



1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the curriculum

INDEX

Sr. No.	Curriculum Enrichment	Cross cutting issues
1	Curriculum	Professional Ethics
		Human Values
		Environment and sustainability
		Gender
2.	Co-Curricular and Extracurricular	Professional Ethics
		Human Values
		Environment and sustainability
		Gender equality
3.	Constitution of various Committees to integrate cross cutting issues	Internal Complaints Committee (ICC)
		Grievance Redressal committee
		Anti-Discrimination Committee
4.	Green Audit Report	Green Audit Certificate
5.	Skill Development	Add on/Value added courses

Criterion 1: Curricular Aspects



PES MODERN COLLEGE OF PHARMACY
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PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

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M. Pharm., Ph. D.
Principal

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Professional Ethics, Gender, Human Values, Environment and Sustainability in curriculum

Sr. No.	Class	Course code	Course	Description
PROFESSIONAL ETHICS				
1.	F.Y.B. Pharm (Sem - I)	BP102T BP108P	Pharmaceutical Analysis I	Develop Analytical skills. Fundamentals of analytical chemistry and principles of electrochemical analysis of drugs, preparation and standardization of drugs, determination of %purity of compounds etc.
2.	F.Y.B. Pharm (Sem - I)	BP103T BP109P	Pharmaceutics I	Know the history of Profession of Pharmacy, understand the professional way of Handling of prescription, Understand the basics of different dosage forms, pharmaceutical calculations and pharmaceutical incompatibilities, Preparation of various dosage forms.
3.	F.Y.B. Pharm (Sem - I)	BP104T	Pharmaceutical Inorganic Chemistry	Know the sources of impurities and methods to determine the impurities in drugs and pharmaceuticals.
4.	F.Y. B. Pharm (Sem – II)	BP204T	Pathophysiology	To get baseline knowledge required to practice medicine safely, confidently, rationally and effectively.
5.	S. Y. B. Pharm (Sem – IV)	BP408P	Pharmacology - I	Study of common laboratory animals and its possible use. Maintenance of laboratory animals as per CPCSEA guidelines, importance of GLP.
6.	S. Y. B. Pharm (Sem – IV)	BP405T BP409P	Pharmacognosy And Phytochemistry	Crude drugs identification and evaluation as per regulatory guidelines., phytochemicals present in them and their medicinal properties.

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7.	T. Y. B. Pharm (Sem – V)	BP502T BP506P	Industrial Pharmacy - I	Formulate solid, liquid and semisolid dosage forms and evaluate them for their quality as per regulatory guidelines.
8.	T. Y. B. Pharm (Sem – V)	BP505T	Pharmaceutical Jurisprudence	The Pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals. Various Indian pharmaceutical acts and laws, the regulatory authorities and agencies govern the manufacture and sale of pharmaceuticals. code of ethics during the pharmaceutical practice.
9.	T. Y. B. Pharm (Sem – VI)	BP602T	Pharmacology III (Theory)	Principles of Toxicology
10.	T. Y. B. Pharm (Sem – VI)	BP603T BP608P	Herbal Drug Technology (Theory)	Know the WHO and ICH guidelines for evaluation of herbal drugs, know the herbal cosmetics, natural sweetener, nutraceuticals. Preliminary phytochemical screening of crude drugs.
11.	T. Y. B. Pharm (Sem – VI)	BP605T	Pharmaceutical Biotechnology (Theory)	Genetic engineering applications in relation to production of pharmaceuticals.
12.	T. Y. B. Pharm (Sem – VI)	BP606T	Pharmaceutical Quality Assurance (Theory)	Understand the cGMP aspects in a pharmaceutical industry, appreciate importance of documentation, understands the responsibilities of quality control and quality assurance aspects of pharmaceutical industries.
13.	T. Y. B. Pharm (Sem – VI)	BP608P	Pharmacology III (Practical)	Determination of acute oral toxicity (LD50) of a drug from given data
14.	Final Y. B. Pharm (Sem – VII)	BP701T	Instrumental Methods of Analysis (Theory)	Design methods for performing quantitative & qualitative analysis of drugs using various analytical instruments.

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15.	Final Y. B. Pharm (Sem VII)	BP702T	Industrial Pharmacy- II	Know the different laws and acts that regulate pharmaceutical industry, understand the approval process and regulatory requirements for drug products.
16.	Final Y. B. Pharm (Sem – VII)	BP706PS	Practice School	The student shall opt for any one of the domains for practice school and the report submitted will be evaluated on the basis of knowledge and skills.
17.	Final Y. B. Pharm (Sem – VIII)	BP804ET	Pharmaceutical Regulatory science (Theory)	Know the regulatory authorities and agencies governing the manufacture and sale of pharmaceutical.
18.	Final Y. B. Pharm (Sem – VIII)	BP805ET	Pharmacovigilance (Theory)	The course aims to provide the methods to generate safety data during the pre-clinical, clinical, and post-approval phases of drugs' life cycle.
19.	F. Y. M. Pharm (Sem – I)	MPH104T	Regulatory Affairs	Post-approval regulatory requirements for actives and drug products. Submission of global documents in CTD/ eCTD formats. Clinical trial requirements for approvals for conducting clinical trials. Pharmacovigilance and process of monitoring in clinical trials.
20.	F.Y. M. Pharm (Sem – I)	MPH105P	Pharmaceutics Practical - I	This course is designed to impart knowledge and skills necessary to train the students on par with the routine of Industrial activities in R&D and F&D.
21.	F.Y. M. Pharm (Sem – I)	MQA102T	Quality Management Systems	This course aids in understanding quality evaluation in the pharmaceutical industry.

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HUMAN VALUES				
1.	F. Y. B. Pharm (Sem – I)	BP105T	Communication Skills	Students can Communicate effectively, develop interview skills, develop Leadership qualities and essentials.
2.	First Year B. Pharm		Democracy, Election and Governance	To introduce the students meaning of democracy and the role of the governance
3.	Final Y. B. Pharm (Sem – VII)	BP703T	Pharmacy Practice	Students can able to do patient counseling in community pharmacy. Appreciate the concept of rational drug therapy. Adverse drug reaction, over the counter (OTC) sales.
4.	Final Y. B. Pharm (Sem – VIII).	BP802T	Social and Preventive Pharmacy	Acquire high consciousness/ realization of current issues related to health, and pharmaceutical problems within the country and worldwide. Have a critical way of thinking based on current healthcare development. Evaluate alternative ways of solving problems related to health and pharmaceutical issues.
5.	First Year M. Pharm		Introduction To Constitution	Introduces Constitution of India to the students.
ENVIRONMENT AND SUSTAINABILITY				
1.	F.Y. B. Pharm (Sem – II)	BP205T	Computer Applications in Pharmacy	Understand the various types of applications of computers in pharmacy for paper free documentation.
2.	F.Y. B. Pharm (Sem – II)	BP206T	Environmental Sciences	Create awareness about environmental problems among learners, Develop an attitude of concern for the environment. Motivate learners to participate in environment protection and

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				environment improvement. Acquire skills to help the concerned individuals in identifying and solving environmental problems. Strive to attain harmony with nature.
3.	S. Y. B. Pharm (Sem – III)	BP303T, BP307P	Pharmaceutical Microbiology (Theory)	Study of Microorganisms and its effect on pharmaceutical products. importance of sterilization in pharmaceutical processing and industry.
4.	S. Y. B. Pharm (Sem – III)	BP304T, BP308 P	Pharmaceutical Engineering (Theory and Practical)	To carry out various tests to prevent environmental pollution. To appreciate the various preventive methods used for corrosion control in pharmaceutical industries.
5.	F. Y. B. Pharm (Sem – II)	BP208P	Pharmaceutical Organic Chemistry I (Practical)	Safety measures in organic laboratory.
6.	F.Y. M. Pharm (Sem – II)	MQA201T	Hazards And Safety Management	At the completion of this course students will be able to Understand environmental problems. Impart basic knowledge about the environment and its allied problems. Develop an attitude of concern for the industry environment.
7.	S.Y. M. Pharm	-	Research Projects	Research guides emphasize on designing projects based green approach to impart environmental sustainability.
GENDER				
1.	F. Y. B. Pharm (Sem – I)	BP106RBT BP112RBP	Remedial Biology	Male and female reproductive system. Spermatogenesis, Oogenesis. Menstrual cycle.
2.	F. Y. B. Pharm (Sem – II)	BP201T	Human Anatomy & Physiology II	Male and female reproductive system, Spermatogenesis, Oogenesis, Menstrual cycle.

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3.	T. Y. B. Pharm (Sem – V)	BP501T	Medicinal Chemistry II	Study of Sex hormones, oral contraceptives, corticosteroids, drugs for erectile dysfunction.
4	T. Y. B. Pharm (Sem – V)	BP503T	Pharmacology II	Androgens, metabolic steroids, estrogens, contraceptives, drugs acting on uterus.
5.	T. Y. B. Pharm (Sem – V)	BP505T	Pharmaceutical Jurisprudence	Medical Termination of Pregnancy Act.



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SAVITRIBAI PHULE PUNE UNIVERSITY

FACULTY OF
SCIENCE AND TECHNOLOGY



COURSE STRUCTURE AND SYLLABUS

FINAL YEAR BACHELOR OF PHARMACY (B. Pharm.) 2019PATTERN
(EFFECTIVE FROM ACADEMIC YEAR 2022 - 2023)



FINAL YEAR B. PHARM SEMESTER – VII

BP701T	INSTRUMENTAL METHODS OF ANALYSIS (Theory)	45 Hours
<p>Scope: This subject deals with the application of instrumental methods in qualitative and quantitative analysis of drugs. This subject is designed to impart a fundamental knowledge on the principles and instrumentation of spectroscopic and chromatographic technique. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing.</p> <p>Objectives: Upon completion of the course the student shall be able to:</p> <ol style="list-style-type: none"> 1. Upon completion of the course the student shall be able to 2. Illustrate the interaction of matter with electromagnetic radiations and justify its applications in drug analysis 3. Classify the chromatographic separation methods and choose appropriate technique for analysis of drugs. 4. Design methods for performing quantitative & qualitative analysis of drugs using various analytical instruments. <p>Course Content:</p>		
<p>UNIT - I UV Visible spectroscopy Introduction to spectroscopy, Electronic transitions, chromophores, auxochromes, spectral shifts, solvent effect on absorption spectra, Beer and Lambert's law, Derivation and deviations. Instrumentation - Sources of radiation, wavelength selectors, sample cells, detectors- Photo tube, Photomultiplier tube, Photo voltaic cell, Silicon Photodiode. Applications - Spectrophotometric titrations, Single component and multi component Analysis</p> <p>Fluorimetry Theory, Concepts of singlet, doublet and triplet electronic states, internal and external conversions, factors affecting fluorescence, quenching, instrumentation and applications</p>		<p>10 Hours</p>



<p>UNIT –II</p> <p>FTIR spectroscopy Introduction, fundamental modes of vibrations in poly atomic molecules, sample handling, factors affecting vibrations Instrumentation - Sources of radiation, wavelength selectors, detectors - Golay cell, Bolometer, Thermocouple, Thermister, Pyroelectric detector, FTIR instrument, sample handling attachments –DRS and ATR and applications</p> <p>Flame Photometry Principle, interferences, instrumentation and applications</p> <p>Atomic absorption spectroscopy Principle, interferences, instrumentation and Applications</p> <p>Nepheloturbidimetry Introduction</p>	<p>10 Hours</p>
<p>UNIT –III</p> <p>Introduction to chromatography - Adsorption and partition column chromatography: Methodology, advantages, disadvantages and applications.</p> <p>Paper chromatography: Introduction, methodology, development techniques, advantages, disadvantages and applications</p> <p>Thin layer chromatography: Introduction, Principle, Methodology, Rf values, advantages, disadvantages and applications.</p> <p>HPTLC: Introduction, Instrumentation and applications</p>	<p>10 Hours</p>
<p>UNIT –IV</p> <p>Theory of Chromatography Plate theory, Rate theory, System suitability parameters</p> <p>Gas chromatography Introduction, theory, instrumentation, temperature programming, advantages, disadvantages and applications</p> <p>High performance liquid chromatography (HPLC) Introduction, theory, instrumentation, advantages and applications.</p>	<p>08 Hours</p>



<p>UNIT –V</p> <p>Ion exchange chromatography- Introduction, classification, ion exchange resins, properties, mechanism of ion exchange process, factors affecting ion exchange, methodology and applications</p> <p>Gel chromatography- Introduction, theory, instrumentation and applications Affinity chromatography- Introduction</p>	<p>07 Hours</p>
<p>Recommended Books (Latest Editions):</p> <ol style="list-style-type: none"> 1. Instrumental Methods of Chemical Analysis by B.K Sharma 2. Organic spectroscopy by Y.R.Sharma 3. Text book of Pharmaceutical Analysis by Kenneth A.Connors 4. Vogel's Text book of Quantitative Chemical Analysis by A.I.Vogel 5. Practical Pharmaceutical Chemistry by A.H. Beckett and J.B.Stenlake 6. Organic Chemistry by I. L.Finar 7. Organic spectroscopy by WilliamKemp 8. Quantitative Analysis of Drugs by D. C.Garrett 9. Quantitative Analysis of Drugs in Pharmaceutical Formulations by P. D.Sethi 10. Spectrophotometric identification of Organic Compounds bySilverstein. 	



BP702T	INDUSTRIAL PHARMACY -II (Theory)	45 Hours
<p>Scope: This course is designed to impart fundamental knowledge on pharmaceutical product development and translation from laboratory to market.</p> <p>Objectives: Upon completion of the course, the student shall be able to:</p> <ol style="list-style-type: none"> 1. Know the process of pilot plant and scale up of pharmaceutical dosage forms 2. Understand the process of technology transfer from lab scale to commercial batch 3. Know different Laws and Acts that regulate pharmaceutical industry 4. Understand the approval process and regulatory requirements for drug products <p>Course Content:</p>		
<p>UNIT-I Pilot plant scale up techniques: General considerations - including significance of personnel requirements, space requirements, raw materials, Pilot plant scale up considerations for solids, liquid orals, semi solids and relevant documentation, SUPAC guidelines, Introduction to platform technology.</p>		10 Hours
<p>UNIT-II Technology development and transfer: WHO guidelines for Technology Transfer (TT): Terminology, Technology transfer protocol, Quality risk management, Transfer from R & D to production (Process, packaging and cleaning), Granularity of TT Process (API, excipients, finished products, packaging materials) Documentation, Premises and equipments, qualification and validation, quality control, analytical method transfer, Approved regulatory bodies and agencies, Commercialization-practical aspects and problems (case studies), TT agencies in India - APCTD, NRDC, TIFAC, BCIL, TBSE / SIDBI; TT related documentation - confidentiality agreement, licensing, MoU's, legal issues</p>		10 Hours



<p>UNIT-III</p> <p>Regulatory affairs: Introduction, Historical overview of Regulatory Affairs, Regulatory authorities, Role of Regulatory affairs department, Responsibility of Regulatory Affairs Professionals</p> <p>Regulatory requirements for drug approval:</p> <p>Drug Development Teams, Non-Clinical Drug Development, Pharmacology, Drug Metabolism and Toxicology, General considerations of Investigational New Drug (IND) Application, Investigator's Brochure (IB) and New Drug Application (NDA), Clinical research / BE studies, Clinical Research Protocols, Biostatistics in Pharmaceutical</p> <p>Product Development, Data Presentation for FDA Submissions, Management of Clinical Studies.</p>	<p>10 Hours</p>
<p>UNIT-IV</p> <p>Indian Regulatory Requirements:</p> <p>Central Drug Standard Control Organization (CDSCO) and State Licensing Authority: Organization, Responsibilities, Certificate of Pharmaceutical Product (COPP), Regulatory requirements and approval procedures for New Drugs.</p>	<p>07 Hours</p>
<p>UNIT-V</p> <p>Quality management systems:</p> <p>Quality management & Certifications: Concept of Quality, Total Quality Management, Quality by Design (QbD), Six Sigma concept, Out of Specifications (OOS), Change control, Introduction to ISO 9000 series of quality systems standards, ISO 14000, NABL, GLP</p>	<p>08 Hours</p>
<p>Recommended Books: (Latest Editions)</p> <ol style="list-style-type: none"> 1. Regulatory Affairs from Wikipedia, the free encyclopedia modified on 7th April available at http://en.wikipedia.org/wiki/Regulatory_Affairs. 2. International Regulatory Affairs Updates, 2005. available at http://www.iraup.com/about.php 3. Douglas J Pisano and David S. Mantus. Text book of FDA Regulatory Affairs a Guide for Prescription Drugs, Medical Devices, and Biologics' Second Edition. 4. Regulatory Affairs brought by learning plus, inc. available at http://www.cgmp.com/ra.htm. 	



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BP703T	PHARMACY PRACTICE (Theory)	45 Hour s
<p>Scope: In the changing scenario of pharmacy practice in India, for successful practice of Hospital Pharmacy, the students are required to learn various skills like drug distribution, drug information, and therapeutic drug monitoring for improved patient care. In community pharmacy, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counseling for improved patient care in the community setup.</p> <p>Objectives: Upon completion of the course, the student shall be able to:</p> <ol style="list-style-type: none"> 1. Know various drug distribution methods in a hospital 2. Appreciate the pharmacy stores management and inventory control 3. Monitor drug therapy of patient through medication chart review and clinical review. 4. Obtain medication history interview and counsel the patients 5. Identify drug related problems 6. Detect and assess adverse drug reactions 7. Interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states 8. Know pharmaceutical care services 9. Do patient counseling in community pharmacy; 10. Appreciate the concept of rational drug therapy. <p>Course Content:</p>		
<p>UNIT-I Hospital and its organization Definition, Classification of hospital- Primary, Secondary and Tertiary hospitals, Classification based on clinical and non-clinical basis, Organization Structure of a Hospital, and Medical staffs involved in the hospital and their functions.</p> <p>Hospital pharmacy and its organization Definition, functions of hospital pharmacy, Organization structure, Location, Layout and staff requirements, and Responsibilities and functions of hospital pharmacists.</p> <p>Adverse drug reaction Classifications - Excessive pharmacological effects, secondary pharmacological effects, idiosyncrasy, allergic drug reactions, genetically determined toxicity, toxicity following sudden withdrawal of drugs, Drug interaction- beneficial interactions, adverse interactions, and pharmacokinetic drug interactions, Methods for detecting drug interactions, spontaneous case reports and record linkage</p>		<p>10 Hours</p>

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studies, and Adverse drug reaction reporting and management.	
<p>Community Pharmacy Organization and structure of retail and wholesale drug store, types and design, Legal requirements for establishment and maintenance of a drug store, Dispensing of proprietary products, maintenance of records of retail and wholesale drug store.</p>	
<p>UNIT-II Drug distribution system in a hospital Dispensing of drugs to inpatients, types of drug distribution systems, charging policy and labelling, dispensing of drugs to ambulatory patients, and Dispensing of controlled drugs. Hospital formulary Definition, contents of hospital formulary, Differentiation of hospital formulary and Drug list, preparation and revision, and addition and deletion of drug from hospital formulary. Therapeutic drug monitoring Need for Therapeutic Drug Monitoring, Factors to be considered during the Therapeutic Drug Monitoring, and Indian scenario for Therapeutic Drug Monitoring. Medication adherence Causes of medication non-adherence, pharmacist role in the medication adherence, and monitoring of patient medication adherence. Patient medication history interview Need for the patient medication history interview, medication interview forms. Community pharmacy management Financial, materials, staff, and infrastructure requirements.</p>	10 Hours
<p>UNIT-III Pharmacy and therapeutic committee Organization, functions, Policies of the pharmacy and therapeutic committee in including drugs into formulary, inpatient and outpatient prescription, automatic stop order, and emergency drug list preparation. Drug information services Drug and Poison information centre, Sources of drug information, Computerized services, and storage and retrieval of information. Patient counseling Definition of patient counseling; steps involved in patient counseling, and Special cases that require the pharmacist Education and training program in the hospital Role of pharmacist in the education and training program, Internal and external training program, Services to the nursing homes/clinics, Code of ethics for community pharmacy, and Role of pharmacist in the interdepartmental communication and community health education. Prescribed medication order and communication skills Prescribed medication order- interpretation and legal requirements, and Communication skills- communication with prescribers and patients.</p>	10 Hours



<p>UNIT-IV</p> <p>Budget preparation and implementation Clinical Pharmacy</p> <p>Introduction to Clinical Pharmacy, Concept of clinical pharmacy, functions and responsibilities of clinical pharmacist ,Drug therapy monitoring-medication chart review, clinical review, pharmacist intervention, Ward round participation, Medication history and Pharmaceutical care.</p> <p>Dosing pattern and drug therapy based on Pharmacokinetic & disease pattern.</p> <p>Over the counter (OTC) sales</p> <p>Introduction and sale of over the counter, and Rational use of common over the counter medications.</p>	<p>08 Hour s</p>
<p>UNIT-V</p> <p>Drug store management and inventory control</p> <p>Organization of drug store, types of materials stocked and storage conditions, Purchase and inventory control: principles, purchase procedure, purchase order, procurement and stocking, Economic order quantity, Reorder quantity level, and Methods used for the analysis of the drug expenditure.</p> <p>Investigational use of drugs</p> <p>Description,principals involved, classification, control, identification, role of hospital pharmacist, advisory committee.</p> <p>Interpretation of Clinical Laboratory Tests</p> <p>Blood chemistry, hematology, and urinalysis</p>	<p>07 Hour s</p>
<p>Recommended Books (Latest Edition):</p> <ol style="list-style-type: none"> 1. Merchant S.H. and Dr. J. S. Quadry. A textbook of hospital pharmacy, 4th ed. Ahmadabad: B.S. Shah Prakashan;2001. 2. Parthasarathi G, Karin Nyfort-Hansen, Milap C Nahata. A textbook of Clinical Pharmacy Practice- essential concepts and skills, 1st ed. Chennai: Orient Longman Private Limited;2004. 3. William E. Hassan. Hospital pharmacy, 5th ed. Philadelphia: Lea &Febiger;1986. 4. Tipnis Bajaj. Hospital Pharmacy, 1st ed. Maharashtra: Career Publications;2008. 5. Scott LT. Basic skills in interpreting laboratory data, 4thed. American Society of Health System Pharmacists Inc;2009. 6. Parmar N.S. Health Education and Community Pharmacy, 18th ed. India: 	



SEMESTER – VIII

BP801T	BIostatISTICS AND RESEARCH METHODOLOGY (Theory)	45 Hours
<p>Scope: To understand the applications of Biostatistics in Pharmacy. This subject deals with descriptive statistics, Graphics, Correlation, Regression, logistic regression Probability theory, Sampling technique, Parametric tests, Non Parametric tests, ANOVA, Introduction to Design of Experiments, Phases of Clinical trials and Observational and Experimental studies, SPSS, R and MINITAB statistical software's, analyzing the statistical data using Excel.</p> <p>Objectives: Upon completion of the course the student shall be able to</p> <ol style="list-style-type: none"> 1. Know the operation of M.S. Excel, SPSS, R and MINITAB®, DoE (Design of Experiment) 2. Know the various statistical techniques to solve statistical problems 3. Appreciate statistical techniques in solving the problems. <p style="text-align: center;">Course content:</p>		
<p>UNIT-I Introduction: Statistics, Biostatistics, Frequency distribution Measures of central tendency: Mean, Median, Mode- Pharmaceutical examples Measures of dispersion: Dispersion, Range, standard deviation, Pharmaceutical problems Correlation: Definition, Karl Pearson's coefficient of correlation, Multiple correlation- Pharmaceuticals examples</p>		<p>10 Hours</p>
<p>UNIT-II Regression: Curve fitting by the method of least squares, fitting the lines $y = a + bx$ and $x = a + by$, Multiple regression, standard error of regression- Pharmaceutical Examples Probability: Definition of probability, Binomial distribution, Normal distribution, Poisson's distribution, properties- problems, Sample, Population, large sample, small sample, Null hypothesis, alternative hypothesis, sampling, essence of sampling, types of sampling, Error-I type, Error-II type, Standard error of mean (SEM) - Pharmaceutical examples Parametric test: t-test (Sample, Pooled or Unpaired and Paired), ANOVA, (Oneway and Two way), Least Significance difference</p>		<p>10 Hours</p>



<p>UNIT-III Non Parametric tests: Wilcoxon Rank Sum Test, Mann-Whitney U test, Kruskal-Wallis test, Friedman Test Introduction to Research: Need for research, Need for design of Experiments, Experiential Design Technique, plagiarism Graphs: Histogram, Pie Chart, Cubic Graph, response surface plot, Counter Plot graph Designing the methodology: Sample size determination and Power of a study, Report writing and presentation of data, Protocol, Cohorts studies, Observational studies, Experimental studies, Designing clinical trial, various phases.</p>	<p>10 Hours</p>
<p>UNIT-IV Blocking and confounding system for Two-level factorials Regression modeling: Hypothesis testing in Simple and Multiple regression models Introduction to Practical components of Industrial and Clinical Trials Problems: Statistical Analysis Using Excel, SPSS, MINITAB®, DESIGN OF EXPERIMENTS, R - Online Statistical Software's to Industrial and Clinical trial approach</p>	<p>08 Hours</p>
<p>UNIT-V Design and Analysis of experiments: Factorial Design: Definition, 2², 2³ design, Advantage of factorial design Response Surface methodology: Central composite design, Historical design, Optimization Techniques</p>	<p>07 Hours</p>
<p>Recommended Books (Latest edition):</p> <ol style="list-style-type: none"> 1. Pharmaceutical statistics- Practical and clinical applications, Sanford Bolton, publisher Marcel Dekker Inc. New York. 2. Fundamental of Statistics – Himalaya Publishing House-S.C.Guptha 3. Design and Analysis of Experiments – PHI Learning Private Limited, R. Pannarselvam, 4. Design and Analysis of Experiments – Wiley Students Edition, Douglas and C. Montgomery 	



BP802T	SOCIAL AND PREVENTIVE PHARMACY (Theory)	45 Hours
<p>Scope: The purpose of this course is to introduce to students a number of health issues and their challenges. This course also introduced a number of national health programmes. The roles of the pharmacist in these contexts are also discussed.</p> <p>Objectives: After the successful completion of this course, the student shall be able to:</p> <ol style="list-style-type: none"> 1. Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide. 2. Develop a critical way of thinking based on current health care development. 3. Evaluate alternative ways of solving problems related to health and pharmaceutical issues. <p>Course Content:</p>		
<p>UNIT-I Concept of health and disease: Definition, concepts and evaluation of public health. Understanding the concept of prevention and control of disease, social causes of diseases and social problems of the sick.</p> <p>Sociology and health Socio cultural factors related to health and disease, Impact of urbanization on health and disease, Poverty and health</p> <p>Hygiene and health Personal hygiene and health care; avoidable habits.</p>		10 Hours
<p>UNIT-II Preventive medicine General principles of prevention and control of diseases such as cholera, SARS, Ebola virus, influenza, acute respiratory infections, malaria, chicken guinea, dengue, lymphatic filariasis, pneumonia, hypertension, diabetes mellitus, cancer, drug addiction-drug substance abuse</p>		10 Hours
<p>UNIT-III National health programs, its objectives, functioning and outcome of the following: HIV AND AIDS control programme, TB, Integrated disease surveillance program (IDSP), National leprosy control programme, National mental health program, National programme for prevention and control of deafness, Universal immunization programme, National programme for control of blindness, Pulse polio programme.</p>		10 Hours
<p>UNIT-IV National health intervention programme for mother and child, National family welfare programme, National tobacco control programme, National Malaria Prevention Program, National programme for the health care for the elderly, Social health programme; role of WHO in Indian national program</p>		08 Hours



<p>UNIT-V Community services in rural, urban and school health: Functions of PHC, Improvement in rural sanitation, national urban health mission, Health promotion and education in school.</p>	<p>07 Hours</p>
<p>Recommended Books (Latest edition):</p> <ol style="list-style-type: none"> 1. ShortTextbookofPreventiveandSocialMedicine,PrabhakaraGN,2ndEdition,2010, ISBN: 9789380704104, JAYPEE Publications 2. Textbook of Preventive and Social Medicine (Mahajan and Gupta), Edited by Roy RabindraNath, Saha Indranil, 4th Edition, 2013, ISBN: 9789350901878, JAYPEE Publications 3. Review of Preventive and Social Medicine (Including Biostatistics), Jain Vivek, 6thEdition, 2014, ISBN: 9789351522331, JAYPEEPublications 4. Essentials of Community Medicine: A Practical Approach, Hiremath Lalita D, HiremathDhananjaya A, 2nd Edition, 2012, ISBN: 9789350250440, JAYPEE Publications 5. Park Textbook of Preventive and Social Medicine, K Park, 21st Edition, 2011, ISBN- 14: 9788190128285, BANARSIDAS BHANOTPUBLISHERS. 6. Community Pharmacy Practice, Ramesh Adepu, BSP publishers,Hyderabad <p>Recommended Journals:</p> <ol style="list-style-type: none"> 1. Research in Social and Administrative Pharmacy, Elsevier, Ireland 	



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Government of Maharashtra No. TEM/2004(235/04) TE-1, Pharmacy Council of India (32-347/2012-PC3),
Permanently affiliated to Savitribai Phule Pune University, ID No. PU/PN/Pharmacy/200/2004

PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

BP804ET	PHARMACEUTICAL REGULATORY SCIENCE (Theory)	45 Hours
<p>Scope: This course is designed to impart the fundamental knowledge on the regulatory requirements for approval of new drugs, and drug products in regulated markets of India & other countries like US, EU, Japan, Australia, UK etc. It prepares the students to learn in detail on the regulatory requirements, documentation requirements, and registration procedures for marketing the drug products.</p> <p>Objectives: Upon completion of the subject student shall be able to;</p> <ol style="list-style-type: none"> 1. Know about the process of drug discovery and development 2. Know the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals 3. Know the regulatory approval process and their registration in Indian and international markets. <p>Course content:</p>		
<p>UNIT-I New Drug Discovery and development Stages of drug discovery, Drug development process, pre-clinical studies, non-clinical activities, clinical studies, Innovator and generics, Concept of generics, Generic drug product development.</p>		<p>10 Hours</p>
<p>UNIT-II Regulatory Approval Process Approval processes and timelines involved in Investigational New Drug (IND), New Drug Application (NDA), Abbreviated New Drug Application (ANDA). Changes to an approved NDA / ANDA. Regulatory authorities and agencies Overview of regulatory authorities of India, United States, European Union, Australia, Japan, Canada (Organization structure and types of applications)</p>		<p>10 Hours</p>
<p>UNIT-III Registration of Indian drug product in overseas market Procedure for export of pharmaceutical products, Technical documentation, Drug Master Files (DMF), Common Technical Document (CTD), electronic Common Technical Document (eCTD), ASEAN Common Technical Document (ACTD) research.</p>		<p>10 Hours</p>



<p>UNIT-IV</p> <p>Clinical trials</p> <p>Developing clinical trial protocols, Institutional Review Board / Independent Ethics committee - formation and working procedures, Informed consent process and procedures, GCP obligations of Investigators, sponsors & Monitors, Managing and Monitoring clinical trials, Pharmacovigilance -safety monitoring in clinical trials</p>	<p>08 Hours</p>
<p>UNIT-V</p> <p>Regulatory Concepts</p> <p>Basic terminology, guidance, guidelines, regulations, Laws and Acts, Orange book, Federal Register, Code of Federal Regulatory, Purple book</p>	<p>07 Hours</p>
<p>Recommended books (Latest edition):</p> <ul style="list-style-type: none"> • Drug Regulatory Affairs by SachinItkar, Dr. N.S. Vyawahare, NiraliPrakashan. • The Pharmaceutical Regulatory Process, Second Edition Edited by Ira R. Berry and Robert P. Martin, Drugs and the Pharmaceutical Sciences, Vol.185. InformaHealth carepublishers. • New Drug Approval Process: Accelerating Global Registrations By Richard A Guarino,MD,5thedition, Drugsand the Pharmaceutical Sciences, Vol.190. • Guidebook for drug regulatory submissions / Sandy Weinberg. By John Wiley & Sons. Inc. • FDA Regulatory Affairs: a guide for prescription drugs, medical devices, andbiologics • /edited by Douglas J. Pisano, David Mantus. • Generic Drug Product Development, Solid Oral Dosage forms, Leon Shargeland IsaderKaufer, Marcel Dekker series,Vol.143 • Clinical Trials and Human Research: A Practical Guide to RegulatoryCompliance By Fay A. Rozovsky and Rodney K.Adams • Principles and Practices of Clinical Research, Second Edition Edited by JohnI. Gallin and Frederick P.Ognibene • Drugs: From Discovery to Approval, Second Edition By RickNg 	



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Business Council P.E. Society, Pune

BP805ET	PHARMACOVIGILANCE (Theory)	45 Hours
<p>Scope: This paper will provide an opportunity for the student to learn about development of pharmacovigilance as a science, basic terminologies used in pharmacovigilance, global scenario of Pharmacovigilance, train students on establishing pharmacovigilance programme in an organization, various methods that can be used to generate safety data and signal detection. This paper also develops the skills of classifying drugs, diseases and adverse drug reactions</p> <p>Objectives:</p> <ul style="list-style-type: none"> • At completion of this paper it is expected that students will be able to (know, do, and appreciate): • Understand importance of drug safety monitoring. • Explain History, development, National and international scenario of pharmacovigilance & comprehend dictionaries, coding and terminologies used in pharmacovigilance • Understand detection and assessment of new adverse drug reactions, Adverse drug reaction reporting systems and communication in pharmacovigilance, Pharmacovigilance Program of India (PvPI) requirement for ADR reporting in India ICH guidelines for ICSR, PSUR, expedited reporting, pharmacovigilance planning, CIOMS requirements for ADR reporting • Comprehend methods of safety data during pre-clinical, clinical and post approval phases of drugs' lifecycle. • Write case narratives of adverse events and their quality. <p>Course Content:</p>		
<p>UNIT-I Introduction to Pharmacovigilance History and development of Pharmacovigilance, Importance of safety monitoring of Medicine, WHO international drug monitoring programme, Pharmacovigilance Program of India (PvPI)</p> <p>Introduction to adverse drug reactions Definitions and classification of ADRs, Detection and reporting, Methods in Causality assessment, Severity and seriousness assessment, Predictability and preventability assessment, Management of adverse drug reactions</p> <p>Basic terminologies used in pharmacovigilance Terminologies of adverse medication related events, Regulatory terminologies</p>		<p>10 Hours</p>



<p>UNIT-II</p> <p>Drug and disease classification Anatomical, therapeutic and chemical classification of drugs, International classification of diseases, Daily defined doses, International Nonproprietary Names for drugs</p> <p>Drug dictionaries and coding in pharmacovigilance WHO adverse reaction terminologies, MedDRA and Standardized MedDRA queries, WHO drug dictionary, Eudravigilance medicinal product dictionary</p> <p>Information resources in pharmacovigilance Basic drug information resources, Specialized resources for ADRs</p> <p>Establishing pharmacovigilance programme Establishing in a hospital, Establishment & operation of drug safety department in industry, Contract Research Organizations (CROs), Establishing a national programme.</p>	<p>10 Hours</p>
<p>UNIT-III</p> <p>Vaccine safety surveillance Vaccine Pharmacovigilance, Vaccination failure, Adverse events following immunization</p> <p>Pharmacovigilance methods Passive surveillance – Spontaneous reports and case series, Stimulated reporting, Active surveillance – Sentinel sites, drug event monitoring and registries, Comparative observational studies – Cross sectional study, case control study and cohort study, Targeted clinical investigations</p> <p>Communication in pharmacovigilance Effective communication in Pharmacovigilance, Communication in Drug Safety Crisis management, Communicating with Regulatory Agencies, Business Partners, Healthcare facilities & Media</p>	<p>10 Hours</p>
<p>UNIT-IV</p> <p>Safety data generation Pre-clinical phase, Clinical phase, Post approval phase (PMS)</p> <p>ICH Guidelines for Pharmacovigilance Organization and objectives of ICH, Expedited reporting, Individual case safety reports, Periodic safety update reports, Post approval expedited reporting, Pharmacovigilance planning, Good clinical practice in pharmacovigilance studies</p>	<p>08 Hours</p>



<p>UNIT-V Pharmacogenomics of adverse drug reaction Genetics related ADR with example focusing PK parameters. CIOMS CIOMS Working Groups, CIOMS Form CDSCO (India) and Pharmacovigilance D&C Act and Schedule Y Differences in Indian and global pharmacovigilance requirements</p>	<p>07 Hours</p>
<p>Recommended Books (Latest edition):</p> <ol style="list-style-type: none"> 1. Textbook of Pharmacovigilance: S K Gupta, Jaypee Brothers, Medical Publishers. 2. Practical Drug Safety from A to Z By Barton Cobert, Pierre Biron, Jones and Bartlett Publishers. 3. Mann's Pharmacovigilance: Elizabeth B. Andrews, Nicholas, Wiley Publishers. 4. Stephens' Detection of New Adverse Drug Reactions: John Talbot, Patrick Waller, Wiley Publishers. 5. An Introduction to Pharmacovigilance: Patrick Waller, Wiley Publishers. 6. Cobert's Manual of Drug Safety and Pharmacovigilance: Barton Cobert, Jones & Bartlett Publishers. 7. Textbook of Pharmacoepidemiology edited by Brian L. Strom, Stephen E Kimmel, Sean Hennessy, Wiley Publishers. 8. A Textbook of Clinical Pharmacy Practice -Essential Concepts and Skills: G. Parthasarathi, Karin Nyfort Hansen, Milap C. Nahata 9. National Formulary of India 10. Text Book of Medicine by Yashpal Munjal 11. Text book of Pharmacovigilance: concept and practice by GP Mohanta and PK Manna 12. http://www.who.int/dynpage.aspx?id=105825&mn1=7347&mn2=7259&mn3=7297 13. http://www.ich.org/ 14. http://www.cioms.ch/ 15. http://cdsco.nic.in/ 16. http://www.who.int/vaccine_safety/en/ 17. http://www.ipc.gov.in/PvPI/pv_home.html 	



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SAVITRIBAI PHULE PUNE UNIVERSITY

FACULTY OF SCIENCE AND TECHNOLOGY



Syllabus of Third Year B. Pharmacy

2019 PATTERN (Revised)

(EFFECTIVE FROM ACADEMIC YEAR 2021-2022)



UNIT-III

10 Hours

Drugs acting on cardiovascular system (Continued)

- Anti-arrhythmic Drugs:** Quinidine sulphate, Procainamide hydrochloride, Disopyramide phosphate, Phenytoin sodium, Lidocaine hydrochloride, Tocainide hydrochloride, Mexiletine hydrochloride, Lorcaïnide hydrochloride, Amiodarone, Sotalol.
- Anti-hyperlipidemic agents**
HMG Co-A reductase inhibitors: Lovastatin, Simvastatin, Atorvastatin
Misc. class-Ezetimibe, Clofibrate
- Coagulant & Anticoagulants:** Menadione, Warfarin, Clopidogrel
- Drugs used in Congestive Heart Failure:** Digoxin, Digitoxin, Nesiritide, Bosentan
[Amiodarone, Atorvastatin]

UNIT-IV

08 Hours

Drugs acting on Endocrine system

- Chemistry, Nomenclature, Stereochemistry and metabolism of steroids**
- Sex hormones:** Testosterone, Nandralone, Progesterones, Oestriol, Oestradiol, Oestrione, Diethyl stilbestrol.
- Drugs for erectile dysfunction:** Sildenafil, Tadalafil.
- Oral contraceptives:** Mifepristone, Norgestrel, Levonorgestrol
- Corticosteroids:** Cortisone, Hydrocortisone, Prednisolone, Betamethasone, Dexamethasone
- Thyroid and antithyroid drugs:** L-Thyroxine, L-Thyronine, Propylthiouracil, Methimazole.

