

1.2.2

1. List of Certificate Programs



Dr. Vithalrao Vikhe Patil
Foundation
Ahmednagar

DR. VITHALRAO VIKHE PATIL FOUNDATIONS
COLLEGE OF PHARMACY,

VILAD GHAT, PO. MIDC, AHMEDNAGAR (MS)

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

E-mail ID : pdcophanr@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



1.2.3 Certificate Programmes

Sr.No.	Academic Year	Name of Value Added Course	Total Contact Hours	Number of students Completed the course
1.	2015-16	G-PAT Exam preparation Course	37Hrs	65
2.	2016-17	-----	-----	-----
3.	2017-18	Career Guidance Program (Collaboration with Academy of NIPER Aspirants)	45 Hrs	30
4.	2018-19	Career Guidance Program (Collaboration with Academy of NIPER Aspirants)	45 Hrs	21
5.	2019-20	Career Guidance Course (Collaboration with Academy of NIPER Aspirants)	54 Hrs	39
6.	2019-20	Hands on Training on Pharmaceutical And Analytical Equipments	30 Hrs	76



[Signature]
Principal

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

1.2.2

2. Brochure of Certificate Programs

Padmashree Dr. Vithalrao Vikhe Patil Foundation's ;
College of Pharmacy ; Ahmednagar.

Date: 21/12/2015.

NOTICE

All the **Final Year B.Pharm** students are hereby informed that for **G-PAT examination** preparation following lectures (**extra Coaching class**) will be conducted in Final Year class room no. 60 as per following schedule.

Sr.No	Date & Day	Name of Staff	Topic	Time
1.	01/01/2016 Friday	Mr.Machindra Bochare	G-PAT Preparation Overview	10.00 am – 1.00pm 2.00pm – 5.00 pm
2.	02/01/2016 Saturday	Prof.Miss. J.B.Wadekar	Chromatography	10.00 am – 1.00 pm
3.	02/01/2016 Saturday	Prof.Dr.R.L.Sawant	Pharmaceutical Analysis	2.00 pm- 5.00 pm
4.	04/01/2016 Monday	Prof.V.V.Nimbalkar	CVS & Immunomodulation	10.00 am – 1.00 pm
5.	04/01/2016 Monday	Prof.B.V.Bhagat	Microbiology ; Pharm. Jurisprudence	2.00 pm- 5.00 pm
6.	05/01/2016 Tuesday	Prof.Miss. J.B.Wadekar	Pharmacognosy	10.00 am – 1.00 pm
7.	05/01/2016 Tuesday	Prof.Dr.R.L.Sawant	Medicinal Chemistry	2.00 pm- 5.00 pm
8.	06/01/2016 Wednesday	Prof.H.J.Pagar	Sympathetic/Parasympath etic Drugs	10.00 am – 1.00 pm
9.	06/01/2016 Wednesday	Prof.G.R.Godge	Pharmaceutics	2.00 pm- 5.00 pm
10.	07/01/2016 Thursday	Prof. M.A.Raskar	Pharmaceutical Analysis	10.00 am – 1.00 pm
11.	07/01/2016 Thursday	Prof.B.Y.Mane	Medicinal Chemistry	2.00 pm- 5.00 pm
12.	08/01/2016 Friday	Prof.Dr.S.Z.Chemate	Compartment Modeling	10.00 am – 1.00 pm
13.	08/01/2016 Friday	Prof. K.N.Tarkase Prof.S.A.Hapse	Rheology & Kinetics Physical Pharmacy	2.00 pm -5.00 pm

11/1/2016

JBU - (10-1)
MAR - (2-5)

Prof.K.N.Tarkase
Academic Co-ordinator
College of Pharmacy



Prof. Dr.P.Y.Pawar
Principal
College of Pharmacy

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



Dr.vithalrao Vikhe patil foundation's

COLLEGE OF PHARMACY

Vilad-Ghat, Ahamadnagar (M.S.) - 414 111,INDIA
Accredited by NAAC with grade B (CCPA 2.72)



organizing

GPAT

CAREER GUIDANCE PROGRAM

By ANA (Academy of NIPER Aspirants):2017-2018

One year weekend training program of competitive examinations

- Classroom teaching • study material • Tacts to face exams
- 25 online test as per new pattern • Hard copies of all tests
- Counselling • Guidance on Admissions (NIPER BITS,MANIPAL,M.Pharm/M.Tech)

GPAT ALL INDIA RANKERS

2012 : 7,8,42,53,58,99
2013 : 12,18,24,38,50,61,83
2014 : 4,75,81,86,94,113
2015 : 36,49,52,53,68,77,81,82,87
2016 : 6,21,23,47,59,62,72,

NIPER ALL INDIA RANKERS

2015 : 4,6,14,18,24,34,40,
45,50,64,84,87,93
2016 : 13,15,20,30,45,59,60,63,
72,80,81,87,90,98,99

ANA

Dr.Vithalrao Vikhe Patil Foundation's
COLLEGE OF PHARMACY

Vilad-Ghat, Ahamadnagar, Maharashtra - 414 111



Dr. Vithalrao Vikhe Patil Foundation's

COLLEGE OF PHARMACY



Vilad-Ghat, Ahmednagar (M.S.) - 414 111, INDIA

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Conducts

GPAT WEEKEND

Graduate Pharmacy Aptitude Test

CAREER GUIDANCE PROGRAM

2018-2019



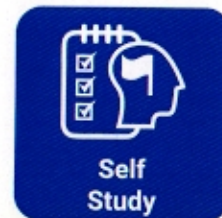
Planning fully
Syllabus



Weekly Target
Chapter Wise



Lecture
Notes



Self
Study



Online
Test



Revision

Lecture :
Every Sunday /Holidays

Faculty (GATE / GPAT & NIPER Rankers) :
Dr. Mahesh Kale (M. Pharm. Ph.D.)
Macchindra Bochare (M. Pharm. Ph.D. Fellow)
Dr. Prashant shinde (M. Pharm. Ph.D.)
S. Deshpande (M. Pharm)

