



Shri. Balasaheb Mane Shikshan Prasarak Mandal, Ambap's

ASHOKRAO MANE COLLEGE OF PHARMACY

Approved by PCI & AICTE New Delhi, DTE-Government of Maharashtra
Affiliated to Shivaji University, Kolhapur

Peth Vadgaon Tal. Hatkanangale, Dist. Kolhapur (MH) PIN -416 114

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VALUE ADDED COURSE

Title of the Value Added Course: TOOLS FOR SCIENTIFIC RESEARCH

Objectives of the Course: Modern research is dynamic. Technology is a key factor in the effectiveness of our research since we frequently utilize the internet to visit websites, examine statistics, and conduct our research by investigating various forms of digital information.

The main objectives of course are:

- To provide tools that enable students to follow the correct path in research and to ultimately produce high-quality research outputs with more accuracy and efficiency
- To provide hands on training of various tools for research to students by which research become, easier and more result-oriented
- To help students who seek to reduce the search time by expanding the knowledge of researchers to more effectively use the "tools" that are available through the Net.

The Context: Course includes

Module I: Databases:

Duration: 6 hr

There are many different databases available that provide access to scholarly articles, books, and other research materials. Examples include

PubMed

Google Scholar

Directory of Open Access Journals (DOAJ)

Science Direct

Scopus

Web of Science

PLOS

Microsoft Academic

Research Gate



Module II: Reference management software:

Duration: 6 hr

Software tools like Zotero, Mendeley, and EndNote can help to organize references and citations, making it easier to keep track of sources and create a bibliography.

Zotero

Mendeley

EndNote:

RefWorks.

Citavi

Cite this for me:

Module III: Paraphrasing Tool:

Duration: 6 hr

Paraphrasing Tool is a free online tool that allows you to paste in text and automatically rewrites it for you. It offers a variety of options to customize the output and can be used for both academic and non-academic writing.

QuillBot

Prepostseo Paraphrasing Tool:

SEO Magnifier Paraphrasing Tool

Spinbot

Module IV: Journal Finder

Duration: 3 hr

Elsevier Journal Finder

Springer Journal Suggester

Wiley Journal Finder

Journal Guide

Module V: Proofreading:

Duration: 6 hr

Grammarly

Hemingway Editor

ProWritingAid

Ginger



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LanguageTool

PaperRater

Typely

Module VI: Plagiarism checker:

Duration: 6 hr

DupliChecker

Grammarly

Quetext

SmallSEOTools.

Plagiarism Checker

Prepostseo

Module VII: Chemical structure and scientific drawing

Duration: 3 hr

ChemDraw JS

Marvin JS

ChemDoodle

DrawChem

MolView –

PubChem Sketcher

Edrawmax

The completion of course: Students should complete course for a period of not less than 30 hours done after the college working hours during V/VI semester of B. Pharmacy. The reports are prepared by the students. The report includes the details about the course.

Evidence of Success: After completion of the course students successfully submitted the reports.

Problems Encountered and Resources Required:

After the college hours the candidate should dedicate one hour for the course to gain an added knowledge.

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Value Added Course

Title of the Value Added Course: PATHOLOGY LABORATORY WORK PRACTICE

Objectives of the Practice

- 1) Knowledge of mechanisms of disease including the etiology, local or systemic responses to disease.
- 2) To develop professional and administrative skills required of effective clinical pathology.

To gain experience in various aspects of pathology laboratory work practice.

- To fulfill the gap between theory and practical knowledge.
- Students are able to study the causes and effects of disease or injury.
- Study of the mechanisms of disease that lead to the signs and symptoms that must be recognized in patients
- Students are able to understand the processes involved in testing for disease and the reporting of diagnostic tests.

The Context: The reports are done by the students. The report includes,

1) Detail Of Training

- Basic Laboratory equipments and machinery
- Principle and procedure
- Solutions and reagents used in lab



- Methods of withdrawing blood
- Appropriate location site for obtaining blood sample
- Labeling of sample
- Updating patient records
- Maintaining of equipments and quality control
- Guidelines for Good Clinical Laboratory practice
- Disposable of wastes

2) List of Tests carried out in Laboratory

- Total CBC
- Routine Urine Analysis
- Renal function test
 - Chemical test in renal disease
 - Gastric function test
 - Liver function test
 - Cardiac profile test
- Staining methods and Aseptic techniques
- Study of gram positive and gram negative bacteria
- Identification of bacteria
- Routine coagulation test
- Hematological test



- Blood banking techniques and transfusion methods
- Blood group detection methods
- Techniques used for separation of blood composition
- Record keeping and documentation
- Diagnosis of disease

The Practice: Students should practice in nearby pathology laboratory for a period of not less than 30 hours done after the college working hours during II semester of B. Pharmacy. The reports are prepared by the students. The report includes the details about the practice.