UNIT – V

07 Hours

Antidiabetic agents and Local anaesthetics

- Antidiabetic agents:**

Insulin and its preparations

Sulfonyl ureas: Tolbutamide, Chlorpropamide, Glipizide, Glimepiride.

Biguanides: Metformin.

Meglitinides: Repaglinide, Nateglinide.



Glucosidase inhibitors:Acarbose, Voglibose.

DPP IV inhibitors -Sitagliptin, Teneligliptin

SGLT2 inhibitors – Empagliflozin, Canagliflozin

b) **Local Anesthetics:** SAR of Local anesthetics

Benzoic Acid derivatives; Meprylcaine, Cyclomethycaine, Piperocaine.

Amino Benzoic acid derivatives: Benzocaine, Procaine, Butacaine, Propoxycaine,
Tetracaine.

Lidocaine/Anilide derivatives: Lignocaine, Mepivacaine, Prilocaine, Etidocaine.

Miscellaneous: Phenacaine

[Tolbutamide, Benzocaine]

Recommended Books (Latest Editions)

1. Wilson and Giswold's Organic medicinal and Pharmaceutical Chemistry.
2. Foye's Principles of Medicinal Chemistry.
3. Graham L. Patrick's An Introduction to Medicinal Chemistry
4. Burger's Medicinal Chemistry, Vol I to IV.
5. Introduction to principles of drug design- Smith and Williams.
6. Remington's Pharmaceutical Sciences.
7. Martindale's extra pharmacopoeia.
8. Organic Chemistry by I.L. Finar, Vol. II.
9. The Organic Chemistry of Drug Synthesis by Lednicer, Vol. 1 to 5.
10. Indian Pharmacopoeia.
11. Text book of practical organic chemistry-A.I.Vogel.

P 502 T. Industrial Pharmacy I (Theory)

45 Hours

cope:

Course enables the student to understand and appreciate the influence of pharmaceutical additives and various pharmaceutical dosage forms on the performance of the drug product.



Objectives:

Upon completion of the course the student shall be able to

1. illustrate various pharmaceutical dosage forms and their manufacturing techniques.
2. describe various factors to be considered in development of pharmaceutical dosage forms
3. Formulate solid, liquid and semisolid dosage forms and evaluate them for their quality

Course content:

3 hours/ week

UNIT-I

03 Hours

Preformulation Studies: Introduction to preformulation, goals and objectives, study of physicochemical characteristics of drug substances.

UNIT-II

14 Hours

Tablets:

- a. Introduction, ideal characteristics of tablets, classification of tablets. Excipients, preformulation and Formulation of tablets, granulation methods, compression and processing problems, Equipments and tablet tooling.
- b. Tablet coating: Types of coating, coating materials, formulation of coating composition, methods of coating, equipment employed and defects in coating.
- c. Quality control tests: In process and finished product tests

Liquid orals: Preformulation, Formulation and manufacturing consideration of syrups and elixirs suspensions and emulsions; Filling and packaging; evaluation of liquid orals official in pharmacopoeia

UNIT-III

08 Hours

Capsules:

- a. Hard gelatin capsules: Introduction, Production of hard gelatin capsule shells. Size of capsules, Filling, finishing and special techniques of formulation of hard gelatin capsules, manufacturing defects. In process and final product quality control tests for capsules.



b. Soft gelatin capsules: Nature of shell and capsule content, size of capsules, importance of base adsorption and minim/gram factors, production, in process and final product quality control tests. Packing, storage and stability testing of soft gelatin capsules and their applications.

Pellets: Introduction, formulation requirements, pelletization process, equipments for manufacture of pellets

UNIT-IV

10 Hours

Parenteral Products:

a. Definition, types, advantages and limitations. Preformulation factors and essential requirements, vehicles, additives, importance of isotonicity

b. Production procedure, production facilities and controls, aseptic processing

c. Formulation of injections, sterile powders, large volume parenterals and lyophilized products.

d. Containers and closures selection, filling and sealing of ampoules, vials and infusion fluids. Quality control tests of parenteral products. Ophthalmic Preparations: Introduction, formulation considerations; formulation of eye drops, eye ointments and eye lotions; methods of preparation; labeling, containers; evaluation of ophthalmic preparations

UNIT-V

10 Hours

Cosmetics: Formulation and preparation of the following cosmetic preparations: lipsticks, shampoos, cold cream and vanishing cream, tooth pastes, hair dyes and sunscreens.

Pharmaceutical Aerosols: Definition, propellants, containers, valves, types of aerosol systems; preformulation, formulation and manufacture of aerosols; Evaluation of aerosols; Quality control and stability studies.

Packaging Materials Science: Materials used for packaging of pharmaceutical products, factors influencing choice of containers, legal and official requirements for containers, stability aspects of packaging materials, quality control tests.



Recommended Books: (Latest Editions)

1. Pharmaceutical dosage forms - Tablets, volume 1 -3 by H.A. Liberman, Leon Lachman & J.B.Schwartz
2. Pharmaceutical dosage form - Parenteral medication vol- 1&2 by Liberman & Lachman
3. Pharmaceutical dosage form disperse system VOL-1 by Liberman & Lachman
4. Modern Pharmaceutics by Gilbert S. Banker & C.T. Rhodes, 3rd Edition
5. Remington: The Science and Practice of Pharmacy, 20th edition Pharmaceutical Science (RPS)
6. Theory and Practice of Industrial Pharmacy by Liberman & Lachman
7. Pharmaceutics- The science of dosage form design by M.E.Aulton, Churchill livingstone, Latest edition
8. Introduction to Pharmaceutical Dosage Forms by H. C.Ansel, Lea &Febiger, Philadelphia, 5th edition, 2005
9. Drug stability - Principles and practice by Cartensen & C.J. Rhodes, 3rd Edition, Marcel Dekker Series, Vol 107.

BP503.T. PHARMACOLOGY-II (Theory)

45 Hours

Scope:

This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on different systems of body and in addition, emphasis on the basic concepts of bioassay.

Objectives: Upon completion of this course the student should be able to

1. Understand the mechanism of drug action and its relevance in the treatment of different diseases



2. Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments
3. Demonstrate the various receptor actions using isolated tissue preparation
4. Appreciate correlation of pharmacology with related medical sciences

Course Content:

UNIT-I

10hr

Pharmacology of drugs acting on cardiovascular system

- a. Introduction to hemodynamic and electrophysiology of heart.
- b. Drugs used in congestive heart failure
- c. Anti-hypertensive drugs.
- d. Anti-anginal drugs.
- e. Anti-arrhythmic drugs.
- f. Anti-hyperlipidemic drugs.

UNIT-II

Pharmacology of drugs acting on cardiovascular system

10hr

- a. Drug used in the therapy of shock.
- b. Hematinics, coagulants and anticoagulants.
- c. Fibrinolytics and anti-platelet drugs
- d. Plasma volume expanders

Pharmacology of drugs acting on urinary system

- a. Diuretics
- b. Anti-diuretics.

UNIT-III

Autocoids and related drugs

10hr

- a. Introduction to autocoids and classification
- b. Histamine, 5-HT and their antagonists.
- c. Prostaglandins, Thromboxanes and Leucotrienes
- d. Angiotensin, Bradykinin and Substance P.
- e. Non-steroidal anti-inflammatory agents
- f. Anti-gout drugs
- g. Antirheumatic drugs



UNIT-IV

Pharmacology of drugs acting on endocrine system

08hr

- Basic concepts in endocrine pharmacology.
- Anterior Pituitary hormones- analogues and their inhibitors.
- Thyroid hormones- analogues and their inhibitors.
- Hormones regulating plasma calcium level- Parathormone, Calcitonin and Vitamin-D.
- Insulin, Oral Hypoglycemic agents and glucagon.
- ACTH and corticosteroids.

UNIT-V

Pharmacology of drugs acting on endocrine system

07hr

- Androgens and Anabolic steroids.
- Estrogens, progesterone and oral contraceptives.
- Drugs acting on the uterus.

Bioassay

- Principles, applications and types of bioassay.
- Bioassay of insulin, oxytocin, vasopressin, ACTH, d-tubocurarine, digitalis, histamine and 5-HT

Recommended Books (Latest Editions)

- Rang H. P., Dale M. M., Ritter J. M., Flower R. J., Rang and Dale's Pharmacology, Churchill Livingstone Elsevier
- Katzung B. G., Masters S. B., Trevor A. J., Basic and clinical pharmacology, Tata McGraw-Hill
- Goodman and Gilman's, The Pharmacological Basis of Therapeutics
- Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A.K., Bradley R.W., Applied Therapeutics, The Clinical use of Drugs. The Point Lippincott Williams &Wilkins
- Mycek M.J, Gelnet S.B and Perper M.M. Lippincott's Illustrated Reviews-Pharmacology
- K. D. Tripathi. Essentials of Medical Pharmacology, JAYPEE Brothers Medical Publishers (P) Ltd, New Delhi.
- Sharma H. L., Sharma K. K., Principles of Pharmacology, Paras medical publisher



8. Modern Pharmacology with clinical Applications, by Charles R. Craig & Robert,

BP504 T PHARMACOGNOSY AND PHYTOCHEMISTRY-II (Theory) 45 Hours

Scope:

The main purpose of subject is to impart the students the knowledge of how the secondary metabolites are produced in the crude drugs, how to isolate and identify and produce them industrially. Also this subject involves the study of producing the plants and phytochemicals through plant tissue culture, drug interactions and basic principles of traditional system of medicine

Objectives: Upon completion of the course, the student shall be able

1. To know the modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents
2. To understand the production of Phytoconstituents /herbal formulation.
3. To understand the metabolic pathways in formation of secondary metabolites and application of biogenetic studies.
4. To carryout isolation and identification of phytoconstituents

Course Content:

UNIT-I

7 Hours

Metabolic pathways in higher plants and their determination

- a) Brief study of basic metabolic pathways and formation of different secondary metabolites through these pathways- Shikimic acid pathway, Acetate pathways and Amino acid pathway.
- b) Study of utilization of radioactive isotopes in the investigation of Biogenetic studies.

UNIT-II

14 Hours

General introduction, composition, chemistry & chemical classes, bio sources, **methods of extraction**, therapeutic uses and commercial applications of following secondary metabolites:

Alkaloids: Vinca, Rauwolfia, Belladonna, Opium,

Phenylpropanoids and Flavonoids: Lignans, Tea, Ruta

Steroids, Cardiac Glycosides & Triterpenoids: Liquorice, Dioscorea, Digitalis



Volatile oils: Mentha, Clove, Cinnamon, Fennel, Coriander,

Tannins: Catechu, Pterocarpus

Resins: Benzoin, Guggul, Ginger, Asafoetida, Myrrh, Colophony

Glycosides: Senna, Aloes, Bitter Almond

Iridoids, Other terpenoids & Naphthaquinones: Gentian, Artemisia, taxus, carotenoids

UNIT-III

06 Hours

Isolation, Identification and Analysis of Phytoconstituents

a) Terpenoids: Menthol, Citral, Artemisin

b) Glycosides: Glycyrrhetic acid & Rutin

c) Alkaloids: Atropine, Quinine, Reserpine, Caffeine

d) Resins: Podophyllotoxin, Curcumin

UNIT-IV

06 Hours

Industrial production, estimation and utilization of the following phytoconstituents:

Forskolin, Sennoside, Artemisinin, Diosgenin, Digoxin, Atropine, Podophyllotoxin, Caffeine, Taxol, Vincristine and Vinblastine

UNIT V

12 Hours

Basics of Phytochemistry

Methods of extraction (Soxhlet, Maceration, Percolation, Supercritical fluid extraction, Microwave assisted extraction, Ultrasound assisted extraction, Solid Phase Extraction)

Application of latest techniques like Spectroscopy, Chromatography and electrophoresis in the isolation, purification and identification of crude drugs

Non-chromatographic separation techniques: Fractional distillation, fractional liberation, sublimation, chemical derivatization, fractional crystallization, centrifugation, Froth floatation technique.

BP 505 T. PHARMACEUTICAL JURISPRUDENCE (Theory)

45 Hours

Scope:

This course is designed to impart basic knowledge on important legislations related to the profession of pharmacy in India.



Objectives: Upon completion of the course, the student shall be able to understand:

1. The Pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals.
2. Various Indian pharmaceutical Acts and Laws
3. The regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals
4. The code of ethics during the pharmaceutical practice

Course Content:

UNIT-I

10 Hours

Drugs and Cosmetics Act, 1940 and its rules 1945:

Objectives, Definitions, Legal definitions of schedules to the Act and Rules Import of drugs – Classes of drugs and cosmetics prohibited from import, Import under license or permit. Offences and penalties. Manufacture of drugs – Prohibition of manufacture and sale of certain drugs,

Conditions for grant of license and conditions of license for manufacture of drugs, Manufacture of drugs for test, examination and analysis, manufacture of new drug, loan license and repacking license.

UNIT-II

10 Hours

Drugs and Cosmetics Act, 1940 and its rules 1945.

Detailed study of Schedule G, H, M, N, P, T, U, V, X, Y, Part XII B, Sch F & DMR (OA) Sale of Drugs – Wholesale, Retail sale and restricted license. Offences and penalties Labeling & packing of drugs- General labeling requirements and specimen labels for drugs and cosmetics, List of permitted colors. Offences and penalties.

Administration of the Act and Rules – Drugs Technical Advisory Board, Central drugs Laboratory, Drugs Consultative Committee, Government drug analysts, Licensing authorities, controlling authorities, Drugs Inspectors



UNIT-III

10 Hours

Pharmacy Act –1948: Objectives, Definitions, Pharmacy Council of India; its constitution and functions, Education Regulations, State and Joint state pharmacy councils; constitution and functions, Registration of Pharmacists, Offences and 122 Penalties

Medicinal and Toilet Preparation Act –1955: Objectives, Definitions, Licensing, Manufacture In bond and Outside bond, Export of alcoholic preparations, Manufacture of Ayurvedic, Homeopathic, Patent & Proprietary Preparations. Offences and Penalties.

Narcotic Drugs and Psychotropic substances Act-1985 and Rules: Objectives, Definitions, Authorities and Officers, Constitution and Functions of narcotic & Psychotropic Consultative Committee, National Fund for Controlling the Drug Abuse, Prohibition, Control and Regulation, opium poppy cultivation and production of poppy straw, manufacture, sale and export of opium, Offences and Penalties

UNIT-IV

08 Hours

Study of Salient Features of Drugs and Magic Remedies Act and its rules: Objectives, Definitions, Prohibition of certain advertisements, Classes of Exempted advertisements, Offences and Penalties

Prevention of Cruelty to animals Act-1960: Objectives, Definitions, Institutional Animal Ethics Committee, CPCSEA guidelines for Breeding and Stocking of Animals, Performance of Experiments, Transfer and acquisition of animals for experiment, Records, Power to suspend or revoke registration, Offences and Penalties

National Pharmaceutical Pricing Authority: Drugs Price Control Order (DPCO)- 2013. Objectives, Definitions, Sale prices of bulk drugs, Retail price of formulations, Retail price and ceiling price of scheduled formulations, National List of Essential Medicines (NLEM)



UNIT-V

07 Hours

Pharmaceutical Legislations – A brief review, Introduction, Study of drugs enquiry committee, Health survey and development committee, Hathi committee and Mudaliar committee

Code of Pharmaceutical ethics Definition, Pharmacist in relation to his job, trade, medical profession and his profession, Pharmacist's oath

Medical Termination of Pregnancy Act

Right to Information Act

Introduction to Intellectual Property Rights (IPR)

Recommended books: (Latest Edition)

1. Forensic Pharmacy by B. Suresh
2. Text book of Forensic Pharmacy by B.M. Mithal
3. Hand book of drug law-by M.L. Mehra
4. A text book of Forensic Pharmacy by N.K. Jain
5. Drugs and Cosmetics Act/Rules by Govt. of India publications.
6. Medicinal and Toilet preparations act 1955 by Govt. of India publications.
7. Narcotic drugs and psychotropic substances act by Govt. of India publications
8. Drugs and Magic Remedies act by Govt. of India publication
9. Bare Acts of the said laws published by Government. Reference books (Theory) 124

BP 506 P. Industrial Pharmacy I (Practical)

4 Hours/week

1. Preformulation studies on paracetamol/aspirin/or any other drug
2. Preparation and evaluation of Paracetamol tablets
3. Preparation and evaluation of Aspirin tablets
4. Coating of tablets- film coating of tablets/granules
5. Preparation and evaluation of Tetracycline capsules



6. Preparation of Calcium Gluconate injection
7. Preparation of Ascorbic Acid injection
8. Quality control test of (as per IP) marketed tablets and capsules
9. Preparation of Eye drops/ and Eye ointments
10. Preparation of Creams (cold / vanishing cream)
11. Evaluation of Glass containers (as per IP)

Recommended Books: (Latest Editions)

1. Pharmaceutical dosage forms - Tablets, volume 1 -3 by H.A. Liberman, Leon Lachman & J.B. Schwartz
2. Pharmaceutical dosage form - Parenteral medication vol- 1&2 by Liberman & Lachman
3. Pharmaceutical dosage form disperse system VOL-1 by Liberman & Lachman
4. Modern Pharmaceutics by Gilbert S. Banker & C.T. Rhodes, 3rd Edition
5. Remington: The Science and Practice of Pharmacy, 20th edition Pharmaceutical Science (RPS)
6. Theory and Practice of Industrial Pharmacy by Liberman & Lachman
7. Pharmaceutics- The science of dosage form design by M.E.Aulton, Churchill livingstone, Latest edition
8. Introduction to Pharmaceutical Dosage Forms by H. C. Ansel, Lea & Febiger, Philadelphia, 5th edition, 2005
9. Drug stability - Principles and practice by Cartensen & C.J. Rhodes, 3rd Edition, Marcel Dekker Series, Vol 107.

BP 507 P. PHARMACOLOGY-II (Practical)

4Hrs/Week

Sr. No Experiment

1. Introduction to in-vitro pharmacology and physiological salt solutions.
2. Effect of drugs on isolated frog heart.
3. Effect of drugs on blood pressure and heart rate of dog.
4. Study of diuretic activity of drugs using rats/mice.
5. DRC of acetylcholine using frog rectus abdominis muscle.
6. Effect of physostigmine and atropine on DRC of acetylcholine using frog rectus



- abdominis muscle and rat ileum respectively.
7. Bioassay of histamine using guinea pig ileum by matching method.
 8. Bioassay of oxytocin using rat uterine horn by interpolation method.
 9. Dose calculation in pharmacological experiments
 10. Bioassay of acetylcholine using rat ileum/colon by four point bioassay.
 11. Determination of PA_2 value of prazosin using rat anococcygeus muscle (by Schilds plot method).
 12. Determination of PD_2 value using guinea pig ileum.
 13. Effect of spasmogens and spasmolytics using rabbit jejunum.
 14. Anti-inflammatory activity of drugs using carrageenan induced paw-edema model.
 15. Analgesic activity using hotplate method
 16. Antiallergic activity by mast cell stabilization assay
 17. **Clinical Case study**

Note: All laboratory techniques and animal experiments are demonstrated by simulated experiments by softwares and videos

Recommended Books (Latest Editions)

1. Ghosh MN. Fundamentals of Experimental Pharmacology. Hilton & Company, Kolkata.
2. Kulkarni SK. Handbook of experimental pharmacology. Vallabh Prakashan.
3. Goyal RK. Practicals in Pharmacology, BS Shaha Prakashan.
4. Kasture SB. A handbook of experiments in pre-clinical pharmacology, Career Publications.
5. Bikas Medhi, Ajay Prakash. Practical Manual of Experimental and Clinical Pharmacology. Jaypee Publications.

BP 508 P. PHARMACOGNOSY AND PHYTOCHEMISTRY II (Practical) 4 Hours/Week

1. Morphology, histology and powder characteristics & extraction & detection of:

Cinchona, Cinnamon, Senna, Clove, Ephedra, Fennel and Coriander

2. Exercise involving isolation & detection of active principles

- a. Caffeine - from tea dust.
- b. Diosgenin from Dioscorea



- c. Atropine from Belladonna
- d. Sennosides from Senna
3. Separation of sugars by Paper chromatography
4. TLC of herbal extract
5. Distillation of volatile oils and detection of phytoconstituents by TLC
6. Analysis of crude drugs by chemical tests: (i) Asafoetida (ii) Benzoin (iii) Colophony (iv) Aloes (v) Myrrh

Recommended Books: (Latest Editions)

1. W.C.Evans, Trease and Evans Pharmacognosy, 16th edition, W.B. Saunders & Co., London, 2009.
2. Mohammad Ali. Pharmacognosy and Phytochemistry, CBS Publishers & Distribution, New Delhi.
3. Text book of Pharmacognosy by C.K. Kokate, Purohit, Gokhlae (2007), 37th Edition, Nirali Prakashan, New Delhi.
4. Herbal drug industry by R.D. Choudhary (1996), 1st Edn, Eastern Publisher, New Delhi.
5. Essentials of Pharmacognosy, Dr.SH.Ansari, 2nd edition, Birla publications, New Delhi, 2007
6. Herbal Cosmetics by H.Pande, Asia Pacific Business press, Inc, New Delhi.
7. A.N. Kalia, Textbook of Industrial Pharmacognosy, CBS Publishers, New Delhi, 2005.
8. R Endress, Plant cell Biotechnology, Springer-Verlag, Berlin, 1994.
9. Pharmacognosy & Pharmacobiotechnology. James Bobbers, Marilyn KS, VE Tylor.
10. The formulation and preparation of cosmetic, fragrances and flavours.
11. Remington's Pharmaceutical sciences.
12. Text Book of Biotechnology by Vyas and Dixit.
13. Text Book of Biotechnology by R.C. Dubey.



T.Y.B.PHARM SEMESTER - VI

BP601T. MEDICINAL CHEMISTRY – III (Theory)

45 Hours

Scope :

This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject also discusses the concept of quantitative structure activity relationship (QSAR) in drug design. The subject also emphasizes on the chemistry, mechanism of action, metabolism, adverse effects, Structure Activity Relationships (SAR), therapeutic uses and synthesis of important drugs.

Objectives:

Upon completion of the course student shall be able to

- 1 Understand the importance of drug design and different techniques of drug design.
- 2 Understand the chemistry of drugs with respect to their biological activity.
- 3 Know the metabolism, adverse effects and therapeutic value of drugs.
- 4 Know the importance of SAR of drugs.

Course Content:

Study of the development of the following classes of drugs, Classification, mechanism of action, uses of drugs mentioned in the course, Structure activity relationship of selective class of drugs as specified in the course and synthesis of drugs mentioned in bracket [] only to be covered

UNIT - I

10 Hours

Antibiotics

Historical background, Nomenclature, Stereochemistry, Structure activity relationship, Chemical degradation classification and important products of the following classes.

- a) **β -Lactam antibiotics:** Penicillins, Cephalosporins, β -Lactamase inhibitors, Monobactams
- b) **Aminoglycosides:** Streptomycin, Neomycin, Kanamycin



UNIT – VI

03 Hours

Introduction to Drug Design

Various approaches used in drug design.

Physicochemical parameters used in quantitative structure activity relationship (QSAR) such as partition coefficient, Hammett's electronic parameter, Taft's steric parameter and Hansch analysis, Ferguson principle.

Recommended Books (Latest Editions)

1. Wilson and Giswold's Organic medicinal and Pharmaceutical Chemistry.
2. Foye's Principles of Medicinal Chemistry.
3. Burger's Medicinal Chemistry, Vol I to IV.
4. Introduction to principles of drug design- Smith and Williams.
5. Remington's Pharmaceutical Sciences.
6. Martindale's extra pharmacopoeia.
7. Organic Chemistry by I.L. Finar, Vol. II.
8. The Organic Chemistry of Drug Synthesis by Lednicer, Vol. 1 to 5.
9. Indian Pharmacopoeia.
10. Text book of practical organic chemistry-A.I.Vogel.
11. An Introduction to Medicinal Chemistry by Graham Patrick

BP602 T. PHARMACOLOGY-III (Theory)

45 Hours

Scope: This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on respiratory and gastrointestinal system, infectious diseases, immuno-pharmacology and in addition, emphasis on the principles of toxicology and chronopharmacology.



- c. Antifungal agents
- d. Antiviral drugs
- a. Anthelmintics
- e. Antimalarial drugs
- f. Antiamoebic agents

UNIT-IV

Chemotherapy

08hr

- a. Urinary tract infections and sexually transmitted diseases.
- b. Chemotherapy of malignancy.

Immunopharmacology

- a. Immunostimulants
- b. Immunosuppressant

Protein drugs, monoclonal antibodies, target drugs to antigen, biosimilars

UNIT-V

Principles of toxicology

07hr

- a. Definition and basic knowledge of acute, subacute and chronic toxicity.
- b. Definition and basic knowledge of genotoxicity, carcinogenicity, teratogenicity and mutagenicity
- c. General principles of treatment of poisoning
- d. Clinical symptoms and management of barbiturates, morphine, organophosphorus compound and lead, mercury and arsenic poisoning.

Chronopharmacology

- a. Definition of rhythm and cycles.
- b. Biological clock and their significance leading to chronotherapy.

Recommended Books (Latest Editions)

1. Rang H. P., Dale M. M., Ritter J. M., Flower R. J., Rang and Dale's Pharmacology, Churchill Livingstone Elsevier



2. Katzung B. G., Masters S. B., Trevor A. J., Basic and clinical pharmacology, Tata McGraw-Hill
3. Goodman and Gilman's, The Pharmacological Basis of Therapeutics
4. Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A.K., Bradley R.W., Applied Therapeutics, The Clinical use of Drugs. The Point LippincottWilliams & Wilkins
5. Mycek M.J, Gelnet S.B and Perper M.M. Lippincott's Illustrated Reviews-Pharmacology
6. K.D.Tripathi. Essentials of Medical Pharmacology, JAYPEE Brothers MedicalPublishers (P) Ltd, New Delhi.
7. Sharma H. L., Sharma K. K., Principles of Pharmacology, Paras medical publisher
8. Modern Pharmacology with clinical Applications, by Charles R.Craig & Robert,
9. N.Udupa and P.D. Gupta, Concepts in Chronopharmacology.

BP 603 T. HERBAL DRUG TECHNOLOGY (Theory)

Scope: This subject gives the student the knowledge of basic understanding of herbal drug industry, the quality of raw material, guidelines for quality of herbal drugs, herbal cosmetics, natural sweeteners, nutraceutical etc. The subject also emphasizes on Good Manufacturing Practices (GMP), patenting and regulatory issues of herbal drugs

Objectives: Upon completion of this course the student should be able to:

1. understand raw material as source of herbal drugs from cultivation to herbal drug product
2. know the WHO and ICH guidelines for evaluation of herbal drugs
3. know the herbal cosmetics, natural sweeteners, nutraceuticals
4. appreciate patenting of herbal drugs, GMP .

Course content:

UNIT-I

11 Hours

Herbs as raw materials



Market overview, Sources and description of raw materials of herbal origin used via, fixed oils, waxes, gums colours, perfumes, protective agents, bleaching agents, antioxidants in products such as skin care, hair care and oral hygiene products.

Herbal excipients:

Market overview, Herbal Excipients – Significance of substances of natural origin as excipients – colorants, sweeteners, binders, diluents, viscosity builders, disintegrants, flavors & perfumes.

Herbal formulations :

Market overview, Conventional herbal formulations like syrups, mixtures and tablets and Novel dosage forms like phytosomes

UNIT- IV

12 Hours

Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs Stability testing of herbal drugs.

Patenting and Regulatory requirements of natural products:

- Definition of the terms: Patent, IPR, Farmers right, Breeder's right, Bioprospecting and Biopiracy
- Patenting aspects of Traditional Knowledge and Natural Products. Case study of Curcuma & Neem.

Regulatory Issues - Regulations in India (ASU DTAB, ASU DCC), Regulation of manufacture of ASU drugs - Schedule Z of Drugs & Cosmetics Act for ASU drugs.

Other issues related to export of natural products (such as CITES Certificate, DGFT Notification, Negative list of herbs, TRAFFIC)

UNIT-V

05Hours

General Introduction to Herbal Industry

- Herbal drugs industry: Present scope and future prospects.
- A brief account of plant based industries and institutions involved in work on medicinal and aromatic plants in India.

Schedule T – Good Manufacturing Practice of Indian systems of medicine



- Components of GMP (Schedule – T) and its objectives
- Infrastructural requirements, working space, storage area, machinery and equipments, standard operating procedures, health and hygiene, documentation and records.

BP 604 T. BIOPHARMACEUTICS AND PHARMACOKINETICS (Theory) 45 Hours

Scope: This subject is designed to impart knowledge and skills of Biopharmaceutics and pharmacokinetics and their applications in pharmaceutical dosage form development.

Objectives: Upon completion of the course student shall be able to:

- Understand the basic concepts in biopharmaceutics and pharmacokinetics and their significance.
- Use plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, elimination.
- Understand the concepts of bioavailability and bioequivalence of drug products and their significance.
- Understand the concept of dissolution and application of in vitro in vivo correlation in drug product development.

Course Content:

UNIT-I

10 Hours

Introduction to Biopharmaceutics

Absorption: Mechanisms of drug absorption through GIT, factors influencing drug absorption through GIT, absorption of drug from Non per oral extra-vascular routes;

Distribution: Tissue permeability of drugs, binding of drugs, apparent volume of drug distribution, plasma and tissue protein binding, factors affecting protein-drug binding. Kinetics of protein binding, Clinical significance of protein binding of drugs

UNIT- II

10 Hours



Elimination: Drug metabolism and basic understanding, metabolic pathways, factors affecting drug metabolism, renal excretion of drugs, factors affecting renal excretion of drugs, renal clearance, Non renal routes of drug excretion of drugs

Biopharmaceutical classification system, theories of dissolution, dissolution test apparatus, dissolution models, *in-vitro-in-vivo* correlations

UNIT- III

10 Hours

Bioavailability and Bioequivalence: Definition and Objectives of bioavailability, absolute and relative bioavailability, measurement of bioavailability, bioequivalence studies and study designs, Review of regulatory requirements for conducting bioequivalence study, bio-waivers, methods to enhance the dissolution rates and bioavailability of poorly soluble drugs.

UNIT- IV

10 Hours

Pharmacokinetics: Definition and introduction to Pharmacokinetics, Compartment models, Non compartment models, physiological models, One compartment open model (a) Intravenous Injection (Bolus) (b) Intravenous infusion and (c) Extra vascular administrations. Pharmacokinetics parameters - K_E , $t_{1/2}$, V_d , AUC , K_a , CL_T and CL_R - definitions methods of eliminations, understanding of their significance and application. Introduction to multi-compartment model.

UNIT- V

05 Hours

Nonlinear Pharmacokinetics: Introduction, Factors causing Non-linearity, Michaelis-menten equation, Determination of V_{max} and K_m . Significance of nonlinear pharmacokinetics, Explanation with example of drugs.

Recommended Books: (Latest Editions)

1. Biopharmaceutics and Clinical Pharmacokinetics by, Milo Gibaldi.
2. Biopharmaceutics and Pharmacokinetics; By Robert F Notari
3. Applied biopharmaceutics and pharmacokinetics, Leon Shargel and Andrew B.C.YU 4th edition, Prentice-Hall International edition.USA



4. Bio pharmaceuticals and Pharmacokinetics-A Treatise, By D. M. Brahmankar and Sunil B.Jaiswal,Vallabh Prakashan Pitampura, Delhi
5. Pharmacokinetics: By Milo Gibaldi Donald, R. Mercei Dekker Inc.
6. Hand Book of Clinical Pharmacokinetics, By Milo Gibaldi and Laurie Prescott by ADIS Health Science Press.
7. Biopharmaceutics; By Swarbrick
8. Clinical Pharmacokinetics, Concepts and Applications: By Rowland M, Tozer T, Ed 4, WolterKluwers – Lippincott,Williams and Wilkins.
9. Dissolution, Bioavailability and Bioequivalence, By Abdou H.M, Mack, Publishing Company,Pennsylvania 1989.
10. Biopharmaceutics and Clinical Pharmacokinetics-An introduction 4th edition Revised and expanded by Rebert F Notari Marcel Dekker Inn, New York and Basel, 1987. Remington"s Pharmaceutical Sciences, ByMack Publishing Company, Pennsylvania.

BP 605 T. PHARMACEUTICAL BIOTECHNOLOGY(Theory) 45 Hours

- Biotechnology has a long promise to revolutionize the biological sciences and technology.
- Scientific application of biotechnology in the field of genetic engineering, medicine and fermentation technology makes the subject interesting.
- Biotechnology is leading to new biological revolutions in diagnosis, prevention and cure of diseases, new and cheaper pharmaceutical drugs.
- Biotechnology has already produced transgenic crops and animals and the future promises lot more.
- It is basically a research-based subject.

Objectives: Upon completion of the subject student shall be able to;

1. Understanding the importance of Immobilized enzymes in Pharmaceutical Industries
2. Genetic engineering applications in relation to production of pharmaceuticals
3. Importance of Monoclonal antibodies in Industries
4. Appreciate the use of microorganisms in fermentation technology



Storage conditions and stability of official vaccines

Hybridoma technology- Production, Purification and Applications

Unit IV

08Hours

Immuno blotting techniques- ELISA, Western blotting, Southern blotting.

Microbial genetics including transformation, transduction, conjugation, plasmids and transposons.

Introduction to Microbial biotransformation and applications.

Mutation: Types of mutation/mutants.

Unit V

07 Hours

Fermentation methods and general requirements, study of media, equipments, sterilization methods, aeration process, stirring.

Large scale production fermenter design and its various controls.

Study of the production of - penicillins, Vitamin B12, Glutamic acid,

Blood Products: Collection, Processing and Storage of whole human blood, dried human plasma, plasma substitutes.

Recommended Books (Latest edition):

1. B.R. Glick and J.J. Pasternak: Molecular Biotechnology: Principles and Applications of Recombinant DNA: ASM Press Washington D.C.
2. RA Goldshy et. al., : Kuby Immunology.
3. J.W. Goding: Monoclonal Antibodies.
4. J.M. Walker and E.B. Gingold: Molecular Biology and Biotechnology by Royal Society of Chemistry.
5. Zaborsky: Immobilized Enzymes, CRC Press, Degrland, Ohio.



6. S.B. Primrose: Molecular Biotechnology (Second Edition) BlackwellScientific Publication.
7. Stanbury F., P., Whitakar A., and Hall J., S., Principles of fermentation technology, 2nd edition, Aditya books Ltd., NewDelhi.

BP 606T PHARMACEUTICAL QUALITY ASSURANCE (Theory) 45 Hours

Scope:

This course deals with the various aspects of quality control and quality assurance aspects of pharmaceutical industries. It deals with the important aspects like cGMP, QC tests, documentation, quality certifications and regulatory affairs.

Objectives:

Upon completion of the course student shall be able to:

1. Understand the cGMP aspects in a pharmaceutical industry
2. Appreciate the importance of documentation
3. Understand the scope of quality certifications applicable to pharmaceutical industries
4. Understand the responsibilities of QA & QC departments

COURSE CONTENT

UNIT – I

10 Hours

Quality Assurance and Quality Management concepts: Definition and concept of Quality control, Quality assurance and GMP, Introduction to Regulatory agencies like CDSCO, USFDA, WHO, PIC/S.

Total Quality Management (TQM): Definition, elements, philosophies

ICH Guidelines: Brief overview of QSEM, ICH stability testing guidelines

Quality by design (QbD): Definition, Overview, Elements of QbD program

ISO 9000 & ISO14000: Overview, Benefits and Elements

NABL accreditation : Principles and procedures



UNIT - II

10 Hours

Organization and personnel: Personnel responsibilities, training, hygiene and personal records.

Premises: Design, construction and plant layout, maintenance, sanitation, environmental control, utilities and maintenance of sterile areas, control of contamination.

Equipments and raw materials: Equipment selection, purchase specifications, maintenance, purchase specifications and maintenance of stores for raw materials.

UNIT - III

10 Hours

Quality Control of Packaging material: Quality control test for containers, rubber closures and secondary packing materials.

Good Laboratory Practices & Role of CPCSEA

UNIT - IV

08 Hours

Complaints: Complaints and evaluation of complaints, Handling of return good, recalling and waste disposal.

Document maintenance in pharmaceutical industry in brief: Batch Formula Record, Master Formula Record, SOP, distribution records.

UNIT - V

07 Hours

Calibration and Validation: Introduction, definition and general principles of calibration, qualification and validation, importance and scope of validation, type of validation.

General principles of Analytical method Validation.

Warehousing: Good warehousing practice, materials management

Recommended Books: (Latest Edition)

1. Quality Assurance Guide by organization of Pharmaceutical Products of India.
2. Good Laboratory Practice Regulations, 2nd Edition, Sandy Weinberg Vol. 69.
3. Quality Assurance of Pharmaceuticals- A compendium of Guide lines and Related materials Vol I WHO Publications.
4. A guide to Total Quality Management- Kushik Maitra and Sedhan K Ghosh



5. How to Practice GMP's – P P Sharma.
6. ISO 9000 and Total Quality Management – Sadhank G Ghosh
7. The International Pharmacopoeia – Vol I, II, III, IV- General Methods of Analysis and Quality specification for Pharmaceutical Substances, Excipients and Dosage forms
8. Good laboratory Practices – Marcel Deckker Series
9. ICH guidelines, ISO 9000 and 14000 guidelines 142
10. Pharmaceutical Quality Assurance – Sohan Chitlange, Sanjeevani Deshkar, Rupali Kale and Bhupesh Patil

BP607P. MEDICINAL CHEMISTRY-III (Practical)

4 Hours / week

I Preparation of drugs and intermediates (Any six)	10 turns
1. Sulphanilamide	
2. 7-Hydroxy, 4-methyl coumarin	
3. Chlorobutanol	
4. Triphenyl imidazole	
5. Tolbutamide	
6. Hexamine	
7. Paracetamol	
8. Methyl salicylate	
9. Caprolactum	
II Preparation of medicinally important compounds or intermediates by Microwave synthesis (any two)	02 turns
III Drawing structures and reactions using Chem draw®	01 turn
IV Determination of physicochemical properties such as logP, clogP, MR, Molecular weight	01 turn
V Hydrogen bond donors and acceptors for class of drugs using drug design software Drug likeliness screening (Lipinskies RO5)	01 turn

Recommended Books (Latest Editions)

1. Martindale's extra pharmacopoeia.
2. Organic Chemistry by I. L. Finar Vol II



3. The Organic Chemistry of Drug Synthesis by Lednicer, Vol. 1 to 5.
4. Indian Pharmacopoeia.
5. Text book of practical organic chemistry-A.I.Vogel.
6. Medicinal Chemistry By Ashutosh Kar
7. Practical Pharmaceutical Chemistry: Part II Fourth Edition, A. H. Beckett, J. B. Stenlake.