Counseling :
**Motivation
& Confidence**

Call, SMS or Whatsapp your name to register : 9860390781 | 9890222776

Dr. Vithalrao Vikhe Patil Foundation's
COLLEGE OF PHARMACY

Organized in collaboration with
Academy of NIPER Aspirants (ANA)

www.anaedu.org



Dr. Vithalrao Vikhe Patil Foundation's

COLLEGE OF PHARMACY



Vilad-Ghat, Ahmednagar (M.S.) - 414 111, INDIA
Accredited by NAAC with grade B (CCPA 2.72)

For T.Y. & Final Year
B. Pharm students
2019-2020



15 DAYS
GPAT
CAREER GUIDANCE
• COURSE •

Sept. 3, 2019 to
Sept. 15, 2019 &
2 Days of
October, 2019

Dr. VVP Foundation's
College of Pharmacy, Ahmednagar

Contact :
9860390781 | 9890222776
7219201570

FEATURE OF THE WORKSHOP

- Daily 8 hours lectures
- Daily test & discussion
- GPAT notes
- Doubt solving session
- Motivation & Counselling
- Study Plan of full GPAT
- 1 Year package of GPAT online test
- Subscription of ANA GPAT
- containing GPAT material
- Certificates of successful completion

Organised in
collaboration with

ANA

Education | Research
www.anagpat.in

More than 200 students
qualified in GPAT 2018 Ranks :
AIR 3, 1, 2, 26, 28, 32, 36, 39,
60, 70, 116, 127,
138 & many more

Date & Time	Training Session	Training Co-ordinator	Topic
Day 1 (16/10/2019)			
8.00 to 10.00am	Theory Session	Prof. K. N. Tarkase	Theory of Tablet Compression Machine
10.00 to 12.00pm	Theory Session	Prof. A. W. Ambekar	Theory of spray drying techniques
12.00 to 02.30pm	Practical Session Batch A	Prof. K. N. Tarkase	Maintenance & Changeover of Tablet Compression Machine
3.30 to 6.00pm	Practical Session Batch B		
12.00 to 02.30pm	Practical Session Batch B	Prof. A. W. Ambekar	Handling of Spray Dryer
3.30 to 6.00pm	Practical Session Batch A		
Day 2 (17/10/2019)			
8.00 to 10.00am	Theory Session	Prof. P. P. Hajare	IPQC Tests of Tablets
10.00 to 12.00pm	Theory Session	Prof. M.A. Raskar	Working of FT-IR Spectrophotometer
12.00 to 02.30pm	Practical Session Batch A	Prof. P. P. Hajare	Operation of Disintegration and Dissolution Test Apparatus
3.30 to 6.00pm	Practical Session Batch B		
12.00 to 02.30pm	Practical Session Batch B	Prof. M.A. Raskar	Sample Characterization using FT-IR Spectrophotometer
3.30 to 6.00pm	Practical Session Batch A		
Day 3 (18/10/2019)			
8.00 to 10.00am	Theory Session	Prof. R. S. Joshi	Instrumentation of HPLC
10.00 to 1.00pm	Practical Session Batch A	Prof. R. S. Joshi	HPLC Analysis of API
2.00 to 5.00pm	Practical Session Batch B		
10.00 to 1.00pm	Batch B	Case Study	
2.00 to 5.00pm	Batch A		
5.00 to 6.00pm	Valedictory function : Seminar Hall		



CERTIFICATE COURSE
HANDS ON TRAINING ON

PHARMACEUTICAL AND ANALYTICAL EQUIPMENTS

16th to 18th October 2019

Dr. VVPF's college of pharmacy is affiliated to Savitribai Phule Pune University and approved by Pharmacy Council of India, All India Council for Technical Education and Directorate of Technical Education started in 1994.

Objective :

To provide hands on training to pharmacy students on pharmaceutical and analytical equipments to get thorough knowledge regarding Pharmaceutical product manufacturing and Formulation Development.

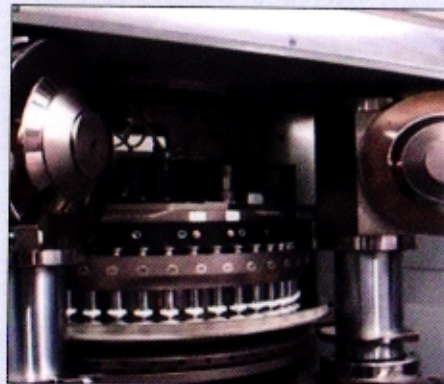
Course structure :

- Total tenure of course will be 3 days in month of October 2019.
- Participating students should be from B.Pharm. and M.Pharm.
- On the 1st day, training session covering theory as well as practical sessions for tablet compression machine and Spray Dryer
- On the 2nd day, training session will be conducted on Disintegration & dissolution test apparatus and FT-IR spectrophotometer.
- On the 3rd day, training session will be conducted regarding theory as well as practical applications of HPLC
- Admissions to the training program will be on first come first basis
- Certificates will be provided after successful completion of training course.

