includes additional information for final typing of the project report. Some information given earlier under “Manuscript Preparation” shall also be referred to. The impression on the typed/ duplicated/ printed copies should be black in colour.
- Certain symbols characters or markings not found in a standard word processor may be hand written using Indian ink or a stylus pen (in case stencil sheets are used). Corrections, interlineations and crossing out of letters or words are not permitted in any of the copies of the project report intended for submission. Erasures, if made, should be neatly carried out in all copies.
- A sub-heading at the bottom of a page must have at least one full line below it or else it should be carried over to the next page.
- The last word of any page should not be split using a hyphen.
- Line spacing of 1.15 should be used for typing the general text.
- The general text shall be typed in font Style Times New Roman and Font Size 12.

14. References

All quotations exceeding one line should be typed in an indented space - the indentation being 15mm from either margin.


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Kannur University, Kannur

15. Chapters, Sections, Sub-sections, and Paragraphs

The format for typing Chapter headings, Section headings and sub-section headings are explained through the following illustrative examples.

Chapter headings: CHAPTER 1 INTRODUCTION

Section: 1.1 OUTLINE OF THESIS

Sub-section heading: 1.1.1 Literature Review.

16. Numbering Instructions

16.1. Page Numbering

The preliminary pages of the THESIS (such as Title page, Acknowledgement, Table of Contents etc.) should be numbered in lower case Roman numerals e.g. (i), (ii), (iii), The Title page, however, will be treated numbered as (i) but this will not be typed. The page immediately following the title page shall be numbered (ii) and it should appear at the bottom center of the page, and so on. Pages of the main text, starting with Chapter 1 should be consecutively numbered using Arabic numerals e.g. 1, 2, All page numbers (whether Roman or Arabic) should be typed without punctuation in the center of the page 15mm above from the bottom.

16.2. Numbering of Chapters, Sections and Sub-sections

The numbering of Chapters, sections and sub-sections should be done using Arabic numerals only and further decimal notation should be used for numbering the sections and sub-sections within a chapter. For examples sub-section 4 under section 3 of chapter 2 should be numbered as 2.3.4. The heading for a section or a sub-section should immediately follow in the same line after the number with a line spacing of 1.15 in between.

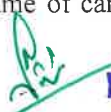
16.3. Numbering of Tables and Figures

Tables and figures appearing anywhere in the thesis should bear appropriate numbers. The rule for assigning such numbers is illustrated through an example. If a figure in Chapter 3, happens to be the fourth then Fig. 3.4 is assigned to that figure. Identical rules apply for tables except that the word figure is replaced by the word Table. If a table is to be continued into the next page, then a line should be drawn underneath an unfinished table and the phrase continued on page no... placed on the right side and underlined should be typed just below the line. The top line of the table continued on the next page should, for example read Table 2.1 (continued) placed centrally and underlined. While referring to a figure or table in the body of the project report it should be referred to as Fig. 3.4, Table 2.1, Table II.6, and so on.

17. Thesis Submission and Binding Specifications

Colour Code - bound with hard cover not less than 120 gsm with Navy blue color with impressions printed in golden colour. The side back of the report should also carry the title, name of candidate and month and year of final submission.

Copies - Bound with hard cover triplet copies


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Rama University, Kanpur

18. References

For knowing more about the styles and presentation, the following few references should be followed:

Journal Research Papers:

1. Nintanavongsa, Prusayon, Ufuk Muncuk, David Richard Lewis, and Kaushik Roy Chowdhury. "Design optimization and implementation for RF energy harvesting circuits." IEEE Journal on emerging and selected topics in circuits and systems 2, no. 1 (2012): 24-33.
2. Lee, Hoon, Sang-Rim Lee, Kyoung-Jae Lee, Han-Bae Kong, and Inkyu Lee. "Optimal beamforming designs for wireless information and power transfer in MISO interference channels." IEEE Transactions on Wireless Communications 14, no. 9 (2015): 4810-4821.
3. Mo, Jeonghoon, Hoi-Sheung Wilson So, and Jean Walrand. "Comparison of multichannel MAC protocols." IEEE Transactions on mobile computing 7, no. 1 (2008): 50-65.

Magazines:

1. Candès, Emmanuel J., and Michael B. Wakin. "An introduction to compressive sampling [a sensing/sampling paradigm that goes against the common knowledge in data acquisition]." IEEE signal processing magazine 25, no. 2 (2008): 21-30.
2. Leaves, Paul, Klaus Moessner, Rahim Tafazolli, David Grandblaise, Didier Bourse, Ralf Tonjes, and Michele Breveglieri. "Dynamic spectrum allocation in composite reconfigurable wireless networks." IEEE Communications Magazine 42, no. 5 (2004): 72-81.
3. Demestichas, Panagiotis, Guillaume Vivier, Karim El-Khazen, and M. Theologou. "Evolution in wireless systems management concepts: from composite radio environments to reconfigurability." IEEE Communications Magazine 42, no. 5 (2004): 90-98.