BP 608 P. PHARMACOLOGY-III (Practical)

4Hrs/Week

Sr. No Experiment

1. Study of anti-ulcer activity of a drug using pylorus ligand (SHAY) rat model and NSAIDS induced ulcer model.
2. Study of effect of drugs on gastrointestinal motility
3. Effect of agonist and antagonists on guinea pig ileum
4. Estimation of serum biochemical parameters by using semi- autoanalyser
5. Effect of saline purgative on frog intestine
6. Hypoglycemic effect of insulin in rabbit
7. Test for pyrogens (rabbit method)
8. Determination of acute oral toxicity (LD50) of a drug from a given data
9. Determination of acute skin irritation / corrosion of a test substance
10. Determination of acute eye irritation / corrosion of a test substance
11. Calculation of pharmacokinetic parameters from a given data
12. Biostatistics methods in experimental pharmacology(student's t test, ANOVA)
13. Biostatistics methods in experimental pharmacology (Chi square test, Wilcoxon Signed Rank test)
14. Bioassay of serotonin using rat fundus strip by three point bioassay.
15. Bioassay of acetylcholine using rat ileum/colon by four point bioassay.
16. Study of mydriatic and miotic effects on rabbit eye.



*Experiments are demonstrated by simulated experiments/videos

Recommended Books (Latest Editions)

1. Ghosh MN. Fundamentals of Experimental Pharmacology. Hilton & Company, Kolkata.
2. Kulkarni SK. Handbook of experimental pharmacology. Vallabh Prakashan.
3. Goyal RK. Practicals in Pharmacology, BS Shaha Prakashan.
4. Kasture SB. A handbook of experiments in pre-clinical pharmacology, Career Publications.
5. Bikas Medhi, Ajay Prakash. Practical Manual of Experimental and Clinical Pharmacology. Jaypee Publications.

BP 609 P. HERBAL DRUG TECHNOLOGY (Practical)

4 hours/ week

1. To perform preliminary phytochemical screening of crude drugs.
2. Determination of the alcohol content of Asava and Arista
3. Evaluation of excipients of natural origin
4. Incorporation of prepared and standardized extract in cosmetic formulations like creams, lotions and shampoos and their evaluation.
5. Incorporation of prepared and standardized extract in formulations like syrups, mixtures and tablets and their evaluation as per Pharmacopoeial requirements.
6. Monograph analysis of herbal drugs from recent Pharmacopoeias
7. Determination of Aldehyde content
8. Determination of Phenol content
9. Determination of total alkaloids

Recommended Books: (Latest Editions)

1. Textbook of Pharmacognosy by Trease & Evans.
2. Textbook of Pharmacognosy by Tyler, Brady & Robber.
3. Pharmacognosy by Kokate, Purohit and Gokhale
4. Essential of Pharmacognosy by Dr.S.H.Ansari
5. Pharmacognosy & Phytochemistry by V.D.Rangari
6. Pharmacopoeal standards for Ayurvedic Formulation (Council of Research in



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Permanently affiliated to Savitribai Phule Pune University, ID No. PU/PN/Pharmacy/200/2004



Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

SAVITRIBAI PHULE PUNE UNIVERSITY

FACULTY OF SCIENCE AND TECHNOLOGY



Syllabus of Second Year B. Pharmacy

2019 PATTERN

(EFFECTIVE FROM ACADEMIC YEAR 2020-2021)



BP 303 T. PHARMACEUTICAL MICROBIOLOGY (Theory) 45Hours

Scope:

Study of microorganisms and its effect on pharmaceutical products

Objectives: Upon completion of the subject student shall be able to;

1. Understand methods of identification, cultivation and preservation of various Microorganisms
2. To understand the importance and implementation of sterilization in pharmaceutical processing and industry
3. Learn sterility testing of pharmaceutical products.
4. Carried out microbiological standardization of Pharmaceuticals.
5. Understand the cell culture technology and its applications in pharmaceutical industries.

Course content:

Unit I

10 Hours

Introduction, history of microbiology, its branches, scope and its importance. Introduction to Prokaryotes and Eukaryotes Study of ultra-structure and morphological classification of bacteria, nutritional requirements, raw materials used for culture media and physical parameters for growth, growth curve, isolation and preservation methods for pure cultures, cultivation of anaerobes, quantitative measurement of bacterial growth (total & viable count). Study of different types of phase contrast microscopy, dark field microscopy and electron microscopy.

Definition and examples of Probiotics and Prebiotics

Unit II

10 Hours

Identification of bacteria using staining techniques (simple, Gram's & Acid fast staining) and biochemical tests (IMViC). Definition of D value & Z value and its significance. Study of principle, procedure, merits, demerits and applications of physical, chemical gaseous, radiation and mechanical method of sterilization. Evaluation of the efficiency of sterilization methods. Equipments employed in large scale sterilization. Sterility indicators.

Unit III

10 Hours



Study of morphology, classification, reproduction/replication and cultivation of Fungi and Viruses. Classification and mode of action of disinfectants Factors influencing disinfection, antiseptics and their evaluation. For bacteriostatic and bactericidal actions Evaluation of bactericidal & Bacteriostatic. Sterility testing of products (solids, liquids, ophthalmic and other sterile products) according to IP, BP and USP.

Unit IV

08 Hours

Designing of aseptic area, laminar flow equipments; study of different sources of contamination in an aseptic area and methods of prevention, clean area classification. Principles and methods of different microbiological assay. Methods for standardization of antibiotics, vitamins and amino acids. Assessment of a new antibiotic.

Unit V

07Hours

Types of spoilage, factors affecting the microbial spoilage of pharmaceutical products, sources and types of microbial contaminants, assessment of microbial contamination and spoilage. Preservation of pharmaceutical products using antimicrobial agents, evaluation of microbial stability of formulations. Growth of animal cells in culture, general procedure for cell culture, Primary, established and transformed cell cultures. Application of cell cultures in pharmaceutical industry and research.

Recommended Books

1. W.B. Hugo and A.D. Russel: Pharmaceutical Microbiology, Blackwell Scientific publications, Oxford London.
2. Prescott and Dunn., Industrial Microbiology, 4th edition, CBS Publishers & Distributors, Delhi.
3. Pelczar, Chan Kreig, Microbiology, Tata McGraw Hill edn.
4. Malcolm Harris, Balliere Tindall and Cox: Pharmaceutical Microbiology.
5. Rose: Industrial Microbiology.
6. Probisher, Hinsdill et al: Fundamentals of Microbiology, 9th ed. Japan



7. Cooper and Gunn's: Tutorial Pharmacy, CBS Publisher and Distribution.
8. Pepler: Microbial Technology.
9. I.P., B.P., U.S.P.- latest editions.
10. Ananthnarayan : Text Book of Microbiology, Orient-Longman, Chennai
11. Edward: Fundamentals of Microbiology.
12. N.K.Jain: Pharmaceutical Microbiology, Vallabh Prakashan, Delhi
13. Bergeys manual of systematic bacteriology, Williams and Wilkins- A Waverly company
14. "Nutrition Probiotics and prebiotics" by Pamela Mason; The Pharmaceutical Journal Vol 266 No 7132 p118-121.
15. Alfonso R. Gennaro Remington. The Science and Practice of Pharmacy, Lippincott Williams, New Delhi.

BP 304 T. PHARMACEUTICAL ENGINEERING (Theory)

45 Hours

Scope:

This course is designed to impart a fundamental knowledge on the art and science of various unit operations used in pharmaceutical industry.

Objectives:

Upon completion of the course student shall be able:

1. To know various unit operations used in Pharmaceutical industries.
2. To understand the material handling techniques.
3. To perform various processes involved in pharmaceutical manufacturing process.
4. To carry out various test to prevent environmental pollution.
5. To appreciate and comprehend significance of plant lay out design for optimum use of resources.
6. To appreciate the various preventive methods used for corrosion control in Pharmaceutical industries.



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Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Course content:

UNIT-I

10 Hours

- Flow of fluids: Types of manometers, Reynolds number and its significance, Bernoulli's theorem and its applications, Energy losses, Orifice meter, Venturimeter, Pitot tube and Rotometer.
- Size Reduction: Objectives, Mechanisms & Laws governing size reduction, factors affecting size reduction, principles, construction, working, uses, merits and demerits of Hammer mill, ball mill, fluid energy mill, Edge runner mill & end runner mill.
- Size Separation: Objectives, applications & mechanism of size separation, official standards of powders, sieves, size separation Principles, construction, working, uses, merits and demerits of Sieve shaker, cyclone separator, Air separator, Bag filter & elutriation tank.

UNIT-II

10 Hours

- Heat Transfer: Objectives, applications & Heat transfer mechanisms. Fourier's law, Heat transfer by conduction, convection & radiation. Heat interchangers & heat exchangers.
- Evaporation: Objectives, applications and factors influencing evaporation, differences between evaporation and other heat process. principles, construction, working, uses, merits and demerits of Steam jacketed kettle, horizontal tube evaporator, climbing film evaporator, forced circulation evaporator, multiple effect evaporator & Economy of multiple effect evaporator.
- Distillation: Basic Principles and methodology of simple distillation, flash distillation, fractional distillation, distillation under reduced pressure, steam distillation & molecular distillation

UNIT- III

08 Hours

- Drying: Objectives, applications & mechanism of drying process, measurements & applications of Equilibrium Moisture content, rate of drying curve. principles,



construction, working, uses, merits and demerits of Tray dryer, drum dryer spray dryer, fluidized bed dryer, vacuum dryer, freeze dryer.

- Mixing: Objectives, applications & factors affecting mixing, Difference between solid and liquid mixing, mechanism of solid mixing, liquids mixing and semisolids mixing. Principles, Construction, Working, uses, Merits and Demerits of Double cone blender, twin shell blender, ribbon blender, Sigma blade mixer, planetary mixers, Propellers, Turbines, Paddles & Silverson Emulsifier,

UNIT-IV

08 Hours

- Filtration: Objectives, applications, Theories & Factors influencing filtration, filter aids, filter medias. Principle, Construction, Working, Uses, Merits and demerits of plate & frame filter, filter leaf, rotary drum filter, Meta filter & Cartridge filter, membrane filters and Seidtz filter.
- Centrifugation: Objectives, principle & applications of Centrifugation, principles, construction, working, uses, merits and demerits of Perforated basket centrifuge, Non-perforated basket centrifuge, semi continuous centrifuge & super centrifuge.

UNIT- V

07 Hours

- Materials of pharmaceutical plant construction, Corrosion and its prevention: Factors affecting during materials selected for Pharmaceutical plant construction, Theories of corrosion, types of corrosion and there prevention. Ferrous and nonferrous metals, inorganic and organic non metals, basic of material handling systems.

Recommended Books:

1. Paradkar A. Introduction to Pharmaceutical Engineering. Eleventh Edition, Nirali Prakashan, Pune. 2007.
2. Badger WL, Banchero JT. Introduction to Chemical Engineering. International Edition, McGraw Hill Book Company. 1955.
3. Subrahmanyam CVS, Thimma Setty J, Sarasija Suresh, Kusum Devi V. Pharmaceutical Engineering Unit Operations-II. Second Edition, Vallabh Prakashan, Delhi. 2011.



10. Determination of stability constant and donor acceptor ratio of PABA-Caffeine complex by solubility method
11. Determination of stability constant and donor acceptor ratio of Cupric-Glycine complex by pH titration method.
12. Determination of Refractive index of given sample.
13. Determination of thermodynamic parameters using solubility studies.

Recommended Books:

1. Physical Pharmacy by Alfred Martin
2. Experimental Pharmaceutics by Eugene, Parott.
3. Tutorial Pharmacy by Cooper and Gunn.
4. Stocklosam J. Pharmaceutical Calculations, Lea &Febiger, Philadelphia.
5. Liberman H.A, Lachman C., Pharmaceutical Dosage forms, Tablets, Volume-1 to 3, MarcelDekkar Inc.
6. Liberman H.A, Lachman C, Pharmaceutical Dosage forms. Disperse systems, volume 1, 2, 3. Marcel Dekkar Inc.
7. Physical Pharmaceutics by Ramasamy C and ManavalanR.
8. LaboratoryManual of Physical Pharmaceutics, C.V.S. Subramanyam, J.Thimma settee
9. Physical Pharmaceutics by C.V.S. Subramanyam
10. Text book of Physical Phramacy, by Gaurav Jain & Roop K. Khar

BP 307P.PHARMACEUTICAL MICROBIOLOGY (Practical)

4 Hours/week

1. Introduction and study of different equipments and processing, e.g., B.O.D. incubator, laminar flow or aseptic hood, autoclave, hot air sterilizer, deep freezer, refrigerator, microscopes used in experimental microbiology.
2. Sterilization of glassware, preparation and sterilization of media.
3. Sub culturing of bacteria and fungus. Nutrient stabs and slants preparations.



4. Staining methods- Simple, Grams staining and acid fast staining (Demonstration with practical).
5. Isolation of pure culture of micro-organisms by multiple streak plate technique and other techniques.
6. Microbiological assay of antibiotics by cup plate method and other methods
7. Motility determination by Hanging drop method.
8. Sterility testing of pharmaceuticals (Any two samples).
9. Bacteriological analysis of water
10. Biochemical test of any one microorganism.

Recommended Books

1. W.B. Hugo and A.D. Russe: Pharmaceutical Microbiology, Blackwell Scientific publications, Oxford London.
2. Prescott and Dunn., Industrial Microbiology, 4th edition, CBS Publishers & Distributors, Delhi.
3. Pelczar, Chan Kreig, Microbiology, Tata McGraw Hill edn.
4. Malcolm Harris, Balliere Tindall and Cox: Pharmaceutical Microbiology.
5. Rose: Industrial Microbiology.
6. Probisher, Hinsdill et al: Fundamentals of Microbiology, 9th ed. Japan
7. Cooper and Gunn"s: Tutorial Pharmacy, CBS Publisher and Distribution.
8. Pepler: Microbial Technology.
9. I.P., B.P., U.S.P.- latest editions.
10. Ananthnarayan : Text Book of Microbiology, Orient-Longman, Chennai
11. Edward: Fundamentals of Microbiology.
12. N.K.Jain: Pharmaceutical Microbiology, Vallabh Prakashan, Delhi
13. Bergeys manual of systematic bacteriology, Williams and Wilkins- A Waverly company
14. "Nutrition Probiotics and prebiotics" by Pamela Mason; The Pharmaceutical Journal Vol 266 No 7132 p118-121.
15. Alfonso R. Gennaro Remington. The Science and Practice of Pharmacy, Lippincott



Williams, New Delhi.

BP308 P - PHARMACEUTICAL ENGINEERING (PRACTICAL) 4 Hours/week

- I. Determination of radiation constant of any one of – brass/ iron/unpainted and painted glass.
- II. Steam distillation- To calculate the efficiency of steam distillation.
- III. To determine the overall heat transfer coefficient by heat exchanger.
- IV. Construction of drying curves (for calcium carbonate and starch)
- V. Determination of moisture content and loss on drying.
- VI. Determination of humidity of air - i) From wet and dry bulb temperatures -use of Dew point method
- VII. Description of Construction, working and application of any two Pharmaceutical Machinery such as Rotary tablet Machine, capsule filling machine, tablet coating machine, autoclave, oven and dehumidifier.
- VIII. Size analysis by sieving -To evaluate size distribution of tablet granulations – Construction of various size frequency curves including arithmetic and logarithmic probability plots.
- IX. Size reduction: To verify the laws of size reduction using ball mill and determining Kicks, Rittinger's, Bond's coefficients, power requirement and critical speed of Ball Mill.
- X. Demonstration of any two equipments such as colloid mill, planetary mixer, fluidized bed dryer, Spray dryer Laminar Air Flow, Ball Mill and such other major equipments.
- XI. Factors affecting Rate of Filtration and Evaporation (Surface area, Concentration and Thickness/ viscosity).
- XII. To study the effect of time on the Rate of Crystallization.
- XIII. To calculate the uniformity Index for given sample by using Double Cone Blender



1. Morrison, R. T. & Boyd, R. D., Textbook of Organic Chemistry, VI (ed.) ELBS, London, 1996
2. Advanced General Organic Chemistry-A Modern Approach by Sachin Kumar Ghosh, 3/Ed. 2009, New Central Book Agency (P) Ltd.
3. Pine, S. H, Organic Chemistry, V, Tata McGraw Hill, New Delhi, 2003 4. Finar, I. L., Organic Chemistry Vol. I, V (ed.), ELBS, Pearson Education, New Delhi, 2003
4. Joule and Mills, Heterocyclic Chemistry, IV (ed.), Blackwell Publishing House, Oxford, UK, 2004
5. Li, J. J., Name Reactions, III (ed.), Springer, Berlin, 2006
6. Stereochemistry of Organic Compound Principles and Applications by Nasipuri, Revised Edition, New Age International Publishers.
7. Stereochemistry Conformation and Mechanism by P.S. Kalsi, 7/Ed 2008, New Age International Publishers, New Delhi.
8. Stereochemistry of Organic Compound Principles and Applications by Nasipuri, Revised Edition, New Age International Publishers.

BP402T. MEDICINAL CHEMISTRY – I (Theory)

45 hours

Scope:

This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each class.

Objectives:

Upon completion of the course the student shall be able to -

1. Understand the chemistry of drugs with respect to their pharmacological activity.
2. Understand the drug metabolic pathways, adverse effect and therapeutic value of Drugs.
3. Know the Structural Activity Relationship (SAR) of different class of drugs.
4. Write the chemical synthesis of some drugs.



COURSE CONTENT:

Note: Study of the development of the following classes of drugs, classification, mechanism of action, Structure activity relationship, uses of drugs mentioned in the course. The synthesis of drugs mentioned in bracket [] only needs to be covered.

UNIT-I

06 hours

Introduction to Medicinal Chemistry:

- History and development of medicinal chemistry
- Physicochemical properties in relation to biological action Ionization, Solubility, Partition Coefficient, Hydrogen bonding, Protein binding, Chelation, Bioisosterism, Optical and Geometrical isomerism.
- Drug metabolism**
Drug metabolism principles - Phase I and Phase II.
Factors affecting drug metabolism.

UNIT-II

Drugs acting on Autonomic Nervous System

10 hours

- Adrenergic Neurotransmitters:** Biosynthesis and catabolism of catecholamine. Adrenergic receptors (Alpha & Beta) and their distribution.
- Sympathomimetic agents: SAR of Sympathomimetic agents** Directacting: Nor-epinephrine, Epinephrine, Dopamine, Phenylephrine, Methyldopa, Clonidine, Dobutamine, Isoproterenol, Terbutaline, Salbutamol, Oxymetazoline and Xylometazoline
 - Indirect acting agents: Hydroxyamphetamine, Pseudoephedrine
 - Agents with mixed mechanism: Ephedrine, Amphetamine.
- Adrenergic Antagonists:**
 - Alpha adrenergic blockers:** Tolazoline, Phentolamine, Phenoxybenzamine, Prazosin.
 - Beta adrenergic blockers:** SAR of beta blockers, Propranolol, Atenolol, Labetolol, Carvedilol.
[Phenylephrine, Salbutamol, Tolazoline, Propranolol]



13. Determination of effect of salts on stability of hydrophobic sols

Recommended Books:

1. Physical Pharmacy by Alfred Martin, Sixth edition
2. Experimental pharmaceutics by Eugene, Parott.
3. Tutorial pharmacy by Cooper and Gunn.
4. Stocklosam J. Pharmaceutical calculations, Lea & Febiger, Philadelphia.
5. Liberman H.A, Lachman C., Pharmaceutical Dosage forms, Tablets, Volume-1 to 3, Marcel Dekkar Inc.
6. Liberman H.A, Lachman C, Pharmaceutical dosage forms. Disperse systems, volume 1, 2, 3. Marcel Dekkar Inc.
7. Physical Pharmaceutics by Ramasamy C, and Manavalan R.

BP 408 P. PHARMACOLOGY-I (Practical)

4Hrs/Week

1. Introduction to experimental pharmacology.
2. Commonly used instruments in experimental pharmacology.
3. Study of common laboratory animals and its possible use.
4. Maintenance of laboratory animals as per CPCSEA guidelines.
5. Common laboratory techniques. Blood withdrawal, serum and plasma separation, anesthetics and euthanasia used for animal studies.
6. Study of different routes of drugs administration in mice/rats.
7. Study of effect of hepatic microsomal enzyme inducers on the phenobarbitone sleeping time in mice.
8. Effect of drugs on ciliary motility of frog oesophagus
9. Effect of drugs on rabbit eye.
10. Effects of skeletal muscle relaxants using rota-rod apparatus.
11. Effect of drugs on locomotor activity using actophotometer.
12. Anticonvulsant effect of drugs by MES and PTZ method.
13. Study of stereotype and anti-catatonic activity of drugs on rats/mice.
14. Study of anxiolytic activity of drugs using rats/mice.
15. Study of local anaesthetics by different methods



BP 405 T.PHARMACOGNOSY AND PHYTOCHEMISTRY I (Theory) - 45 Hours

Scope: The subject involves the fundamentals of Pharmacognosy like scope, classification of crude drugs, their identification and evaluation, phytochemicals present in them and their medicinal properties.

Objectives: Upon completion of the course, the student shall be able

1. to know the techniques in the cultivation and production of crude drugs
2. to know the crude drugs, their uses and chemical nature
3. know the evaluation techniques for the herbal drugs
4. to carry out the microscopic and morphological evaluation of crude drugs

Course Content:

UNIT-I

10 Hours

Introduction to Pharmacognosy:

- (a) Definition, history, scope and development of Pharmacognosy
- (b) Sources of Drugs – Plants, Animals, Marine & Tissue culture
- (c) Organized drugs, unorganized drugs (dried latex, dried juices, dried extracts, gums and mucilages, oleoresins and oleo- gum -resins).

Classification of drugs:

Alphabetical, morphological, taxonomical, chemical, pharmacological, chemo and sero taxonomical classification of drugs

Quality control of Drugs of Natural Origin:

- Adulteration of drugs of natural origin. Evaluation by organoleptic, microscopic, physical, chemical and biological methods and properties.
- Quantitative microscopy of crude drugs including lycopodium spore method, leaf constants, camera lucida and diagrams of microscopic objects to scale with camera lucida.



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(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

UNIT-II

10 Hours

Cultivation, Collection, Processing and storage of drugs of natural origin:

- Cultivation and Collection of drugs of natural origin
- Factors influencing cultivation of medicinal plants.
- Plant hormones and their applications.
- Polyploidy, mutation and hybridization with reference to medicinal plants

Conservation of medicinal plants

UNIT-III

07 Hours

Plant tissue culture:

- Historical development of plant tissue culture, types of cultures, Nutritional requirements, growth and their maintenance.
- Applications of plant tissue culture in pharmacognosy.
- Edible vaccines

UNIT-IV

10 Hours

Plant description, morphology and anatomy:

Leaves, Roots, Barks, Wood, Flowers, Fruits, Seeds, subterranean organs

Introduction to secondary metabolites:

Definition, classification, properties and test for identification of Alkaloids, Glycosides, Flavonoids, Tannins, Volatile oil and Resins

UNIT-V

08 Hours

Study of biological source, chemical nature and uses of drugs of natural origin containing following drugs

Plant Products:

- Fibers - Cotton, Jute, Hemp
- Hallucinogens, Teratogens, Natural allergens



Primary metabolites: General introduction, detailed study with respect to chemistry, sources, preparation, evaluation, preservation, storage, therapeutic used and commercial utility as Pharmaceutical Aids and/or Medicines for the following Primary metabolites:

Carbohydrates: Acacia, Agar, Tragacanth, Honey

Proteins and Enzymes: Gelatin, casein, proteolytic enzymes (Papain, bromelain, serratiopeptidase, urokinase, streptokinase, pepsin).

Lipids (Waxes, fats, fixed oils): General methods of extraction of lipids.

Castor oil, Chaulmoogra oil, Shark liver oil and Cod liver oil, Wool Fat, Bees Wax

Marine Drugs:

Novel medicinal agents from marine sources a) Cardiovascular agents and b) Anti cancer agents

BP406P. MEDICINAL CHEMISTRY – I (Practical)

4Hrs/week

Synthesis of following medicinally important compounds / drug intermediates with

Recrystallization of compound and monitoring reactions with TLC

Preparation of drugs/ intermediates (any six)

10 turns

- 1,3-pyrazole
- 1,3-oxazole
- Benzimidazole
- Benzotriazole
- 2,3- diphenyl quinoxaline
- Benzocaine
- Phenytoin
- Phenothiazine
- Barbiturate



Purification of above synthesized compounds by Column chromatography **01turn (any one)**

Determination of Partition coefficient and Ionization constants **04 turns**
(any two compounds).

Recommended Books (Latest Editions)

1. John E. Hoover, Remington's Pharmaceutical Sciences, Mack Publishing Company; 13thedition (1965).
2. Sean C. Sweetman, Martindale's extra pharmacopoeia, Pharmaceutical Society of Great Britain.
3. Organic Chemistry by I.L. Finar, Vol. II, Longmans Green & Co., 3rd E/d.
4. Daniel Lednicer, Lester A. Mitscher, The Organic Chemistry of Drug Synthesis, John Wiley & Sons, Inc, Vol. 1-5.
5. Indian Pharmacopoeia.
6. Text book of practical organic chemistry- A.I.Vogel.
7. Medicinal Chemistry By Ashutosh Kar

BP 407P. PHYSICAL PHARMACEUTICS- II (Practical)

4 Hours/week

1. Determination of particle size, particle size distribution using sieving method
2. Determination of particle size, particle size distribution using Microscopic method
3. Determination of bulk density, true density and porosity
4. Determine the angle of repose and influence of lubricant on angle of repose
5. Determination of viscosity of liquid using Ostwald's viscometer
6. Determination sedimentation volume with effect of different suspending agent
7. Determination sedimentation volume with effect of different concentration of single suspending agent
8. Determination of viscosity of semisolid by using Brookfield viscometer
9. Determination of reaction rate constant first order.
10. Determination of reaction rate constant second order
11. Accelerated stability studies
12. Determination of Cloud point and Krafft point of given surfactant.



Note: All laboratory techniques and animal experiments are demonstrated by simulated experiments by softwares and videos

REFERENCES:

1. Ghosh MN. Fundamentals of Experimental Pharmacology. Hilton & Company, Kolkata.
2. Kulkarni SK. Handbook of experimental pharmacology. Vallabh Prakashan.
3. Burn JH. Practical Pharmacology Blackwell Scientific, Oxford London.
4. Jaju BP. Pharmacology: A Practice Exercise Book, Jaypee Brothers, New Delhi.
5. Sheth UK, Dadkar NK and Kamat UG. selected topics in experimental pharmacology,(Kothari Book Depot, Mumbai)
6. Perry W.L.M. Pharmacological Experiments on Isolated Preparation, E&S Livingstone,London.
7. Goyal R. K., Practicals in Pharmacology, B. S. Shah Prakashan, Ahemadabad.

BP409 P. PHARMACOGNOSY AND PHYTOCHEMISTRY I (Practical): 4 Hours/Week

1. Analysis of crude drugs by chemical tests:

(i) Tragacanth (ii) Acacia (iii) Agar (iv) Gelatin (v) starch (vi) Honey (vii) Castor oil

2. Determination of stomatal number and index
3. Determination of vein islet number, vein islet termination and palisade ratio.
4. Determination of size of starch grains, calcium oxalate crystals by eye piece micrometer
5. Determination of Fiber length and width
6. Determination of number of starch grains by Lycopodium spore method
7. Determination of Ash value
8. Determination of Extractive values of crude drugs
9. Determination of moisture content of crude drugs
10. Determination of swelling index and foaming index



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SAVITRIBAI PHULE PUNE UNIVERSITY

FACULTY OF SCIENCE AND TECHNOLOGY



RULES & SYLLABUS

**FIRST YEAR BACHELOR OF PHARMACY (B. Pharm.) COURSE –
2019 pattern (EFFECTIVE FROM ACADEMIC YEAR 2019-2020)**



BP102T. PHARMACEUTICAL ANALYSIS (Theory)

45 hours

Scope

This course deals with the fundamentals of analytical chemistry and principles of electrochemical analysis of drugs.

Objectives

Upon completion of the course a student shall be able to understand -

- The principles of volumetric and electrochemical analysis.
- Carry out various volumetric and electrochemical titrations.
- Develop analytical skills.

COURSE CONTENT

UNIT-I

a) **Pharmaceutical analysis** - Definition and scope

- i. Different techniques of analysis
- ii. Methods of expressing concentration
- iii. Primary and Secondary standards.

05 hours

b) **Errors** : Sources of errors, types of errors, methods of minimizing errors, accuracy, precision and significant figures

UNIT-II

a) **Acid base titration**: Theories of acid base indicators, classification of acid base titrations and theory involved in titrations of strong, weak, and very weak acids and bases, neutralization curves. Preparation and standardization of sodium hydroxide, hydrochloric acid, sulphuric acid, Estimation of ammonium chloride

10 hours

b) **Non aqueous titration**: Solvents, acidimetry and alkalimetry titrations, and estimation of sodium benzoate.

UNIT-III

a) **Precipitation titrations**: Mohr's method, Volhard's method, Modified Volhard's method, Fajans method, and estimation of Sodium Chloride I.P.

b) **Complexometric titration**: Classification, metal ion indicators, masking and demasking reagents, and estimation of Calcium gluconate I.P.

12 hours

c) **Gravimetry**: Principle and steps involved in gravimetric analysis. Purity of the precipitate: co-precipitation and post precipitation, and estimation of Barium sulphate I. P.

UNIT-IV

Redox titrations

- i. Concepts of oxidation and reduction
- ii. Preparation and standardization of Potassium Permanganate I. P., Ceric Ammonium Sulphate I. P./B. P. and Sodium Thiosulphate I. P./B. P.
- iii. Types of redox titrations (Principles and applications) : Permanganometry,

08 Hours



Cerimetry, Iodimetry, Iodometry, Bromatometry, Dichrometry, Titrations with Potassium Iodate I. P.

UNIT-V

a) Electrochemical methods of analysis

- i. **Conductometry** - Introduction, Conductivity cell, Conductometric titrations, applications.
- ii. **Potentiometry** - Electrochemical cell, construction and working of reference (Standard Hydrogen Electrode, Silver Chloride Electrode and Calomel Electrode) and Indicator Electrodes (Metal electrodes and Glass Electrode), methods to determine end point of potentiometric titration and applications.
- iii. **Polarography** - Principle and Ilkovic Equation.

10 hours

- ##### b) Refractometry
- Introduction, refractive index, specific and molar refraction, measurement of RI, Abbe's refractometer and applications.



BP108P. PHARMACEUTICAL ANALYSIS (Practical)

4 Hours/week

I. Preparation and standardization of

- (1) Aq. Sodium Hydroxide I. P.
- (2) Aq. Sulphuric Acid I. P./ Aq. Hydrochloric Acid I. P. **3 turns**
- (3) Aq. Sodium Thiosulfate I. P.
- (4) Aq. Potassium Permanganate I. P.
- (5) Aq. Ceric Ammonium Sulphate I. P.

II. Assay of the following compounds along with Standardization of Titrant

- (1) Ammonium chloride by acid-base titration
- (2) Sodium benzoate I. P. by non-aqueous titration
- (3) Sodium chloride I. P. by precipitation titration
- (4) Calcium gluconate I. P. by complexometry **8 turns**
- (5) Hydrogen peroxide I. P./B. P. by Permanganometry
- (6) Ferrous sulphate I. P. by cerimetry
- (7) Copper sulphate I. P. by iodometry

III. Determination of Normality by electro-analytical methods

- (1) Conductometric titrations of strong acid against strong base
- (2) Conductometric titration of strong acid and weak acid against strong base **3 turns**
- (3) Potentiometric titration of strong acid against strong base (Using Sigmoidal and First order derivative plot)

IV. Measurement of refractive index of some samples

- (Glycerol, Water, Rectified Spirit, Castor Oil I. P.) **1 turn**



BP103T. PHARMACEUTICS- I (Theory)

45 Hours

Scope: This course is designed to impart a fundamental knowledge on the preparatory pharmacy with arts and science of preparing the different conventional dosage forms.

Objectives: Upon completion of this course the student should be able to:

- Know the history of profession of pharmacy
- Understand the basics of different dosage forms, pharmaceutical incompatibilities and pharmaceutical calculations
- Understand the professional way of handling the prescription
- Preparation of various conventional dosage forms

Course Content:

UNIT – I

10 Hours

- **Historical background and development of profession of pharmacy:** History of profession of Pharmacy in India in relation to pharmacy education, industry and organization, Pharmacy as a career.
- **Dosage forms:** Introduction to dosage forms, classification and definitions
- **Prescription:** Definition, Parts of prescription, handling of Prescription and Errors in prescription.
- **Posology:** Definition, Factors affecting posology. Pediatric dose calculations based on age, body weight and body surface area.

UNIT – II

10 Hours

- **Pharmaceutical calculations:** Weights and measures – Imperial & Metric system, Calculations involving percentage solutions, alligation, proof spirit and isotonic solutions based on freezing point and molecular weight.
- **Powders:** Definition, classification, advantages and disadvantages, Simple & compound powders – official preparations, dusting powders, effervescent, efflorescent and hygroscopic powders, eutectic mixtures. Geometric dilutions.
- **Liquid dosage forms:** Advantages and disadvantages of liquid dosage forms. Excipients used in formulation of liquid dosage forms. Solubility enhancement techniques



UNIT – III

10 Hours

- **Monophasic liquids:** Definitions and preparations of Gargles, Mouthwashes, Throat Paint, Eardrops, Nasal drops, Enemas, Syrups, Elixirs, Liniments and Lotions.
- **Biphasic liquids:**
Suspensions: Definition, advantages and disadvantages, classifications, Preparation of suspensions; Flocculated and Deflocculated suspension & stability problems and methods to overcome.
Emulsions: Definition, classification, emulsifying agent, test for the identification of type of Emulsion, Methods of preparation & stability problems and methods to overcome.

UNIT – IV

08 Hours

- **Suppositories:** Definition, types, advantages and disadvantages, types of bases, methods of preparations. Displacement value & its calculations, evaluation of suppositories.
- **Pharmaceutical incompatibilities:** Definition, classification, physical, chemical and therapeutic incompatibilities with examples.

UNIV – V

07 Hours

- **Semisolid dosage forms:** Definitions, classification, mechanisms and factors influencing dermal penetration of drugs. Preparation of ointments, pastes, creams and gels. Excipients used in semi solid dosage forms. Evaluation of semi solid dosages forms



BP109P. PHARMACEUTICS I (Practical)

4 Hours / week

1. Syrups

- a) Syrup IP'66
- b) Compound syrup of Ferrous Phosphate BPC'68

2. Elixirs

- a) Piperazine citrate elixir
- b) Paracetamol pediatric elixir

3. Linctus

- a) Terpin Hydrate Linctus IP'66
- b) Iodine Throat Paint (Mandles Paint)

4. Solutions

- a) Strong solution of ammonium acetate
- b) Cresol with soap solution
- c) LugOL'S SOLUTION

5. Suspensions (Any two experiments)

- a) Calamine lotion
- b) Magnesium Hydroxide mixture
- c) Aluminium Hydroxide gel

6. Emulsions

- a) Turpentine Liniment
- b) Liquid paraffin emulsion

7. Powders and Granules (Any three experiments)

- a) ORS powder (WHO)
- b) Effervescent granules
- c) Dusting powder
- d) Divided powders

8. Suppositories (Any two experiments)

- a) Glycero gelatin suppository
- b) Coca butter suppository
- c) Zinc Oxide suppository

8. Semisolids (Any two experiments)

- a) Sulphur ointment
- b) Non staining-iodine ointment with methyl salicylate
- c) Carbopol gel



9. Gargles and Mouthwashes

- a) Iodine gargle
- b) Chlorhexidine mouthwash

Recommended Books:

1. H.C. Ansel et al., Pharmaceutical Dosage Form and Drug Delivery System, Lippincott Williams and Walkins, New Delhi.
2. Carter S.J., Cooper and Gunn's-Dispensing for Pharmaceutical Students, CBS publishers, New Delhi.
3. M.E. Aulton, Pharmaceutics, The Science & Dosage Form Design, Churchill Livingstone, Edinburgh.
4. Indian pharmacopocia.
5. British pharmacopocia.
6. Lachmann. Theory and Practice of Industrial Pharmacy, Lea & Febiger Publisher, The University of Michigan.
7. Alfonso R. Gennaro Remington. The Science and Practice of Pharmacy, Lippincott Williams, New Delhi.
8. Carter S.J., Cooper and Gunn's. Tutorial Pharmacy, CBS Publications, New Delhi.
9. E.A. Rawlins, Bentley's Text Book of Pharmaceutics, English Language Book Society, Elsevier Health Sciences, USA.
10. Isaac Ghebre Sellassie: Pharmaceutical Pelletization Technology, Marcel Dekker, INC, New York.
11. Dilip M. Parikh: Handbook of Pharmaceutical Granulation Technology, Marcel Dekker, INC, New York.
12. Francoise Nieloud and Gilberte Marti-Mestres: Pharmaceutical Emulsions and Suspensions, Marcel Dekker, INC, New York.



BP104T. PHARMACEUTICAL INORGANIC CHEMISTRY (Theory) 45 Hours

Scope

This subject deals with the concepts and monographs of inorganic drugs and pharmaceuticals.

Objectives

Upon completion of course student shall be able to

- Know the sources of impurities and methods to determine the impurities in drugs and pharmaceuticals
- Understand the medicinal and pharmaceutical importance of inorganic compounds

COURSE CONTENT

UNIT I

- a) **Impurities in pharmaceutical substances:** History of pharmacopoeia, sources and types of impurities, principle, reaction and procedure involved in the limit test for chloride, sulphate, iron, arsenic, lead and heavy metals, modified limit test for chloride and sulphate. **10 hours**
- b) **Water:** Different official waters and official control test for water.

General methods of preparation and assay for compounds superscripted with asterisk (*). Properties and Medicinal uses of Inorganic Compounds belonging to the following classes

UNIT II

- a) **Acids, Bases and Buffers:** Buffer equations and buffer capacity in general, buffers in pharmaceutical systems, preparation, stability, buffered isotonic solutions, measurements of tonicity, calculations and methods of adjusting isotonicity.
- b) **Major extra and intracellular electrolytes:** Functions of major physiological ions, Electrolytes used in the replacement therapy: Sodium chloride*, Potassium chloride, Calcium gluconate* and Oral Rehydration Salt (ORS), Physiological acid base balance. **10 hours**
- c) **Dental products:** Dentifrices, role of fluoride in the treatment of dental caries, Desensitizing agents, Calcium carbonate, Sodium fluoride, and Zinc eugenol cement.

UNIT III

- a) **Gastrointestinal agents**
- Acidifiers:** Ammonium chloride* and Dil. HCl
 - Antacid:** Ideal properties of antacids, combinations of antacids, Sodium Bicarbonate*, Aluminum hydroxide gel, Magnesium hydroxide mixture
 - Cathartics:** Magnesium sulphate, Sodium orthophosphate, **10 hours**
- b) **Protectives and Adsorbents:** Kaolin and Bentonite
- c) **Antimicrobials:** Mechanism, classification, Potassium permanganate, Boric acid, Hydrogen peroxide*, Chlorinated lime*, Iodine and its preparations



BP105T.COMMUNICATION SKILLS (Theory)

30hours

Scope: This course will prepare the young pharmacy student to interact effectively with doctors, nurses, dentists, physiotherapists and other health workers. At the end of this course the student will get the soft skills set to work cohesively with the team as a team player and will add value to the pharmaceutical business.