Spray dryer



8 station Tablet compression machine



Programs offered by institute are :

- B.Pharm
- M.Pharm
(Pharm Chem., PQA, P'cology, P'ceutics)
- Ph.D (Pharm. Chem.)

Fee structure :

- Five hundred rupees (500/-) per student.
- Successful completion of training, discipline and sincerity during the training session will be awarded.

HPLC instrument



FT-IR spectrophotometer



Disintegration test apparatus



Dissolution test apparatus



For registration contact

Prof. M.A. Raskar (Course Co-ordinator)

Mob. : 9028757504

Last Date of registration is 10th October 2019



1.2.2

3. Memorandum of Understanding (MOU)

MEMORANDUM OF UNDERSTANDING (MOU)

The Memorandum of understanding is signed between

1) **Academy of NIPER Aspirants**

www.anaedu.org

Dr. Machhindra Bochare 9860390781

Dr. Mahesh Kale 9890222776

(Henceforth referred to as **Party 1**)

AND

2) **Dr. Vithalrao Vikhe Patil Foundations College of Pharmacy,**

Vilad Ghat, Ahmednagar.

(Henceforth referred to as **Party 2**)

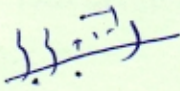
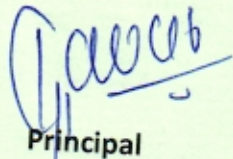


Following Memorandum of understanding has been reached between and signed by the above mentioned two parties

- 1) Party 1 will extend its support for the students appearing for GPAT examinations and undergraduate students of party 2 as per facilities approved by mutual convenience. Party 1 will permit its facilities to the students of Party 2 according to norms / procedure laid down by party 1 for this purpose.
- 2) Party 1 will allow usage of their library material (if available), relevant standards and handbook etc. to the students of Party 2 for their preparations, if required.
- 3) Party 1 will allow visit of students of Party 2 to its academy to avail facilities for study purpose, with prior permission and arrangements.
- 4) Party 1 will allow the students of Party 2 to undergo any sort of training (if required) of stipulated duration in its facilities whenever possible, with prior permission.
- 5) Party 1 will permit their executives and experts to render their expertise for the academic benefit of the students of Party 2. Party 2 will make available to party 1 its infrastructural facilities to conduct lectures in convenient manner.

6) Party 1 will reserve its right for the fees to be charged to the students at

- 8) Party 2 will offer its laboratory/ computer facilities for any experimental work required by Party 1 with prior permission and arrangement.
- 9) Specific task and assignments in areas not covered by this MOU can be explored and undertaken with mutual concern of both Party 1 and Party 2

The Memorandum of understanding_(MOU) is signed on Thursday, 06th July 2017.

For Party 1	For Party 2
 <p>Academy of NIPER Aspirants www.anaedu.org Dr. Machhindra Bochare 9860390781 Dr. Mahesh Kale 9890222776 Academy of NIPER Aspirants</p>	 <p>Principal Dr. Vithalrao Vikhe Patil foundations, COLLEGE OF PHARMACY, Vilad Ghat, Ahmednagar.</p>
 <p>Academy of NIPER Aspirants www.anaedu.org Dr. Machhindra Bochare 9860390781 Dr. Mahesh Kale 9890222776</p>	 <p>Dr. Vithalrao Vikhe Patil foundations, COLLEGE OF PHARMACY, Vilad Ghat, Ahmednagar.</p>

1.2.2

4. Summary Report of Certificate Programs



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

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GPAT-EXAM PREPARATION SUMMARY REPORT (2015-16)

Teaching faculty of our institute and Machhindra Bochare sir from Academy of NIPER Aspirants have taken efforts regarding GPAT guidance to students by delivering lectures on various topics related to syllabus of GPAT examination. GPAT lectures have been conducted for 37 hours and total 65 students have attended GPAT guidance lectures.

Date: 01/01/2016

Prof. Machhindra Bochare has discussed about important aspects regarding GPAT preparation and overview of study management.

Date: 02/01/2016

Prof. J. B. Wadekar has explained key concepts of chromatography applications in phytochemistry and illustrate about Cultivation, Collection, Processing and Storage of Crude Drugs. She enlighten students regarding systematic pharmacognostic study of some phytoconstituents like Carbohydrates and derived products, Lipids, Resins, Tannins and Volatile Oils. She also demonstrate students with respect to phytochemical screening of alkaloids, saponins, cardenolides and bufadienolides, flavonoids and leucoanthocyanidins, tannins and polyphenols, anthraquinones, cynogenetic glycosides, amino acids in plant extracts.

Date: 02/01/2016

Prof. Dr. R. L. Sawant develop basics of Pharmaceutical analysis in students with reference to theoretical aspects, elements of interpretation of spectra of the analytical methods [such as Infrared Spectrophotometry, Nuclear Magnetic Resonance spectroscopy (NMR) technique only], Mass Spectrometry. He also expertise students concerned with quality assurance as like Quality Review and Quality documentation, Regulatory control, regulatory drug analysis, interpretation of analytical data, Validation, quality audit: quality of equipment, validation of equipment, validation of analytical procedures.

Date: 04/01/2016

Prof. V. V. Nimbalkar has taught in detail about basic concepts of general pharmacology and explained pharmacology of drugs acting on cardiovascular system.

Date: 04/01/2016

Prof. H. J. Pagar briefly discuss about pharmacology of Peripheral Nervous System including detail study of neurohumoral transmission (autonomic and somatic), sympathetic and parasympathetic drugs, Parasympatholytics, Adrenergic receptor and neuron blocking agents, Ganglion stimulants and blocking agents, Neuromuscular blocking Agents, Local anesthetic Agents. He also elaborate concepts of other topics like basic mechanisms involved in the process of inflammation and repair, fundamentals of general pharmacology, Pharmacology of Central Nervous System.