Learning Outcome-

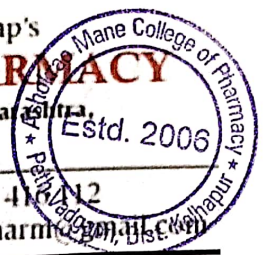
- 1) Students are able to study the causes and effects of disease or injury.
- 2) Understanding the mechanisms of disease that lead to the signs and symptoms that must be recognized in patients
- 3) Understanding the cause of disease, the processes involved in testing for disease and the reporting of diagnostic tests.



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Assessment Process

Sr.No.	Evaluation	Maximum Marks
1	Progress of Work	3
2	Attendance	3
3	Report Writing	3
4	Attainment of PO	1
	Total Marks	10

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Value Added Course

Title of the Value Added Course:

Preparation of Herbarium sheet and authentication of plant

Objectives of the Practice:

No university a part of curriculum can adequately cover all areas of importance or relevance. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. Our college offers a wide variety of short term and also long-term certificate course which are conducted after class hours or during semester breaks. These courses are conducted by relevant subject teachers which help students stand apart from the rest in the job market by adding further value to their carriers. To learn Organizational structure and industry expectations as fresher's

- To develop strong foundation in fundamental science for scientific understanding.
- A holistic development of academic excellence to contribute effectively to the understanding of plant sciences.
- To equip the students with the basic skills in identifying and labelling different plants.
- To impart quality education in the field of pharmacognosy enabling our students to confidently face the job market.
- To sensitize the students towards the need for keeping the environment clean and conserve our natural resources.



- Understand the universal nature of science and demonstrate the use of scientific method.
- To lay a strong foundation to the study in pharmacognosy and phytochemistry and impart in sight in to be different types of medicinal plants, its classification in the living kingdom.
- Appreciate the world of organisms and its course of evaluation and diversity & develop basic skills to study pharmacognosy in detail.
- To develop skill in practical work, experiment use of biological tools and techniques.
- To develop problem solving skills in the students to carry out innovative research projects and creation of spirit of knowledge in them.
- Proficiency in the use of recent and advance botanical or herbal technologies.
- Awareness to explore the student's different life forms of organisms at cellular, molecular and nano level and inspire to disseminate the concept of biodiversity conservation.
- To provide facilities for determination of any material including new taxa and to enable preparation of new monographs and floras.
- To assemble data for working out ranges and ecological distribution.
- To provide material for specific research as in plant anatomy, palynology and ethno botany and also for molecular research.
- To preserve specimens of historic importance and to assemble data for working out ranges and ecological distribution.



Module1:Introductionofherbarium,typesandfunctions(06hrs)

Meaningofherbarium,history,roleofherbariuminteachingandresearch,typesofherbaria,functionofherbaria,acronymofherbariaandimportanceoftheherbariaintheworld

Module2:Majorroleofherbarium,importance,plantspecimenandauthentication(06hrs)

Roleinteaching&research,importanceofherbariaintheworld,herbariaintheIndia,preparationofplantspecimensfordepositasherbariumvouchers

Module3:Herbariumprocessingmethodology,recordskeeping,maintenanceofherbarium,virtualherbarium(10hrs)

Field work and selection of material, processing of plant specimen like collection, drying of sample, poisoning of sample, mounting of sample, stitching and labelling sample, deposition of plant sample, maintenance and specimen care of herbarium from insects & pest with repellents and fumigation use, virtual herbarium & its advantages

Module4:Basicbotanicalandpracticalskills(8hrs)

Initial preparations, obtain collection permit, establish official contacts, arrangement with herbarium to deposit a specimen, assess field equipment's and supplies, pressing and mounting specimen techniques like spatula & needle method, proper labelling, storage, record keeping & conservation of specimens



Outcomes:

1. The herbarium is used as a repository for the study of plants specimen. Herbarium provides instant referrals in taxonomical studies. They give histological and geographical information about different plant species.
2. It provides detailed scientific information about the plants for research and exhibition and thus acts as a quick referral system in taxonomic studies.
3. A herbarium provides information about the distribution and occurrences of certain plant species. Herbaria provides scientific information about the plants



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Value Added Course

Title of the Value Added Course: Personality Development & Employability Skills

Objectives of the Practice: Technology backed Skill development intervention to fills the skills gap that exists in the entry level talent across various industries so as every student will have the power to transform lives for themselves and others.