Objectives:

Upon completion of the course the student shall be able to

1. Understand the behavioral needs for a Pharmacist to function effectively in the areas of pharmaceutical operation
2. Communicate effectively (Verbal and Non Verbal)
3. Effectively manage the team as a team player
4. Develop interview skills
5. Develop Leadership qualities and essentials

COURSE CONTENT

UNIT – I

- **Communication Skills:** Introduction, Definition, The Importance of Communication, The Communication Process – Source, Message, Encoding, Channel, Decoding, Receiver, Feedback, Context
- **Barriers to communication:** Physiological Barriers, Physical Barriers, Cultural Barriers, Language Barriers, Gender Barriers, Interpersonal Barriers, Psychological Barriers, Emotional barriers
- **Perspectives in Communication:** Introduction, Visual Perception, Language, Other factors affecting our perspective - Past Experiences, Prejudices, Feelings, Environment

07 Hours

UNIT – II

- **Elements of Communication:** Introduction, Face to Face Communication - Tone of Voice, Body Language (Non-verbal communication), Verbal Communication, Physical Communication
- **Communication Styles:** Introduction, The Communication Styles Matrix with example for each -Direct Communication Style, Spirited Communication Style, Systematic c) Communication Style, Considerate Communication Style

07 Hours

UNIT – III

- **Basic Listening Skills:** Introduction, Self-Awareness, Active Listening, Becoming an Active Listener, Listening in Difficult Situations
- **Effective Written Communication:** Introduction, When and When Not to Use

07 Hours



Written

Communication - Complexity of the Topic, Amount of Discussion' Required,
Shades of

Meaning, Formal Communication

• **Writing Effectively:** Subject Lines, Put the Main Point First, Know Your
Audience,

d) Organization of the Message

UNIT – IV

• **Interview Skills:** Purpose of an interview, Do's and Dont's of an interview

• **Giving Presentations:** Dealing with Fears, Planning your Presentation,
Structuring Your

iv. Presentation, Delivering Your Presentation, Techniques of Delivery

05 Hours

UNIT – V

• **Group Discussion:** Introduction, Communication skills in group discussion,
Do's and

c) Dont's of group discussion.

04 Hours



BP111P.COMMUNICATION SKILLS (Practical)
2 Hours / week

The following learning modules are to be conducted using wordsworth® English language lab software

Basic communication covering the following topics

Meeting People
Asking Questions
Making Friends
What did you do?
Do's and Dont's

Pronunciations covering the following topics

Pronunciation (Consonant Sounds)
Pronunciation and Nouns
Pronunciation (Vowel Sounds)

Advanced Learning

Listening Comprehension / Direct and Indirect Speech
Figures of Speech
Effective Communication
Writing Skills
Effective Writing
Interview Handling Skills
E-Mail etiquette
Presentation Skills



Recommended Books: (Latest Edition)

1. Basic communication skills for Technology, Andreja. J. Ruther Ford, 2nd Edition, Pearson Education, 2011
2. Communication skills, Sanjay Kumar, Pushpalata, 1st Edition, Oxford Press, 2011
3. Organizational Behaviour, Stephen .P. Robbins, 1st Edition, Pearson, 2013
4. Brilliant- Communication skills, Gill Hasson, 1st Edition, Pearson Life, 2011
5. The Ace of Soft Skills: Attitude, Communication and Etiquette for success, Gopala Swamy Ramesh, 5th Edition, Pearson, 2013
6. Developing your influencing skills, Deborah Dalley, Lois Burton, Margaret, Green hall, 1st Edition Universe of Learning LTD, 2010
7. Communication skills for professionals, Konar nira, 2nd Edition, New arrivals –PHI, 2011
8. Personality development and soft skills, Barun K Mitra, 1st Edition, Oxford Press, 2011
9. Soft skill for everyone, Butter Field, 1st Edition, Cengage Learning india pvt.ltd, 2011
10. Soft skills and professional communication, Francis Peters SJ, 1st Edition, Mc Graw Hill Education, 2011
11. Effective communication, John Adair, 4th Edition, Pan Mac Millan, 2009
12. Bringing out the best in people, Aubrey Daniels, 2nd Edition, Mc Graw Hill, 1999



BP 106RBT.REMEDIAL BIOLOGY (Theory)

30 hours

Scope: To learn and understand the components of living world, structure and functional system of plant and animal kingdom.

Objectives: Upon completion of the course, the student shall be able to

- know the classification and salient features of five kingdoms of life
- understand the basic components of anatomy & physiology of plant
- know understand the basic components of anatomy & physiology animal with special reference to human

COURSE CONTENT

UNIT I

Living world:

- Definition and characters of living organisms
- Diversity in the living world
- Binomial nomenclature
- Five kingdoms of life and basis of classification. Salient features of Monera, Potista, Fungi, Animalia and Plantae, Virus,

07 Hours

Morphology of Flowering plants

- Morphology of different parts of flowering plants – Root, stem, inflorescence, flower, leaf, fruit, seed.
- General Anatomy of Root, stem, leaf of monocotyledons & Dicotylidons.

UNIT II

Body fluids and circulation

- Composition of blood, blood groups, coagulation of blood
- Composition and functions of lymph
- Human circulatory system
- Structure of human heart and blood vessels
- Cardiac cycle, cardiac output and ECG

Digestion and Absorption

- Human alimentary canal and digestive glands
- Role of digestive enzymes
- Digestion, absorption and assimilation of digested food

07 Hours

Breathing and respiration

- Human respiratory system
- Mechanism of breathing and its regulation
- Exchange of gases, transport of gases and regulation of respiration
- Respiratory volumes

UNIT III

Excretory products and their elimination

- Modes of excretion

07 Hours



- Human excretory system- structure and function
- Urine formation
- Rennin angiotensin system

Neural control and coordination

- Definition and classification of nervous system
- Structure of a neuron
- Generation and conduction of nerve impulse
- Structure of brain and spinal cord
- Functions of cerebrum, cerebellum, hypothalamus and medulla oblongata

Chemical coordination and regulation

- Endocrine glands and their secretions
- Functions of hormones secreted by endocrine glands

Human reproduction

- Parts of female reproductive system
- Parts of male reproductive system
- Spermatogenesis and Oogenesis
- Menstrual cycle

UNIT IV

Plants and mineral nutrition:

- Essential mineral, macro and micronutrients
- Nitrogen metabolism, Nitrogen cycle, biological nitrogen fixation

05 Hours

Photosynthesis

- Autotrophic nutrition, photosynthesis, Photosynthetic pigments, Factors affecting photosynthesis

UNIT V

Plant respiration:Respiration, glycolysis, fermentation (anaerobic).

Plant growth and development

- Phases and rate of plant growth, Condition of growth,Introduction to plant growth regulators

04 Hours

Cell - The unit of life

- Structure and functions of cell and cell organelles.Cell division

Tissues

Definition, types of tissues, location and functions.

Text Books

1. Text book of Biology by S. B. Gokhale
2. A Text book of Biology by Dr. Thulajappa and Dr. Seetaram.

Reference Books

1. A Text book of Biology by B.V. Sreenivasa Naidu
2. A Text book of Biology by Naidu and Murthy
3. Botany for Degree students By A.C.Dutta.
4. Outlines of Zoology byM. Ekambaranatha ayyer and T. N. Ananthkrishnan.
5. A manual for pharmaceutical biology practical by S.B. Gokhale and C. K. Kokate



BP112RBP.REMEDIAL BIOLOGY (Practical)
2 Hours/week

1. Introduction to experiments in biology
 - a) Study of Microscope
 - b) Section cutting techniques
 - c) Mounting and staining
 - d) Permanent slide preparation
2. Study of cell and its inclusions
3. Study of Stem, Root, Leaf, seed, fruit, flower and their modifications
4. Detailed study of frog by using computer models
5. Microscopic study and identification of tissues pertinent to Stem, Root Leaf, seed, fruit and flower
6. Identification of bones
7. Determination of blood group
8. Determination of blood pressure
9. Determination of tidal volume

Reference Books

1. Practical human anatomy and physiology. by S.R.Kale and R.R.Kale.
2. A Manual of pharmaceutical biology practical by S.B.Gokhale, C.K.Kokate and S.P.Shriwastava.
3. Biology practical manual according to National core curriculum .Biology forum of Karnataka. Prof .M.J.H.Shafi



BP 201T. HUMAN ANATOMY AND PHYSIOLOGY-II (Theory) 45 Hours

Scope: This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

Objectives: Upon completion of this course the student should be able to:

1. Explain the gross morphology, structure and functions of various organs of the human body.
2. Describe the various homeostatic mechanisms and their imbalances.
3. Identify the various tissues and organs of different systems of human body.
4. Perform the hematological tests like blood cell counts, haemoglobin estimation, bleeding/clotting time etc. and also record blood pressure, heart rate, pulse and respiratory volume.
5. Appreciate coordinated working pattern of different organs of each system
6. Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body.

Course Content:

Unit-I	Nervous system	10 hours
	Organization of nervous system, neuron, neuroglia, classification and properties of nerve fiber, electrophysiology, action potential, nerve impulse, receptors, synapse, neurotransmitters. Central nervous system: Meninges, ventricles of brain and cerebrospinal fluid. structure and functions of brain (cerebrum, brain stem, cerebellum), spinal cord (gross structure, functions of afferent and efferent nerve tracts, reflex activity)	
Unit -II	Digestive system	08hours
	Anatomy of GI Tract with special reference to anatomy and functions of stomach, (Acid production in the stomach, regulation of acid production through parasympathetic nervous system, pepsin role in protein digestion) small intestine and large intestine, anatomy and functions of salivary glands, pancreas and liver, movements of GIT, digestion and absorption of nutrients and disorders of GIT. Energetics: Formation and role of ATP, Creatinine Phosphate and BMR.	
Unit-III	Respiratory system	10 hours
	Anatomy of respiratory system with special reference to anatomy of lungs, mechanism of respiration, regulation of respiration Lung Volumes	6 hours



	and capacities transport of respiratory gases, artificial respiration, and resuscitation methods.	
	Urinary system	4 hours
	Anatomy of urinary tract with special reference to anatomy of kidney and nephrons, functions of kidney and urinary tract, physiology of urine formation, micturition reflex and role of kidneys in acid base balance, role of RAS in kidney and disorders of kidney.	
Unit-IV		08 hours
	Endocrine system	
	Classification of hormones, mechanism of hormone action, structure and functions of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas, pineal gland, thymus and their disorders.	
Unit-V		09 hours
	Reproductive system	07 Hours
	Anatomy of male and female reproductive system, Functions of male and female reproductive system, sex hormones, physiology of menstruation, fertilization, spermatogenesis, oogenesis, pregnancy and parturition	
	Introduction to genetics	02 hours
	Chromosomes, genes and DNA, protein synthesis, genetic pattern of inheritance	

Recommended Books

1. Essentials of Medical Physiology by K. Sembulingam and P. Sembulingam. Jaypee brothers medical publishers, New Delhi.
2. Anatomy and Physiology in Health and Illness by Kathleen J.W. Wilson, Churchill Livingstone, New York
3. Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co, Riverview,MI USA
4. Text book of Medical Physiology- Arthur C. Guyton and John.E. Hall. Miamisburg, OH, U.S.A.
5. Principles of Anatomy and Physiology by Tortora Grabowski. Palmetto, GA, U.S.A.
6. Textbook of Human Histology by Inderbir Singh, Jaypee brothers medical publishers, New Delhi.
7. Textbook of Practical Physiology by C.L. Ghai, Jaypee brothers medical publishers, New Delhi.
8. Practical workbook of Human Physiology by K. Srinageswari and Rajeev Sharma, Jaypee brother's medical publishers, New Delhi.



9. Physiological basis of Medical Practice-Best and Taylor. Williams & Wilkins Co, Riverview, MI USA
10. Text book of Medical Physiology- Arthur C. Guyton and John. E. Hall. Miamisburg, OH, U.S.A.
11. Human Physiology (vol 1 and 2) by Dr. C.C. Chatterje ,Academic Publishers Kolkata

BP 207 P. HUMAN ANATOMY AND PHYSIOLOGY (Practical)

4 Hours/week

Practical physiology is complimentary to the theoretical discussions in physiology. Practicals allow the verification of physiological processes discussed in theory classes through experiments on living tissue, intact animals or normal human beings. This is helpful for developing an insight on the subject.

1. To study the integumentary and special senses using specimen, models, etc.,
2. To determine the Platelet count.
3. To perform the differential leukocyte count (DLC).
4. To determine the Arneht index.
5. Determination of osmotic fragility of RBCs.
6. To study the nervous system using specimen, models, etc.,
7. To study the endocrine system using specimen, models, etc
8. To demonstrate the general neurological examination
9. To demonstrate the function of olfactory nerve
10. To examine the different types of taste.
11. To demonstrate the visual acuity
12. To demonstrate the reflex activity
13. Recording of body temperature
14. To demonstrate positive and negative feedback mechanism.
15. Determination of tidal volume and vital capacity.
16. Study of Digestive, respiratory, cardiovascular systems, urinary and reproductive systems with the help of models, charts and specimens.
17. Recording of basal mass index.
18. Study of familyplanning devices and pregnancy diagnosis test.



19. Demonstration of total blood count by cell analyzer.
20. Permanent slides of vital organs and gonads.
21. Visit to Hospital/ Pathology Laboratory.

Recommended Books:

1. Godkar P.B and Godkar D.P., Textbook of Medical Laboratory Technology. Bhalani Publishing House, Mumbai.
2. Joshi V.D. Practical Physiology. Vora Medical Publications, Mumbai.
3. DiFiore-Mariano S.H., Atlas of Human Histology. Lea and Febiger, Philadelphia.
4. Mukherjee, K.L., Medical Laboratory Technology. Tata McGraw Hill Publishing Company Ltd. New Delhi.
5. Beck, W.S., Human Design: Molecular, Cellular and Systemic Physiology. Harcourt Brace Jovanovich Inc. New York.
6. Chatterjee, C.C., Human Physiology. Medical Allied Agency, Kolkata.
7. Ganong, W.F., Review of Medical Physiology. Prentice-Hall International, London.
8. Guyton, A.C., Textbook of Medical Physiology. W. B. Saunders Co., Philadelphia, USA.
9. Tortora, G.J. and Grabowski, S.R., 2005.
10. Principles of Anatomy and Physiology. Harper Collins College Publishers, New York.
11. Vander, A.J., Sherman, J.H. and Luciano, D.S., Human Physiology. McGraw-Hill Publishing Co., USA.
12. Garg K., Bahel I. and Kaul M., A Textbook of Histology. CBS Publishers and Distributors, New Delhi.
13. Practical workbook of Human Physiology by K. Srinageswari and Rajeev Sharma, Jaypee Brother's medical publishers, New Delhi.



BP 204T. PATHOPHYSIOLOGY (THEORY)

45Hours

Scope: Pathophysiology is the study of causes of diseases and reactions of the body to such disease producing causes. This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge required to practice medicine safely, confidently, rationally and effectively. Pharmacotherapy of drugs is particularly not to be considered as a part of this subject from examination point of view as the subject deals with pathophysiological aspects of the diseases.

Objectives: Upon completion of the subject, student shall be able to –

1. Describe the etiology and pathogenesis of the selected disease states;
2. Name the signs and symptoms of the diseases

Unit-I	Basic principles of Cell injury and Adaptation Introduction & definitions Causes of cellular injury, Pathogenesis (Cell membrane damage, Mitochondrial damage, Ribosome damage, Nuclear damage), Morphology of cell injury – Adaptive changes (Atrophy, Hypertrophy, Hyperplasia, Metaplasia, Dysplasia), Cell swelling, Intracellular accumulation, Calcification, Enzyme leakage and cell death, acidosis and alkalosis, Electrolyte imbalance Basic mechanism involved in the process of inflammation and repair Introduction, Clinical signs of inflammation, Different types of Inflammation, Mechanism of Inflammation – Alteration in vascular permeability and blood flow, migration of WBC's, Mediators of inflammation, Basic principles of wound healing in the skin	10 Hrs
Unit -II.	Cardiovascular System: Hypertension, Congestive heart failure, Ischemic heart diseases (angina, myocardial infarction, atherosclerosis and arteriosclerosis) Respiratory system: Asthma, Chronic obstructive airways diseases Renal system: Acute and chronic renal failure	10 Hrs
Unit-III	Haematological Diseases: Iron deficiency anaemia, Megaloblastic anaemia (Vit B12 and folic acid), Sickle cell anemia, Thalassemia, Hereditary acquired anemia, Hemophilia Endocrine system: Diabetes, Thyroid diseases (Hypothyroidism, hyperthyroidism, Goitre) Disorders of sex hormones (Amenorrhoea, polycystic ovarian syndrome, hypogonadism) Nervous system:	12 Hrs



	Epilepsy, Parkinson's disease, Stroke, Psychiatric disorders: Depression, Schizophrenia and Alzheimer's disease	
	Gastrointestinal system: Peptic Ulcer, Inflammatory Bowel Diseases, Jaundice, Hepatitis (A,B,C,D,E,F), Alcoholic liver disease	
Unit-IV	Diseases of bones and joints Rheumatoid Arthritis, Osteoporosis, Gout	06 Hrs
Unit-V	Cancer: Classification, etiology and pathogenesis of cancer Infectious diseases Tuberculosis, Leprosy, Malaria, Dengue, Meningitis, Typhoid, Urinary tract infections Sexually transmitted diseases AIDS, Syphilis, Gonorrhoea	07 Hrs

REFERENCES:

1. Vinay Kumar, Abul K. Abas, Jon C. Aster; Robbins & Cotran Pathologic Basis of Disease; South Asia edition; India; Elsevier; 2014.
2. Harsh Mohan; Text book of Pathology; 6th edition; India; Jaypee Publications; 2010.
3. Laurence B, Bruce C, Bjorn K. ; Goodman Gilman's The Pharmacological Basis of Therapeutics; 12th edition; New York; McGraw-Hill; 2011.
4. Best, Charles Herbert 1899-1978; Taylor, Norman Burke 1885-1972; West, John B (John Burnard); Best and Taylor's Physiological basis of medical practice; 12th ed; united states.
5. William and Wilkins, Baltimore; 1991 [1990 printing].
6. Nicki R. Colledge, Brian R. Walker, Stuart H. Ralston; Davidson's Principles and Practice of Medicine; 21st edition; London; ELBS/Churchill Livingstone; 2010.
7. Guyton A, John .E Hall; Textbook of Medical Physiology; 12th edition; WB Saunders Company; 2010.
8. Joseph DiPiro, Robert L. Talbert, Gary Yee, Barbara Wells, L. Michael Posey; Pharmacotherapy: A Pathophysiological Approach; 9th edition; London; McGraw-Hill Medical; 2014.
9. V. Kumar, R. S. Cotran and S. L. Robbins; Basic Pathology; 6th edition; Philadelphia; WB Saunders Company; 1997.
10. Roger Walker, Clive Edwards; Clinical Pharmacy and Therapeutics; 3rd edition; London; Churchill Livingstone publication; 2003.



BP205 T. COMPUTER APPLICATIONS IN PHARMACY (Theory) 30 Hrs

Scope: This subject deals with the introduction Database, Database Management system, computer application in clinical studies and use of databases.

Objectives: Upon completion of the course the student shall be able to

1. know the various types of application of computers in pharmacy
2. know the various types of databases
3. know the various applications of databases in pharmacy

COURSE CONTENT

UNIT – I

Number system: Binary number system, Decimal number system, Octal number system, Hexadecimal number systems, conversion decimal to binary, binary to decimal, octal to binary etc, binary addition, binary subtraction – One's complement, Two's complement method, binary multiplication, binary division **06 hours**

Concept of Information Systems and Software : Information gathering, requirement and feasibility analysis, data flow diagrams, process specifications, input/output design, process life cycle, planning and managing the project

UNIT –II

Web technologies: Introduction to HTML, XML, CSS and Programming languages, introduction to web servers and Server Products Introduction to databases, MYSQL, MS ACCESS, Pharmacy Drug database **06 hours**

UNIT – III

Application of computers in Pharmacy – Drug information storage and retrieval, Pharmacokinetics, Mathematical model in Drug design, Hospital and Clinical Pharmacy, Electronic Prescribing and discharge (EP) systems, barcode medicine identification and automated dispensing of drugs, mobile technology and adherence monitoring Diagnostic System, Lab-diagnostic System, Patient Monitoring System, Pharma Information System **06 hours**

UNIT – IV

Bioinformatics: Introduction, Objective of Bioinformatics, Bioinformatics Databases, Concept of Bioinformatics, Impact of Bioinformatics in Vaccine Discovery. **06 hours**

UNIT-V

Computers as data analysis in Preclinical development: Chromatographic data analysis(CDS), Laboratory Information management System (LIMS) and Text Information Management System(TIMs) **06 hours**



BP210P. COMPUTER APPLICATIONS IN PHARMACY (Practical)

1. Design a questionnaire using a word processing package to gather information about a particular disease.
2. Create a HTML web page to show personal information.
- 3 Retrieve the information of a drug and its adverse effects using online tools
- 4 Creating mailing labels Using Label Wizard , generating label in MS WORD
- 5 Create a database in MS Access to store the patient information with the required fields Using access
6. Design a form in MS Access to view, add, delete and modify the patient record in the database
7. Generating report and printing the report from patient database
8. Creating invoice table using – MS Access
9. Drug information storage and retrieval using MS Access
10. Creating and working with queries in MS Access
11. Exporting Tables, Queries, Forms and Reports to web pages
12. Exporting Tables, Queries, Forms and Reports to XML pages

Recommended books :

1. Computer Application in Pharmacy – William E.Fassett –Lea and Febiger, 600 South Washington Square, USA, (215) 922-1330.
2. Computer Application in Pharmaceutical Research and Development –Sean Ekins – Wiley-Interscience, A John Willey and Sons, INC., Publication, USA
3. Bioinformatics (Concept, Skills and Applications) – S.C.Rastogi-CBS Publishers and Distributors, 4596/1- A, 11 Darya Gani, New Delhi – 110 002(INDIA)
4. Microsoft office Access - 2003, Application Development Using VBA, SQL Server, DAP and Infopath – Cary N.Prague – Wiley Dreamtech India (P) Ltd., 4435/7, Ansari Road, Daryagani, New Delhi – 110002



BP 206 T. ENVIRONMENTAL SCIENCES (Theory)

30 hours

Scope: Environmental Sciences is the scientific study of the environmental system and the status of its inherent or induced changes on organisms. It includes not only the study of physical and biological characters of the environment but also the social and cultural factors and the impact of man on environment.

Objectives: Upon completion of the course the student shall be able to:

1. Create the awareness about environmental problems among learners.
2. Impart basic knowledge about the environment and its allied problems.
3. Develop an attitude of concern for the environment.
4. Motivate learner to participate in environment protection and environment improvement.
5. Acquire skills to help the concerned individuals in identifying and solving environmental problems.
6. Strive to attain harmony with Nature.

COURSE CONTENT

Unit-I

The Multidisciplinary nature of environmental studies **Natural Resources Renewable and non-renewable resources:**

10hours

Natural resources and associated problems

a) Forest resources; b) Water resources; c) Mineral resources; d) Food resources; e) Energy resources; f) Land resources: Role of an individual in conservation of natural resources

Unit-II

Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Introduction, types, characteristic features, structure and function of the ecosystems: Forest ecosystem; Grassland ecosystem; Desert ecosystem; Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

10hours

Unit- III

Environmental Pollution: Air pollution; Water pollution; Soil pollution

10 hours

Recommended Books:

1. Y.K. Sing, Environmental Science, New Age International Pvt, Publishers, Bangalore
2. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
3. Bharucha Erach, The Biodiversity of India, Mapin Pu blishing Pvt. Ltd., Ahmedabad – 380 013, India,
4. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
5. Clark R.S., Marine Pollution, Clanderson Press Oxford
6. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
7. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
8. Down of Earth, Centre for Science and Environment



Common subjects for all specializations except for Pharmaceutical Regulatory Affairs (MRA) and Pharmacy Practice (MPP)

MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES (Theory) 60 hours
(MPAT101T)

Scope

This subject deals with various advanced analytical instrumental techniques for identification, characterization and quantification of drugs.

Instruments dealt are UV, IR, NMR, Mass spectrometer, HPLC, GC etc.

Simple structure elucidation problems may be included based on UV-IR-NMR data.

Objectives

Upon completion of the course the student shall be able to

- Analytical techniques for identification, characterization and quantification of drugs
- Theoretical and practical skills of instrument handling and use.
- Structural Elucidation of organic compounds using spectroscopic tools

UNIT-I

- a) **UV-Visible spectroscopy:** Introduction, Theory, Laws, Instrumentation associated with UV-Visible spectroscopy, Choice of solvents and solvent effect and Applications of UV Visible spectroscopy.
- b) **IR spectroscopy:** Theory, Modes of Molecular vibrations, Sample handling, Instrumentation of Dispersive and Fourier - Transform IR Spectrometer, Factors affecting vibrational frequencies and Applications of IR spectroscopy, Data Interpretation. **10 hrs**
- c) **Spectrofluorimetry:** Theory of Fluorescence, Factors affecting fluorescence, Quenchers, Instrumentation and Applications of fluorescence spectroscopy.
- d) **Flame emission spectroscopy and Atomic absorption spectroscopy:** Principle, Instrumentation, Interferences and Applications.

UNIT-II

- **NMR spectroscopy:** Quantum numbers and their role in NMR, Principle, Instrumentation, Solvent requirement in NMR, Relaxation process, NMR signals in various compounds, Chemical shift, Factors influencing chemical shift, Spin-Spin coupling, Coupling constant, Nuclear magnetic double resonance, Brief outline of principles of FT-NMR and ¹³C NMR. Applications of NMR spectroscopy. **10 hrs**

UNIT-III

- **Mass Spectrometry:** Principle, Theory, Instrumentation of Mass Spectrometry, Different types of ionization like electron impact, chemical, field, FAB and MALDI, APCI, ESI, APPI Analyzers of Quadrupole and Time of Flight, Mass fragmentation and its rules, Meta stable ions, Isotopic peaks and Applications of Mass spectrometry **12 hrs**
- **Simple structure elucidation problems based on UV, IR, NMR and Mass data.**

UNIT-IV

- Chromatography:** Principle, instrumentation, chromatographic parameters, factors affecting resolution and applications of the following: **10 hrs**
- a) High Performance Liquid chromatography
 - b) High Performance Thin Layer Chromatography
 - c) Ion exchange chromatography



PES MODERN COLLEGE OF PHARMACY
(NBA Accredited) (FOR LADIES)

Approved by AICTE, New Delhi (F.No.06/07/MS/PHARMA/2004/047, DTE.Mumbai (2/NGC/2004/342)
Government of Maharashtra No. TEM/2004(235/04) TE-1, Pharmacy Council of India (32-347/2012-PC),
Permanently affiliated to Savitribai Phule Pune University, ID No. PUPN/Pharmacy/200/2004



PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

There is provision for re-totaling and revaluation of the answer papers in any examination. The candidates can apply for revaluation/ re-totaling by paying prescribed fee.

26. Re-admission after break of study

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condonation fee.



MODERN PHARMACEUTICS
(MPH 103T)

Scope

Course designed to impart advanced knowledge and skills required to learn various aspects and concepts at pharmaceutical industries

Objectives

Upon completion of the course, student shall be able to understand

- The elements of preformulation studies.
- The Active Pharmaceutical Ingredients and Generic drug Product development
- Industrial Management and GMP Considerations.
- Optimization Techniques & Pilot Plant Scale Up Techniques
- Stability Testing, sterilization process & packaging of dosage forms.

THEORY

60 HRS

1. Preformation Concepts – Drug Excipient interactions - different methods, kinetics of stability, Stability testing. Theories of dispersion and pharmaceutical Dispersion (Emulsion and Suspension, SMEDDS) preparation and stability. Large and small volume parental – physiological and formulation consideration, Manufacturing and evaluation. **12 Hrs**
2. Optimization techniques in Pharmaceutical Formulation: Concept and parameters of optimization, Optimization techniques in pharmaceutical formulation and processing. Statistical design, Response surface method, Contour designs, Factorial designs and application in formulation. **10 Hrs**
3. Validation : Introduction to Pharmaceutical Validation, Scope & merits of Validation, ICH & WHO guidelines for validation of equipments, Validation of cone blender, mixer granulator and tablet compression machine, URS, DQ, IQ, OQ & P.Q. of facilities, Types of process validation. Process validation of any one dosage form. Technology transfer from R & D to pilot plant to plant scale. **12 Hrs**
4. GMP & Industrial Management: Objectives and policies of current good manufacturing practices, layout of buildings, services, equipments and their maintenance Production management: Production organization, materials management, handling and transportation, inventory management and control, production and planning control, Sales forecasting, budget and cost control, industrial and personal relationship. Concept of Total Quality Management. **10 Hrs**
5. Compression and compaction: Physics of tablet compression, compression, consolidation, effect of friction, distribution of forces, compaction profiles, Study of consolidation parameters, Heckel plots. **10 Hrs**
6. Diffusion parameters, Dissolution parameters and Pharmacokinetic parameters, Similarity factors – t_2 and f_1 , Disolution models including Higuchi, Peppas plot, zero order, first order and Hixson Crowell. **06 Hrs**



REGULATORY AFFAIRS
(MPH 104T)

SCOPE

Course designed to impart advanced knowledge and skills required to learn the concept of generic drug and their development, various regulatory filings in different countries, different phases of clinical trials and submitting regulatory documents: filing process of IND, NDA and ANDA

- To know the approval process of
- To know the chemistry, manufacturing controls and their regulatory importance
- To learn the documentation requirements for
- To learn the importance and

OBJECTIVES

Upon completion of the course, it is expected that the students will be able to understand

- The Concepts of innovator and generic drugs, drug development process
- The Regulatory guidance's and guidelines for filing and approval process
- Preparation of Dossiers and their submission to regulatory agencies in different countries
- Post approval regulatory requirements for actives and drug products
- Submission of global documents in CTD/ eCTD formats
- Clinical trials requirements for approvals for conducting clinical trials
- Pharmacovigilence and process of monitoring in clinical trials.

THEORY

60 Hrs

1. a) Documentation in Pharmaceutical industry: Master formula record, DMF (Drug Master File), distribution records. Generic drugs product development Introduction, Hatch-Waxman act and amendments, CFR (CODE OF FEDERAL REGULATION), drug product performance, in-vitro, ANDA regulatory approval process, NDA approval process, BE and drug product assessment, in-vivo, scale up process approval changes, post marketing surveillance, outsourcing BA and BE to CRO. **12 Hrs**
b) Regulatory requirement for product approval: API, biologics, novel, therapies obtaining NDA, ANDA for generic drugs ways and means of US registration for foreign drugs. **12 Hrs**
2. CMC, post approval regulatory affairs. Regulation for combination products and medical devices. CTD and ECTD format, industry and FDA liaison. ICH – Guidelines of ICH-Q, S E, M. Regulatory requirements of EU, MHRA, TGA and ROW countries. **12 Hrs**
3. Non clinical drug development: Global submission of IND, NDA, ANDA. Investigation of medicinal products dossier, dossier (IMPD) and investigator brochure (IB). **12 Hrs**



- Clinical trials: Developing clinical trial protocols. Institutional review board/independent ethics committee Formulation and working procedures informed Consent process and procedures. HIPAA – new, requirement to clinical study process, pharmacovigilance safety monitoring in clinical trials. **12 Hrs**

REFERENCES

- Generic Drug Product Development, Solid Oral Dosage forms, Leon Shargel and IsaderKaufer,Marcel Dekker series, Vol.143
- The Pharmaceutical Regulatory Process, Second Edition Edited by Ira R. Berry and Robert P.Martin, Drugs and the Pharmaceutical Sciences,Vol.185, Informa Health care Publishers.
- New Drug Approval Process: Accelerating Global Registrations By Richard A Guarino, MD,5th edition, Drugs and the Pharmaceutical Sciences,Vol.190.
- Guidebook for drug regulatory submissions / Sandy Weinberg. By John Wiley & Sons.Inc.
- FDA regulatory affairs: a guide for prescription drugs, medical devices, and biologics/edited By Douglas J. Pisano, David Mantus.
- Clinical Trials and Human Research: A Practical Guide to Regulatory Compliance By Fay A.Rozovsky and Rodney K. Adams
- www.ich.org/
- www.fda.gov/
- europa.eu/index_en.htm
- <https://www.tga.gov.au/tga-basics>



PHARMACEUTICS PRACTICALS – I
(MPH 105P)

1. Analysis of pharmacopoeial compounds and their formulations by UV Vis spectrophotometer
2. Simultaneous estimation of multi component containing formulations by UV spectrophotometry
3. Experiments based on HPLC
4. Experiments based on Gas Chromatography
5. Estimation of riboflavin/quinine sulphate by fluorimetry
6. Estimation of sodium/potassium by flame photometry
7. To perform In-vitro dissolution profile of CR/ SR marketed formulation
8. Formulation and evaluation of sustained release matrix tablets
9. Formulation and evaluation osmotically controlled DDS
10. Preparation and evaluation of Floating DDS– hydro dynamically balanced DDS
11. Formulation and evaluation of Muco adhesive tablets.
12. Formulation and evaluation of Trans dermal patches.
13. To carry out preformulation studies of tablets.
14. To study the effect of compressional force on tablets disintegration time.
15. To study Micromeritic properties of powders and granulation.
16. To study the effect of particle size on dissolution of a tablet.
17. To study the effect of binders on dissolution of a tablet.
18. To plot Heckal plot, Higuchi and peppas plot and determine similarity factors.



**MOLECULAR PHARMACEUTICS
(NANO TECHNOLOGY & TARGETED DDS) (NTDS)
(MPH 201T)**

SCOPE

This course is designed to impart knowledge on the area of advances in novel drug delivery systems.

OBJECTIVES

Upon completion of the course student shall be able to understand

- The various approaches for development of novel drug delivery systems.
- The criteria for selection of drugs and polymers for the development of NTDS
- The formulation and evaluation of novel drug delivery systems.

THEORY

60 Hrs

1. Targeted Drug Delivery Systems: Concepts, Events and biological process involved in drug targeting. Tumor targeting and Brain specific delivery. **12 Hrs**
2. Targeting Methods: introduction preparation and evaluation. Nano Particles & Liposomes: Types, preparation and evaluation **12 Hrs**
3. Micro Capsules / Micro Spheres: Types, preparation and evaluation, Monoclonal Antibodies ; preparation and application, preparation and application of Niosomes, Aquasomes, Phytosomes, Electrosomes. **12 Hrs**
4. Pulmonary Drug Delivery Systems : Aerosols, propellents, ContainersTypes, preparation and evaluation, Intra Nasal Route Delivery systems; Types, preparation and evaluation. **12 Hrs**
5. Nucleic acid based therapeutic delivery system : Gene therapy, introduction (ex-vivo & in-vivo gene therapy). Potential target diseases for gene therapy (inherited disorder and cancer). Gene expression systems (viral and nonviral gene transfer). Liposomal gene delivery systems. **12 Hrs**
6. Biodistribution and Pharmacokinetics. knowledge of therapeutic antisense molecules and aptamers as drugs of future. **12 Hrs**

REFERENCES

1. Y W. Chien, Novel Drug Delivery Systems, 2nd edition, revised and expanded, Marcel Dekker, Inc., New York, 1992.
2. S.P.Vyas and R.K.Khar, Controlled Drug Delivery – concepts and advances, VallabhPrakashan, New Delhi, First edition 2002.
3. N.K. Jain, Controlled and Novel Drug Delivery, CBS Publishers & Distributors, NewDelhi, First edition 1997 (reprint in 2001).



ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS
(MPH 202T)

SCOPE

This course is designed to impart knowledge and skills necessary for dose calculations, dose adjustments and to apply biopharmaceutics theories in practical problem solving. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided to help the students' to clarify the concepts.

OBJECTIVES

Upon completion of this course it is expected that students will be able understand,

- The basic concepts in biopharmaceutics and pharmacokinetics.
- The use raw data and derive the pharmacokinetic models and parameters the best describe the process of drug absorption, distribution, metabolism and elimination.
- The critical evaluation of biopharmaceutic studies involving drug product equivalency.
- The design and evaluation of dosage regimens of the drugs using pharmacokinetic and biopharmaceutic parameters.
- The potential clinical pharmacokinetic problems and application of basics of pharmacokinetic

THEORY

60 Hrs

1. Drug Absorption from the Gastrointestinal Tract: Gastrointestinal tract, Mechanism of drug absorption, Factors affecting drug absorption, pH-partition theory of drug absorption. Formulation and physicochemical factors: Dissolution rate, Dissolution process, Noyes-Whitney equation and drug dissolution, Factors affecting the dissolution rate. Gastrointestinal absorption: role of the dosage form: Solution (elixir, syrup and solution) as a dosage form, Suspension as a dosage form, Capsule as a dosage form, Tablet as a dosage form, Dissolution methods, Formulation and processing factors, Correlation of in vivo data with in vitro dissolution data. Transport model: Permeability-Solubility-Charge State and the pH Partition Hypothesis, Properties of the Gastrointestinal Tract (GIT), pH Microclimate Intracellular pH Environment, Tight-Junction Complex. **12 Hrs**
2. Biopharmaceutic considerations in drug product design and In Vitro Drug Product Performance: Introduction, biopharmaceutic factors affecting drug bioavailability, rate-limiting steps in drug absorption, physicochemical nature of the drug formulation factors affecting drug product performance, in vitro: dissolution and drug release testing, compendial methods of dissolution, alternative methods of dissolution testing, meeting dissolution requirements, problems of variable control in dissolution testing, performance of drug products. In vitro-in vivo correlation, dissolution profile comparisons, drug product stability, considerations in the design of a drug product. **12 Hrs**
3. Pharmacokinetics: Basic considerations, pharmacokinetic models, compartment modeling: one compartment model- IV bolus, IV infusion, extra-vascular, Multi compartment model: two compartment - model in brief, non-linear pharmacokinetics: cause of non-linearity, Michaelis - Menten equation, estimation of k_{max} and v_{max} . Drug interactions: introduction, the effect of protein-binding interactions, the effect of tissue-binding interactions, cytochrome p450-based drug interactions, drug interactions linked to



transporters.

12 Hrs

4. Drug Product Performance, In Vivo: Bioavailability and Bioequivalence: drug product performance, purpose of bioavailability studies, relative and absolute availability, methods for assessing bioavailability, bioequivalence studies, design and evaluation of bioequivalence studies, study designs, crossover study designs, evaluation of the data, bioequivalence example, study submission and drug review process. biopharmaceutics classification system, methods. Permeability: In-vitro, in-situ and In-vivo methods. generic biologics (biosimilar drug products), clinical significance of bioequivalence studies, special concerns in bioavailability and bioequivalence studies, generic substitution.

12 Hrs

5. Application of Pharmacokinetics: Modified-Release Drug Products, Targeted Drug Delivery Systems and Biotechnological Products. Introduction to Pharmacokinetics and pharmacodynamic, drug interactions. Pharmacokinetics and pharmacodynamics of biotechnology drugs. Introduction, Proteins and peptides, Monoclonal antibodies, Oligonucleotides, Vaccines (immunotherapy), Gene therapies.