Date: 05/01/2016

Prof. G. R. Godge has nurture understanding of students with respect to designing & evaluation of dosages forms such as liquid dosages forms, semisolid dosage forms, pharmaceutical aerosols, microcapsules, tablets and capsules, ophthalmic preparations and parenteral products. He also elaborate specific features of topics like size reduction, mixing, filtration and centrifugation, crystallization, industrial hazards and safety precautions, automated process control systems.

Date: 06/01/2016

Prof. B. V. Bhagat inculcate expertise of students in relation to Microbiology subject regarding topics as Classification of microbes and their taxonomy, Identification of Microbes, Control of microbes by physical and chemical methods, Sterilization, Immunology and Immunological Preparations. He also guide about key concepts of Pharmaceutical Jurisprudence subject regarding Pharmaceutical Legislations, Pharmaceutical Ethics; Pharmacy Act 1948; Drugs and Cosmetics Act 1940 and Rules 1945; Medicinal & Toilet Preparations (Excise Duties) Act 1955; Narcotic Drugs & Psychotropic Substances Act 1985 & Rules; Drugs Price Control Order. He also discuss about general concepts of biopharmaceutics and pharmacokinetics.

Date: 06/01/2016

Prof. Dr. R. L. Sawant has explained basic instrumentation and applications (quantitative and qualitative) of chromatographic techniques such as HPLC and HPTLC.

Prof. Dr. R. L. Sawant also explain about important concepts of Medicinal Chemistry subject such as principles of Drug Design, mode of action, uses, structure activity relationships including physicochemical properties of the some classes of drugs like cholinergics, anti-cholinergics and cholinesterase inhibitors, adrenergic drugs, diuretics, cardiovascular drugs, drugs acting on the central nervous system, chemotherapeutic agents used in bacterial, fungal, viral, protozoal, parasitic and other infections, antibiotics.

Date: 07/01/2016

Prof. M. A. Raskar has explained basic instrumentation and applications (quantitative and qualitative) of analytical techniques such as Ultraviolet and visible spectrophotometry, Infrared Spectrophotometry, Nuclear Magnetic Resonance spectroscopy [proton technique only], Mass Spectrometry, Fluorimetry, Flame Photometry, Atomic Absorption Spectroscopy, X-ray Diffraction Analysis, Radioimmunoassay. He described about different techniques of pharmaceutical analysis as like fundamentals of volumetric analysis, various types of titrations such as acid base titrations, oxidation-reduction titrations, precipitation titrations, non-aqueous titrations and complexometric titrations. He also polish up skills of students concerned with miscellaneous methods of analysis, electrochemical methods as potentiometry, conductometry, coulometry, polarography, amperometry, chromatography methods like TLC, GLC, paper chromatography and column chromatography.

Date: 07/01/2016

Prof. B. Y. Mane has briefly discuss with regard to drug metabolism and concept of prodrugs, synthetic procedures, mode of action, uses of the some classes of drugs like opioids, autacoids, steroidal drugs, thyroid and anti thyroid drugs; insulin and oral hypoglycemic agents. He also explain about enzyme immobilization, Organic Chemistry and its importance in pharmacy regarding stereochemistry, nucleophilic and electrophilic aromatic substitution reactions, elimination reactions, neighboring group effects, catalysis by transition metal complexes, heterocyclic compounds.

Date: 08/01/2016

Prof. Dr. S. Z. Chemate have taught specific features of subject Biopharmaceutics including introduction to Biopharmaceutics-Factors influencing absorption and Drug distribution in the body, plasma protein binding, Pharmacokinetics of drug absorption, Compartment model, Determination of pharmacokinetic parameters, Non-linear pharmacokinetics, Clinical Pharmacokinetics- Design of single dose bio-equivalence study and relevant statistics; Pharmacokinetic drug interactions and their significance in combination therapy, Bioavailability and Bioequivalence- Measures of bioavailability, C_{max} , t_{max} , Area Under the Curve (AUC); Design of single dose bioequivalence study and relevant statistics; Review of regulatory requirements for conducting bioequivalent studies. Biopharmaceutical Classification System (BCS) of drugs.

Date: 08/01/2016

Prof. V. V. Nimbalkar develop cognizance of students about basic concepts of Pharmacotherapy, Immunopathophysiology, Immunomodulation, Pharmacology of Cardiovascular System, Pathophysiology of Common Diseases such as asthma, diabetes, rheumatoid arthritis, neoplasia, psychosis, depression, epilepsy, hypertension, congestive heart failure, atherosclerosis, anemias, myocardial infarction, peptic ulcer, hepatic disorders, tuberculosis, acute and chronic renal failure, urinary tract infections. He gives brief understanding concerned with drugs acting on urinary system, respiratory system, Gastrointestinal Tract.



Sareekar

Academic Coordinator
College of Pharmacy

Pravara

Principal
College of Pharmacy



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GPAT-EXAM PREPARATION SUMMARY REPORT (2017-18)

Faculties of Academy of NIPER Aspirants have conducted lectures regarding GPAT guidance to students on various topics related to syllabus of GPAT examination. GPAT lectures have been conducted for 45 hours and total 30 students have attended GPAT guidance lectures.

