

1.2.1

3. Choice Based Credit System (CBCS)

M. Pharmacy (2013-14)

UNIVERSITY OF PUNE

FACULTY OF PHARMACEUTICAL SCIENCES



MASTER OF PHARMACY (M.PHARM.) in

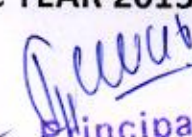
1. Pharmaceutics
2. Pharmaceutical chemistry
3. Pharmacology
4. Pharmacognosy
5. Quality assurance techniques

COURSE STRUCTURE & SYLLABI

(EFFECTIVE FROM ACADEMIC YEAR 2013-2014)



1


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Vilad Ghat, Ahmednagar

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2. Choice Based Credit System (CBCS)

B. Pharmacy (2015-16)

SAVITRIBAI PHULE PUNE UNIVERSITY

FACULTY OF PHARMACEUTICAL SCIENCES



**COURSE STRUCTURE & SYLLABI
BACHELOR OF PHARMACY (B. Pharm.) COURSE
(EFFECTIVE FROM ACADEMIC YEAR 2015-16)**

Credit and Grading Based Semester System

1



V. V. Patil
Principal
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Vilad Ghat, Ahmednagar

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1. Choice Based Credit System (CBCS)Ph.D. (2010)

UNIVERSITY OF PUNE, PUNE

STRUCTURE and SYLLABUS

For

Ph.D. COURSE WORK

Under

FACULTY OF PHARMACEUTICAL SCIENCES

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Principal

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Vilad Ghat, Ahmednagar

03. Ph.D Course Work Structure (Faculty : Pharmaceutical Sciences)

- The Ph.D. course work shall be offered with **credit system**.
- The course work will be for a **minimum period of one semester** and shall be treated as pre Ph.D. preparation
- The course work will have total **20 credits** of minimum six months duration.
- **5 credits** for Research Methodology which includes research methodology, quantitative methods, computer application, tools and techniques including instrumentation, communications skills, seminar presentation and review of published research
- **10 credits** for subject specific (2 subjects of specialization) course work.
- **5 credits** for field work, seminar and other academic activities.

.Sr.No	Particulars of the course	Learning Hours	Examination Type	Examination Scheme			Credits
				Continuous Assessment (01)	Continuous Assessment (02)	Average Total (01 + 02)	
01	Research Methodology	10	Theory	50	50	50	05
02	Subject specialization - 01	10	Theory	50	50	50	05
03	Subject specialization - 02	10	Theory	50	50	50	05
04	Seminar	5	Viva - voce	50	50	50	05
TOTAL				200	200	200	20



1.2.1

4. Minutes of College Curriculum Committee



PADMASHREE DR. VITHALRAO VIKHE PATIL FOUNDATION'S
COLLEGE OF PHARMACY,

VILAD GHAT, PO. MIDC, AHMEDNAGAR(MS)

Phone No. (0241) 2778044 /2777217. Fax No. (0241) 2778044

E-mail ID : pdcopha_anrr@rediffmail.com

Permanently Affiliated to University of Pune, Pune.

Approved by AICTE, PCI, New Delhi & Recognized by UGC, New Delhi.



Date: - 28.08.2015

Academic Year 2015 -2016

Minutes of the Meeting:-

1. Course structure and syllabus of Bachelor of pharmacy (F. Y.B. Pharmacy) programme is implemented with effect from academic year 2015- 2016 as credit and grading based semester system.
2. The subject of the F.Y.B.Pharm for 2015-2016 is as prescribed in the course structure of Bachelor of pharmacy 2013 pattern.
3. From academic year 2015-2016 semester pattern is implemented for Third Y. B. Pharm (semester V and semester VI)
4. The subject introduced for T.Y.B.Pharmacy in semester pattern are as follows,


SEMESTER V: -

1. Industrial Pharmacy (T + P)
2. Pharm. Analysis- III (T+P)
3. Medicinal chemistry- I (T+P)
4. Pharmacology –II (T+P)
5. Analytical Pharmacognosy & Extraction Technology
6. Pharmaceutical Business Management & Disaster Management (T)
7. Active Pharmaceutical Ingredients Technology (T).

SEMESTER VI:-

1. Industrial Pharmacy –II (T+P)
 2. Pharmaceutical Analysis- IV ((T+P)
 3. Medicinal Chemistry-II (T+P)
 4. Pharmacology-III (T+P)
 5. Natural Product Chemistry (T+P)
 6. Bioorganic Chemistry & Drug Design (T)
 7. Pharmaceutical Biotechnology (T)
5. For M. Pharmacy previous pattern (2013 pattern) is implemented as it is with credit and grading system.