12 Hrs

REFERENCES

1. Biopharmaceutics and Clinical Pharmacokinetics by Milo Gibaldi, 4th edition, Philadelphia, Lea and Febiger, 1991
2. Biopharmaceutics and Pharmacokinetics, A Treatise, D .M. Brahmankar and Sunil B. Jaiswal., VallabPrakashan, Pitampura, Delhi
3. Applied Biopharmaceutics and Pharmacokinetics by Shargel. Land YuABC, 2nd edition, Connecticut Appleton Century Crofts, 1985
4. Textbook of Biopharmaceutics and Pharmacokinetics, Dr. Shobha Rani R. Hiremath, Prism Book
5. Pharmacokinetics by Milo Gibaldi and D. Perrier, 2nd edition, Marcel Dekker Inc., New York, 1982
6. Current Concepts in Pharmaceutical Sciences: Biopharmaceutics, Swarbrick. J, Lea and Febiger, Philadelphia, 1970
7. Clinical Pharmacokinetics, Concepts and Applications 3rd edition by Malcolm Rowland and Thom- N. Tozer, Lea and Febiger, Philadelphia, 1995
8. Dissolution, Bioavailability and Bioequivalence, Abdou. H.M, Mack Publishing Company, Pennsylvania 1989
9. Biopharmaceutics and Clinical Pharmacokinetics, An Introduction, 4th edition, revised and expanded by Robert. E. Notari, Marcel Dekker Inc, New York and Basel, 1987.
10. Biopharmaceutics and Relevant Pharmacokinetics by John. G Wagner and M.Pemarowski, 1st edition, Drug Intelligence Publications, Hamilton, Illinois, 1971.
11. Encyclopedia of Pharmaceutical Technology, Vol 13, James Swarbrick, James. G. Boylan, Marcel Dekker Inc, New York, 1996.
12. Basic Pharmacokinetics, 1st edition, Sunil S Jambhekar and Philip J Breen, pharmaceutical press, RPS Publishing, 2009.
13. Absorption and Drug Development- Solubility, Permeability, and Charge State, Alex Avdeef, John Wiley & Sons, Inc, 2003.



COMPUTER AIDED DRUG DEVELOPMENT
(MPH 203T)

SCOPE

This course is designed to impart knowledge and skills necessary for computer Applications in pharmaceutical research and development who want to understand the application of computers across the entire drug research and development process. Basic theoretical discussions of the principles of more integrated and coherent use of computerized information (informatics) in the drug development process are provided to help the students to clarify the concepts.

OBJECTIVES

Upon completion of this course it is expected that students will be able to understand,

- History of Computers in Pharmaceutical Research and Development
- Computational Modeling of Drug Disposition
- Computers in Preclinical Development
- Optimization Techniques in Pharmaceutical Formulation
- Computers in Market Analysis
- Computers in Clinical Development
- Artificial Intelligence (AI) and Robotics
- Computational fluid dynamics(CFD)

THEORY

60 Hrs

1. a) Computers in Pharmaceutical Research and Development: A General Overview: History of Computers in Pharmaceutical Research and Development. Statistical modeling in Pharmaceutical research and development: Descriptive versus Mechanistic Modeling, Statistical Parameters, Estimation, Confidence Regions, Nonlinearity at the Optimum, Sensitivity Analysis, Optimal Design, Population Modeling
b) Quality-by-Design In Pharmaceutical Development: Introduction, ICH Q8 guideline, Regulatory and industry views on QbD, Scientifically based QbD – examples of application. **12 Hrs**
2. Computational Modeling Of Drug Disposition: Introduction ,Modeling Techniques: Drug Absorption, Solubility, Intestinal Permeation, Drug Distribution ,Drug Excretion, Active Transport; P-gp, BCRP, Nucleoside Transporters, hPEPT1, ASBT, OCT, OATP, BBB-Choline Transporter. **12 Hrs**
3. Computer-aided formulation development:: Concept of optimization, Optimization parameters, Factorial design, Optimization technology & Screening design. Computers in Pharmaceutical Formulation: Development of pharmaceutical emulsions, microemulsion drug carriers Legal Protection of Innovative Uses of Computers in R&D, The Ethics of Computing in Pharmaceutical Research, Computers in Market analysis **12 Hrs**
4. a) Computer-aided biopharmaceutical characterization: Gastrointestinal absorption simulation. Introduction, Theoretical background, Model construction, Parameter sensitivity analysis, Virtual trial, Fed vs. fasted state, In vitro dissolution and in vitro-in vivo correlation, Biowaiver considerations



- b) Computer Simulations in Pharmacokinetics and Pharmacodynamics: Introduction, Computer Simulation: Whole Organism, Isolated Tissues, Organs, Cell, Proteins and Genes.
- c) Computers in Clinical Development: Clinical Data Collection and Management, Regulation of Computer Systems **12 Hrs**
- 5. Artificial Intelligence (AI), Robotics and Computational fluid dynamics: General overview, Pharmaceutical Automation, Pharmaceutical applications, Advantages and Disadvantages, Current Challenges and Future Directions. **12 Hrs**

REFERENCES

1. Computer Applications in Pharmaceutical Research and Development, Sean Ekins, 2006, John Wiley & Sons.
2. Computer-Aided Applications in Pharmaceutical Technology, 1st Edition, Jelena Djuris, Woodhead Publishing
3. Encyclopedia of Pharmaceutical Technology, Vol 13, James Swarbrick, James. G.Boylan, Marcel Dekker Inc, New York, 1996.



COSMETICS AND COSMECEUTICALS (MPH 204T)

SCOPE

This course is designed to impart knowledge and skills necessary for the fundamental need for cosmetic and cosmeceutical products.

OBJECTIVES

Upon completion of the course, the students shall be able to understand

- Key ingredients used in cosmetics and cosmeceuticals.
- Key building blocks for various formulations.
- Current technologies in the market
- Various key ingredients and basic science to develop cosmetics and cosmeceuticals
- Scientific knowledge to develop cosmetics and cosmeceuticals with desired Safety, stability, and efficacy.

THEORY

60 Hrs

1. Cosmetics – Regulatory : Definition of cosmetic products as per Indian regulation. Indian regulatory requirements for labeling of cosmetics Regulatory provisions relating to import of cosmetics., Misbranded and spurious cosmetics. Regulatory provisions relating to manufacture of cosmetics - Conditions for obtaining license, prohibition of manufacture and sale of certain cosmetics, loan license, offences and penalties. **12 Hrs**
2. Cosmetics - Biological aspects : Structure of skin relating to problems like dry skin, acne, pigmentation, prickly heat, wrinkles and body odor. Structure of hair and hair growth cycle. Common problems associated with oral cavity. Cleansing and care needs for face, eye lids, lips, hands, feet, nail, scalp, neck, body and under-arm. **12 Hrs**
3. Formulation Building blocks: Building blocks for different product formulations of cosmetics/cosmeceuticals. Surfactants - Classification and application. Emollients, rheological additives: classification and application. Antimicrobial used as preservatives, their merits and demerits. Factors affecting microbial preservative efficacy. Building blocks for formulation of a moisturizing cream, vanishing cream, cold cream, shampoo and toothpaste. Soaps and syndetbars. Perfumes; Classification of perfumes. Perfume ingredients listed as allergens in EU regulation. Controversial ingredients: Parabens, formal - ehyde liberators, dioxane. **12 Hrs**
4. Design of cosmeceutical products: Sun protection, sunscreens classification and regulatory aspects. Addressing dry skin, acne, sun-protection, pigmentation, prickly heat, wrinkles, body odor., dandruff, dental cavities, bleeding gums, mouth odor and sensitive teeth through cosmeceutical formulations. **12 Hrs**
5. Herbal Cosmetics : Herbal ingredients used in Hair care, skin care and oral care. Review of guidelines for herbal cosmetics by private bodies like cosmos with respect to preservatives, emollients, foaming agents, emulsifiers and rheology modifiers. Challenges in formulating herbal cosmetics. **12 Hrs**



PHARMACEUTICS PRACTICALS - II
(MPH 205P)

1. To study the effect of temperature change, non solvent addition, incompatible polymer addition in microcapsules preparation
2. Preparation and evaluation of Alginate beads
3. Formulation and evaluation of gelatin /albumin microspheres
4. Formulation and evaluation of liposomes/niosomes
5. Formulation and evaluation of spherules/microparticles
6. Improvement of dissolution characteristics of slightly soluble drug by Solid dispersion technique.
7. Comparison of dissolution of two different marketed products /brands
8. Protein binding studies of a highly protein bound drug & poorly protein bound drug
9. Case studies of Bioavailability studies of Paracetamol in animals.
10. Case studies of Pharmacokinetic and IVIVC data analysis
11. Case studies of In vitro cell studies for permeability and metabolism
12. Design of Experiment for any formulation using Design Expert® Software (Only formulation DOE is expected)
13. Formulation data analysis Using Design Expert® Software (Data analysis and interpretation of the previous experiment is expected)
14. Quality-by-Design in Pharmaceutical Development
15. Case studies of Computer Simulations in Pharmacokinetics and Pharmacodynamics
16. Case studies of Computational Modeling of Drug Disposition
17. Case studies of Developing Clinical Data Collection manual
18. Case studies of Sensitivity Analysis, and Population Modeling
19. Development and evaluation of Creams
20. Development and evaluation of Shampoo and Toothpaste base
21. To incorporate herbal and chemical actives to develop products to address Dry skin, acne, blemish, Wrinkles, bleeding gums and dandruff



PHARMACEUTICAL QUALITY ASSURANCE (MQA)

QUALITY MANAGEMENT SYSTEMS (MQA 102T)	60 Hrs
<p>Scope This course is designed to impart fundamental knowledge and concepts about various quality management principles and systems utilized in the manufacturing industry. It also aids in understanding the quality evaluation in the Pharmaceutical industries.</p> <p>Objectives Upon completion of the course the student shall be able to</p> <ul style="list-style-type: none"> • The importance of quality • Tools for quality improvement • Analysis of issues in quality • Quality evaluation of pharmaceuticals • Stability testing of drug and drug substances • Statistical approaches for quality 	
COURSE CONTENT	
<p>UNIT-I</p> <ul style="list-style-type: none"> • Introduction to Quality: Evolution of Quality • Definition of Introduction to Quality: Evolution of Quality, Definition of Quality, Dimensions of Quality • Quality as a Strategic Decision: Meaning of strategy and strategic quality management, mission and vision statements, quality policy, Quality objectives, strategic planning and implementation, McKinsey 7s model, Competitive analysis, Management commitment to quality Customer Focus: Meaning of customer and customer focus, Classification of customers, Customer focus, Customer perception of quality, Factors affecting customer perception, Customer requirements, Meeting customer needs and expectations, Customer satisfaction and Customer delight, Handling customer complaints, Understanding customer behaviour, concept of internal and external customers. Case studies. • Cost of Quality: Cost of quality, Categories of cost of Quality, Models of cost of quality, Optimising costs, preventing cost of quality. 	08 Hrs
<p>UNIT-II</p> <ul style="list-style-type: none"> • Pharmaceutical quality Management: Basics of Quality Management, Total Quality Management (TQM), Principles of Six sigma, ISO 9001:2008, 9001:2015, ISO 14001:2004, Pharmaceutical Quality Management-ICH Q10, Knowledge management, Quality Metrics, Operational Excellence and Quality Management Review. OSHAS guidelines, NABL certification and accreditation, CFR-21 part 11, WHO-GMP requirements. 	16 Hrs
<p>UNIT-III</p> <ul style="list-style-type: none"> • Six System Inspection model : Quality Management system, Production system, Facility and Equipment system, Laboratory control system, Materials system, Packaging and labelling system. Concept of self inspection. • Quality systems: Change Management / Change control. Deviations, Out of Specifications (OOS), Out of Trend (OOT), • Complaints - evaluation and handling, Investigation and determination 	12 Hrs



of root cause, Corrective & Preventive Actions (CAPA), Returns and Recalls, Vendor Qualification, Annual Product Reviews, Batch Review and Batch Release. Concept of IPQC, area clearance/ Line clearance.	
UNIT-IV <ul style="list-style-type: none"> • Drug Stability: ICH guidelines for stability testing of drug substances and drug products. • Study of ICH Q8, Quality by Design and Process development report • Quality risk management: Introduction, risk assessment, risk control, risk review, risk management tools, HACCP, risk ranking and filtering according to ICH Q9 guidelines. 	12 Hrs
UNIT-V <ul style="list-style-type: none"> • Statistical Process control (SPC): Definition and Importance of SPC, Quality measurement in manufacturing, Statistical control charts - concepts and general aspects, Advantages of statistical control, Process capability, Estimating Inherent or potential capability from a control chart analysis, Measuring process control and quality improvement, Pursuit of decreased process variability. 	08 Hrs
UNIT-VI <ul style="list-style-type: none"> • Regulatory Compliance through Quality Management and development of Quality Culture Benchmarking: Definition of benchmarking, Reasons for benchmarking, Types of Benchmarking, Benchmarking process, Advantages of benchmarking, Limitations of benchmarking. 	04 Hrs

REFERENCES

1. Al Endres, Implementing Juran's Road Map for Quality Leadership: Benchmarks and Results, Wiley, 2000.
2. Jiju Antony; David Preece, Routledge, Understanding, Managing and Implementing Quality: Frameworks, Techniques and Cases, 2002.
3. Edward E. Lawler, Organizing for High Performance: Employee Involvement, TQM, Reengineering, and Knowledge Management in the Fortune 1000: The CEO Report, 2001.
4. James W. Fairfield-Sonn, Corporate Culture and the Quality Organization, Quorum Books, 2001.
5. Christine Avery; Diane Zabel, Routledge, the Quality Management Sourcebook: An International Guide to Materials and Resources 1997.
6. Nancy R. Tague, the Quality Toolbox, Second Edition, ASQ Publications.
7. Joseph M. Juran and Joseph A., De Feo, Juran's Quality Handbook, Sixth Edition, ASQ Publications.
8. Duke Okes, Root Cause Analysis, the Core of Problem Solving and Corrective Action, 2009, ASQ Publications.



PES MODERN COLLEGE OF PHARMACY
(NBA Accredited) (FOR LADIES)



Approved by AICTE, New Delhi (F.No.06/07/MS/PHARMA/2004/047, DTE.Mumbai (2/NGC/2004/342)
Government of Maharashtra No. TEM/2004(235/04) TE-1, Pharmacy Council of India (32-347/2012-PC3),
Permanently affiliated to Savitribai Phule Pune University, ID No. PUPN/Pharmacy/200/2004

PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

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M. Pharm., Ph. D.
Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

QUALITY CONTROL AND QUALITY ASSURANCE (MQA 103T)	60 Hrs
<p>Scope This course deals with the various aspects of quality control and quality assurance aspects of pharmaceutical industries. It covers the important aspects like cGMP, QC tests, documentation, quality certifications, GLP and regulatory affairs.</p> <p>Objectives Upon completion of this course the student should be able to</p> <ul style="list-style-type: none"> • Understand the cGMP aspects in a pharmaceutical industry • To appreciate the importance of documentation • To understand the scope of quality certifications applicable to Pharmaceutical industries <p>To understand the responsibilities of QA & QC departments.</p>	
<p>UNIT-I</p> <ul style="list-style-type: none"> • Introduction: Concept and evolution and scopes of Quality Control and Quality Assurance, Good Laboratory Practice, GMP, Overview of ICH Guidelines - QSEM, with special emphasis on Qseries guidelines. Good Laboratory Practices: Scope of GLP, Definitions, Quality assurance unit, protocol for conduct of non clinical testing, control on animal house, report preparation and documentation, CPCSEA guidelines. 	12 Hrs
<p>UNIT-II</p> <ul style="list-style-type: none"> • cGMP guidelines according to schedule M, USFDA (inclusive of CDER and CBER) Pharmaceutical Inspection Convention(PIC), WHO and EMEA covering: Organization and personnel responsibilities, training, hygiene and personal records, drug industry location, design, construction and plant lay out, maintenance, sanitation, environmental control, utilities and maintenance of sterile areas, control of contamination and Good Warehousing Practice. 	12 Hrs
<p>UNIT-III</p> <ul style="list-style-type: none"> • Analysis of raw materials, finished products, packaging materials, in process quality control (IPQC), Developing specification (ICH Q6 and Q3), purchase specifications and maintenance of stores for raw materials. 126 In process quality control and finished products quality control for following dosage forms in Pharma industry according to Indian, US and British pharmacopoeias: tablets, capsules, ointments, suppositories, creams, parenterals, ophthalmic and surgical products (How to refer pharmacopoeias). 	12 Hrs
<p>UNIT-IV</p> <ul style="list-style-type: none"> • Documentation in pharmaceutical industry: Three tier documentation, Policy, Procedures and Work instructions, and records (Formats), Basic principles- How to maintain, retention and retrieval etc. Standard operating procedures (How to write), Master Batch Record, Batch Manufacturing Record, Quality audit plan and reports. Specification and test procedures, Protocols and reports. • Distribution records. Electronic data handling. Concepts of controlled and uncontrolled documents. Submission documents for regulators DMFs, as Common Technical Document and Electronic Common Technical Documentation (CTD, eCTD). Concept of regulated and non 	16 Hrs



regulated markets.	
UNIT-V	
<ul style="list-style-type: none"> Manufacturing operations and controls: Sanitation of manufacturing premises, mix-ups and cross contamination, processing of intermediates and bulk products, packaging operations, IPQC, release of finished product, process deviations, charge-in of components, time limitations on production, drug product inspection, expiry date calculation, calculation of yields, production record review, change control, sterile products, aseptic process control, packaging, reprocessing, salvaging, handling of waste and scrap disposal. 	08 Hrs

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1. Quality Assurance Guide by organization of Pharmaceutical Procedures of India, 3rd revised edition, Volume I & II, Mumbai, 1996.
2. Sandy Weinberg, Good Laboratory Practice Regulations, 2nd Edition, Vol. 69, Marcel Dekker Series, 1995.
3. Quality Assurance of Pharmaceuticals- A compedium of Guide lines and related materials Vol I & II, 2nd edition, WHO Publications, 1999.
4. Sharma P. P., How to Practice GMP's Vandana Publications, Agra, 1991, 127.
5. The International Pharmacopoeia – Vol I, II, III, IV & V - General Methods of Analysis and Quality specification for Pharmaceutical Substances, Excipients and Dosage forms, 3rd edition, WHO, Geneva, 2005.
6. Allen F. Hirsch, Good laboratory Practice Regulations, Volume 38, Marcel Dekker Series, 1989.
7. ICH guidelines.
8. ISO 9000 and total quality management.
9. Deshpande, Nilesh Gandhi, The Drugs and Cosmetics Act 1940, 4th edition, Susmit Publishers, 2006.
10. D.H. Shah, QA Manual, 1st edition, Business Horizons, 2000.
11. Sidney H. Willig, Good Manufacturing Practices for Pharmaceuticals a plan for total quality control, Vol. 52, 3rd edition, Marcel Dekker Series.
9. Steinborn L. GMP/ISO Quality Audit Manual for Healthcare Manufacturers and Their Suppliers, Sixth Edition, (Volume I - With Checklists and Software Package). Taylor & Francis; 2003.
12. Sarker DK. Quality Systems and Controls for Pharmaceuticals. John Wiley & Sons; 2008.
13. Schedule M and Schedule N.



PRODUCT DEVELOPMENT AND TECHNOLOGY TRANSFER (MQA 104T)	60 Hrs
<p>Scope This deal with technology transfer covers the activities associated with Drug Substance, Drug Product and analytical tests and methods, required following Candidate drug selection to completion of technology transfer from R&D to the first receiving site and technology transfer related to post-marketing changes in Manufacturing places.</p> <p>Objectives Upon completion of this course the student should be able to</p> <ul style="list-style-type: none"> • To understand the new product development process • To understand the necessary information to transfer technology from R&D to actual manufacturing by sorting out various information obtained during R&D • To elucidate necessary information to transfer technology of existing products between various manufacturing places 	
<p>UNIT-I</p> <ul style="list-style-type: none"> • Principles of Drug discovery and development: Introduction, Clinical research process. Development and informational content for Investigational New Drugs Application (IND), New Drug Application (NDA), Abbreviated New Drug Application (ANDA), Supplemental New Drug Application (SNDA), Scale Up Post Approval Changes (SUPAC) and Bulk active chemical Post approval changes (BACPAC), Post marketing surveillance, Product registration guidelines – CDSCO, USFDA. 	12 Hrs
<p>UNIT-II</p> <ul style="list-style-type: none"> • Pre-formulation studies: Introduction / concept, organoleptic properties, purity, impurity profiles, particle size, shape and surface area. • Solubility, Methods to improve solubility of Drugs: Surfactants & its importance, co-solvency. Techniques for the study of Crystal properties and polymorphism. Pre-formulation protocol, Stability testing during product development. 	12 Hrs
<p>UNIT-III</p> <ul style="list-style-type: none"> • Pilot plant scale up : Concept, Significance, design, layout of pilot plant scale up study, operations, large scale manufacturing techniques (formula, equipment, process, stability and quality control) of solids, liquids, semisolid and parenteral dosage forms. New era of drug products: opportunities and challenges. 	12 Hrs
<p>UNIT-IV</p> <ul style="list-style-type: none"> • Pharmaceutical packaging: Pharmaceutical dosage form and their packaging requirements, Pharmaceutical packaging materials, Medical device packaging, Enteral Packaging, Aseptic packaging systems, Container closure systems, Issues facing modern drug packaging, Selection and evaluation of Pharmaceutical packaging materials. <p>Quality control test: Containers, closures and secondary packing materials.</p>	12 Hrs
<p>UNIT-V</p> <ul style="list-style-type: none"> • Technology transfer: Development of technology by R & D, Technology transfer from R & D to production, Optimization and 	12 Hrs



Production, Qualitative and quantitative technology models.	
• Documentation in technology transfer: Development report, technology transfer plan and Exhibit.	

REFERENCES

1. Charles G. Smith, James T and O. Donnell, The process of new drug discovery and development. I and II Edition (2006) CRC Press, Group of Taylor and Francis.
2. Leon Lac Lachman, Herbert A. Liberman, Theory and Practice of Industrial Pharmacy. Marcel Dekker Inc. New York.
3. Sidney H Willing, Murray M, Tuckerman. Williams Hitchings IV, Good manufacturing of pharmaceuticals (A Plan for total quality control) 3rd E/d Bhalani publishing house Mumbai.
4. Leon Lachman, Herbert A. Liberman, Joseph B. Schwartz, Tablets Vol. I, II, III, 2nd E/d. (1989), Marcel Dekker Inc. New York.
5. Milo Gibaldi, Text book of Bio- Pharmaceutics and clinical Pharmacokinetics 3rd E/d Lea & Febriger, Philadelphia.
6. Vandana V. Patrevala. John L. Disouza. Maharukh T.Rustomji, Pharmaceutical product development. CRC Press, Group of Taylor and Francis.
7. Abdou H.M, Dissolution, Bioavailability and Bio-Equivalence, Mack Publishing company, Eastern Pennsylvania.
8. Alfonso & Gennaro, Remingtons Pharmaceutical Sciences, 19th Edn.(1995)OO2C Lippincott; Williams and Wilkins A Wolters Kluwer Company, Philadelphia.
9. D. A Sawant, The Pharmaceutical Sciences; the Pharma Path way Pure and applied Pharmacy, Pragathi Books Pvt. Ltd.
10. D.A. Dean. E.R. Evans, Pharmaceutical Packaging technology, I.H. Hall. 1st E/d (Reprint 2006). Taylor and Francis. London and New York. 130



QUALITY ASSURANCE PRACTICAL - I
(MQA 105P)

1. Analysis of Pharmacopoeial compounds in bulk and in their formulations (tablet / capsules / semisolids) by UV Vis spectrophotometer
2. Simultaneous estimation of multi-drug component containing formulations by UV spectrophotometry
3. Experiments based on HPLC
4. Experiments based on Gas Chromatography
5. Estimation of riboflavin/quinine sulphate by fluorimetry
6. Estimation of sodium/potassium by flame photometry or AAS
7. Case studies on –
 - Total Quality Management
 - Six Sigma
 - Change Management/ Change control. Deviations
 - Out of Specifications (OOS)
 - Out of Trend (OOT)
 - Corrective & Preventive Actions (CAPA)
 - Deviations
8. Development of Stability study protocol
9. Estimation of process capability
10. In process and finished product quality control tests for tablets, capsules, parenterals and semisolid dosage forms.
11. Assay of raw materials as per official monographs
12. Testing of related and foreign substances in drugs and raw materials
13. To carry out pre formulation study for tablets, parenterals (2 experiment).
14. To study the effect of pH on the solubility of drugs, (1 experiment)
15. Quality control tests for Primary and secondary packaging materials
16. Accelerated stability studies (1 experiment)
17. Improved solubility of drugs using surfactant systems (1 experiment)
18. Improved solubility of drugs using co-solvency method (1 experiment)
19. Determination of Pka and Log p of drugs.



HAZARDS AND SAFETY MANAGEMENT (MQA 201T)	60 Hrs
<p>Scope This course is designed to convey the knowledge necessary to understand issues related to different kinds of hazard and their management. Basic theoretical and practical discussions integrate the proficiency to handle the emergency situation in the pharmaceutical product development process and provides the principle based approach to solve the complex tribulations.</p> <p>Objectives At completion of this course it is expected that students will be able to</p> <ul style="list-style-type: none"> • Understand about environmental problems among learners. • Impart basic knowledge about the environment and its allied problems. • Develop an attitude of concern for the industry environment. • Ensure safety standards in pharmaceutical industry • Provide comprehensive knowledge on the safety management • Empower an ideas to clear mechanism and management in different kinds of hazard management system • Teach the method of Hazard assessment, procedure, methodology for provide safe industrial atmosphere. 	
<p>UNIT-I</p> <ul style="list-style-type: none"> • Multidisciplinary nature of environmental studies Natural Resources and associated problems, Renewable and non-renewable resources, a) Forest resources; b) Water resources; c) Mineral resources; d) Energy resources; e) Land resources • Ecosystems: Concept of an ecosystem, Structure and function of an ecosystem. Environmental hazards: Hazards based on Air, Water, Soil and Radioisotopes. 	12 Hrs
<p>UNIT-II</p> <ul style="list-style-type: none"> • Air based hazards Sources, Types of Hazards, Air circulation, Air handling system, HVAC system, air maintenance in industry for sterile area and non sterile area. 	12 Hrs
<p>UNIT-III</p> <ul style="list-style-type: none"> • Chemical based hazards: Sources of chemical hazards, Hazards of Organic synthesis, sulphonating hazard, Organic solvent hazard. Control measures for chemical hazards. Management of combustible gases, Toxic gases and Oxygen displacing gases management, Regulations for chemical hazard, MSDS, Labelling guidelines, Management of over-Exposure to chemicals and TLV concept, Disposal of hazardous material. 	12 Hrs
<p>UNIT-IV</p> <ul style="list-style-type: none"> • Fire and Explosion: Introduction, Industrial processes and hazards potential, Mechanical, electrical, thermal and process hazards, mechanical and chemical explosion, multiphase reactions. Safety and hazards regulations • Fire protection system: Fire prevention, types of fire extinguishers and critical Hazard management system, Preventive and protective management from fires and explosion- electricity passivation, ventilation, and sprinkling, proofing, fire walls, bunds, relief systems - relief valves, flares, scrubbers. 	12 Hrs



UNIT-V	
<ul style="list-style-type: none"> Hazard and risk management: Self-protective measures against workplace hazards. Critical training for risk management, Process of hazard management, ICH guidelines on risk assessment and Risk management methods and Tools, Preliminary hazard analysis Factory act and rules, fundamentals of accident prevention, elements of safety programme and safety management, Physicochemical measurements of effluents, BOD, COD, Determination of some contaminants, Effluent treatment procedure, Role of emergency services. 	<p>12 Hrs</p>

REFERENCES

1. Y.K. Sing, Environmental Science, New Age International Pvt, Publishers, Bangalore
2. Quantitative Risk Assessment in Chemical Process Industries, American Institute of Chemical Industries, Centre for Chemical Process safety.
3. T.S.S. Dikshith, Hazardous Chemicals: Safety Management and Global Regulations, CRC press
4. M. N. Vyas, Safety and hazard management in chemical industries, Atlantic Publisher
5. Daniel A. Crowl, Joseph F. Louvar, Chemical Process Safety: Fundamentals with Applications, 3rd Edition, Prentice Hall, 2011
6. H. H. Fawcett and W.S. Wood, Safety and Accident Prevention in Chemical Operations, 2nd E/d, John Wiley & Sons, New York 1982.
7. C.S.Rao, Environmental Pollution Control Engineering, New Age international publisher
8. Phillip Carson, Clive Mumford, Butterworth-Heinemann, Hazardous Chemicals Handbook, Second edition, An imprint of Elsevier Science.



PHARMACEUTICAL VALIDATION (MQA 202T)	60 Hrs
<p>Scope The main purpose of the subject is to understand about validation and how it can be applied to industry and thus improve the quality of the products. The subject covers the complete information about validation, types, methodology and application.</p> <p>Objectives At completion of this course, it is expected that students will be able to understand</p> <ul style="list-style-type: none"> • The concepts of calibration, qualification and validation • The qualification of various equipments and instruments • Process validation of different dosage forms • Validation of analytical method for estimation of drugs <p>Cleaning validation of equipments employed in the manufacture of pharmaceuticals</p>	
<p>UNIT-I</p> <ul style="list-style-type: none"> • Introduction to validation: Definition of Calibration, Qualification and Validation, Scope, frequency and importance, Difference between calibration and validation, Calibration of weights and measures. Advantages of Validation, scope of Validation, Organization for Validation, Validation Master plan, Types of Validation, Streamlining of qualification & Validation process and Validation Master Plan. • Qualification: User requirement specification, Design qualification, Factory Acceptance Test (FAT)/Site Acceptance Test (SAT), Installation qualification, Operational qualification, Performance qualification, Re-Qualification (Maintaining status- Calibration Preventive Maintenance, Change management). 	10 Hrs
<p>UNIT-II</p> <ul style="list-style-type: none"> • Qualification of manufacturing equipment: Dry Powder Mixers, Fluid Bed and Tray dryers, Tablet Compression (Machine), Dry heat sterilization / Tunnels, Autoclaves, Membrane filtration, Capsule filling machine. • Qualification of analytical instruments: UV-Visible spectrophotometer, FTIR, GC, HPLC, HPTLC. 	10 Hrs
<p>UNIT-III</p> <ul style="list-style-type: none"> • Qualification of laboratory equipments: Hardness tester, Friability test apparatus, tap density tester, Disintegration tester, Dissolution test apparatus • Validation of Utility systems: Pharmaceutical water system & pure steam, HVAC system, Compressed air and nitrogen. 	10 Hrs
<p>UNIT-IV</p> <ul style="list-style-type: none"> • Process Validation: Concept, Process and documentation of Process Validation. Prospective, Concurrent & Retrospective Validation, Re validation criteria, Process Validation of various formulations (Coated tablets, Capsules, Ointment/Creams, Liquid Orals and aerosols.), Aseptic filling: Media fill validation, USFDA guidelines on Process Validation- A life cycle approach. • Analytical method validation: General principles, Validation of analytical method as per ICH guidelines and USP. 	10 Hrs
UNIT-V	10 Hrs



<ul style="list-style-type: none"> • Cleaning Validation: Cleaning Method development, Validation of analytical method used in cleaning, Cleaning of Equipment, Cleaning of Facilities, Cleaning in place (CIP). Validation of facilities in sterile and non-sterile plant. • Computerized system validation: Electronic records and digital signature - 21 CFR Part 11 and GAMP 	
<p>UNIT-VI</p> <ul style="list-style-type: none"> • General Principles of Intellectual Property: Concepts of Intellectual Property (IP), Intellectual Property Protection (IPP), Intellectual Property Rights (IPR); Economic importance, mechanism for protection of Intellectual Property–patents, Copyright, Trademark; Factors affecting choice of IP protection; Penalties for violation; Role of IP in pharmaceutical industry; Global ramification and financial implications. Filing a patent applications; patent application forms and guidelines. Types patent applications-provisional and non provisional, PCT and convention patent applications; International patenting requirement procedures and costs; Rights and responsibilities of a patentee; Practical aspects regarding maintaining of a Patent file; Patent infringement meaning and scope. Significance of transfer technology (TOT), IP and ethics-positive and negative aspects of IPP; Societal responsibility, avoiding unethical practices. 	<p>10 Hrs</p>

REFERENCES

1. B. T. Loftus & R. A. Nash, "Pharmaceutical Process Validation", Drugs and Pharm Sci. Series, Vol. 129, 3rd Ed., Marcel Dekker Inc., N.Y.
2. Leon Lachman, Herbert A. Lieberman, Joseph. L. Karig. The Theory & Practice of Industrial Pharmacy, 3rd edition, Varghese Publishing House, Bombay.
3. Terveeks , Validation Master plan Davis Harwood International publishing.
4. Carleton & Agalloco, Validation of Aseptic Pharmaceutical Processes, 2nd Edition, by
5. Michael Levin, Pharmaceutical Process Scale-Up", Drugs and Pharm. Sci. Series, Vol. 157,2nd Ed., Marcel Dekker Inc., N.Y.
6. Syed Imtiaz Haider.Validation Standard Operating Procedures: A Step by Step Guide for Achieving Compliance in the Pharmaceutical, Medical Device, and Biotech Industries,
7. Phillip A. Cloud, Pharmaceutical Equipment Validation: The Ultimate Qualification Handbook, , Interpharm Press.
8. Frederick J. Carlton (Ed.) and James Agalloco (Ed.), Validation of Pharmaceutical Processes: Sterile Products, Marcel Dekker.
9. Churg Chan, Heiman Lam, Y.C. Lee, Yue. Zhang, Analytical Method validation and Instrument Performance Verification, Wiley Interscience.
10. Huber L. Validation and Qualification in Analytical Laboratories. Informa Healthcare
11. Wingate G. Validating Corporate Computer Systems: Good IT Practice for Pharmaceutical Manufacturers. Interpharm Press.



AUDITS AND REGULATORY COMPLIANCE
(MPA 203T)

60 Hrs

SCOPE

This course deals with the understanding and process for auditing in pharmaceutical industries. This subject covers the methodology involved in the auditing process of different in pharmaceutical industries.

Objectives

Upon completion of this course the student should be able to

- To understand the importance of auditing
- To understand the methodology of auditing
- To carry out the audit process
- To prepare the auditing report
- To prepare the check list for auditing

UNIT-I

- **INTRODUCTION:** Objectives, Management of audit, Responsibilities, Planning process, information gathering, administration, Classifications of deficiencies

12 Hrs

UNIT-II

- **Role of quality systems and audits in pharmaceutical manufacturing environment:** cGMP Regulations, Quality assurance functions, Quality systems approach, Management responsibilities, Resource, Manufacturing operations, Evaluation activities, transitioning to quality system approach, Audit checklist for drug industries.

12 Hrs

UNIT-III

- **Auditing of vendors and production department:** Bulk Pharmaceutical Chemicals and packaging material Vendor audit, Warehouse and weighing, Dry Production: Granulation, tableting, coating, capsules, sterile production and packaging.

12 Hrs

UNIT-IV

- **Auditing of Microbiological laboratory:** Auditing the manufacturing process, Product and process information, General areas of interest in the building raw materials, Water, Packaging materials.

12 Hrs

UNIT-V

- **Auditing of Quality Assurance and engineering department:** Quality Assurance Maintenance, Critical systems: HVAC, Water, Water for Injection systems, ETP.

12 Hrs

REFERENCES

1. Karen Ginsbury and Gil Bismuth, Compliance auditing for Pharmaceutical Manufacturers, Interpharm/CRC, Boca Raton, London New York, Washington D.C.
2. Shayne Cox Gad, Pharmaceutical Manufacturing Handbook, Regulations and Quality, Wiley-Interscience, A John Wiley and sons, Inc. Publications.
3. Rosamund M. Baird, Norman A. Hodges, Stephen P. Denyar, Handbook of microbiological Quality control, CRC Press. 2000.
4. C. Singer, Raluca-Ioana Stefan, Jacobus F. Van Staden, Laboratory auditing for quality and regulatory compliance. Donald Taylor and Francis (2005).



PHARMACEUTICAL MANUFACTURING TECHNOLOGY
(MQA 204T)

60 Hrs

Scope

This course is designed to impart knowledge and skills necessary to train the students with the industrial activities during Pharmaceutical Manufacturing.

Objectives

At completion of this course it is expected that students will be able to Understand -

- The common practice in the pharmaceutical industry developments, plant layout and production planning
- Will be familiar with the principles and practices of aseptic process technology, non sterile manufacturing technology and packaging technology.
- Have a better understanding of principles and implementation of Quality by design (QbD) and process analytical technology (PAT) in pharmaceutical manufacturing

UNIT-I

- **Pharmaceutical industry developments:** Legal requirements and Licenses for API and formulation industry, Plant location- Factors influencing.
- **Plant layout:** Factors influencing, Special provisions, Storage space requirements, sterile and aseptic area layout.
- **Production planning:** General principles, production systems, calculation of standard cost, process planning, routing, loading, scheduling, dispatching of records, production control.

12 Hrs

UNIT-II

- **Aseptic process technology:** Manufacturing, manufacturing flowcharts, in process-quality control tests for following sterile dosage forms: Ointment, Suspension and Emulsion, Dry powder, Solution (Small Volume & large Volume).
- **Advanced sterile product manufacturing technology :** Area planning & environmental control, wall and floor treatment, fixtures and machineries, change rooms, personnel flow, utilities & utilities equipment location, engineering and maintenance.
- **Process Automation in Pharmaceutical Industry:** With specific reference to manufacturing of sterile semisolids, Small Volume Parenterals & Large Volume Parenterals (SVP & LVP), Monitoring of Parenteral manufacturing facility, Cleaning in Place (CIP), Sterilization in Place (SIP), Prefilled Syringe, Powdered Jet, Needle Free Injections, and Form Fill Seal Technology (FFS). Lyophilization technology: Principles, process, equipment.

12 Hrs

UNIT-III

- **Non sterile manufacturing process technology:** Manufacturing, manufacturing flowcharts, in process-quality control tests for following Non-Sterile solid dosage forms: Tablets (compressed & coated), Capsules (Hard & Soft).
- **Advance non-sterile solid product manufacturing technology:** Process Automation in Pharmaceutical Industry with specific reference to manufacturing of tablets and coated products,
- **Improved Tablet Production:** Tablet production process, granulation and pelletization equipments, continuous and batch mixing, rapid mixing

12 Hrs



granulators, rota granulators, spheronizers and marumerisers, and other specialized granulation and drying equipments.

- **Problems encountered. Coating technology:** Process, equipments, particle coating, fluidized bed coating, application techniques. Problems encountered.

UNIT-IV

- **Containers and closures for pharmaceuticals:** Types, performance, assuring quality of glass; types of plastics used, Drug plastic interactions, biological tests, modification of plastics by drugs; different types of closures and closure liners; film wrapper; blister packs; bubble packs; shrink packaging; foil / plastic pouches, bottle seals, tape seals, breakable seals and sealed tubes; quality control of packaging material and filling equipment, flexible packaging, product package compatibility, transit worthiness of package, Stability aspects of packaging. Evaluation of stability of packaging material.

12 Hrs

UNIT-V

- **Quality by design (QbD) and process analytical technology (PAT):** Current approach and its limitations. Why QbD is required, Advantages,
- **Elements of QbD, Terminology:** QTPP, CMA, CQA, CPP, RLD, Design space, Design of Experiments, Risk Assessment and mitigation / minimization. Quality by Design, Formulations by Design, QbD for drug products, QbD for Drug Substances, QbD for Excipients, Analytical QbD.
- **FDA initiative on process analytical technology. PAT as a driver for improving quality and reducing costs:** quality by design (QbD), QA, QC and GAMP. PAT guidance, standards and regulatory requirements.