Conference Papers:

- 1 Clancy, T. Charles. "Achievable capacity under the interference temperature model." In IEEE INFOCOM 2007-26th IEEE International Conference on Computer Communications, pp. 794-802. IEEE, 2007.
- 2 Pandharipande, Ashish, and J-PMG Linnartz. "Performance analysis of primary user detection in a multiple antenna cognitive radio." In 2007 IEEE International Conference on Communications, pp. 6482-6486. IEEE, 2007.
- 3 Zheng, Haitao, and Chunyi Peng. "Collaboration and fairness in opportunistic spectrum access." In IEEE International Conference on Communications, 2005. ICC 2005. 2005, vol. 5, pp. 3132-3136. IEEE, 2005.


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Symposium Papers:

- 1 Buddhikot, Milind M., Paul Kolodzy, Scott Miller, Kevin Ryan, and Jason Evans. "DIMSUMnet: new directions in wireless networking using coordinated dynamic spectrum." In Sixth IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks, pp. 78-85. IEEE, 2005.
- 2 Pérez-Romero, Jordi, Oriol Sallent, Ramón Agustí, and Lorenza Giupponi. "A novel on-demand cognitive pilot channel enabling dynamic spectrum allocation." In 2007 2nd IEEE international symposium on new frontiers in dynamic spectrum access networks, pp. 46-54. IEEE, 2007.
- 3 Raman, Chandrasekharan, Roy D. Yates, and Narayan B. Mandayam. "Scheduling variable rate links via a spectrum server." In First IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks, 2005. DySPAN 2005., pp. 110-118. IEEE, 2005.

Workshop Papers:

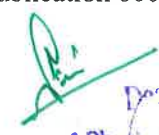
1. Mitola Iii, Joseph. "Cognitive radio for flexible mobile multimedia communications." Mobile Networks and Applications 6, no. 5 (2001): 435-441.
2. Holland, Oliver, Vasilis Friderikos, and A. Hamid Aghvami. "Green spectrum management for mobile operators." In 2010 IEEE Globecom Workshops, pp. 1458-1463. IEEE, 2010.
3. Cabric, Danijela, Artem Tkachenko, and Robert W. Brodersen. "Experimental study of spectrum sensing based on energy detection and network cooperation." In Proceedings of the first international workshop on Technology and policy for accessing spectrum, p. 12. ACM, 2006.

Books:

1. Marsch, Patrick, and Gerhard P. Fettweis, eds. Coordinated Multi-Point in Mobile Communications: from theory to practice. Cambridge University Press, 2011.
2. Xiao, Yang, and Fei Hu, eds. Cognitive radio networks. CRC press, 2008.
3. Caso, Giuseppe, Mai T. Phuong Le, Luca De Nardis, and Maria-Gabriella Di Benedetto. "Non-cooperative and cooperative spectrum sensing in 5G cognitive networks." Handbook of Cognitive Radio (2017): 1-21.

Book Chapter:

1. Karygiannis, Tom, and Les Owens. "Wireless network security." NIST special publication 800 (2002): 48.
2. Frankel, Sheila, Bernard Eydt, Les Owens, and Karen Scarfone. "Establishing wireless robust security networks: a guide to IEEE 802.11 i." National Institute of Standards and Technology (2007).
3. Karygiannis, Tom, and Les Owens. "Wireless network security." NIST special publication 800 (2002): 48.


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Thesis:

1. Mitola III, Joseph. "Cognitive radio: an integrated agent architecture for software radio." Royal Institute of Technology (KTH) (2000).
2. Lehtomaki, Janne. "Analysis of energy based signal detection." Ph. D. Thesis, University of Oulu (2005).
3. Luo, Chenchi. "Non-uniform sampling: algorithms and architectures." PhD diss., Georgia Institute of Technology, (2012).

Dissertation:

1. J. Mitola, "Cognitive radio: An integrated agent architecture for software defined radio," Ph.D. dissertation, KTH Royal Inst. of Technol., Stockholm, Sweden, 2000.
2. Sharma, Shree Krishna. "Interweave/underlay cognitive radio techniques and applications in satellite communication systems." PhD diss., University of Luxembourg, Luxembourg, 2014.
3. Duarte, Melissa. "Full-duplex wireless: Design, implementation and characterization." PhD diss., Rice University, 2012.