Date: 08/07/2017

Prof. M. D. Bocharé sir have discuss about Pharmaceutical Engineering subject containing topics such as fluid flow, heat transfer, evaporation, drying, Size reduction and size separation, Crystallization, Filtration and Centrifugation. He also explained about Distillation, Extraction, Material of constructions, Automated process control systems, Industrial hazards & safety precautions.

Date: 22/07/2017

Prof. Mahesh Kale sir have taught introduction to general pharmacology with respect to topics as scope and source of drugs, dosage forms and routes of drug administration. Pharmacodynamics-Mechanism of drug action, Receptors, classification and drug-receptor interactions, combined effects of drugs, factors modifying drug actions. He also give brief discussion about Central Nervous System with special emphasis on Pharmacology of various neurotransmitters, General anesthetics, Sedatives, hypnotics and centrally acting muscle relaxants, Psychopharmacological agents, Anti-epileptic drugs. Anti-parkinsonism drugs, Narcotic analgesics.

Date: 13/08/2017

Prof. Rajekar sir has explained particular key elements of Physical Pharmacy subject with regard to micromeritics and powder rheology, surface and interfacial phenomenon, dispersion systems, complexation, buffers, solubility, concepts of dissolution and diffusion

Date: 15/08/2017

Prof. Swapnil Deshpande sir develop basics of Pharmaceutics in students concerned with introduction to dosage form, dosage form necessities and additives, semisolids, liquids (solutions, syrups, elixirs, spirits, aromatic water, liquid for external uses), emulsion and suspension.

Date: 26/08/2017

Prof. M. D. Bochare sir has explained key concepts of preformulation study, stability of formulated products and prolonged action of pharmaceuticals.

Date: 09/09/2017

Prof. Mahesh Kale sir has enlighten basic features regarding pharmacology of cardiovascular system along with treatment using anti-hypertensive drugs, anti-anginal agents, anti-arrhythmic drugs, drugs used in congestive heart failure. anti-hyperlipidemic drugs, drugs used in the therapy of shock, haematinics, anticoagulants and haemostatic agents, fibrinolytics and antiplatelet drugs, blood and plasma volume expanders.

Date: 17/09/2017

Prof. Swapnil Deshpande sir has described important aspects of dosage form like tablet, capsules, ophthalmic preparations, parenterals with respect to general formulation, classification, ideal requirement, production procedure, production facilities, controls, tests, advantages and limitations.

Date: 23/09/2017

Prof. M. D. Boachare sir has enlighten knowledge of students regarding Basic organic chemistry having topics such as different classes of compounds, aromaticity & chemistry of aromatic compounds, polycyclic aromatic hydrocarbons, kinetic & thermodynamic control. He also elaborated about phytochemistry with reference to introduction of pharmacognosy and phytoconstituents, classification of crude drugs, plant products, adulteration and evaluation of crude drugs, quantitative microscopy.

He discuss about dispensing & hospital pharmacy with respect to handling of prescriptions, labeling instructions for dispensed products, reading and counseling of prescriptions from the clinical practice, compounding and dispensing of prescriptions of various dosage forms like mixtures, solutions, emulsions, lotions and liniments (external preparations), powder, granules, suppositories, ointments / paste, cream.

Date: 09/11/2017

Prof. M. D. Boachare sir has briefly explained about Biopharmaceutics and Pharmacokinetics subject including topics like various mechanisms for drug absorption, biological factors in drug absorption, physicochemical factors, pharmacokinetics, biotransformation, drug disposition-distribution, drug disposition-elimination, bioavailability & bio-equivalence, biopharmaceutical statistics.

Date: 10/11/2017

Prof. M. D. Bochare sir has described basic concepts of Novel Drug delivery system (NDDS) such as transdermal drug delivery system, controlled drug delivery system, multiple emulsion, nanoparticles, targeted drug delivery system, aerosols, inhalation & new products reported etc. He also explained about fundamentals of IR spectroscopy, compartmental and non-compartmental pharmacokinetics, Compartment modeling.

Date: 11/11/2017

Prof. Mahesh sir has taught various classes of therapeutic agents, detailed study of the following classes with respect to drug nomenclature, classification, physicochemical properties, mode of action [MOA], structure-activity relationships [SAR], therapeutic uses & side effects : antibiotics, antifungal, anti-TB agents.

Date: 18/11/2017

Prof. Mahesh sir has explained overall study of the following classes with respect to drug nomenclature, classification, physicochemical properties, mode of action [MOA], structure-activity relationships [SAR], therapeutic uses & side effects: Anticancer, antiameobics, antiviral, antimalarial. He also discuss about important theory of Mass spectrometry.

Date: 19/11/2017

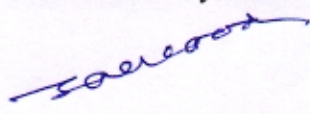
Prof. Shinde sir have illustrate about detail study of heterocyclic chemistry, stereochemistry, pericyclic reactions, carbohydrates, amino acids & proteins.

Date: 02/12/2017

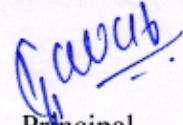
Prof. Mahesh Kale sir has develop a knowledge of students with reference to antibacterial sulpha drugs, quinolone antibacterials, antiulcer agents & proton pump inhibitors, adrenergic drugs. neurotransmitters & their role, general & specific adrenergic agonists & antagonists, cholinergic agents like muscarinic & nicotinic, cholinergic agonists & antagonists, drugs used in neuromuscular disorders, drugs used in the treatment of parkinson's disease, central & peripheral muscle relaxants.

Date: 12/01/2018

Prof. M. D. Bochare sir has described regarding introduction to quantitative structure-activity relationship [QSAR], asymmetric synthesis and combinatorial chemistry.