12 Hrs

REFERENCES

1. Lachman L, Lieberman HA, Kanig JL. The theory and practice of industrial pharmacy, 3rd ed., Varghese Publishers, Mumbai 1991.
2. Sinko PJ. Martin's physical pharmacy and pharmaceutical sciences, 5th ed., B.I. Publications Pvt. Ltd, Noida, 2006.
3. Lieberman HA, Lachman L, Schwartz JB. Pharmaceutical dosage forms: tablets Vol. I-III, 2nd ed., CBS Publishers & distributors, New Delhi, 2005.
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5. Sidney H Willing, Murray M, Tuckerman. Williams Hitchings IV, Good manufacturing of pharmaceuticals (A Plan for total quality control) 3rd Edition. Bhalani publishing house Mumbai.
6. Indian Pharmacopoeia. Controller of Publication. Delhi, 1996.
7. British Pharmacopoeia. British Pharmacopoeia Commission Office, London, 2008.
8. United States Pharmacopoeia. United States Pharmacopoeial Convention, Inc, USA, 2003.
9. Dean D A, Evans E R and Hall I H. Pharmaceutical Packaging Technology. London, Taylor & Francis, 1st Edition. UK.



QUALITY ASSURANCE PRACTICAL – II PRACTICALS
(MQA 205P)

1. Organic contaminants residue analysis by HPLC
2. Identification of antibiotic residue by TLC
3. Estimation of Chlorine in Work Environment.
4. Sampling and analysis of SO₂ using Colorimetric method
5. Qualification of following Pharma equipment
 - a) Autoclave
 - b) Hot air oven
 - c) Powder Mixer (Dry)
 - d) Tablet Compression Machine
6. Validation of an analytical method for a drug
7. Process validation of any non-sterile or sterile dosage form
8. Validation of a processing area
9. Qualification of at least two analytical instruments
10. Cleaning validation of one equipment
11. Qualification of Pharmaceutical Testing Equipment (Dissolution testing apparatus, stability Apparatus, Disintegration Tester)
12. Check list for Bulk Pharmaceutical Chemicals vendors
13. Check list for tableting production.
14. Check list for sterile production area
15. Check list for Water for injection.
16. Design of plant layout: Sterile and non-sterile
17. Case study on application of QbD
18. Case study on application of PAT



INTRODUCTION TO CONSTITUTION

(TWO CREDITS)

Course Objectives: This course introduces students to the Constitution of India. The Constitution, being supreme law of the land, must be known to every citizen of India. It begins with the Preamble, which indicates the source and objects of it. We, the people of India, are the source of the Constitution and have resolved to constitute India into a sovereign, socialist, secular, democratic and republic. The Course has been designed for everyone to make acquaint themselves with their fundamental rights and of others. No right is absolute one; it is subject to others right, as well. Directive Principles of State Policy are nothing but rights, though not enforceable by any court. These Directive Principles are basically 'Fundamental Principles' in the governance of the country. Powers and freedoms come with responsibility, State's responsibility to implement Directive Principles and citizens must perform their duties towards others, society and nation.

Expected Course Outcomes:

To introduce the philosophy of Constitution of India to students.
To acquaint them with their freedoms and responsibilities.

UNIT 1: PHILOSOPHY OF THE INDIAN CONSTITUTION (5 Hours)

- a) Constitutional History of India
- b) Role of Dr. B.R. Ambedkar in Constituent Assembly
- c) Preamble – Source and Objects
- d) Sovereign and Republic
- e) Socialist and Secular
- f) Democratic – Social and Economic Democracy
- g) Justice – Social, Economic and Political
- h) Liberty – Thought, Expression, Belief, Faith and Worship
- i) Equality – Status and Opportunity
- j) Fraternity, Human Dignity, Unity and Integrity of the Nation



UNIT 2: FUNDAMENTAL RIGHTS (10 Hours)

- a) Right to equality
- b) Right to freedoms
- c) Right against exploitation
- d) Right to freedom of religion
- e) Cultural and educational rights
- f) Right to property
- g) Right to constitutional remedies

UNIT 3: DIRECTIVE PRINCIPLES OF STATE POLICY (10 Hours)

- a) Equal Justice and free legal aid
- b) Right to work and provisions for just and humane conditions of work
- c) Provision for early childhood, Right to education and SC,ST, weaker section
- d) Uniform Civil Code
- e) Standard of Living, nutrition and public health
- f) Protection and improvement of environment
- g) Separation of Judiciary from executive
- h) Promotion of International peace and security

UNIT 4: FUNDAMENTAL DUTIES (5 Hours)

- a) Duty to abide by the Constitution
- b) Duty to cherish and follow the noble ideals
- c) Duty to defend the country and render national service
- d) Duty to value and preserve the rich heritage of our composite culture
- e) Duty to develop scientific temper, humanism, the spirit of inquiry & reform
- f) Duty to safeguard public property and abjure violence
- g) Duty to strive towards excellence

Text/Reference Books:

- a) D. D. Basu, Introduction to the Constitution of India, LexisNexis
- b) Granville Austin, The Constitution of India: Cornerstone of a Nation, Oxford University Press
- c) Subhash Kashyap, Our Constitution, National Book Trust
- d) M.P. Jain, Indian Constitutional Law, LexisNexis



PES MODERN COLLEGE OF PHARMACY
(NBA Accredited) (FOR LADIES)

Approved by AICTE, New Delhi (F.No.06/07/MS/PHARMA/2004/047, DTE.Mumbai (2/NGC/2004/342)
Government of Maharashtra No. TEM/2004(235/04) TE-1, Pharmacy Council of India (32-347/2012-PC3),
Permanently affiliated to Savitribai Phule Pune University, ID No. PU/PN/Pharmacy/200/2004



PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

- e) V.N.Shukla, Constitution of India, Eastern Book Company
- f) P.M. Bakshi, The Constitution of India, Universal Law Publishing
- g) M.V.Pylee, Constitutional Government in India, S. Chand
- h) V. S. Khare, Dr. B.R.Ambedkar and India's National Security
- i) डॉ. सत्यरंजन साठे, भारताच्या राज्यघटनेची ५० वर्षे, कॉन्टिनेन्टल प्रकाशन
- j) नरेन्द्र चपळगावकर, राज्यघटनेचे अर्धशतक, मौज प्रकाशन गृह
- k) सुहास पळशीकर, राजकारणाचा ताळेबंद भारतीय लोकशाहीची वाटचाल, साधना प्रकाशन
- l) जयदेव गायकवाड, संविधान सभेत डॉ. आंबेडकर, पद्मगंगा प्रकाशन
- m) झिया मोदी, टेन जजमेंट्स टॅट चॅंज् इंडिया, सकाळ प्रकाशन
- n) डॉ. रावसाहेब कसबे, डॉ. आंबेडकर आणि भारतीय राज्यघटना, सुगावा प्रकाशन



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Professional Ethics, Gender, Human Values, Environment and Sustainability through Co-Curricular and Extracurricular Activities

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PROFESSIONAL ETHICS (22-23)

Sr. No.	Events organized	Date	Description
1.	Constitution day- Lecture on Constitution of India	26/11/2022	Getting Aware of Equal Rights, Human Rights a Lecture on constitution of India was arranged on Day 26 th November 2022.
2.	Financial Literacy in Camp Street Play	23/01/2022	NSS volunteers performed street play and aware people about financial literacy in Moigoan on 23 rd January 2023
3.	NPW- National Pharmacy Week celebration	25/09/2022	National Pharmacy Week was celebrated on 25 th September 2022, Student rally with banner, Street play, poster competition, model competition and Pharmacist oath etc. programmes were arranged in this week.
4.	Cyber Security Awareness	08/10/2022	Ms. Harshada Gawade and Ms. Vaishnavi Arote made aware students about cyber security through lecture.
5.	Basics of formulation development	24/06/2023	Dr. Sanjay Boldhane guided research students regarding Basics of formulation development

PROFESSIONAL ETHICS (21-22)

1.	NPW- National Pharmacy Week 2021	25/09/2021	Pharmacist day was celebrated on 25 th September 2021.onthe occasion of World Pharmacist Day various competitions like Drawing and Pharma Best WhatsApp quote (Diploma), Pharm Ad-Mad (B. Pharm), Problem solver topic (M. Pharm) etc. were arranged by PES Modern College of Pharmacy.
2.	Key for Formulation design	04/12/2021	Mr. Rupesh Saindane Research scientist, Abbot Healthcare Pvt. Ltd. Delivered a guidance lecture for research students.
3.	Non clinical drug development and regulatory approval process of novel	12/03/2022	Mr. Govind Bhagnure Expert trainer for Pharma domain, talked on regulatory process for novel drug delivery system.

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	therapeutics.		
PROFESSIONAL ETHICS (20-21)			
1.	Drug and social media Addiction	28/06/2021	Ms. Mugdha Chandorkar, Counselor and wellness teacher CM International School guided students on drug and social media addiction.
2.	Approach community Pharmacy-An overview	19/09/2021	Mr. Yogesh Kale, Proprietor of Arnav Pharmaceutical Ltd. Pune delivered a talked-on opportunities in community pharmacy.
PROFESSIONAL ETHICS (19-20)			
1.	Pharmacist Day Celebration Rally	25/09/2018	Pharmacist Day celebration rally
2.	Cyber Awareness	03-10-2019	Ms. Dipti Lele, made aware students about cyber security through lecture.
3.	Drug inspector as career	11-01-2020	Dr. Vishal Kachare, guided on Drug inspector as a career.
4.	Regulatory aspects of cosmetics manufacturing and sale	25-01-2020	Dr. Vijay Bhambulkar, delivered a talk on regulatory aspects of cosmetics.
5.	Pharmaceutical IT Compliance and Computer System Validation	04-02-2020	Mr. Shrinivas Inamdar, focused on computer system validation.
PROFESSIONAL ETHICS (18-19)			
1.	NPW - National Pharmacy week 2018	25/09/2018 to 01/10/2018	National pharmacy week was celebrated form 25/09/2019 to 01/10/2019. Various Intercollege competitions were held in this week.
2.	One Day Workshop on 'Interview Techniques and Presentation Skills'	29/09/2018	Mr. Deepak Jadhav, Product Manager, KP Corporate Solutions Ltd. Pune trained students for interview and presentation skills.
3.	Career Opportunities in Regulatory affairs and Pharmacovigilance	28/07/2018	Mrs. Archana Gawade Director, Elite Institute for Pharma Skills, Pune. Elaborated career opportunities in RA and PV



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Professional Ethics

(2022-23)

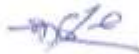


Human Rights and the Constitution of India

Workshop- Report

On the occasion of Constitution Day 26/11/2022, a workshop has been arranged by the NSS unit of MCPL. Mr. ManojWagh Tech and Trainer, tester, Pune who on behalf of the NSS unit of SavitribaiPhule Pune University, Pune conducted an offline workshop on a very relevant topic on "Human rights, Indian Judiciary System and the constitution of India" for students of S.Y, T.Y, and Final year B. Pharmacy on 26th November 2022 at PES Modern College of Pharmacy [For Ladies], Moshi, Pune. Sir has guided students about constitution concepts in easy language. He has given current examples to the students while explaining concepts. The exam was also taken after the workshop and certificates were provided to the qualified students. Principal Dr. S. N. Dhole sir congratulated to Mr. ManojWagh for taking such an informative and knowledgeable initiative. Program officer BhagyashreeParade coordinated the whole event.




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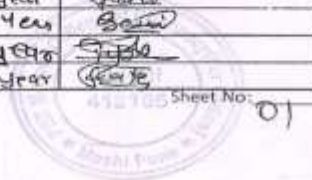
Workshop on Human Rights, Indian Judiciary System and The Constitution of India

Participants Attendance

College Name and Place: P.E.S. Modern college of pharmacy, Moshi Date: 26/11/2022

Sr.	Name of Participant	Course Name	Study Year	Signature
1	Mayuri Dattatray Dhumal	B.Pharm	2022	Mayuri
2	Priyanshi Sanjay Suryakavshi	B.Pharm	2022	Priyanshi
3	Vaishnavi Ghatge Salunke	B.Pharm	2022	Vaishnavi
4	Aishwarya Vishnu Reddy	B.Pharm	2022	Aishwarya
5	Akanksha Santosh Rautihal	B.Pharm	2022	Akanksha
6	Jyoti Sudhir Sakhal	B.Pharm	2022	Jyoti
7	Padwal Monika Ganesh	B.Pharm	2022	Padwal
8	Falguni Ram Kladre	B.Pharm	2022	Falguni
9	Sakshi Lalji Vishwakarma	B.Pharm	2022	Sakshi
10	Saloni Sanjay Yadav	B.Pharm	2022	Saloni
11	Ragini Madhav Waghmare	B.Pharm	2022	Ragini
12	Kuntum Bachsal Yadav	B.Pharm	2022	Kuntum
13	Sakshi Shantosh Wairal	B.Pharm	2022	Sakshi
14	Punam Triambak Dhumare	B.Pharm	2022	Punam
15	Namrata Shankar Chauran	B.Pharm	2022	Namrata
16	Shinde Vaishnavi Shankar	B.Pharm	2022	Shinde
17	Nikita Ananta Sasode	B.Pharm	2022	Nikita
18	Nagare Ashwini Dinkar	B.Pharm	2022	Nagare
19	Hinge Pranjal Prabhakar	B.Pharm	2022	Hinge
20	Bhargya Prudhila Bahu	B.Pharm	2022	Bhargya
21	Dhruvane Isha Anand	B.Pharm	2022	Dhruvane
22	Aastha Sunil Dhokane	B.Pharm	2022	Aastha
23	Rutuja Balasaheb Bhavar	B.Pharm	2022	Rutuja
24	Vaishnavi Sochin Bisle	B.Pharm	2022	Vaishnavi
25	Arya Ajay Talpade	B.Pharm	S.Y	Arya
26	Srushti Nawnath Khaire	B.Pharm	S.Y 2022	Srushti
27	Sakshi Uttam Kopal	B.Pharm	S.Y 2022	Sakshi
28	Charuta Prashant Pacharne	B.Pharm	2022	Charuta
29	Khushi Amal Konde	B.Pharm	S.Y 2022	Khushi
30	Siddhi Rahul Kharabi	B.Pharm	S.Y 2022	Siddhi
31	Vivakshi Nirabargi	B.Pharm	Final Yr	Vivakshi
32	Shweta Shyama Hargwad	B.Pharm	Final year	Shweta
33	Bhavana Chandrakant Rute	B.Pharm	Final year	Bhavana
34	Poojita Sameer Babur	B.Pharm	Final year	Poojita
35	Smisha Rajendra Phostale	B.Pharm	Final year	Smisha
36	Siddhi Dharmendra Kumbhar	B.Pharm	Final Year	Siddhi
37	Sakshi Anil Jadhav	B.Pharm	Final year	Sakshi
38	Samneddhi V. Jagtap	B.Pharm	Final Year	Samneddhi
39	Sakshi H. Rakshhe	B.Pharm	Final year	Sakshi
40	Sakshi Kisan Wagh	B.Pharm	Final year	Sakshi

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Financial Literacy Awareness

Volunteers of NSS conducted a financial literacy awareness program on 23/01/2023 during an NSS special camp by performing street play. The program has been conducted at Moi Village. Also, they made awareness about online money transactions pros and cons, etc. Students also answered the queries of villagers regarding online transactions. All the villagers enjoyed the street play and gave valuable feedback.




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Date: 14/09/2022

REPORT

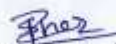
National Pharmacy Week (NPW) was organized at our institute during 17th to 24th September, 2022 with the national theme for the year, "Pharmacy United In Action For a Healthier World."


Various competitions were organized with exciting prizes. Theme based poster competition and Model Making Competition was conducted for D. Pharm, B. Pharm and M.Pharm students, The entries for the competitions was done by free registration through form which was circulated on 10th September 2022. The event witnessed participation in large number with 30 plus registrations. Evaluation of different competitions was done by our competent faculty & the winners were announced on the occasion of World Pharmacist day 24th September. Winner's awarded with cash prize and all participants were given certificate of participation.


On 23rd Sept. 2022 different events were organized and started with pharmacy oath followed by guest lecture on "Awareness of Health Issue in Girls" delivered by resource person Dr. Abhijeet Shinde, Master of Surgery in Obstetrics and Gynecology, Director, Adishakti Hospital and Dr. Aparna Clinic, Moshi. Ms. Rutuja Lohar and Ms. Gayatri had given introduction of Guest to students and the guest was felicitated by Dr. Dhole S.N. Principal of PES Modern College of Pharmacy for ladies, Moshi, A total number of 126 students participated in the program. In the Afternoon Session students rally was arranged for awareness in the society regarding pharmacist's role and continued with street play, and tree plantation by students in college campus.

Students have also participated in various inter-collegiate competitions organized by Indian Pharmaceutical Association pune branch and different pharmacy colleges. Ms. Shreya Londhe of Final year B.Pharm won Third prize in national level poster competition organised by P. Wadhwan College of Pharmacy, Yawatmal.

The event was celebrated as grand success under the convenership of principal. Prof. Dr. S. N. Dhole & with keen involvement and hardwork of faculty co-ordinators Dr. Vijaya Vichare, Ms. Rutuja Aher & Ms. Srutuja Jadhav along with student co-ordinators.


NPW Coordinator


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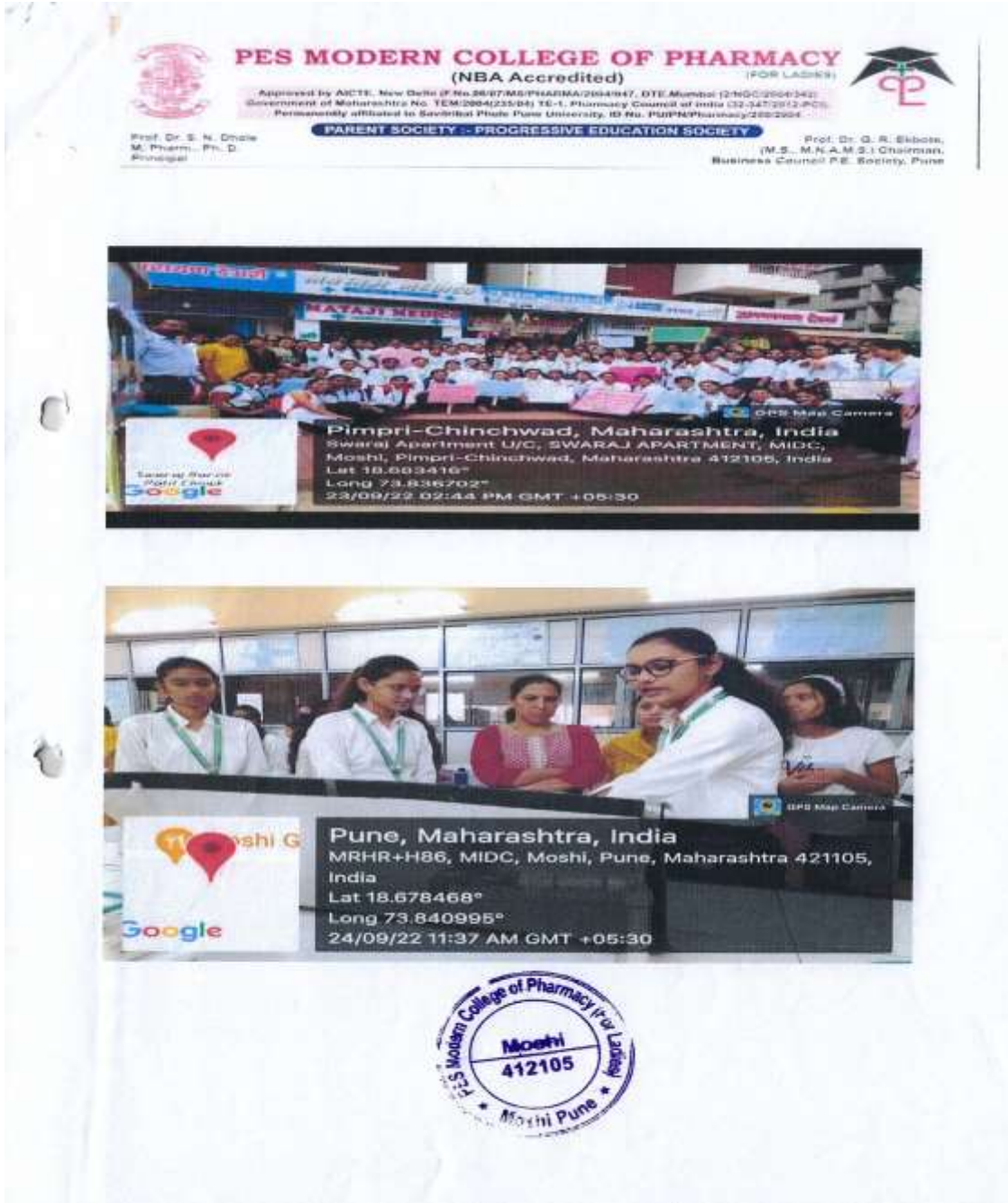


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National Pharmacy Week 2023

PARTICIPANT LIST

COLLEGE NAME: PES MODERN COLLEGE OF PHARMACY (for ladies), Moshi, Pune

Sr. No.	Date	Competition Name	Participants
1	17/02/2023	Interview Skills	Megha Shitole (UG) Sanskriti Dongarkar (UG) Priyanka Thorat (PG) Ankita Shinde (PG)
2	15/02/2023	Quiz Competition	Nilu Choudhary (PG) Purva Yelwande (PG) Janhavi More (UG) Ankita Mhetre (UG)
3	17/02/2023	Paper Presentation	Karishma Markad (PG)
4	18/02/2023	Group Discussion	Vaishnavi Alhat (UG) Shreya Londhe (UG)
5	14/02/2023	Patient Counselling	Mayuri Gadhawe (UG) Rutuja Abhang (UG) Sejal Walunj (UG) Pratiksha Ekal (UG) Pranjal Hinge (UG)



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SUMMARY REPORT ON GUEST LECTURE

Topic of Guest Lecture: "Cyber Security Awareness"

Resource Person: Ms. Harshada Gawade & Ms. Vaishanvi Arote

Conducted on: 08/10/2022

Modern College of Pharmacy (for ladies), Moshi, Pune, has arranged a guest lecture on topic "Cyber Security Awareness" by the resource person Ms. Harshada Gawade & Ms. Vaishanvi Arote. Introduction of the Program and resource person was given by Ms. Gitanjali Mehetre madam. Speaker was welcomed by our Respected Principal Dr. Prof. Shashikant N. Dhole sir with bouquet.

Ms. Vaishanvi Arote told that aim of lecture to analyse the awareness of cyber awareness in college students by focusing various security threats in the internet. In recent years cybercrime is an enormous challenge in all areas including national security, public safety and personal privacy. Cyber security is the most concerned matter as cyber threats and attacks are overgrowing. Attackers are now using more sophisticated techniques to target the systems. Individuals, small-scale businesses or large organization, are all being impacted. "Cyber security is primarily about people, processes, and technologies working together to encompass the full range of threat reduction, vulnerability reduction, deterrence, international engagement, incident response, resiliency, and recovery policies and activities, including computer network operations, information assurance, law enforcement, etc."

To prevent from a victim of cybercrime everyone must know about their own security and safety measures to protect by themselves. It was a great experience to be a part of such an informative and helpful session and more sessions of such kind would definitely change the view about cyber security awareness. Overall, the guest lecture was nice and was helpful for improving knowledge. The lecture ended with a vote of thanks given by Ms. Gitanjali Mehetre madam.



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Snapshot of Guest Lecture:



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Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune



(Signature)
Guest Lecture in Charge
(Ms. G. J. Mehetre)



(Signature)
Principal
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Lecture on Cyber Security Awareness



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Date - 08/10/22

PES Modern college of Pharmacy (For Ladies), Moshi Pune														
T. Y. B. Pharm Roll Call List 2022-2023 (Sem V)														
Division A-Roll No.1 to 63							Division B-Roll No.64 to 126							
Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign
BATCH A			BATCH B			BATCH C			BATCH D			BATCH E		
1	Gayatri Aude		27	Santika Dhore		53	Urvashti Jagdale		78	Socha Pansare		103	Vaibhavi Ursap	
2	Adalingshaghayotri		28	Shital Dindewad		54	Sapriya Keshbane		79	Pratibha Parhad		104	Srushti Vidhate	
3	Sruddha Adhav		29	Akshita Dorghade		55	Shital Kardile	<i>Shital Kardile</i>	80	Nikita Parve	<i>Parve Nikita</i>	105	Prachi Walekar	<i>Prachi Walekar</i>
4	Rachha Akankar		30	Hemshada Devarn		56	Prajati Katar	<i>Prajati Katar</i>	81	Jashvi Patro	<i>Patro Jashvi</i>	106	Vaibali Wagh	<i>Vaibali Wagh</i>
5	Rutuja Atkute	<i>Atkute Rutuja</i>	31	Sakshi Gade		57	Manisha Kevai		82	Sakshi Pathare		107	Sakshi Waghmare	
6	Akshita Arkar		32	Nikita Gulkave	<i>Gulkave Nikita</i>	58	Pratiksha Kumbhane		83	Bhagyotri Patil		108	Vaibhavi Waghmare	<i>Waghmare Vaibhavi</i>
7	Mishra Anar		33	Vaibhavi Gaudli		59	Pratiksha Kothawale		84	Kirti Patil		109	Taraya Walke	
8	Vandha Bangar		34	Shweta Galkal		60	Ratika Kalsagar	<i>Ratika Kalsagar</i>	85	Vaibhavi Patil		110	Sejal Walunj	
9	Pratiksha Bhambhani	<i>Bhambhani Pratiksha</i>	35	Anjali Gaudan		61	Vaibhavi Labade		86	Akshata Patwar	<i>Patwar Akshata</i>	111	Bhakar Mayani	
10	Nandini Bhavner		36	Anni Gavali	<i>Gavali Anni</i>	62	Prajati Landge	<i>Landge Prajati</i>	87	Priyanka Pharshe		112	Bhargate Vrushali	<i>Vrushali Bhargate</i>
11	Vandha Bhalare		37	Prachi Gavate	<i>Gavate Prachi</i>	63	Prajati Lekhande	<i>Lekhande Prajati</i>	88	Divya Rane		113	Bhajanrpeda	
12	Akshata Bhor		38	Haryade Gaware		64	Kajyari Madake	<i>Madake Kajyari</i>	89	Prachi Ranjane		114	Bharati Nikin	
13	Sayali Bhor	<i>Bhor Sayali</i>	39	Prati Ghemad		65	Ukarshta Mahajan	<i>Mahajan Ukarshta</i>	90	Ankita Rathod	<i>Rathod Ankita</i>	115	Choudhary Payal	
14	Aishwarya Bhor		40	Prachi Ghoshle	<i>Ghoshle Prachi</i>	66	Gayatri Mahantani	<i>Mahantani Gayatri</i>	91	Divya Rathod		116	Date varsha	
15	Mrunaly Bhorale	<i>Bhorale Mrunaly</i>	41	Rutuja Chaudam		67	Ashwini Mohite	<i>Mohite Ashwini</i>	92	Prajati Sahaske		117	Gurke shruvi	
16	Manavi Bharkad	<i>Bharkad Manavi</i>	42	Vedani	<i>Vedani</i>	68	Sayali More	<i>More Sayali</i>	93	Anagha Sata		118	Jadhav joti	<i>Jadhav Joti</i>



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17	Basha Bagwan	43	Gulhare Vanitavi Gupta	69	Saravali Mude	94	Siddhi Sewal	119	Jaiwal Jadhav
18	Priya Chaudan	44	Anuja Ghose	70	Anushka Nagare	95	Aishwarya Seyarekar	120	Kabec Akanksha
19	Aishwarya Chaudhari	45	Sakshi Gurav	71	Panksha Nale	96	Aditi Shevkari	121	Menshar Shastri
20	Ashwini Dufal	46	Anjali Hasde	72	Prerna Nandikile	97	Hansika Singh	122	Mavkar Rutuja
21	Amalika Desai	47	Kadambur Harikan	73	Roshni Padwal	98	Ratna Sonawane	123	Pooja Nikita
22	Sakshi Desaiwar	48	Sakshi Hirwale	74	Samar Padwal	99	Siddhi Sonawane	124	Salunke Sakshi
23	Aditi Dhanawade	49	Sakshi Holkande	75	Amna Pakhare	100	Vaishnavi Sutar	125	Selva deyyani
24	Nikita Dhanawade	50	Neha Jadhav	76	Prachi Patilkar	101	Pranjal Yeware	126	Sreyoshi varsha
25	Dhantri Dhawale	51	Pooja Jadhav	77	Kalyani Pandit	102	Panani Thapale	127	Saro Neha
26	Ritika Dhang	52	Palavi Jadhav			104	Vaibhavi Umop		



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PES MODERN COLLEGE OF PHARMACY (FOR LADIES)
MOSHI, PUNE 412105

SUMMARY REPORT ON GUEST LECTURE

Topic of Guest Lecture: "Basics of formulation development"

Resource Person: Dr. Sanjay Boldhane, Microlabs, Bangalore

Conducted on: 24/06/2023

PES Modern College of Pharmacy (for ladies), Moshi, Pune, has arranged a guest lecture on topic "Basics of formulation development" by the resource person Dr. Sanjay Boldhane, Microlabs, Bangalore. Introduction of the program and resource person was given M. Pharm student. Speaker was welcomed by our respected Principal Dr. Shashikant Dhole sir with bouquet of flowers. In his lecture, he guided students regarding basics of pharmaceutical parameters of tablet formation. He told about strategies in drug discovery and pharmaceutical development. The session was interactive and students were satisfied after listening his thoughts. It was a great experience to be a part of such an informative and helpful session. Overall, the guest lecture was nice and was helpful for improving knowledge. The lecture ended with a vote of thanks given by Priyanka Shinde Mam.



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Conf
Dr R Sakchane



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PES MODERN COLLEGE OF PHARMACY (for ladies), MOSHI, PUNE
ACADEMIC YEAR 2022-23
CLASS- M PHARM SECOOND YEAR (PHARMACEUTICS)
ROLL CALLS

Roll No	Name of student	sign
1	Autade Neha	
2	Bedjawalge Rushali	
3	Bhangare Rutuja	
4	Burad Shruti	
5	Huljute Supriya	
6	Kawale Komal	
7	Kharabi Aishwarya	
8	Madane Shivanjali	
9	Markad Karishma	
10	Narhare Harshda	
11	Shrangare Jyoti	
12	Swami Dakshayani	
13	Valecha Simran	
14	Wadhokar Anjali	
15	Yadav Simran	



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PES MODERN COLLEGE OF PHARMACY (for ladies) MOSHI, PUNE

CLASS: M PHARM SEM I

SPECIALIZATION:
PHARMACEUTICS

STUDENT ENROLMENT

ROLL NO	NAME OF STUDENT
1	APHALE KIRAN SANTOSH
2	BHOSLE VAISHNAVI EKNATH
3	GHUGE SHIVANI JAGANNATH
4	GORE SUVARNA PRASAD
5	HARAKAL POOJA DNYANOBA
6	KAPALE NIKITA PRAVIN
7	KHADE KOMAL SATISH
8	KHEDKAR SANSKRUTI V
9	LONDHE PRATIKSHA SACHIN
10	MUNJAL POOJA SUDAMRAO
11	PRIYANKA SANJAY SONI
12	SHELAR PRANJALI PRALHAD
13	THORAT SNEHAL RAJENDRA
14	TITKARE RUTUJA SURESH
15	TODKAR SHRADDHA SANDEEP
16	UMATE TANUJA YOGANAND
17	WAGHMARE PRATIKSHA S

Vaishnavi

Suvarna

Pooja

Tanuja



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PES MODERN COLLEGE OF PHARMACY (for ladies) MOSHI, PUNE

CLASS: M PHARM SEM I

SPECIALIZATION: PHARM
QUALITY ASSURANCE

STUDENT ENROLMENT

ROLL NO	NAME OF STUDENT
1	AMLE RAKSHA SANJEEO
2	BHIRUD JIDNYASA PARAG
3	BIRADAR KRANTI ATMARAM
4	CHODHARY NILU AMARARAM
5	CHOURE DIVYA SANJAY
6	GHUGE SUSHMA VISHNU
7	ITHAPE VAISHNAVI ARUN
8	JADHAV GAYATRI SOMANATH
9	KAKADE TANUJA BHAUSAHEB
10	KATKADE MANISHA RAMCHANDRA
11	KUTE MONIKA RAJU
12	MOHITE SAKSHI NITIN
13	PATIL AARTI VITTHALRAO
14	PAWAR RUTUJA ANAJI
15	PAWAR SHRUTI SUNIL
16	SALUNKHE TEJAL AJAY
17	YELWANDE PURVA BALASAHEB

Kranti

Choure

mitha

Kakade

Mohite

Patil

Yelwande



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Professional ethics

21-22

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Date: 27/09/2021

REPORT

National Pharmacy Week (NPW) was organized at our institute during 18 to 25 September 2021 with the national theme for the year, "Pharmacy: Always trusted for your healthcare."

Various competitions were organized with exciting prize Theme based drawing and Pharma best WhatsApp quote was conducted for D. Pharm students for B. Pharm candidates Pharma Ad- Mad poster presentation competitions were arranged and problem solving competition on the topic: solution for mental pollution was conducted for M pharm students. The entries for the competitions as done by free registration through google form was circulated on 15-September 2021.

The event witnessed participation in huge number with 100 plus registrations for theme based drawing & pharma best whatsapp quote and around 100 participations in poster presentation competition. Good number of entries were also seen for problem solving competition. The participants were from various institutes across the state. Evaluation of different competitions as done by our competent faculty the winners were announced on the occasion of world The pharmacist day 25th September Winner awarded with cash prize and all participants were given certificate of participations.



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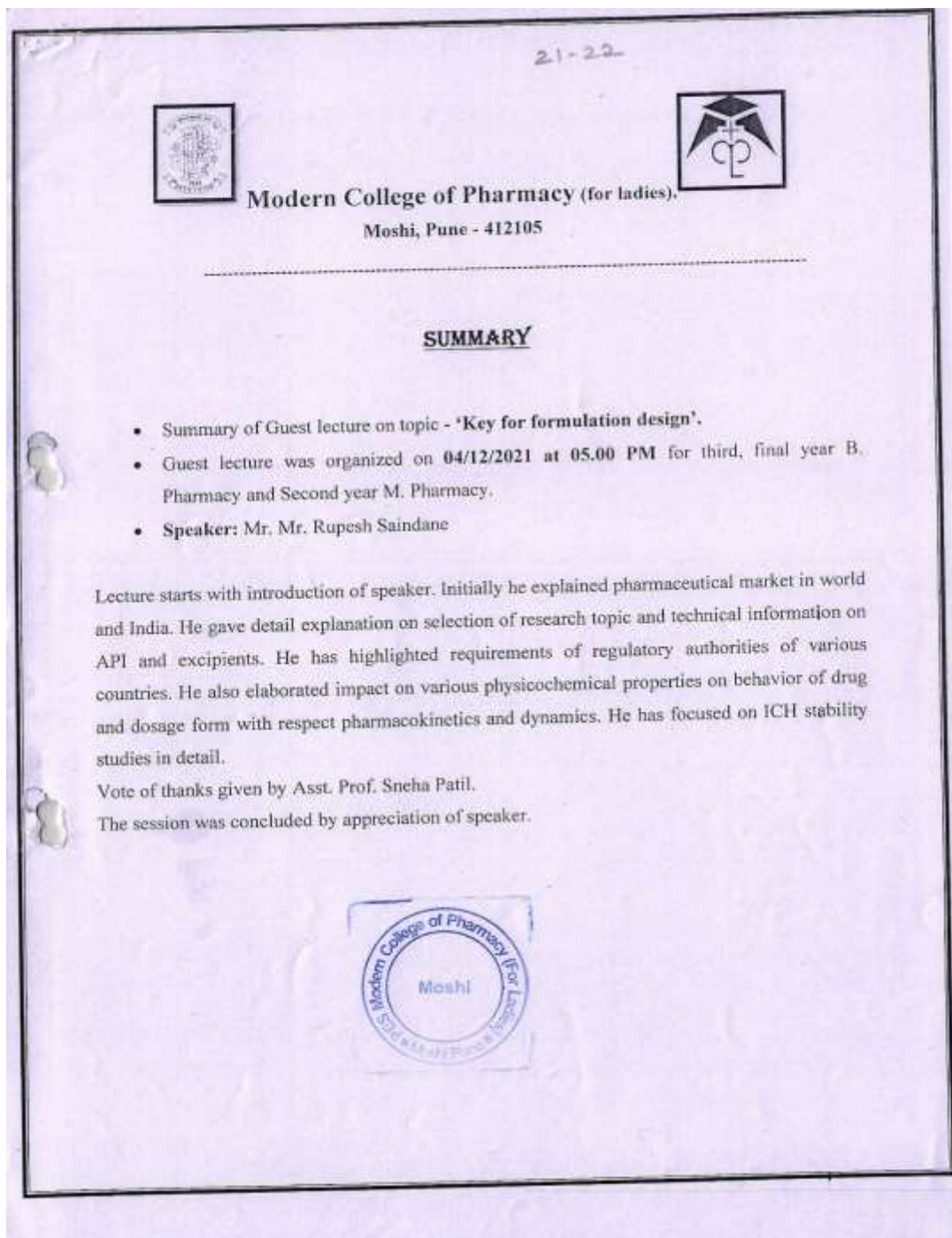
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The competition became a grand success under the convenership of prin. Prof. Dr.S N Dhole with keen involvement and hard work of faculty co ordinators Dr. Vijaya Vichare, Ms. Rutuja Aher ,Ms. Srutuja Jadhav along with student co-ordinators.

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The photograph shows a document from Modern College of Pharmacy (for ladies) in Moshi, Pune. The document is a report of an industry expert lecture. The lecture was on the topic "Key for formulation design" and was given by Mr. Rupesh Saindane, a research scientist at Abbott Healthcare Pvt. Ltd, Mumbai. The lecture took place on 04/12/2022 from 05:00 PM to 06:00 PM. Below the text is a screenshot of a presentation slide titled "Pharmaceutical Market in India". The slide content is mostly illegible but appears to contain a table or chart. To the right of the slide is a weather widget for Pimpri-Chinchwad, Maharashtra, India, showing a temperature of 24°C (75°F) on 2021-12-04 (Sat) at 05:09 PM. A circular stamp of the college is visible at the bottom of the screenshot.

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Modern College of Pharmacy (for ladies),

Moshi, Pune - 412105



SUMMARY

- Summary of Guest lecture on topic - 'Nonclinical drug development and regulatory approval process of novel therapeutics'.
- Guest lecture was organized on 12/03/2021 at 11.00 AM for second, third and final year B. Pharmacy students and First, Second year M. Pharmacy students.
- **Speaker:** Mr. Govind Bhagnure

Lecture starts with introduction of speaker. Initially he explained the drug approval process in detail and then highlighted regulatory agencies of different countries. He gave brief explanation on NDA, ANDA, INDA and BLA. He has highlighted on phases of clinical trials and also covered history of drug regulations in India. He also explained drug regulatory approval process in India and USA. Vote of thanks given by Asst. Prof. Sneha Patil.

The session was concluded by appreciation of speaker.