Report:

1. Force, FCC Spectrum Policy Task. "Report of the spectrum efficiency working group." http://www.fcc.gov/sptf/files/SEWGFfinalReport_1.pdf (2002).
2. DARPA, ATO. "Next Generation (XG) Program." <http://www.darpa.mil/ato/programs/xg/index.htm>.
3. Mobile VCE. Green Radio, Aug. (2015). [Online]. Available: <http://www.mobilevce.com/green-radio>



Dean
Faculty of Pharmaceutical Sciences
Rama University, Kanpur

TITLE OF THE RESEARCH

A synopsis submitted
in partial fulfillment of the requirements
for the degree of

MASTER OF PHARMACY (BRANCH)

SUBMITTED BY

Name
(Enrollment Number.....)

SUPERVISOR

Dr.
Designation

FORWARDED AND APPROVED BY


Prof. (Dr.).....
Dean



To the

**FACULTY OF PHARMACEUTICAL SCIENCES
RAMA UNIVERSITY, KANPUR, UTTAR PRADESH**

Nov, 2024


Dean
Faculty of Pharmaceutical Sciences
Rama University, Kanpur

CERTIFICATE OF THE SUPERVISOR

This is to certify that the synopsis entitled “.....”
is a piece of proposed research work prepared by under my guidance
and supervision for the partial fulfillment of degree of Master of Pharmacy in
....., Rama University, Kanpur (U.P.) India.

I hereby forward his/her Proposal dissertation.

Supervisor

.....

Associate Professor

Forwarded by

Prof. (Dr.)

Dean


Dean
Faculty of Pharmaceutical Sciences
Rama University, Kanpur

DECLARATION BY THE CANDIDATE

I declare that the synopsis entitled “.....” is my own work conducted under the supervision of **Prof. (Dr.)**, **Designation.....**, Faculty of Pharmaceutical Sciences, Rama University, Kanpur. I further declare that to the best of my knowledge the synopsis does not contain any part of any work which has been submitted for the award of any degree either in this University or in any other University/Deemed University without proper citation.

Name

Enrollment Number


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CONTENTS

S. No.	Topics	Page No.
1.	Introduction	
2.	Review of literature	
3.	Need and objectives of the study	
4.	Plan of work	
5.	Outcome of the proposed research work	
6.	References	


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Faculty of Pharmaceutical Sciences
Rama University, Kanpur

INTRODUCTION

1. It includes a brief introduction related to your research topic.
2. It should be written in paragraph not more than 4 pages.
3. It should include 1 or 2 diagrams with tables.

REVIEW OF LITERATURE

Kindly refer the below mentioned format for writing literature review:

1. It should include a brief review of the work already done in the field.
2. It should include about 10 literatures.
3. Kindly refer the below mentioned example:

Asha *et al.* (2017) develop a transdermal patch of Indomethacin using patchouli oil as a natural enhancer to increase transdermal permeation of the drug from the matrix system across rat epidermis. The transdermal flux obtained of the different concentration of patchouli oil tend to increase with increasing concentration of the oil and the maximum transdermal flux of $61.92 \pm 0.89 \mu\text{g}/\text{cm}^2/\text{hr}$ was obtained with formulation F7 (containing 1% w/v of patchouli oil) which is similar to the flux of the formulation F2 containing standard enhancer dimethyl sulphoxide.


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Faculty of Pharmaceutical Sciences
Rama University, Kanpur

NEED AND OBJECTIVES OF THE STUDY

Need of the study

1. It is related to the significance of the study.
2. It is a written statement that explains why your research was needed. It's a justification of the importance of your work and impact it has on your research field, it's contribution to new knowledge and how others will benefit from it.
3. The significance of the study, also known as the rationale of the study, is important to convey to the reader why the research work was important.
4. It should be written in paragraph not more than one page.

Objective of the study

Research objectives describe what we expect to achieve by a project.

1. It includes the basic aim of the study to be achieved.
2. It should be written in points not more than one page.


Lect
Faculty of Pharmaceutical Sciences
Rama University, Kalibia

PLAN OF WORK

A work plan is a written document designed to streamline a project. The purpose is to create a visual reference for the goal, objectives, tasks and team members who are responsible for each area.

1. It includes the proposed methodology during the tenure of the research work. It should be written in points not more than two pages like:

- ☞ **Review of Literature**
- ☞ **Selection of drug and excipients**
- ☞ **Preparation of**
- ☞ **Characterization of**
- ☞ **Data Compilation and thesis writing**



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Outcome of the proposed research work

The results section of the research paper is where you report the findings of your study based upon the information gathered as a result of the methodology you applied. It is related to the basic expectation of your research work means what you have concluded by your study.

It should be written in paragraph not more than one page.