Academic Coordinator
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Ahmednagar

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GPAT-EXAM PREPARATION SUMMARY REPORT (2018-19)

Faculties of Academy of NIPER Aspirants have conducted lectures regarding GPAT guidance to students on various topics related to syllabus of GPAT examination. GPAT lectures have been conducted for 45 hours and total 21 students have attended GPAT guidance lectures.

Date: 22/04/2018

Prof. Mahesh Kale have discussed about detailed study of the following classes with respect to drug nomenclature, classification, physicochemical properties, mode of action [MOA], structure-activity relationships [SAR], synthesis of simple & prototype molecules, drug metabolism, therapeutic uses & side effects: sedative-hypnotics, antiepileptic agents, neuroleptics, anti-anxiety drugs.

Date: 16/06/2018

Prof. M. D. Bocharé have briefly explained about basic organic chemistry in relation to topics as like different classes of organic compounds, aromaticity & chemistry of aromatic compounds, different aromatic classes of compounds, carbonyl chemistry involving group conversions & their reaction mechanisms along with stereochemistry, bridged rings.

Date: 07/07/2018

Prof. Swapnil Deshpande elaborate regarding different solid dosage form such as powders, capsules, tablets. He also give guidance with respect to general formulation, manufacturing procedure, evaluation methods, IP products of other dosage form as like liquids (solutions, syrups, elixirs, spirits, aromatic water, liquid for external uses) and pharmaceutical aerosols.

Date: 21/07/2018

Prof. M.D. Bocharé has enlightened students on topics as sources of drug information, dosage form necessities and additives. He also gave brief idea about composition & physical states of matter, thermodynamics, kinetics, ionic equilibrium.

Date: 23/07/2018

Prof. Mohan Agarwal have give detail information about introduction to phytoconstituents including classification, chemical tests and pharmaceutical importance of : carbohydrates and their derivatives, fats and proteins, alkaloids, glycosides, flavonoids, steroids, saponins, tannins, resins, lipids and volatile oils. He also discuss about pharmaceutical aids, plant products, enzymes, natural pesticides and insecticides, adulteration and evaluation of crude drugs, quantitative microscopy.

Date: 04/08/2018

Prof. Mahesh Kale has explained general concepts of physiology and functions of the autonomic nervous system (ANS), mechanism of neurohumoral transmission in ANS with special emphasis on Pharmacology of various neurotransmitters. He also gave brief knowledge in relation to peptides and proteins as mediators, pharmacology of endocrine system, pharmacology of drugs acting on the gastrointestinal tract.

Date: 18/08/2018

Prof. Mahesh Kale has taught pharmacology of central nervous system (CNS), pharmacology of cardiovascular system, drugs acting on urinary system, drugs acting on respiratory system.

Date: 09/09/2018

Prof. M.D. Bochare has discussed important detail topics of Pharmaceutical Analysis subject such as importance of quality control in pharmacy, various types of titrations like acid-base titrations, non-aqueous titrations, oxidation-reduction titrations, precipitation titrations, complexometric titrations. He also explain overall detail aspects of introduction to dosage form, pharmaceutical plant, location and layout, parenterals, preformulations.

Date: 15/09/2018

Prof. M.D. Bochare has given brief idea about theory, instrumentation and applications of ultraviolet-visible spectroscopy, infrared spectroscopy, proton nuclear magnetic resonance spectroscopy (NMR), mass spectrometry, chromatography. He also give basic information about heterocyclic chemistry, stereochemistry, pericyclic reactions, carbohydrates, amino acids & proteins.

Date: 02/10/2018

Prof. Swapnil Deshpande has explained general concepts of suspension, emulsion, semisolids, stability of formulated products, novel drug delivery system, GMP and validation.

Date: 06/10/2018

Prof. Mahesh Kale has taught immunopharmacology, principles of toxicology, general principles of chemotherapy including antibiotics, sulphonamides and co-trimoxazole.

Date: 14/10/2018

Prof. Vikas has described regarding Biopharmaceutics, Clinical Pharmacy and Therapeutics subjects involving topics like bio-availability & bioequivalence, biopharmaceutical statistics, adverse drug reaction (ADR), therapeutic drug monitoring, age-related drug therapy, clinical trials.

Date: 17/11/2018

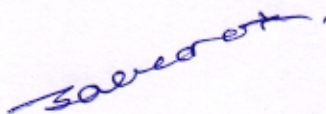
Prof. Mahesh kale has explained about general pharmacology, detailed pharmacology including classification, mechanism of action and therapeutic uses of autacoids and their antagonists, pharmacology of peripheral nervous system, chronopharmacology.

Date: 02/12/2018

Prof. M. D. Bochare has taught about vitamins & minerals, principles of basic and clinical pharmacokinetics, discovery and development of new drugs-preclinical and clinical studies. He also discuss biological activity [including side-effects & toxic effects], mode of action, structure-activity & syntheses of general anesthetics, local anesthetics, diagnostic agents, coagulants, anticoagulants & plasma expanders, antiseptics, disinfectants, sterilants, & astringents, purgatives, laxatives & antidiarrhoeal agents.

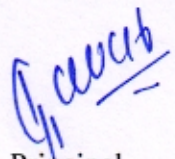
Date: 03/12/2018

Prof. M. D. Bochare has give brief knowledge to students with respect to detailed study of the following classes with respect to drug nomenclature, classification, physicochemical properties, mode of action [MOA], structure-activity relationships [SAR], synthesis of simple & prototype molecules, drug metabolism, therapeutic uses & side effects: antimalarials, antiamoebic agents, anthelmintic agents, antibacterial- sulpha drugs [only], quinolone antibacterials, antimycobacterial drugs, antifungal agents, antiviral agents including HIV & anti-HIV drugs, thyroid & antithyroid drugs, antiallergic agents, antiulcer agents & proton pump inhibitors, hypoglycemic agents.