- To learn Organizational structure and industry expectations as fresher's
- To identify Strength/Weakness/Opportunities/ Threat
- To learn most commonly used words in corporates and E-mail writing skills
- To eliminate stage fear and access public speaking skills
- To articulate your thoughts through Power point presentation
- To handle telephonic round of interview
- To prepare for and perform well during interviews



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New Hire Training/ Personality Development/ Employability Skills				
Sr. No.	Topic	Methodology	Learning Objectives	Duration
1	Expectation setting	Role play	To learn Industry expectations from freshers	1
2	Ice breaking	Introduction	To know more about the trainer & candidates	1
3	Organizational Structure	Case study	To learn Organizational structure	2
4	SWOT Analysis	Free speech	To identify their Strength/Weakness/Opportunities/ Threat	3
5	Corporate Jargons	Presentation	To learn most commonly used words in corporates	2
6	Public Speaking	Extempore	To eliminate stage fear	3
7	Presentation Skills	Power Point presentation	To articulate your thoughts through Power point presentation	4
8	E-mail Etiquette	Presentation/Mock E-mails	To learn E-mail writing skills	2
9	Grooming	Presentation/Do's & Don'ts/Role play	Dress to impress/ Proximity/ Personal hygiene/	3
10	Body language	Role play	To learn positive body language	1
11	Telephone Etiquette	Role play/Mock Calls	To handle telephonic round of interview/ To learn call mechanics	2
12	Group Discussion	Group activity	To assess candidates' public speaking skills	2
13	Personal Interview	Mock Interviews	To perform well during interviews	4
				30 hrs.

Outcomes:

- Students know Organizational structure and industry expectations as freshers.
- Students identified their Strength/Weakness/Opportunities/ Threat.
- Students learned most commonly used words in corporates and E-mail writing skills



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- Students are now capable of public speaking and able to articulate their thoughts through Power point presentation.
- Students can handle telephonic round of interview.
- Students now prepared for interview in the form of speaking, dressing, body language and will perform well during interview.



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Assessment Process

Sr.No.	Evaluation	Remark
1	Body language	E-Excellent G-Good S-Satisfactory P-Poor
2	Public speaking	
3	Presentation skill	
4	Mock interview	
5	Group discussion	


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Value Added Course

***Title of the Value Added Course:* COMMUNITY PHARMACY PRACTICE**

Objectives of the Practice: Community pharmacy, also well-known as retail pharmacy, is the most common type of the pharmacy that allows the public access to their medications and the advice about their health. Practice in medical will be a Practical exposure for students.

- To gain experience in various aspects of community pharmacy practice.
- To fulfill the gap between theory and practical knowledge.
- To develop practical skills that will enable the student to enhance the quality of Counseling of patients and advance pharmaceutical care in the community setting.
- To provide experiences in order to enhance communications skills when dealing with patients and with other healthcare providers.

The Context: The reports are done by the students. The report includes,

- **Prescription:** A prescription is an order for medicine which a doctor writes, and which is given to a pharmacist to prepare and administer the medicine.

Prescription include following steps-

- 1) Receiving and Reviewing Prescription
- 2) Translating the Prescription
- 3) Data Entry
- 4) Filing the Prescriptions
- 5) Patient Counseling



- **Dispensing**: Dispensing refers to the process of preparing and giving medicine to a named person on the basis of a prescription. Prescription includes following steps-
 - 1) Receive and validates the prescription.
 - 2) Understand and interpret the prescription.
 - 3) Select and label medicine for issue.
 - 4) Make a final check.
 - 5) Record the action taken.
 - 6) Issue medicines to the patient with clear instruction and advice.
- **Inventory control of medicines**: Receive and inspect products. The first step in the inventory management process includes
 - 1) Receiving your order from the supplier
 - 2) Sort and stock products.
 - 3) Accept customer order.
 - 4) Fulfill, package and ship order.
 - 5) Reorder new stock.
- **Purchase, sale of medicines and Accounting**: Purchase includes,
 - 1) Identification of the need
 - 2) The description of the product characteristics
 - 3) Drafting the specifications
 - 4) Supplier sourcing
 - 5) In-depth analysis of applications
 - 6) Preparing for the negotiation

Sale includes,

 - 1) Receive Mail Order
 - 2) Details Verification
 - 3) Data Conversion Entry



- 4) Medication Refill Check
- 5) Organizing Prescribed Medicines
- 6) Order Placement & Tracking
- 7) Billing Management

The Practice: Students should practice in nearby medical shop for a period of not less than 30 hours done after the college working hours during V/VI semester of B. Pharmacy. The reports are prepared by the students. The report includes the details about the practice. And also, the community pharmacist award for Best practice of community pharmacy is declared.

Evidence of Success: After completion of the practice in community pharmacy students successfully submitted the reports. And also, on the occasion of pharmacist day the best community pharmacist award to the Pharmacist will be given for their true service towards the wealthy society. The Best pharmacist from Vadgaon will be identified and felicitated.

Course Outcomes –

Upon successful completion of this Course Students will have the knowledge and skills about-

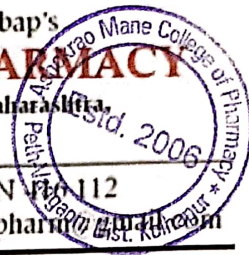
1. Handling of the Prescription and dispense the proper medicines.
2. To Counsel the patients about the medicines, diet & proper dose.
3. To acquire the knowledge about the side effects of the drug.
4. To fulfill the gap between the theory and practical knowledge while dealing with the patients.



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