REFERENCES

References should be given in standard format. Refer the below mentioned example:

1. Authors Name. Title. Journal Name. Year of publication; Volume: Page No.

Example

1. Rakesh P. Formulation and Evaluation of Transdermal Patch of Aceclofenac. Int .J .Drug Del. 2009; 1: 41-51.


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Faculty of Pharmaceutical Sciences
Rama University, Kanpur

TITLE OF THE THESIS

A Thesis Submitted



RAMA UNIVERSITY, KANPUR

Towards partial Fulfillment of the Requirements for the Award of the Degree

MASTER OF PHARMACY

BRANCH

Year of Submission

By

Student Name

Enrolment No:

Under the Supervision of

Name of Supervisor

Designation

Forwarded & Approved By

Dr.

Professor & Dean

RAMA UNIVERSITY, KANPUR, UTTAR PRADESH

May, 2024


Faculty of Pharmaceutical Sciences
Rama University, Kanpur

THESIS APPROVAL

This is to certify that research work embodied in this thesis entitled
“.....”carried out by Mr./Ms. (Enrollment No.) at
Faculty of Pharmaceutical Sciences is approved for the degree of Master of Pharmacy with
specialization of by Rama University, Kanpur, U.P.


Name & Signature of Internal Examiner

Name & Signature of External Examiner

MAIN OFFICE

The Final Viva-Voce Examination of Mr./Ms _____ Scholar, has
been conducted on _____

Seal & Signature of Examination Cell


Dean
Faculty of Pharmaceutical Sciences
Rama University, Kanpur

Faculty of Pharmaceutical Sciences, Rama University (U.P.), Kanpur

Result Analysis of Odd semester

(Batch 2023-24)

RESULT ANALYSIS								
B. Pharm (ODD SEMESTER)								
S.no.	Branch	Semester	No. of students appeared	Fail	Detain	Clear	% Result	Overall %
1.	B.Pharm	1 st sem	92	36	00	56	61%	62%
2.	B.Pharm	3 rd sem	51	26	01	24	47%	
3.	B.Pharm	5 th sem	42	11	00	31	74%	
4.	B.Pharm	7 th sem	47	11	05	31	66%	
M. Pharm (ODD SEMESTER)								
1.	M. Pharm (Pharmacology)	1 st sem	08	00	00	08	100%	100%
2.	M. Pharm (Pharmaceutical Chemistry)	1 st sem	02	00	00	02	100%	
3.	M. Pharm (Pharmacy Practice)	1 st sem	01	00	00	01	100%	
4.	M. Pharm (Pharmaceutics)	1 st sem	01	00	00	01	100%	


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Rama University, Kanpur


Dean
Faculty of Pharmaceutical Sciences
Rama University, Kanpur

Faculty of Pharmaceutical Sciences, Rama University (U.P.), Kanpur

Result Analysis of Even semester/ Yearly

(Batch 2023-24)

RESULT ANALYSIS								
B. Pharm (EVEN SEMESTER)								
S.no.	Branch	Semester	No. of students appeared	Fail	Detain	Clear	% Result	Overall %
1.	B.Pharm	2 nd sem	91	35	00	56	62%	64%
2.	B.Pharm	4 th sem	51	27	01	23	45%	
3.	B.Pharm	6 th sem	41	16	00	25	61%	
4.	B.Pharm	8 th sem	46	02	03	41	89%	
M. Pharm (EVEN SEMESTER)								
1.	M. Pharm (Pharmacology)	2 nd sem	08	00	00	08	100%	100%
2.	M. Pharm (Pharmaceutical Chemistry)	2 nd sem	02	00	00	02	100%	
3.	M. Pharm (Pharmacy Practice)	2 nd sem	01	00	00	01	100%	
PharmD (PB)								
1.	PharmD (PB)	4 th Year	05	00	00	05	100%	100%
D. Pharm								
1.	D. Pharm	1 st Year	53	17	02	34	64%	71%
2.	D. Pharm	2 nd Year	50	04	07	39	78%	

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Rama University, Kanpur

Rama Institute of Pharmacy, Rama University (U.P.), Kanpur

Result Analysis of Odd semester

Batch 2023-24

RESULT ANALYSIS								
B. Pharm (ODD SEMESTER)								
S.no.	Branch	Semester	No. of students appeared	Fail	Detain	Clear	%Result	Overall %
1.	B. Pharm	1 st sem	17	11	00	06	35%	35%


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Rama Institute of Pharmacy



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Rama University, Kanpur

Rama Institute of Pharmacy, Rama University (U.P.), Kanpur

Result Analysis of Even semester

Batch 2023-24

RESULT ANALYSIS								
B. Pharm (EVEN SEMESTER)								
S.no.	Branch	Semester	No. of students appeared	Fail	Detain	Clear	% Result	Overall %
1.	B. Pharm	1 st sem	17	09	05	03	53%	53%


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SCIENCES, RAMA UNIVERSITY
Rama Institute of Pharmacy
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Rama University, Kanpur