Academic Coordinator
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College of Pharmacy



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 : pdcophanarr@rediffmail.com
Accredited by NAAC with Grade "B" (CGPA 2.72)
Permanently Affiliated to University of Pune, Pune.
Approved by AICTE, PCI, New Delhi & Recognized by UGC, New Delhi



GPAT-EXAM PREPARATION SUMMARY REPORT (2019-20)

Faculties of Academy of NIPER Aspirants have conducted lectures regarding GPAT guidance to students on various topics related to syllabus of GPAT examination. GPAT lectures have been conducted for 54 hours and total 39 students have attended GPAT guidance lectures.

Date: 13/04/2019

Prof. M.D. Bochare has discussed on Dispensing and Hospital Pharmacy subject including topics as handling of prescriptions, labeling instructions for dispensed products, preparations of formulations involving allegation, alcohol dilution and isotonic solution, reading and counseling of prescriptions from the clinical practice. He also give general description about study of current patent and proprietary products, generic products and selected brand products, indications, adverse drug reactions, available dosage forms and packing of drugs of following class: antihypertensive drugs, antiamoebic drugs, antihistaminic drugs, antiemetic drugs, antacids and ulcer healing drugs, antidiarrheals and laxatives, antibiotics, analgesics and antipyretic drugs. He also explained regarding compounding and dispensing of following prescriptions: Mixtures, solutions, emulsions, lotions and liniments (external preparations), powder, granules, cream, inhalations, incompatibility: prescription based on physical, chemical and therapeutic incompatibility.

Date: 20/04/2019

Prof. Mahesh Kale has taught detailed pharmacology including classification, mechanism of action and therapeutic uses of following classes: neurohumoral transmission in autonomic and central nervous system, peptides and proteins as mediators, pharmacology of peripheral nervous system.

Date: 09/08/2019

Prof. M.D. Bochare has given brief idea about some general aspects of Pharmaceutical analysis subject involving importance of quality control in pharmacy, various types of titrations as like acid-base titrations, non-aqueous titrations, oxidation-reduction titrations, precipitation titrations, complexometric titrations.

Date: 03/09/2019

Prof. M.D. Bocharé has enlightened cognizance of students with regard to gravimetry, extraction techniques, calibration of instruments, potentiometry, miscellaneous methods of analysis.

Date: 04/09/2019

Prof. M.D. Bocharé has explained in detail general principles of spectroscopy, various spectroscopic techniques such as ultraviolet-visible spectroscopy, spectrofluorimetry, flame photometry & atomic absorption spectroscopy, nephelometry & turbidimetry.

Date: 05/09/2019

Prof. M.D. Bocharé has described about important key features of some spectroscopic techniques like infrared spectroscopy, proton nuclear magnetic resonance spectroscopy, mass spectrometry.

Date: 06/09/2019

Prof. M.D. Bocharé has taught various basic aspects of biopharmaceutics and clinical pharmacy subjects including various mechanisms for drug absorption, pharmacokinetics, compartmental and non-compartmental pharmacokinetics, biotransformation, drug disposition-distribution, drug disposition-elimination, bio-availability & bio-equivalence, monitoring and reporting of ADR and its significance, pharmacovigilance, therapeutic drug monitoring, age-related drug therapy.

Date: 07/09/2019

Prof. M.D. Bocharé has gave overall theoretical aspects of pharmaceutical engineering subject including topics as fluid flow, heat transfer, evaporation, distillation, drying, size reduction and size separation, crystallization, filtration and centrifugation, material of constructions, industrial hazards & safety precautions.

Date: 08/09/2019

Prof. Swapnil Deshpande has gave brief explanation about new drug and dosage form, the desirable properties of a dosage form, the need of dosage form, sources of drug information, dosage form necessities and additives. He also elaborated discussion regarding various types of dosage forms as powders, capsules, tablets, suspensions, emulsions, semisolids, liquids (solutions, syrups, elixirs, spirits, aromatic water, liquid for external uses), parenterals.

Date: 09/09/2019

Prof. Mahesh Kale has described important topics such as pharmacology of central nervous system, pharmacology of cardiovascular system, pharmacology of endocrine system, drugs acting on urinary system, drugs acting on respiratory system.

Date: 10/09/2019

Prof. Mahesh Kale has explained about chemotherapy, autacoids and their antagonists, pharmacology of drugs acting on the gastrointestinal tract.

Date: 11/09/2019

Prof. Mahesh Kale has taught chronopharmacology, immunopharmacology, vitamins & minerals, pharmacodynamics-mechanism of drug action, receptors, classification and drug-receptor interactions, combined effects of drugs, factors modifying drug actions, pharmacokinetics-mechanism and principle of absorption, distribution, metabolism and excretion of drugs, principles of basic and clinical pharmacokinetics.

Date: 12/09/2019

Prof. Mahesh Kale has described in relation to pharmacogenetics, adverse drug reactions, discovery and development of new drugs-preclinical and clinical studies, principles of toxicology.

Date: 13/09/2019

Prof. Mahesh Kale has briefly explained overall concepts of pharmacognosy subject including topics as classification of crude drugs, factors influencing quality of crude drugs, adulteration and evaluation of crude drugs, introduction to phytoconstituents, plant products, volatile oils, extraction and isolation techniques quality control and standardization of herbal drugs, herbal formulations.