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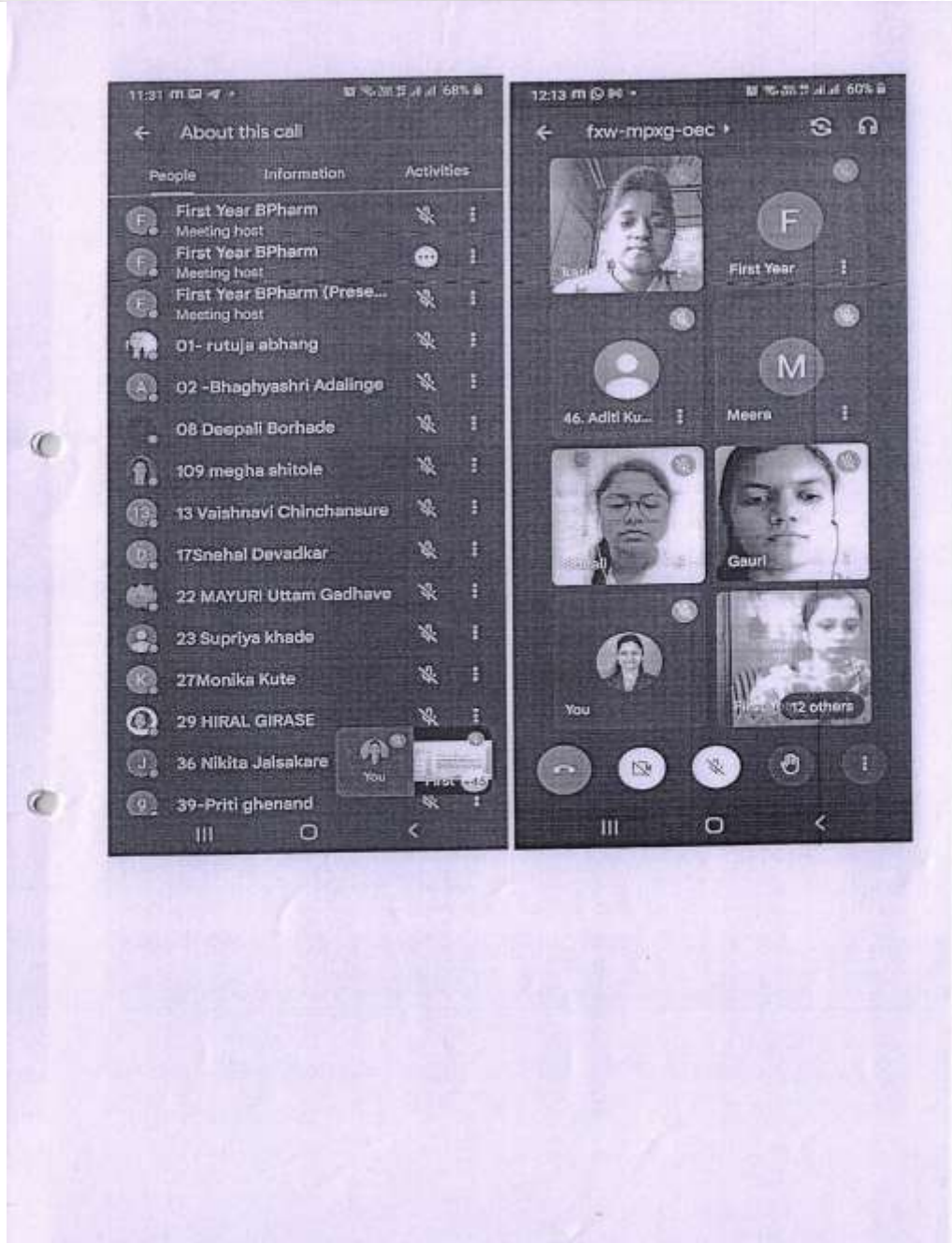
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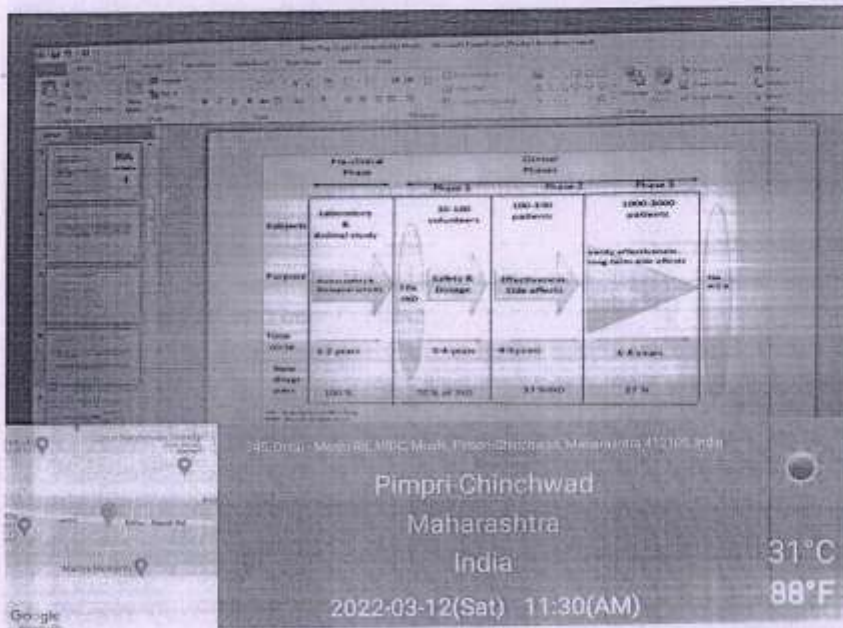


Modern College of Pharmacy (for ladies)
Moshi, Pune-412105



**Report of Industry expert lecture on
“Nonclinical drug development and regulatory approval process of
novel therapeutics”**

Speaker: Mr. Govind Bhagnure
Expert trainer for pharma domain, Pune
Date- 12/03/2022
Time- 11.00 AM – 12.30 PM



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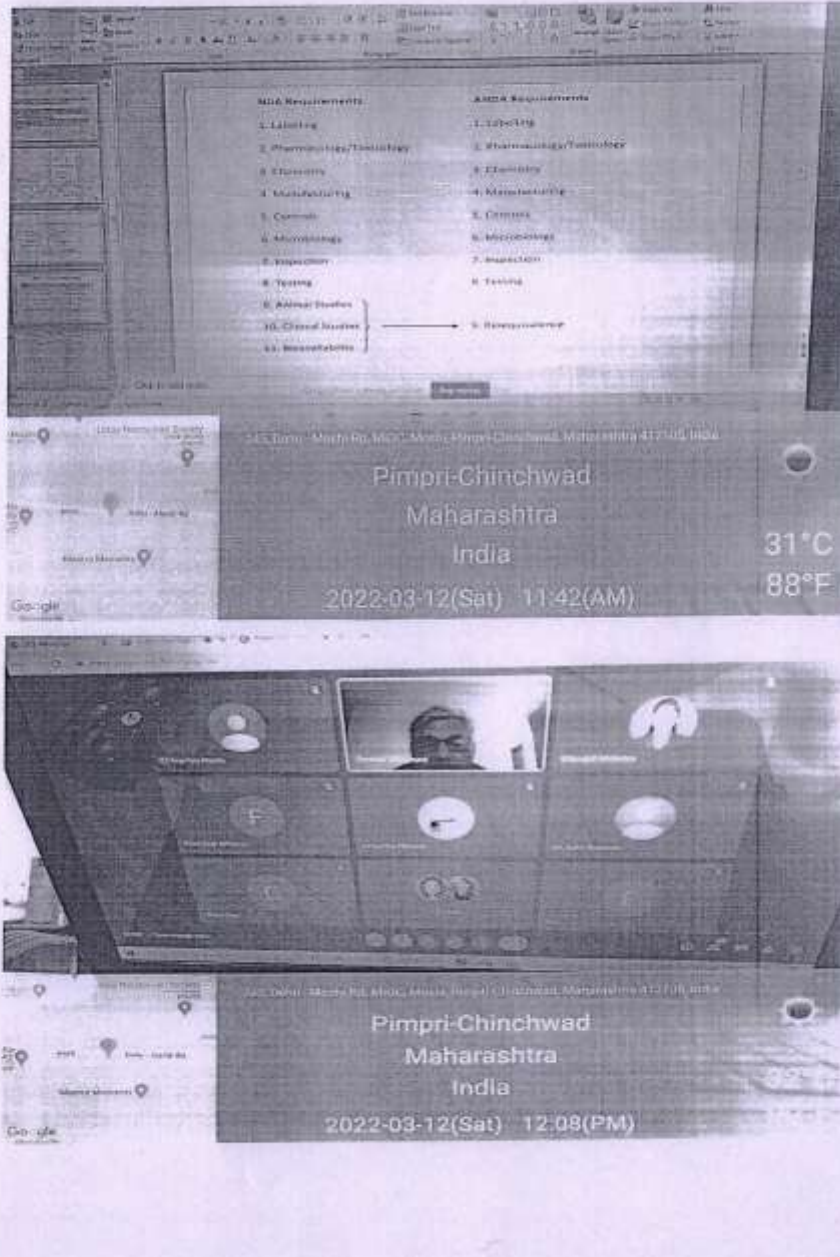


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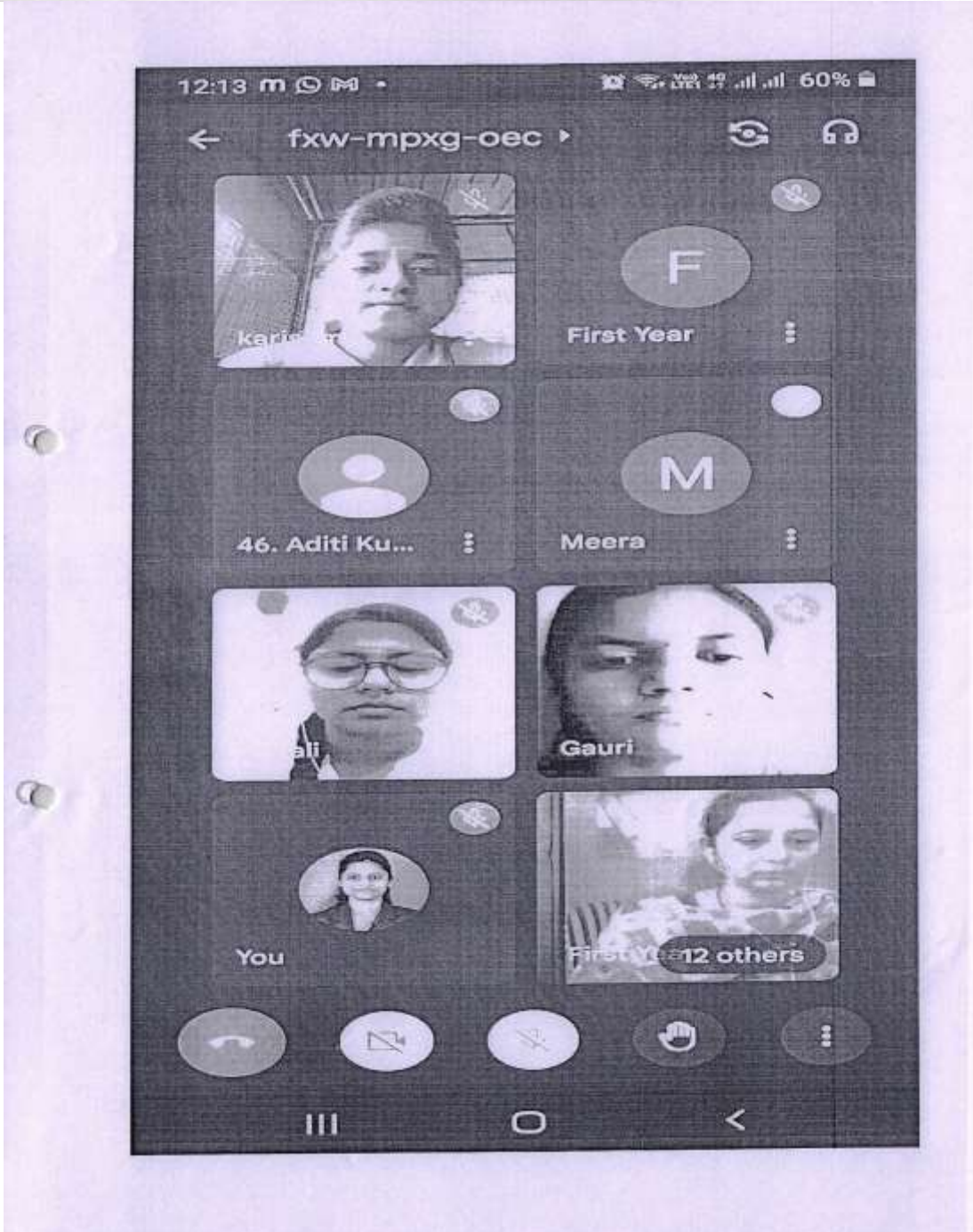
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Professional Ethics (2020-21)



Modern College of Pharmacy (for ladies),
Moshi, Pune -412105



SUMMARY

- Summary of Guest lecture on topic - 'Drug and social media addiction'.
- Guest lecture was organized on 27/06/2021 at 11.00 AM for First, second, third and final year students.
- **Speaker:**Ms. MugdhaChandorkar.

Lecture starts with introduction of speaker. Initially she conducted meditation to keep mind fresh, calm and relax. She explained the stages of substance of drug abuse. Then she describe how to identify person having social addiction and how to overcome it. Then she explained 15 minutes selfcare tips to reduce addiction and calm mind. Vote of thanks given by Asst. Prof.SnehaPatil. The session was concluded by appreciation of speaker.





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20-21
Modern College of Pharmacy (for ladies)
Moshi, Pune-412105



Report of guest lecture on
"Drug and social media addiction"
Speaker: Ms. Mugdha Chandorkar,
Counselor and wellness teacher,
C M International School, Pune
Date- 27/06/2021
Time- 11.00 AM – 12.00PM



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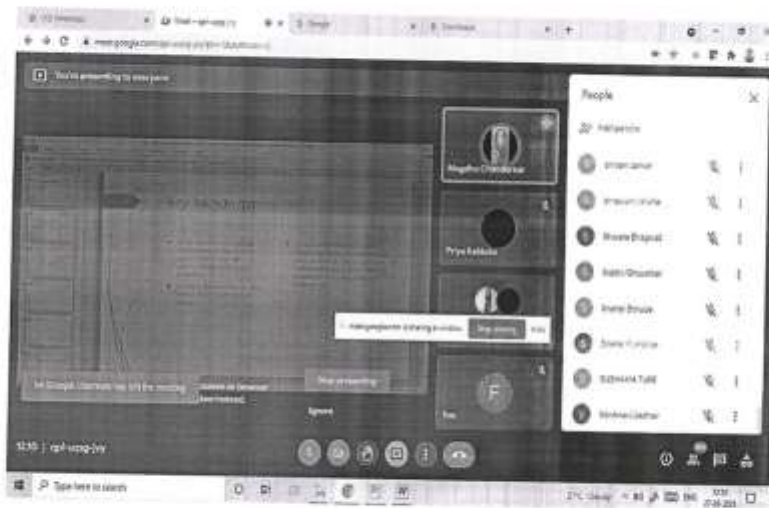
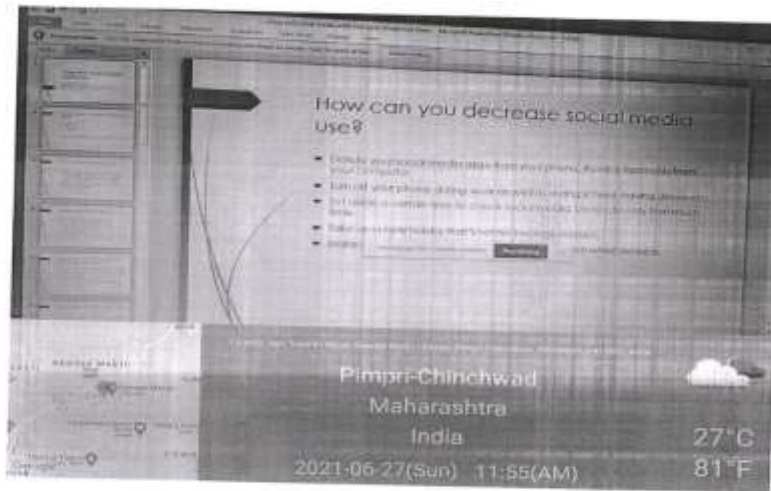


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REPORT ON GUEST LECTURE

The guest lecture was arranged in Modern college of pharmacy for ladies, Moshi Pune at 19th Sept 2021.

Chief Guest and imminent speaker: Mr. Yogesh Sudam Kale, Proprieter of Arnav pharmaceuticals, ltd Pune

Date: 19 th Sept 2021.

Time: 10:00am-11.00 am

Venue: Online mode Zoom(Due to Covid-19)

The guest lecture was held on 19th Sept 2021 in Modern college of pharmacy (L), Moshi, Pune on the Topic of "Approach to community pharmacy-An overview". The Students of F.Y and S.Y. D. Pharm were joined by the shared link of zoom.

Mr.Yogesh S. Kale was the chief guest and imminent speaker who is working as propriter of Arnav pharmaceuticals ltd since 15 years.

He guided the students to identify the key skills in yourself. He motivated and guide the students for Handling, managing of firm (pharmacy). He guided the students about licensing procedure,Documentation required for wholesale and retails, New registration of pharmacy, renewal procedure of license

The session was interactive and students were satisfied to listen the thoughts.

The Arranged guest lecture was motivated and inspirational.



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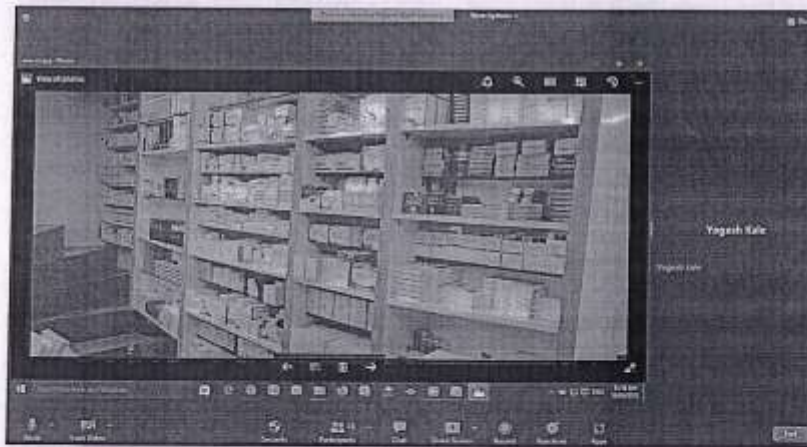
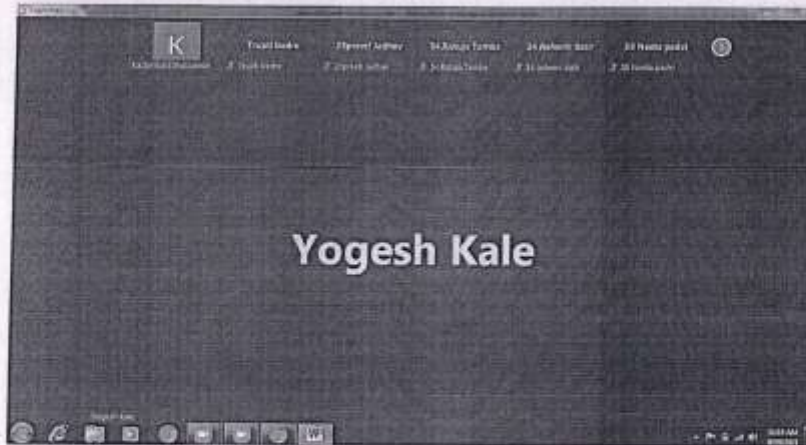
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PHARMACISTS DAY CELEBRATION- RALLY

Date: 25/09/2018

Venue: At. Moshi Village, Tal- Haveli, Dist- Pune

As our college is running professional course of Pharmacy, in regards to that NSS volunteers celebrated Pharmacist day wherein a rally was organized in the Moshi gavthan. During this the NSS volunteers created awareness amongst the people regarding the role of Pharmacists in the society, how to consume medication properly. How to overcome side effects etc.

PHARMACIST DAY RALLY




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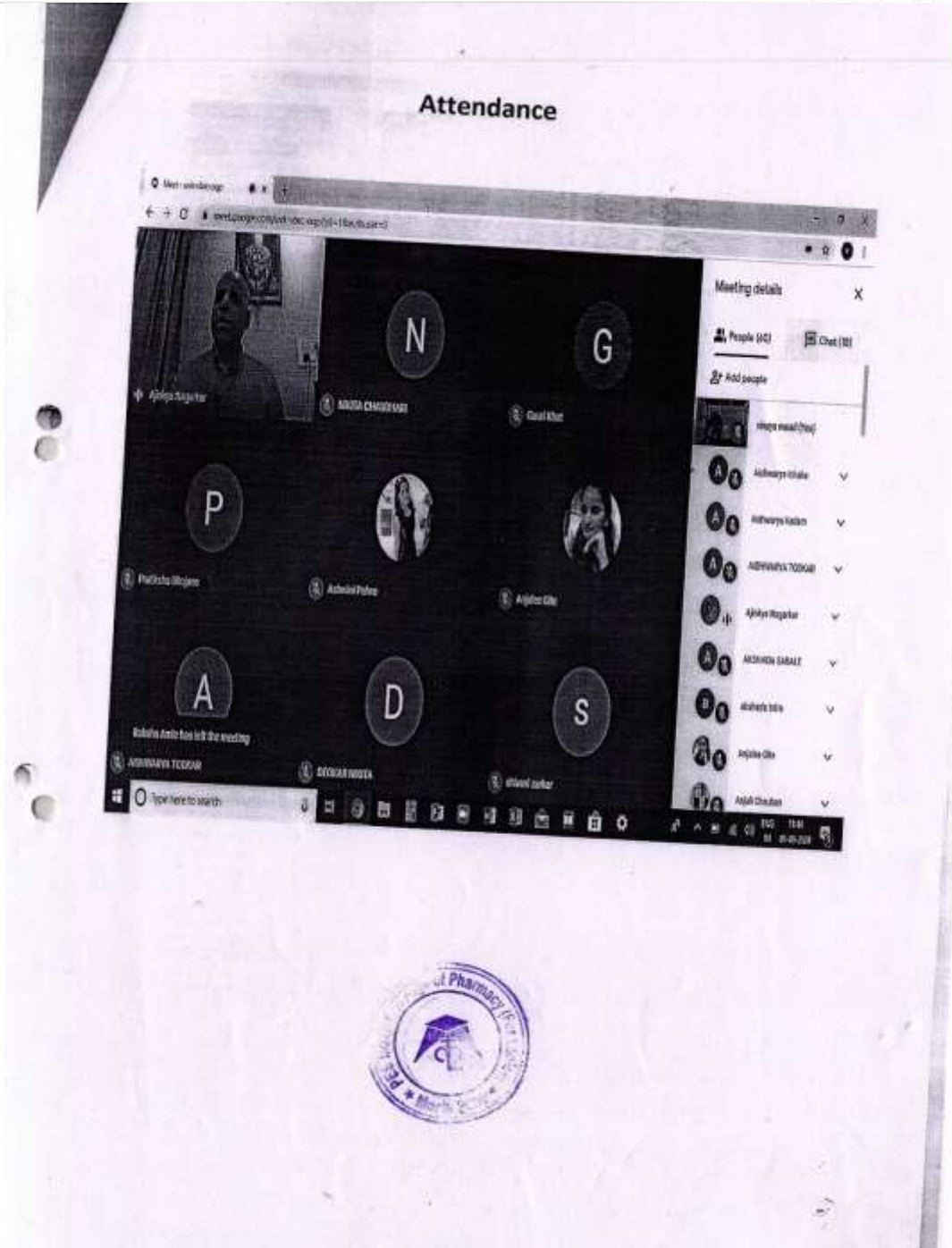
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PES MODERN COLLEGE OF PHARMACY (FOR LADIES), MOSHI, PUNE

REPORT

Event – Guest lecture on Cyber awareness

Speaker – Adv. Dr. Deepti Lele

Modern College of Pharmacy (For Ladies), Moshi has arranged the lecture on "Cyber awareness" on 3rd October 2019. On this occasion institute has invited Adv. Dr. Deepti Lele to guide students. Program was started at 2.00 pm. Introduction of program was given by women cell student representative Ms. Rutuja Yadav. She was welcomed by Presiding officer of ICC Mrs. Vinaya Warad. Introduction of speaker was given before the lecture by S. Y. B. Pharm student Ms. Anjali Gite. Speaker Adv. Dr. Deepti Lele has delivered lecture for two hours. In her lecture she narrated different types of cybercrimes with real world incidences. She warned students to be careful as India ranks number three in incidences cybercrime. She told students that they should always check authenticity of website. She informed students that in Pune cyber cell is located at Bund garden. She made students aware that WhatsApp account can be hacked even though messages are encrypted. She advised students to install anti-phishing and antivirus software on mobile. She told that it is difficult to prove cybercrime, so be careful in cyber world. She made students aware about use of public Wi-Fi for important transactions. She described that while using computers and internet one should follow netiquette. At the end of program vote of thanks were extended by S. Y. B. Pharm student Ms. Anjali Gite.



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Attendance record

2019-2020

Class: Second Year B. Pharm

Event: *Cyber awareness Program*
Date: *3.10.2019*

Roll no	Name of student	Sign	Roll no	Name of student	Sign	Roll no	Name of student	Sign
1	Alhat Shwetali Ulhas	<i>[Signature]</i>	24	Khair Bhagyashree S.	<i>[Signature]</i>	46	Shinde Akanksha M.	<i>[Signature]</i>
2	Amle Raksha Sanjeeo	<i>[Signature]</i>	25	Khedkar Sanskruti Vijay	<i>[Signature]</i>	47	Shubhada Babu C.	<i>[Signature]</i>
3	Asawale Shruti Sanjay	<i>[Signature]</i>	26	Khot Gauri Subhash	<i>[Signature]</i>	48	Siddhi R. Ghosalkar	<i>[Signature]</i>
4	Baidmuttha Manasi M.	<i>[Signature]</i>	27	Kute Monika Raju	<i>[Signature]</i>	49	Sirvi Jinalkumari D.	<i>[Signature]</i>
5	Bhagwat Shradha H.	<i>[Signature]</i>	28	Lakade Aditi Anil	<i>[Signature]</i>	50	Snehal A. Kamate	<i>[Signature]</i>
6	Bhosale Mayuri Kisunrao	<i>[Signature]</i>	29	Maravade Payal Sanjay	<i>[Signature]</i>	51	Sukre Vaishnavi N.	<i>[Signature]</i>
7	Borude Snehal Tukaram	<i>[Signature]</i>	30	Momin Juveriya Anwar	<i>[Signature]</i>	52	Tarade Snehal Vilas	<i>[Signature]</i>
8	Chavan Anjali Vitthal	<i>[Signature]</i>	31	Mungase Yashda Arun	<i>[Signature]</i>	53	Todkar Aishwarya D.	<i>[Signature]</i>
9	Deokar Nikita Dhanaji	<i>[Signature]</i>	32	Naik Divya Sanjay	<i>[Signature]</i>	54	Ture Sushama Sitaram	<i>[Signature]</i>
10	Dumbare Priyanka Raju	<i>[Signature]</i>	33	Pachpor Samridhi	<i>[Signature]</i>	55	Yadav Rutuja H.	<i>[Signature]</i>
11	Gaikwad Snehal S.	<i>[Signature]</i>	34	Palwe Ashwini Ishwar	<i>[Signature]</i>	56	Yewale Urmila S.	<i>[Signature]</i>
12	Gawade Rutuja Sanjay	<i>[Signature]</i>	35	Pandit Mayuri Pralhad	<i>[Signature]</i>	57	Zadke Swapnali Ram	<i>[Signature]</i>
13	Ghule Sakshi D.	<i>[Signature]</i>	36	Patil Anuja Pramod	<i>[Signature]</i>	58	Bomshete Pooja	<i>[Signature]</i>
14	Giri Akshata Dhanraj	<i>[Signature]</i>	37	Patil Komal Pravin	<i>[Signature]</i>	59	Chavan Asha	<i>[Signature]</i>
15	Gite Anjalee Ajinath	<i>[Signature]</i>	38	Pawar Piyusha Vasant	<i>[Signature]</i>	60	Gunje Neha	<i>[Signature]</i>
16	Harale Shrutika	<i>[Signature]</i>	39	Pawar Sayali Pravin	<i>[Signature]</i>	61	Gunjal Shrutika	<i>[Signature]</i>
17	Jadhav Pranita Pramod	<i>[Signature]</i>	40	Pharate Pooja C.	<i>[Signature]</i>	62	Kale Priyanka	<i>[Signature]</i>
18	Jadhav Vaishnavi Rajesh	<i>[Signature]</i>	41	Pote Durga Bansital	<i>[Signature]</i>	63	Kamalu pooja	<i>[Signature]</i>
19	Kadam Aishwarya D.	<i>[Signature]</i>	42	Sakore Preeti T.	<i>[Signature]</i>	64	Kamble Shradha	<i>[Signature]</i>
20	Karad Pallavi Govind	<i>[Signature]</i>	43	Rajput Priyanka P.	<i>[Signature]</i>	65	Karhile Rajashri	<i>[Signature]</i>
21	Karpe Shrutika Sunil	<i>[Signature]</i>	44	Shah Muskan Akram	<i>[Signature]</i>	66	Sante Rohini	<i>[Signature]</i>
22	Kate Apurva Hemant	<i>[Signature]</i>	45	Shelar Sayali T.	<i>[Signature]</i>	67	Shejul Arti	<i>[Signature]</i>
23	Khade Supriya M.	<i>[Signature]</i>				68	Vaidya Meera	<i>[Signature]</i>



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Attendance record 2019-2020

Class: Final Year B. Pharm

Event: *Cyber awareness Program*
Date: *3/10/2019*

Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
1.	Baradkar Priyanka Dilip	<i>[Signature]</i>	24.	Jadhav Pranali	<i>[Signature]</i>	47.	Phad Swayamprabha D.	
2.	Bhakare Swarali V.	<i>[Signature]</i>	25.	Jadhav Rohini Lala	<i>[Signature]</i>	48.	Pise Samruddhi D.	<i>[Signature]</i>
3.	Bhoir Bhukti Mohan	<i>[Signature]</i>	26.	Jadhav Shweta C.		49.	Raghu Priti Umakant	<i>[Signature]</i>
4.	Bhumkar Prajakta Vilas	<i>[Signature]</i>	27.	Jadhav Tejaswini S.		50.	Rale Rujuta Manik	<i>[Signature]</i>
5.	Borate Komal Tanaji	<i>[Signature]</i>	28.	Jagtap Reshma Suresh		51.	Rutuja Maruti Pansare	<i>[Signature]</i>
6.	Chavan Chaityalya	<i>[Signature]</i>	29.	Jaid Kanchan D.		52.	Sandbhor Supriya S	<i>[Signature]</i>
7.	Deshmukh Sanchita H.		30.	Katakshond Shraddha		53.	Saraf Priya Madhav	
8.	Dhengale Rohini D.	<i>[Signature]</i>	31.	Kharabi Aishwarya J.		54.	Sawant Trupti D.	<i>[Signature]</i>
9.	Dhepe Sayali Dattu		32.	Khird Snehal Sujit		55.	Shinde Dipti Janardan	<i>[Signature]</i>
10.	Dhumal Aishwarya K.		33.	Kulkarni Kalpita K.		56.	Shingade Pooja B.	<i>[Signature]</i>
11.	Doiphode Aarti Rajan	<i>[Signature]</i>	34.	Lad Shital Balasaheb		57.	Shivekar Prajakta R.	<i>[Signature]</i>
12.	Durg Ambika Prakash	<i>[Signature]</i>	35.	Lagad Aishwarya M.		58.	Sonawane Rutuja B.	
13.	Ganage Vaibhavi Maruti	<i>[Signature]</i>	36.	Langhi Tejaswini F.	<i>[Signature]</i>	59.	Takale Pradnya N.	
14.	Garje Shweta Vitthal	<i>[Signature]</i>	37.	Lanke Apoorva Sunil	<i>[Signature]</i>	60.	Tale Prathana Anil	
15.	Gawade Kajal Vishnu	<i>[Signature]</i>	38.	Lohakare Madhuri M.		61.	Tanpure Dipanjali B.	
16.	Gawade Sayali Ashok		39.	Mahajan Devyani R.		62.	Thorat Pallavi S.	
17.	Ghige Sushmita Maruti		40.	Mali Kalyani Ram		63.	Torde Ashwini	
18.	Ghongade Sujita S.		41.	Mungase Shraddha D.		64.	Wadane Shivani S.	
19.	Gilbile Prajakta Subhash		42.	Murhe Monika Ramdas		65.	Wagh Priyanka Maruti	
20.	Gore Shraddha P.	<i>[Signature]</i>	43.	Ovhal Komal Baban	<i>[Signature]</i>	66.	Waghmare Sneha D.	<i>[Signature]</i>
	Harde Prachi Rajaram	<i>[Signature]</i>	44.	Padwal Rutuja S.	<i>[Signature]</i>	67.	Zope Pranjali Hemant	<i>[Signature]</i>
	Jadhav Aarti Arjun	<i>[Signature]</i>	45.	Patil Apurva Bhau	<i>[Signature]</i>			
	Jadhav Pooja Subhash	<i>[Signature]</i>	46.	Pawar Vrushi R.	<i>[Signature]</i>			



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**PROGRESSIVE EDUCATION SOCIETY
MODERN COLLEGE OF PHARMACY FOR LADIES
MOSHI, PUNE 412105**

SUMMARY REPORT ON GUEST LECTURE

Topic of Guest Lecture: "Drug Inspector as career"

Name of the Speaker: Dr. Vishal Kachare

Modern College of Pharmacy (for ladies), Moshi, Pune, has arranged a guest lecture on topic "Drug Inspector as career" by DR. Vishal Kachare Sir (Drug Inspector, CDSCO, Government of India). Introduction of the Program and Speaker was given by our S. Y. B. Pharm Student Ms. Rutuja Yadav. Speaker was welcomed by our Principal Dr. S. N. Dhole sir with shawl and Shriphal. In his Lecture he guide students regarding qualities and Qualifications required for "Drug Inspector as career", in this he told upgrading of our skill in day today life is very important to achieve our Goal, he also explain that work with team is necessary to develop ourself. Overall the guest lecture was nice and was helpful for improving knowledge.