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Vilad Ghat, Ahmednagar



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COLLEGE OF PHARMACY,

VILAD GHAT, PO. MIDC, AHMEDNAGAR(MS)

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Coph Academic (2016/17/11) *****

Date:-04.07.2016

Academic Year 2016 -2017

Minutes of the Meeting:-

1. Course structure and syllabus of Bachelor of pharmacy (S. Y. B. Pharmacy) programme is implemented with effect from academic year 2016- 2017 as credit and grading based semester system.
2. The subject of the S.Y.B.Pharm for 2016-2017 is as prescribed in the course structure of Bachelor of pharmacy 2013 pattern.
3. From academic year 2016-2017 semester pattern is implemented for Final Y. B. Pharm (semester VII and semester VIII)
4. The subject introduced for Final.Y.B.Pharmacy in semester pattern are as follows,

SEMESTER VII: -

1. Sterile Product (T + P)
2. Pharm. Analysis- V (T+P)
3. Medicinal chemistry- III (T+P)
4. Pharmacology –IV (T+P)
5. Natural Drug Technology (T+P)
6. Bio pharmaceuticals & Pharmacokinetics (T)
7. Pharmaceutical Jurisprudence (T).

SEMESTER VIII:-

1. Advanced Drug Delivery System (T+P)
 2. Cosmetic Science ((T+P)
 3. Pharmaceutical Analysis -VI (T+P)
 4. Medicinal Chemistry IV (T+P)
 5. Pharmacology – V (Including Biostatistics) (T+P)
 6. Natural Products (T)
 7. Quality Assurance Technology (T)
5. For M. Pharmacy previous pattern (2013 pattern) is implemented as it is with credit and grading system.



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Principal
Dr.V.V.P.F's College of Pharmacy
Vilad Ghat, Ahmednagar



DR. VITHALRAO VIKHE PATIL FOUNDATION'S
COLLEGE OF PHARMACY,

VILAD GHAT, PO. MIDC, AHMEDNAGAR (MS)

Phone No. (0241) 2778044 / 2777217. Fax No. (0241) 2778044

E-mail ID : pdcophanrr@rediffmail.com

Accredited by NAAC with Grade "B" (CGPA 2.72)

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coph / Academic / 2017-18 / 32

Academic Year 2017 -2018

Minutes of the Meeting:-

1. Course structure and syllabus of Bachelor of pharmacy (T. Y. B. Pharmacy) programme is implemented with effect from academic year 2017- 2018 as credit and grading based semester system.
2. The subject of the T.Y.B.Pharm for 2017-2018 is as prescribed in the course structure of Bachelor of pharmacy 2013 pattern.
3. For M. Pharmacy previous pattern (2013 pattern) is implemented as it is with credit and grading system.



Ganesh
Principal
Dr.V.V.P.F.'s College of Pharmacy,
Vilad Ghat, Ahmednagar



DR. VITHALRAO VIKHE PATIL FOUNDATION'S
COLLEGE OF PHARMACY,
VILAD GHAT, PO. MIDC, AHMEDNAGAR (MS)
Phone No. (0241) 2778044 / 2777217. Fax No. (0241) 2778044
E-mail ID : pdcopha_anrr@rediffmail.com
Accredited by NAAC with Grade "B" (CGPA 2.72)
Permanently Affiliated to Savitribai Phule Pune University
Approved by AICTE, PCI, New Delhi & Recognized by UGC, New Delhi



Coph/Academic/2018-19/51

Date: - 20.07.2018

Academic Year 2018 -2019

Minutes of the Meeting:-

1. Course structure and syllabus of Bachelor of pharmacy (Final Y. B. Pharmacy) programme is implemented with effect from academic year 2018- 2019 as credit and grading based semester system.
2. The subject of the Final Y.B.Pharm for 2018-2019 is as prescribed in the course structure of Bachelor of pharmacy 2013 pattern.
3. From academic year 2018-2019 Savitribai Phule Pune University implemented new course structure and syllabus based on pharmacy council of India syllabus for F.Y.B.Pharmacy (2018 pattern)
4. The course structure and syllabus is in semester pattern.
5. As per the course structure the course are divided in to University and Non University examination.
6. The structures having PCB group in 12th standard have to appear for remedial Mathematics.
7. The students having PCM group in 12th standard have to appear for remedial Biology.
8. The remedial Mathematics, Remedial Biology and communication skill are the Non University examination.
9. The course introduced for F.Y.B.Pharmacy are as follows,

SEMESTER - I: -

1. Human Anatomy & Physiology (T + P)
2. Pharm. Analysis- I (T+P)
3. Pharmaceutics (T+P)
4. Pharmaceutical Inorganic Chemistry (T+P)
5. Communication skill (T+P)
6. Remedial Biology (T + P) / Remedial Mathematics (T)

SEMESTER -II:-

1. Human Anatomy & Physiology -II (T+P)
2. Pharmaceutical Organic Chemistry-I ((T+P)
3. Biochemistry (T+P)
4. Pathophysiology (T)
5. Computer Application in Pharmacy (T+P)
6. Environmental Science (T)



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10. In semester II computer Application in Pharmacy (T+P) and Environmental science (T) are non-University Examination.