Date: 14/09/2019

Prof. Rameshwar Ardad has discussed in detail about important topics of organic chemistry subject as like different classes of organic compounds, aromaticity & chemistry of aromatic compounds, different aromatic classes of organic compounds, polycyclic aromatic hydrocarbons, carbonyl chemistry involving group conversions & their reaction mechanisms.

Date: 15/09/2019

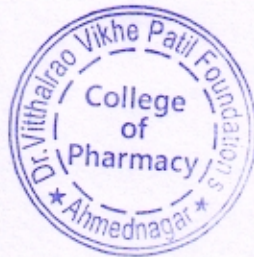
Prof. Rameshwar Ardad has described about key topics of organic chemistry such as heterocyclic chemistry, bridged rings, kinetic & thermodynamic control, stereochemistry, carbohydrates, amino acids & proteins, pericyclic reactions.

Date: 29/09/2019

Prof. Swapnil Deshpande has explained about pharmaceutical impurities, monographs, pharmaceutical aerosols, ophthalmic preparations, preformulations, stability of formulated products. he also taught other essential topics like novel drug delivery system, gmp and validation, packaging materials, pilot plant scale-up techniques.

Date: 02/10/2019

Prof. Mahesh Kale has discussed about polarography, chromatography including topics such as classification of chromatography, van deemter equation, a detailed study of thin layer chromatography [TLC], paper chromatography, column chromatography, gas chromatography [GC], qualitative & quantitative applications of these techniques, introduction to high performance TLC [HPTLC] and high pressure / performance liquid chromatography [HPLC].



Saleck

Academic Coordinator
College of Pharmacy

G. Anant

Principal
College of Pharmacy



DR. VITHALRAO VIKHE PATIL FOUNDATION'S
COLLEGE OF PHARMACY,
VILAD GHAT, PO. MIDC, AHMEDNAGAR (MS)
Phone No. (0241) 2778044 / 2777217. Fax No. (0241) 2778044
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SUMMARY REPORT

CERTIFICATE COURSE

HANDS ON TRAINING ON PHARMACEUTICAL AND ANALYTICAL EQUIPMENTS

Organized by

DR.V.V.P.F'S COLLEGE OF PHARMACY, AHMEDNAGAR

The objective of the course was

1. To provide hands on training to students on pharmaceutical equipments and machineries
2. Initiation to bridge the gap between industry and academic
3. Overall skill development of students

Equipments covered during the training were Tablet punching machine, Spray Dryer, Disintegration test apparatus, Dissolution test apparatus, FT-IR spectrophotometer, HPLC instrument.

Date of Conduct: 16/09/2019, 17/09/2019 and 18/09/2019 (Three days)

Number of Participants: 76 Students

Highlights of the Hands-on Training Course:

Day 1:

Inauguration of the program was done at seminar hall, Dr. VVPF's college of pharmacy, vilad ghat, Ahmednagar which was followed by training session regarding lecture on theory of tablet punching machine was taught by Prof. K. N. Tarkase and theory of spray drying techniques was taught by Prof. A. W. Ambekar as well as practical of instrument handling was demonstrated in afternoon session by respective staff.

Day 2: In morning, theory session of lectures on IPQC tests of tablets and working of FT-IR spectrophotometer was delivered by Prof. P. P. Hajare and Prof. M. A. Raskar respectively. In afternoon practical session was conducted by respective staff regarding operation of Disintegration and Dissolution test apparatus and also about sample characterization using FT-IR spectrophotometer.

Day 3: In morning, theory session of lecture on instrumentation of HPLC was conducted by Prof. R. S. Joshi. In afternoon practical session on HPLC analysis of some drug API samples was carried out by Prof. R. S. Joshi along with case study on instrument handling was organized. At last, a valedictory function was organized at seminar hall where prizes were given to winners of case study session and vote of thanks was given by Training Program Co-ordinator Prof. M. A. Raskar.

Training Program Co-ordinator: Prof. M. A. Raskar, Assistant Professor, Department of Pharmaceutical Chemistry.

Acknowledgements: Dr. P. Y. Pawar, Principal, Dr.V.V.P.F's college of pharmacy, ahmednagar.

Day 1:

Sr. No.	Name of Instrument	Practical	Application/Uses
1	Tablet punching machine	Practical applications with preparation of tablets	Preparation of tablets by using API & excipients
2	Spray Dryer	Practical applications with preparation of spray dried powder	<ul style="list-style-type: none"> To improve the compactability of drugs To perform microencapsulation, granulation and complex formation Formulation of dry powder aerosols and heat sensitive materials

Day 2:

Sr. No.	Name of Instrument	Practical	Application/Uses
1	Disintegration test apparatus	Evaluation of prepared tablets by using Disintegration test apparatus	To study disintegration property of tablet
2	Dissolution test apparatus	Evaluation of prepared tablets by using Dissolution test apparatus	To provide critical <i>invitro</i> drug release information to predict <i>in vivo</i> drug release profiles.
3	FT-IR Spectrophotometer	Characterization of organic samples by using FT-IR Spectrophotometer	<ul style="list-style-type: none"> Identify organic functional groups Identify molecular structure of organic compounds Contamination analysis

Day 3:

Sr. No.	Name of Instrument	Practical	Application/Uses
1	HPLC Instrument	Practical applications with separation of two or more pharmaceutical ingredients	<ul style="list-style-type: none"> Chromatographic analysis of pharmaceutical samples Carry out assay, purity, identification of pure drugs

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