11. From academic year 2018-2019 Savitribai Phule Pune University implemented new course structure of syllabus based in Pharmacy Council of India for F.Y. M. Pharmacy (2018 pattern).

12. The courses introduced for F.Y.M.Pharmacy are as follows,

A) M. Pharm. (Pharmaceutics):-

SEMESTER - I: -

1. Modern Pharmaceutical Analytical Techniques (T)
2. Drug Delivery System (T)
3. Modern Pharmaceutics (T)
4. Regulatory Affairs (T)
5. Pharmaceutics Practical -I
6. Seminar / Assignment

SEMESTER -II:-

1. Molecular Pharmaceutics (T)
2. Advanced Bio pharmaceutics & Pharmacokinetics (T)
3. Computer Aided Drug Delivery System (T)
4. Cosmetic & Cosmeceuticals (T)
5. Pharmaceutics Practical-II
6. Seminar / Assignment

B) M. Pharm. (Pharmaceutical Chemistry):-


SEMESTER - I: -

1. Modern Pharmaceutical Analytical Techniques (T)
2. Advanced Organic Chemistry -I(T)
3. Advanced Medicinal Chemistry (T)
4. Chemistry of Natural Product (T)
5. Pharmaceutical Chemistry Practical -I
6. Seminar / Assignment

SEMESTER -II:-

1. Advanced Speared Analysis (T)
2. Advanced Organic Chemistry-II (T)
3. Computer Aided Drug Design (T)
4. Pharmaceutical Process Chemistry (T)
5. Pharmaceutical Organic Chemistry-II
6. Seminar / Assignment




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C) M. Pharm. (Pharmaceutical Quality Assurance Technique):-

SEMESTER - I: -

1. Modern Pharmaceutical Analytical Techniques (T)
2. Quality Management System (T)
3. Quality Control and Quality Assurance (T)
4. Product Development & Technology Transfer (T)
5. Pharmaceutical Quality Assurance Practical-I
6. Seminar / Assignment

SEMESTER -II:-

1. Hazards and Safety Management (T)
2. Pharmaceutical Validation (T)
3. Audits and Regulatory Compliance (T)
4. Pharmaceutical Manufacturing Technology (T)
5. Pharmaceutical Quality Assurance Practical-II
6. Seminar / Assignment

D) M. Pharm. (Pharmacology):-

SEMESTER - I: -

1. Modern Pharmaceutical Analytical Techniques (T)
2. Advanced Pharmacology (T)
3. Pharmacological and Toxicological Screening Method-I (T)
4. Cellular and Molecular Pharmacology (T)
5. Pharmacology Practical-I
6. Seminar / Assignment

SEMESTER -II:-

1. Advanced Pharmacology-I (T)
2. Pharmacological and Toxicological Screening Method-II (T)
3. Principal of Drug Discovery (T)
4. Experimental Pharmacology Practical -I
5. Pharmacology Practical-II
6. Seminar / Assignment



V.V.P.F.
Principal
Dr.V.V.P.F's College of Pharmacy
Vilad Ghat, Ahmednagar



Dr. Vithalrao Vikhe Patil
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Ahmednagar

DR. VITHALRAO VIKHE PATIL FOUNDATION'S
COLLEGE OF PHARMACY,

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Coph / Academic / 2019-20 / 65

Date: - 11.06.2019

Academic Year 2019 -2020

Minutes of the Meeting:-

1. From academic year 2019-2020, Savitribai Phule Pune University implemented course structure ,syllabus based on Pharmacy council of India for F.Y.B.Pharm.(2019 pattern)
2. The course heads are same but course content is revised and it is mentioned in course structure of F.Y.B.Pharm.
3. From academic year 2019-2020 Savitribai Phule Pune University implemented course structure and syllabus based on pharmacy council of India syllabus for F.Y.B.Pharmacy (2018 pattern)
4. The course introduced for S.Y.B.Pharm. are as follow,

SEMESTER - III: -

1. Pharmaceutical Organic Chemistry-II (T + P)
2. Physical Pharmaceutics-I (T + P)
3. Pharmaceutical Microbiology (T + P)
4. Pharmaceutical Engineering (T+P)

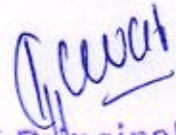
SEMESTER -IV:-

1. Pharmaceutical Organic Chemistry-III (T+P)
 2. Medicinal Chemistry-I (T+P)
 3. Physical Pharmaceutics -II (T+P)
 4. Pharmacology-I(T+P)
 5. Pharmacognosy & Phytochemistry -I (T+P)
5. The course introduced for M.Pharm (Semester-III) (2018 pattern) are as follows,

SEMESTER -III: - Common for all specializations

1. Research Methodology and Biostatistics
2. Journal club
3. Discussion Presentation (Proposal Presentation)
4. Research work




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