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Government of Maharashtra No. TEM/2004(235/04) TE-1, Pharmacy Council of India (32-347/2012-PCI),
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PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

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M. Pharm., Ph. D.
Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune



Amle
(Mrs. R.A. Bhalerao)
Guest Lecture Teacher



soje
Principal
PES Modern College of Pharmacy

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Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

253

Attendance record 2019-2020

Class: First Year B. Pharm

Event: A Guest Lecture on "Drug Inspector as Career"

Date: 11-01-2020

Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
1.	Abhang Rutuja	<i>[Signature]</i>	21.	Dhumase Punam	<i>[Signature]</i>	41.	Kamble Pooja Bapu	<i>[Signature]</i>
2.	Alhat Vaishnavi	<i>[Signature]</i>	22.	Dighe Aparna Sitaram	<i>[Signature]</i>	42.	Kamble Shashvati	<i>[Signature]</i>
3.	Bachhav Shubhangi	<i>[Signature]</i>	23.	Dolare Harshada	<i>[Signature]</i>	43.	Karpe Vaishnavi	<i>[Signature]</i>
4.	Bagade Shruti Sharad	<i>[Signature]</i>	24.	Dongarkar Sanskruti	<i>[Signature]</i>	44.	Khadake Neha	<i>[Signature]</i>
5.	Bagul Ruchita Sahebrao	<i>[Signature]</i>	25.	Gadhawe Mayuri	<i>[Signature]</i>	45.	Khalure Ambika Sanjay	<i>[Signature]</i>
6.	Bhakre Shubhada	<i>[Signature]</i>	26.	Gadilkar Mrunmayee	<i>[Signature]</i>	46.	Khedkar Shivani	<i>[Signature]</i>
7.	Borade Smita Yuvraj	<i>[Signature]</i>	27.	Gaikwad Tejaswini	<i>[Signature]</i>	47.	Kokane Varsha Shivaji	<i>[Signature]</i>
8.	Borhade Deepali Sudam	<i>[Signature]</i>	28.	Game Rohini Sunil	<i>[Signature]</i>	48.	Kolhe Vaishnavi Vijay	<i>[Signature]</i>
9.	Bute Bhavna	<i>[Signature]</i>	29.	Gawade Susmita	<i>[Signature]</i>	49.	Kumavat Aditi	<i>[Signature]</i>
10.	Chavan Namrata	<i>[Signature]</i>	30.	Gaware Akshada	<i>[Signature]</i>	50.	Kumbhar Siddhi	<i>[Signature]</i>
11.	Chavan Prerna Vijay	<i>[Signature]</i>	31.	Gengajee Tejal S.	<i>[Signature]</i>	51.	Kumbhare Shivani	<i>[Signature]</i>
12.	Chikhale Neha	<i>[Signature]</i>	32.	Ghandure Rutuja	<i>[Signature]</i>	52.	Lohakare Apurva	<i>[Signature]</i>
13.	Chinchansure Vaishnavi	<i>[Signature]</i>	33.	Girase Hiral B.	<i>[Signature]</i>	53.	Lokhande Sayali	<i>[Signature]</i>
14.	Chorge Shubhangi	<i>[Signature]</i>	34.	Goswami Priyanka	<i>[Signature]</i>	54.	Mahanavar Pratiksha	<i>[Signature]</i>
15.	Choudhari Aishwarya	<i>[Signature]</i>	35.	Gowda Aishwarya	<i>[Signature]</i>	55.	Mankari Vaishnavi	<i>[Signature]</i>
16.	Dahiwal Samruddhi	<i>[Signature]</i>	36.	Gurav Bhakti Santosh	<i>[Signature]</i>	56.	Mhetre Ankita	<i>[Signature]</i>
17.	Dawn Suchismita Amit	<i>[Signature]</i>	37.	Jagatap Shraddha	<i>[Signature]</i>	57.	More Janhavi Vivek	<i>[Signature]</i>
18.	Devadkar Snehal	<i>[Signature]</i>	38.	Jalsakare Nikita	<i>[Signature]</i>	58.	Musale Shravani	<i>[Signature]</i>
19.	Dhadge Aaditi Jalindar	<i>[Signature]</i>	39.	Joshi Ketki Kedar	<i>[Signature]</i>			
20.	Dhokare Priya	<i>[Signature]</i>	40.	Kad Neha Ulhas	<i>[Signature]</i>			

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Business Council P.E. Society, Pune

Attendance record 2019-2020
Class: First Year B. Pharm

Event: "Drug Inspector as Career" Guest Lecture
Date: 11/01/2020

Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
			77.	Sathe Rohini Sunil	<i>Rohini S.</i>
59.	Nagare Ashvini Dinkar	<i>Ashvini</i>	78.	Sayali Gajabhau	<i>Sayali</i>
60.	Narkhede Shruti Vijay	<i>Shruti</i>	79.	Shaikh Nazal	<i>Nazal</i>
61.	Narwade Komal	<i>Komal</i>	80.	Shinde Komal Sanjay	<i>Shinde K</i>
62.	Nimborgi Virakshi	<i>Virakshi</i>	81.	Shinde Shubhangi	<i>Shinde S</i>
63.	Pandit Anisha Gulabrao	<i>Anisha</i>	82.	Shinde Vaishvi	<i>Vaishvi</i>
64.	Pansare Snehal	<i>Snehal</i>	83.	Shreya Nandir Londhe	<i>Shreya</i>
65.	Patil Harshada Maruti	<i>Harshada</i>	84.	Sonawane Akanksha	<i>Akanksha</i>
66.	Pawar Rutuja Santosh	<i>Rutuja</i>	85.	Suryawanshi Sonal	<i>Sonal</i>
67.	Phartale Anisha Rajendra	<i>Anisha</i>	86.	Taware Rutuja Rahul	<i>Rutuja</i>
68.	Phatangare Akanksha	<i>Akanksha</i>	87.	Thorat Samiksha	<i>Samiksha</i>
69.	Pikle Prajakta Kashinath	<i>Prajakta</i>	88.	Vajale Sneha	<i>Sneha</i>
70.	Pole Ahilya Jaywant	<i>Ahilya</i>	89.	Wagh Pallavi Santosh	<i>Pallavi</i>
71.	Rahane Achal Kailas	<i>Achal</i>	90.	Wagh Sakshi Kisan	<i>Sakshi</i>
72.	Rakshe Sakshi Hanumant	<i>Sakshi</i>	91.	Waghmare Apurva	<i>Apurva</i>
73.	Raut Pratiksha Nilkhant	<i>Pratiksha</i>	92.	Waghmare Ashwini	<i>Ashwini</i>
74.	Raut Prerana Prakash	<i>Prerana</i>	93.	Walunj Rutuja Gulab	<i>Rutuja</i>
75.	Sable Ku Janhavi Rajesh	<i>Janhavi</i>	94.	Wangwad Shweta	<i>Shweta</i>

96. Sansuddhi Jagtap

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Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Attendance record 2019-2020

Class: Second Year B. Pharm

Event: Guest lecture on "Drug Inspector as Career"
Date: 11/01/2020 Saturday

Roll no	Name of student	Sign	Roll no	Name of student	Sign	Roll no	Name of student	Sign
1	Alhat Shwetali Ulhas	<i>Shwetali</i>	24	Khair Bhagyashree S.	<i>Bhagyashree</i>	46	Shinde Akanksha M.	<i>Shinde</i>
2	Amle Raksha Sanjeev	<i>Raksha</i>	25	Khedkar Sanskruti Vijay	<i>Sanskruti</i>	47	Shubhada Babu C.	<i>Babu</i>
3	Asawale Shruti Sanjay	<i>Shruti</i>	26	Khot Gauri Subhash	<i>Gauri</i>	48	Siddhi R. Ghosalkar	<i>Siddhi</i>
4	Baidmutha Manasi M.	<i>Manasi</i>	27	Kute Monika Raju	<i>Monika</i>	49	Sirvi Jinalkumari D.	<i>Sirvi</i>
5	Bhagwat Shraddha H.	<i>Shraddha</i>	28	Lakade Aditi Anil	<i>Aditi</i>	50	Snehal A. Kamate	<i>Snehal</i>
6	Bhosale Mayuri Kisanrao	<i>Mayuri</i>	29	Maravade Payal Sanjay	<i>Payal</i>	51	Sukre Vaishnavi N.	<i>Sukre</i>
7	Borude Snehal Tukaram	<i>Snehal</i>	30	Momin Juveriya Anwar	<i>Juveriya</i>	52	Tarade Snehal Vilas	<i>Tarade</i>
8	Chavan Anjali Vitthal	<i>Anjali</i>	31	Mungase Yashda Arun	<i>Yashda</i>	53	Todkar Aishwarya D.	<i>Aishwarya</i>
9	Deokar Nikita Dhanaji	<i>Nikita</i>	32	Naik Divya Sanjay	<i>Divya</i>	54	Ture Sushama Sitaram	<i>Sushama</i>
10	Dumbare Priyanka Raju	<i>Priyanka</i>	33	Pachpor Samridhhi	<i>Samridhhi</i>	55	Yadav Rutuja H.	<i>Rutuja</i>
11	Gaikwad Snehal S.	<i>Snehal</i>	34	Palwe Ashwini Ishwar	<i>Ashwini</i>	56	Yewale Urmila S.	<i>Urmila</i>
12	Gawade Rutuja Sanjay	<i>Rutuja</i>	35	Pandit Mayuri Pralhad	<i>Mayuri</i>	57	Zadke Swapnali Ram	<i>Swapnali</i>
13	Ghule Sakshi D.	<i>Sakshi</i>	36	Patil Anuja Pramod	<i>Anuja</i>	58	Bomshete Pooja	<i>Pooja</i>
14	Giri Akshata Dhanraj	<i>Akshata</i>	37	Patil Komal Pravin	<i>Komal</i>	59	Chavan Asha	<i>Asha</i>
15	Gite Anjalee Ajinath	<i>Anjalee</i>	38	Pawar Piyusha Vasant	<i>Piyusha</i>	60	Ganje Neha	<i>Neha</i>
16	Harale Shrutika	<i>Shrutika</i>	39	Pawar Sayali Pravin	<i>Sayali</i>	61	Gunjal Shrutika	<i>Shrutika</i>
17	Jadhav Pranita Pramod	<i>Pranita</i>	40	Pharate Pooja C.	<i>Pooja</i>	62	Kale Priyanka	<i>Priyanka</i>
18	Jadhav Vaishnavi Rajesh	<i>Vaishnavi</i>	41	Pote Durga Bansilal	<i>Durga</i>	63	Kamalu pooja	<i>Pooja</i>
19	Kadam Aishwarya D.	<i>Aishwarya</i>	42	Sakore Preeti T.	<i>Preeti</i>	64	Kamble Shraddha	<i>Shraddha</i>
20	Karad Pallavi Govind	<i>Pallavi</i>	43	Rajput Priyanka P.	<i>Priyanka</i>	65	Karhile Rajashri	<i>Rajashri</i>
	Karpe Shrutika Sunil	<i>Shrutika</i>	44	Shah Muskan Akram	<i>Muskan</i>	66	Sante Rohini	<i>Rohini</i>
	Kate Apurva Hemant	<i>Apurva</i>	45	Shelar Sayali T.	<i>Sayali</i>	67	Shejul Arti	<i>Arti</i>
	Khade Supriya M.	<i>Supriya</i>				68	Vaidya Meera	<i>Meera</i>



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Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Attendance record 2019-2020

Class:Third Year B. Pharm

Event: Guest Lecture on "Drug Inspector as Career"
Date: 11th Jan '2020

Roll no	Name of student	Sign	Roll no	Name of student	Sign	Roll no	Name of student	Sign
1.	Anjali		23.	Gunjal Priya Shivaji		45.	Pawar Vaishnavi A.	
2.	Arjun Sakshi		24.	Hagawane Trupti K.		46.	Pokharkar Priya D.	
3.	Auti Puja Machhindra		25.	Ichake Aishwarya H.		47.	Rakhunde Rutuja S.	
4.	Bangar Ashwini N.		26.	Jadhav Vaishnavi S.		48.	Rakshe Ashwini S.	
5.	Bhagwat Shweta Anil		27.	Kad Pratiksha Kalyan		49.	Rakshe Shrawani E.	
6.	Bhalekar Juee S.		28.	Kaldoke Priya Rohidas		50.	Rashinkar Sneha N.	
7.	Bhilare Nikita Arun		29.	Kalse Pratiksha R.		51.	Rode Dipali Arjun	
8.	Bhogal Saloni J.		30.	Kamble Pranita P.		52.	Sable Sayali Kailas	
9.	Bhojane Pratiksha R.		31.	Kanade Shradha V.		53.	Shinde Snehal Milind	
10.	Borude Rohini Mitthu		32.	Khilari Kajal Natha		54.	Shirsat Ashwini	
11.	Chaudhari Aditi D.		33.	Kokate Priyanka M.		55.	Sonawane Jayshree	
12.	Chaudhari Nikita M.		34.	Kumbhar Snehal P.		56.	Sudke Vaishnavi	
13.	Chavan Divya A.		35.	Lavate Shweta T.		57.	Survase Shruti V.	
14.	Chavan Nikita T.		36.	Magar Geetanjali R.		58.	Swami Pradaya	
15.	Darandale Varsha		37.	Magar Mayuri Raju		59.	Thorat Ankita Vijay	
16.	Date Madhuri Vishnu		38.	Mandale Aishwarya D.		60.	Totre Akshada	
17.	Date Nutan Yashwan		39.	More Pooja Subhash		61.	Umate Rutuja Y.	
18.	Dupargude Ashwini		40.	Mundhe Anuja Sanjay		62.	Yadav Simran Milind	
19.	Fasale Aarti Maruti		41.	Nikita N. Sambar		63.	Zarkar Shivani	
20.	Gargote Pratiksha R.		42.	Pahale Komal Dinkar		64.	Zaware Pallavi	
21.	Gawali Prachi Madan		43.	Panchal Pooja Deepak		65.	Jadhav Sakshi Sunil	
22.	Ghanekar Shrutika S.		44.	Patil Aparna V.				



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Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Attendance record 2019-2020

Class: Final Year B. Pharm

Event: Guest Lecture on "Drug Inspector as Career"
Date: 11/01/2020, Saturday

Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
1.	Baradkar Priyanka Dilip	<i>Priyanka</i>	24.	Jadhav Pranali	<i>Pranali</i>	47.	Phad Swayamprabha D.	<i>Swayam</i>
2.	Bhakare Swarali V.	<i>Swarali</i>	25.	Jadhav Rohini Lala	<i>Rohini</i>	48.	Pise Samruddhi D.	<i>Samruddhi</i>
3.	Bhoir Bhakti Mohan	<i>Bhoir</i>	26.	Jadhav Shweta C.	<i>Shweta</i>	49.	Raghu Priti Umakant	<i>Priti</i>
4.	Bhumkar Prajakta Vilas	<i>Prajakta</i>	27.	Jadhav Tejaswini S.	<i>Tejaswini</i>	50.	Rale Rujuta Manik	<i>Rujuta</i>
5.	Borate Komal Tanaji	<i>K.T. Borate</i>	28.	Jagtap Reshma Suresh	<i>Reshma</i>	51.	Rutuja Maruti Pansare	<i>Rutuja</i>
6.	Chavan Chaityalya	<i>Chaityalya</i>	29.	Jaid Kanchan D.	<i>Kanchan</i>	52.	Sandbor Supriya S	<i>Supriya</i>
7.	Deshmukh Sanchita H.	<i>Sanchita</i>	30.	Katakdhond Shraddha	<i>Shraddha</i>	53.	Saraf Priya Madhav	<i>Priya</i>
8.	Dhengale Rohini D.	<i>Rohini</i>	31.	Kharabi Aishwarya J.	<i>Aishwarya</i>	54.	Sawant Trupti D.	<i>Trupti</i>
9.	Dhepe Sayali Dattu	<i>Sayali</i>	32.	Khurid Sneha Sujit	<i>Sneha</i>	55.	Shinde Dipti Janardan	<i>Dipti</i>
10.	Dhumal Aishwarya K.	<i>Aishwarya</i>	33.	Kulkarni Kalpita K.	<i>Kalpita</i>	56.	Shingade Pooja B.	<i>Pooja</i>
11.	Doiphode Aarti Rajan	<i>Aarti</i>	34.	Lad Shital Balasaheb	<i>Shital</i>	57.	Shivekar Prajakta R.	<i>Prajakta</i>
12.	Durg Ambika Prakash	<i>Ambika</i>	35.	Lagad Aishwarya M.	<i>Aishwarya</i>	58.	Sonawane Rutuja B.	<i>Rutuja</i>
13.	Ganage Vaibhavi Maruti	<i>Vaibhavi</i>	36.	Langhi Tejaswini F.	<i>Tejaswini</i>	59.	Takale Pradnya N.	<i>Pradnya</i>
14.	Garje Shweta Viithal	<i>Shweta</i>	37.	Lanke Apoorva Sunil	<i>Apoorva</i>	60.	Tale Prathana Anil	<i>Prathana</i>
15.	Gawade Kajal Vishnu	<i>Kajal</i>	38.	Lohakare Madhuri M.	<i>Madhuri</i>	61.	Tanpure Dipanjali B.	<i>Dipanjali</i>
16.	Gawade Sayali Ashok	<i>Sayali</i>	39.	Mahajan Devyani R.	<i>Devyani</i>	62.	Thorat Pallavi S.	<i>Pallavi</i>
17.	Ghige Sushmita Maruti	<i>Sushmita</i>	40.	Mali Kalyani Ram	<i>Kalyani</i>	63.	Torde Ashwini	<i>Ashwini</i>
18.	Ghongade Sujita S.	<i>Sujita</i>	41.	Mungase Shraddha D.	<i>Shraddha</i>	64.	Wadane Shivani S.	<i>Shivani</i>
	Gitbile Prajakta Subhash	<i>Prajakta</i>	42.	Murhe Monika Ramdas	<i>Monika</i>	65.	Wagh Priyanka Maruti	<i>Priyanka</i>
	Gore Shraddha P.	<i>Shraddha</i>	43.	Ovhal Komal Baban	<i>Komal</i>	66.	Waghmare Sneha D.	<i>Sneha</i>
	Hande Prachi Rajaram	<i>Prachi</i>	44.	Padwal Rutuja S.	<i>Rutuja</i>	67.	Zope Pranjali Hemant	<i>Pranjali</i>
	Jadhav Aarti Arjun	<i>Aarti</i>	45.	Patil Apurva Bhau	<i>Apurva</i>			
	Jadhav Pooja Subhash	<i>Pooja</i>	46.	Pawar Vrushali R.	<i>Vrushali</i>			



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**PROGRESSIVE EDUCATION SOCIETY
MODERN COLLEGE OF PHARMACY FOR LADIES
MOSHI, PUNE 412105**

SUMMARY REPORT ON GUEST LECTURE

Topic of Guest Lecture: "Regulatory aspects of cosmetics manufacturing and sale"

Name of the Speaker: Mr. Vijay Bambulkar

Modern College of Pharmacy (for ladies), Moshi, Pune, has arranged a guest lecture on topic "Regulatory aspects of cosmetics manufacturing and sale" by Mr. Vijay Bambulkar. Introduction of the Program and Speaker was given by our S. Y. B. Pharm Student. Speaker was welcomed by our Principal Dr. S. N. Dhole sir with shawl and Shriphal. Guest guided students regarding rules and regulations for cosmetic formulation and sale. All students has enjoyed the lecture as it is the part of their theory syllabus. Overall the guest lecture was nice and was helpful for improving knowledge.



Photos while delivering guest lecture

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Criterion 1: Curricular Aspects



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M. Pharm., Ph. D.
Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune



Audience with Principal and staff and students



Guest lecture by Dr. Viojay Bambulkar

R.A. Bhalerao
Guest Lecture Incharge
(Mrs. R.A. Bhalerao)

S.N. Dhole
Principal

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(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

210

Attendance record 2019-2020 - "Afternoon Session"

Class: Final Year B. Pharm

Event: Guest Lecture by Bambulkar sir -
Date: 9/10/02/2020

Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
1.	Baradkar Priyanka Dilip	<i>[Signature]</i>	24.	Jadhav Pranali	<i>[Signature]</i>	47.	Phad Swayamprabha D.	<i>[Signature]</i>
2.	Bhakare Swarali V.	<i>[Signature]</i>	25.	Jadhav Rohini Lala	<i>[Signature]</i>	48.	Pise Samruddhi D.	<i>[Signature]</i>
3.	Bhoir Bhakti Mohan	<i>[Signature]</i>	26.	Jadhav Shweta C.	<i>[Signature]</i>	49.	Raghu Priti Umakant	<i>[Signature]</i>
4.	Bhumkar Prajakta Vilas	<i>[Signature]</i>	27.	Jadhav Tejaswini S.	<i>[Signature]</i>	50.	Rale Rujuta Manik	
5.	Borate Komal Tanaji	<i>[Signature]</i>	28.	Jagtap Reshma Suresh	<i>[Signature]</i>	51.	Rutuja Maruti Pansare	
6.	Chavan Chaityalya	<i>[Signature]</i>	29.	Jaid Kanchan D.	<i>[Signature]</i>	52.	Sandbhor Supriya S	
7.	Deshmukh Sanchita H.		30.	Katakdhond Shraddha	<i>[Signature]</i>	53.	Saraf Priya Madhav	
8.	Dhengale Rohini D.	<i>[Signature]</i>	31.	Kharabi Aishwarya J.	<i>[Signature]</i>	54.	Sawant Trupti D.	<i>[Signature]</i>
9.	Dhepe Sayali Dattu	<i>[Signature]</i>	32.	Khirid Snehal Sujit	<i>[Signature]</i>	55.	Shinde Dipti Janardan	
10.	Dhumal Aishwarya K.	<i>[Signature]</i>	33.	Kulkarni Kalpita K.	<i>[Signature]</i>	56.	Shingade Pooja B.	<i>[Signature]</i>
11.	Doiphode Aarti Rajan		34.	Lad Shital Balasaheb	<i>[Signature]</i>	57.	Shivekar Prajakta R.	<i>[Signature]</i>
12.	Durg Ambika Prakash	<i>[Signature]</i>	35.	Lagad Aishwarya M.	<i>[Signature]</i>	58.	Sonawane Rutuja B.	<i>[Signature]</i>
13.	Ganage Vaibhavi Maruti	<i>[Signature]</i>	36.	Langhi Tejaswini F.	<i>[Signature]</i>	59.	Takale Pradnya N.	
14.	Garje Shweta Vitthal	<i>[Signature]</i>	37.	Lanke Apoorva Sunil	<i>[Signature]</i>	60.	Tale Prathana Anil	<i>[Signature]</i>
15.	Gawade Kajal Vishnu	<i>[Signature]</i>	38.	Lohakare Madhuri M.		61.	Tanpure Dipanjali B.	
16.	Gawade Sayali Ashok	<i>[Signature]</i>	39.	Mahajan Devyani R.	<i>[Signature]</i>	62.	Thorat Pallavi S.	
17.	Ghige Susumita Maruti	<i>[Signature]</i>	40.	Mali Kalyani Ram		63.	Torde Ashwini	<i>[Signature]</i>
18.	Ghongade Sujita S.	<i>[Signature]</i>	41.	Mungase Shraddha D.	<i>[Signature]</i>	64.	Wadane Shivani S.	
19.	Gilbile Prajakta Subhash	<i>[Signature]</i>	42.	Murhe Monika Ramdas	<i>[Signature]</i>	65.	Wagh Priyanka Maruti	
20.	Gore Shraddha P.	<i>[Signature]</i>	43.	Ovhal Komal Baban	<i>[Signature]</i>	66.	Waghmare Sneha D.	<i>[Signature]</i>
21.	Hande Prachi Rajaram	<i>[Signature]</i>	44.	Padwal Rutuja S.	<i>[Signature]</i>	67.	Zope Pranjali Hemant	
22.	Jadhav Aarti Arjun	<i>[Signature]</i>	45.	Patil Apurva Bhau	<i>[Signature]</i>			
23.	Jadhav Pooja Subhash	<i>[Signature]</i>	46.	Pawar Vrushali R.				

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Progressive Education Society's

MODERN COLLEGE OF PHARMACY
(FOR LADIES)



SUMMARY REPORT ON GUEST LECTURE

Topic of lecture: "Pharmaceutical IT Compliance and Computer System Validation"

Name of the Speaker – Mr. Shrinivas Inamdar

PES Modern College of Pharmacy (For Ladies), Moshi has arranged a Guest lecture on "Pharmaceutical IT Compliance and Computer System Validation" on 4th February 2020 by Mr. Shrinivas Inamdar, Senior Expert in quality and Compliance, Pharmaceutical CRO's and Biopharma Industries. Program was started with a Brief Introduction of Guest, Dr. S. N. Dhole Principal, PES MCPL Moshi, has Welcome our Guest by giving a sapling as a Token of love.

The Guest began his lecture by explaining importance of Pharmaceutical IT Compliance and Computer System Validation in international companies. He also discussed opportunities in IT Sector for CSV. He also discussed How to go for study of CSV? He has discussed in detail about course "Pharmaceutical IT Compliance and Computer System Validation". He also discussed about fees structure for this course. The session was concluded by giving vote of thanks and appreciation of resource person.



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(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune



Guest Welcome by Dr. Prof. Vrushali Tambe



Guest Lecture on "Pharmaceutical IT Compliance and Computer System Validation"

R.A.
Guest Lecture Incharge
(MIS. R.A. Bhalerao)



s/f/e
Principal
PES Modern College of Pharmacy
(For Ladies)
Borhadewad, A/First Month,
Tal. Haveli, Dist. Pune - 412105

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Business Council P.E. Society, Pune

265
132

Attendance record 2019-2020

Class: Third Year B. Pharm

Event: Guest lecture on Pharmaceutical IT Compliance & computer system validation
Date: 04/02/2020

Roll no	Name of student	Sign	Roll no	Name of student	Sign	Roll no	Name of student	Sign
1.	Anjali	<i>Anjali</i>	23.	Gunjal Priya Shivaji	<i>Priya</i>	45.	Pawar Vaishnavi A.	<i>Vaishnavi</i>
2.	Arjun Sakshi	<i>Sakshi</i>	24.	Hagawane Trupti K.	<i>Trupti</i>	46.	Pokharkar Priya D.	<i>Priya</i>
3.	Auti Puja Machhindra	<i>Puja</i>	25.	Ichake Aishwarya H.	<i>Aishwarya</i>	47.	Rakhunde Rutuja S.	<i>Rutuja</i>
4.	Bangar Ashwini N.	<i>Ashwini</i>	26.	Jadhav Vaishnavi S.	<i>Vaishnavi</i>	48.	Rakshie Ashwini S.	<i>Ashwini</i>
5.	Bhagwat Shweta Anil	<i>Shweta</i>	27.	Kad Pratiksha Kalyan	<i>Pratiksha</i>	49.	Rakshie Shrawani E.	<i>Shrawani</i>
6.	Bhalekar Juce S.	<i>Juce</i>	28.	Kaldoke Priya Rohidas	<i>Priya</i>	50.	Rashinkar Sneha N.	<i>Sneha</i>
7.	Bhilare Nikita Arun	<i>Nikita</i>	29.	Kalse Pratiksha R.	<i>Pratiksha</i>	51.	Rode Dipali Arjun	<i>Dipali</i>
8.	Bhogal Saloni J.	<i>Saloni</i>	30.	Kamble Pranita P.	<i>Pranita</i>	52.	Sable Sayali Kailas	<i>Sayali</i>
9.	Bhojane Pratiksha R.	<i>Pratiksha</i>	31.	Kanade Shraddha V.	<i>Shraddha</i>	53.	Shinde Snehal Milind	<i>Snehal</i>
10.	Borude Rohini Mitthu	<i>Rohini</i>	32.	Khilari Kajal Netha	<i>Kajal</i>	54.	Shirsat Ashwini	<i>Ashwini</i>
11.	Chaudhari Aditi D.	<i>Aditi</i>	33.	Kokate Priyanka M.	<i>Priyanka</i>	55.	Sonawane Jayshree	<i>Jayshree</i>
12.	Chaudhari Nikita M.	<i>Nikita</i>	34.	Kumbhar Snehal P.	<i>Snehal</i>	56.	Sudke Vaishnavi	<i>Vaishnavi</i>
13.	Chavan Divya A.	<i>Divya</i>	35.	Lavate Shweta T.	<i>Shweta</i>	57.	Survase Shruti V.	<i>Shruti</i>
14.	Chavan Nikita T.	<i>Nikita</i>	36.	Magar Geetanjali R.	<i>Geetanjali</i>	58.	Swami Pradnya	<i>Pradnya</i>
15.	Darandale Varsha	<i>Varsha</i>	37.	Magar Mayuri Raju	<i>Mayuri</i>	59.	Thorat Ankita Vijay	<i>Ankita</i>
16.	Date Madhuri Vishnu	<i>Madhuri</i>	38.	Mandale Aishwarya D.	<i>Aishwarya</i>	60.	Totre Akshada	<i>Akshada</i>
17.	Date Nutan Yashwant	<i>Nutan</i>	39.	More Pooja Subhash	<i>Pooja</i>	61.	Umate Rutuja Y.	<i>Rutuja</i>
18.	Dupargude Ashwini	<i>Ashwini</i>	40.	Mundhe Anuja Sanjay	<i>Anuja</i>	62.	Yadav Simran Milind	<i>Simran</i>
19.	Fasale Aarti Maruti	<i>Aarti</i>	41.	Nikita S. Sambhar	<i>Nikita</i>	63.	Zarkar Shivani	<i>Shivani</i>
20.	Gargote Pratiksha R.	<i>Pratiksha</i>	42.	Pahule Komal Dinkar	<i>Komal</i>	64.	Zaware Pallavi	<i>Pallavi</i>
21.	Gawali Prachi Madan	<i>Prachi</i>	43.	Pimchal Booja Deepak	<i>Booja</i>	65.	Jadhav Sakshi Sunil	<i>Sakshi</i>
22.	Ghanekar Shrutika S.	<i>Shrutika</i>	44.	Patil Aparna W.	<i>Aparna</i>			

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Attendance record 2019-2020

Class: Final Year B. Pharm

Event: Guest lecture on Pharmaceutical IT Compliance & Computer system Validation
Date: 04/09/2020

Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
1.	Baradkar Priyanka Dilip	<i>[Signature]</i>	24.	Jadhav Pranali	<i>[Signature]</i>	47.	Phad Swayamprabha D.	<i>[Signature]</i>
2.	Bhakar Swarali V.	<i>[Signature]</i>	25.	Jadhav Rohini Lala	<i>[Signature]</i>	48.	Pise Samrudhhi D.	<i>[Signature]</i>
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5.	Borate Komal Tanaji	<i>[Signature]</i>	28.	Jagtap Reshma Suresh	<i>[Signature]</i>	51.	Rutuja Maruti Pansare	<i>[Signature]</i>
6.	Chavan Chaityalya	<i>[Signature]</i>	29.	Jaid Kanchan D.	<i>[Signature]</i>	52.	Sandbhor Supriya S	<i>[Signature]</i>
7.	Deshmukh Sanchita H.	<i>[Signature]</i>	30.	Katakdhond Shraddha	<i>[Signature]</i>	53.	Saraf Priya Madhav	<i>[Signature]</i>
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9.	Dhepe Sayali Dattu	<i>[Signature]</i>	32.	Khurid Snehal Sujit	<i>[Signature]</i>	55.	Shinde Dipti Janardan	<i>[Signature]</i>
10.	Dhumal Aishwarya K.	<i>[Signature]</i>	33.	Kulkarni Kalpita K.	<i>[Signature]</i>	56.	Shingade Pooja B.	<i>[Signature]</i>
11.	Doiphode Aarti Rajan	<i>[Signature]</i>	34.	Lad Shital Balasaheb	<i>[Signature]</i>	57.	Shivekar Prajakta R.	<i>[Signature]</i>
12.	Durg Ambika Prakash	<i>[Signature]</i>	35.	Lagad Aishwarya M.	<i>[Signature]</i>	58.	Sonawane Rutuja B.	<i>[Signature]</i>
13.	Ganage Vaibhavi Maruti	<i>[Signature]</i>	36.	Langhi Tejaswini F.	<i>[Signature]</i>	59.	Takale Pradnya N.	<i>[Signature]</i>
14.	Garje Shweta Vitthal	<i>[Signature]</i>	37.	Lanke Apoorva Sunil	<i>[Signature]</i>	60.	Tale Prathana Anil	<i>[Signature]</i>
15.	Gawade Kajal Vishnu	<i>[Signature]</i>	38.	Lohakare Madhuri M.	<i>[Signature]</i>	61.	Tanpure Dipanjali B.	<i>[Signature]</i>
16.	Gawade Sayali Ashok	<i>[Signature]</i>	39.	Mahajan Devyani R.	<i>[Signature]</i>	62.	Thorat Pallavi S.	<i>[Signature]</i>
17.	Ghige Sushmita Maruti	<i>[Signature]</i>	40.	Mali Kalyani Ram	<i>[Signature]</i>	63.	Torde Ashwini	<i>[Signature]</i>
18.	Ghongade Sujita S.	<i>[Signature]</i>	41.	Mungase Shraddha D.	<i>[Signature]</i>	64.	Wadane Shivani S.	<i>[Signature]</i>
19.	Gilbile Prajakta Subhash	<i>[Signature]</i>	42.	Murhe Monika Ramdas	<i>[Signature]</i>	65.	Wagh Priyanka Maruti	<i>[Signature]</i>
20.	Gore Shraddha P.	<i>[Signature]</i>	43.	Oyhal Komal Baban	<i>[Signature]</i>	66.	Waghmare Sneha D.	<i>[Signature]</i>
21.	Hande Prachi Rajaram	<i>[Signature]</i>	44.	Peawar Rutuja S.	<i>[Signature]</i>	67.	Zope Pranjali Hemant	<i>[Signature]</i>
22.	Jadhav Aarti Arjun	<i>[Signature]</i>	45.	Patil Apurva Bhau	<i>[Signature]</i>			
23.	Jadhav Pooja Subhash	<i>[Signature]</i>	46.	Pawar Vrushali R.	<i>[Signature]</i>			

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Professional Ethics

(2018-19)



PES Modern College of Pharmacy (for ladies), Moshi, Pune

NAME OF EVENT- PHARMA RALLY

DATE-25/09/2018

REPORT

A Pharma rally was arranged on the occasion of 'World Pharmacist Day' on 25 Sept 2019. Rally was arranged from college to Moshi village. It was organized for creating awareness regarding pharmacy profession and role of Pharmacist in Health care management through slogans. Rally was conducted in the moAll the students participated in the rally. Students congratulated Pharmacists working in Moshi area during the rally. Students used their skills and knowledge to interact with people. Society appreciated the efforts taken by students. Students realized their responsibility as a health care provider by participating in this rally.



Handwritten signature:
#2
(Ms. Vichare V.S.)
NPA Co-ordinator

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PES Modern College of Pharmacy (for ladies), Moshi, Pune

Event- One Day Workshop on 'Interview Techniques and Presentation Skills'

Date- 29/09/2018

Name of speaker- Mr. Deepak Jadhav, Product Manager, KP Corporate Solutions Ltd. Pune

REPORT

One day workshop was arranged for Third Year B Pharm students on 'Interview Techniques and Presentation Skills'. Workshop was conducted by Mr. Deepak Jadhav, Product Manager, KP Corporate Solutions Ltd. Pune. He has given a detailed lecture on Interview techniques. He also conducted few mock interviews and explained corrective measures for mistakes done by the students. He also conducted Group discussions amongst students. He asked students to give short presentations. During the presentations he suggested things to be improved. Students found the workshop to be very useful for them. 67 students of T Y B Pharm got benefited by this one day workshop.



V.S.
(Mrs. Vichare V.S.)
Portfolio IIC

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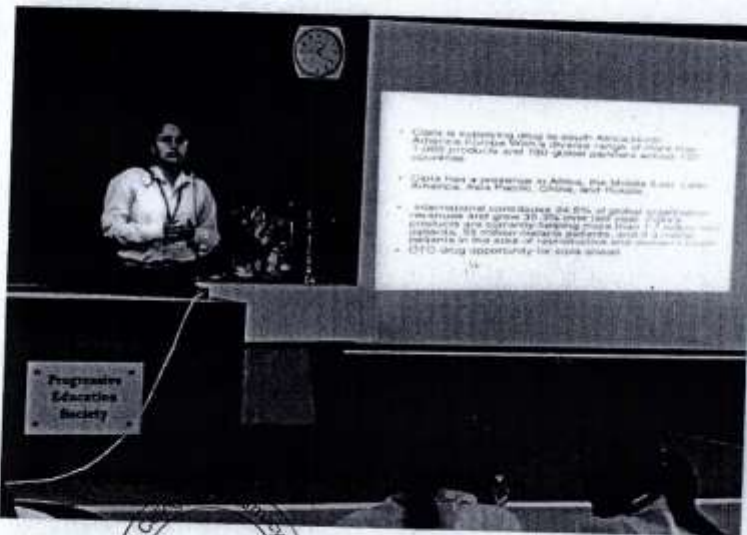
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Principal

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Business Council P.E. Society, Pune

PES's Modern College of Pharmacy (For Ladies), Moshi

Roll calls Third Year 2018-19

Name of Event: Interview techniques & Presentation skills Date: 29/09/2018

Roll no	Name of student	SIGN	Roll no	Name of student	SIGN	Roll no	Name of student	SIGN
1.	Baradkar Priyanka Dilip	Baradkar	24.	Jadhav Pranali	Padhao	47.	Phad Swayamprabha D	Phad
2.	Bhakare Swarali V.	Bhakare	25.	Jadhav Rohini Lala	Rohini	48.	Pise Samruddhi D.	Pise
3.	Bhoir Bhakti Mohan	Bhoir	26.	Jadhav Shweta C.	Shweta	49.	Raghu Priti Umakant	Raghu
4.	Bhumkar Prajakta Vilas	Bhumkar	27.	Jadhav Tejaswini S.	Tejaswini	50.	Rale Rujuta Manik	Rale
5.	Borate Komal	K.T. Borate	28.	Jagtap Reshma Suresh	Jagtap	51.	Rutuja Maruti Pensare	Rutuja
6.	Chavan Chaityalya Lavoo	Chavan	29.	Jaid Kanchan D.	Jaid	52.	Sandbor Supriya S	Sandbor
7.	Deshmukh Sanchita H.	Deshmukh	30.	Katakdhond Shraddha	Katakdhond	53.	Saraf Priya Madhav	Saraf
8.	Dhengale Rohini D.	Dhengale	31.	Kharabi Aishwarya J.	Kharabi	54.	Sawant Trupti D.	Sawant
9.	Dhepe Sayali Dattu	Dhepe	32.	Khurid Snehal Sujit	Khurid	55.	Sainde Dipti Janardan	Sainde
10.	Dhumai Aishwarya K.	Dhumai	33.	Kulkarni Kalpita K.	Kulkarni	56.	Shingade Pooja B.	Shingade
11.	Doiphode Aarti Rajan	Doiphode	34.	Lad Shital Balasaheb	Lad	57.	Shivekar Prajakta R.	Shivekar
12.	Durg Ambika Prakash	Durg	35.	Lagad Aishwarya M.	Lagad	58.	Sonawane Rutuja B.	Sonawane
13.	Ganage Vaibhavi Maruti	Ganage	36.	Langhi Tejaswini F.	Langhi	59.	Takale Pradnya N.	Takale
14.	Garje Shweta Vitthal	Garje	37.	Lanke Apoorva	Lanke	60.	Tale Prathana Anil	Tale
15.	Gawade Kajal Vishnu	Gawade	38.	Lohakare Madhuri M.	Lohakare	61.	Tanpure Dipanjali B.	Tanpure
16.	Gawade Sayali Ashok	Gawade	39.	Mahajan Devyani R.	Mahajan	62.	Thorat Pallavi S.	Thorat
17.	Ghige Sushmita Maruti	Ghige	40.	Mali Kalyani Ram	Mali	63.	Torde Ashwini	Torde
18.	Ghongade Sujita S.	Ghongade	41.	Mungase Shraddha D.	Mungase	64.	Wadane Shivani S.	Wadane
19.	Gilbile Prajakta Subhash	Gilbile	42.	Murhe Monika Ramdas	Murhe	65.	Wagh Priyanka Maruti	Wagh
20.	Gore Shraddha P.	Gore	43.	Ovhal Komal Baban	Ovhal	66.	Waghmare Sneha D.	Waghmare
21.	Hande Prachi Rajaram	Hande	44.	Padwal Rutuja S.	Padwal	67.	Zope Pranjali Hemant	Zope
22.	Jadhav Aarti Arjun	Jadhav	45.	Patil Apurva Bhau	Patil			
23.	Jadhav Pooja Subhash	Jadhav	46.	Pawar Yashali R.	Pawar			



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Chairman, Business Council
P.E.Society, Pune

MEPL/Let/2018/285

28th July 2018

To,
Mrs. Archana Gawade,
Director,
Elite Institute for Pharma Skills,
Pune

Subject - Thanking Letter

Dear Madam,
PES's Modern College of Pharmacy (for ladies), Moshi is thankful to you for delivering a guest lecture on "Career Opportunities in Regulatory Affairs and Pharmacovigilance" and creating awareness in our students regarding different job opportunities, industry requirements on 28th July 2018 at 2.30 pm.

Thanking You,

S.N. Dhole
PRINCIPAL
P.E. Society's Modern College of pharmacy
(For Ladies)
Borhadevadi, AAI Post, Moshi
Tal. Haveli, Dist. Pune-412 105.



Received
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28/7/18



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Business Council P.E. Society, Pune

PES's Modern College of Pharmacy (for ladies), Moshi, Pune

Event- Guest lecture on 'Career Opportunities in Pharmacovigilance and Regulatory Affairs'
Date 28/07/2018

ATTENDANCE

Sr. No.	Name	Sign
1.	Sushmita m. Ginge	<i>Sushmita</i>
2.	Aarti Arjun Jadhav	<i>Aarti</i>
3.	Kajal vishnu Gowade	<i>Kajal</i>
4.	Aarti Rajan Diphode	<i>Aarti</i>
5.	Rohini onyanshawari Dhengale	<i>Rohini</i>
6.	Aishwarya kartikd Dhumal	<i>Aishwarya</i>
7.	Chaitalya chavan	<i>Chaitalya</i>
8.	Sayali Datta Dhepe	<i>Sayali</i>
9.	Prachi Rajaram Hande	<i>Prachi</i>
10.	Gayatri Shweta Vitthal	<i>Gayatri</i>
11.	Pranjana Subhash Gilbile	<i>Pranjana</i>
12.	Rutuja Balasaheb Sankaran	<i>Rutuja</i>
13.	Dhingade Pooja Babasaheb	<i>Pooja</i>
14.	pise samrudhi Dayanand	<i>Pise</i>
15.	Dipti Janardan shinde	<i>Dipti</i>
16.	Prizi Umakant Raghur	<i>Prizi</i>
17.	Tanpure Dipanjali Bhaskar	<i>Tanpure</i>
18.	Pallavp sheshrao Thorat	<i>Pallavp</i>
19.	Waghmare sneha Dhondiba	<i>Sneha</i>
20.	Tadhav Tejaswini Sandip	<i>Tejaswini</i>
21.	Lohakare Madhuri . M.	<i>Madhuri</i>
22.	Jadhav shweta chandrasen	<i>Shweta</i>
23.	Apurva shau patil	<i>Apurva</i>
24.	Rutuja shashikant padwal	<i>Rutuja</i>
25.	Snehal Sujit. Chund	<i>Snehal</i>
26.	ovnal komal Baban	<i>Komal</i>
27.	Palitika Pishor Dulikani	<i>Dulikani</i>
28.	Jadhav Rohini Laxar	<i>Jadhav</i>

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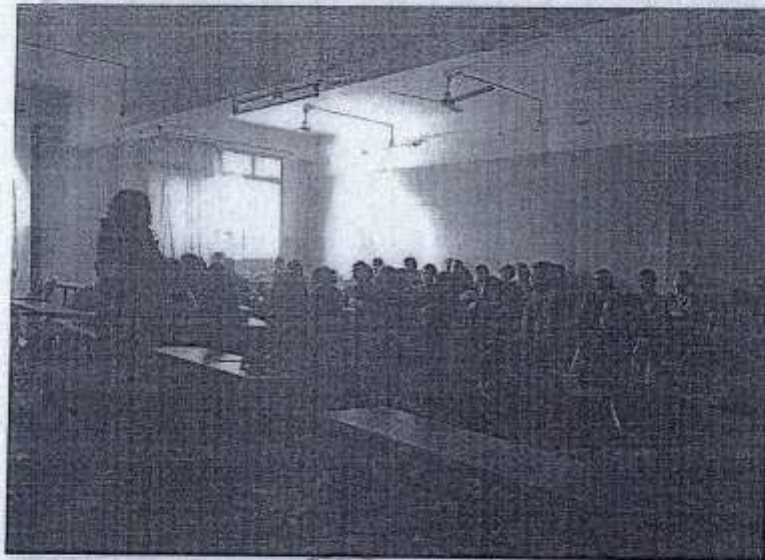
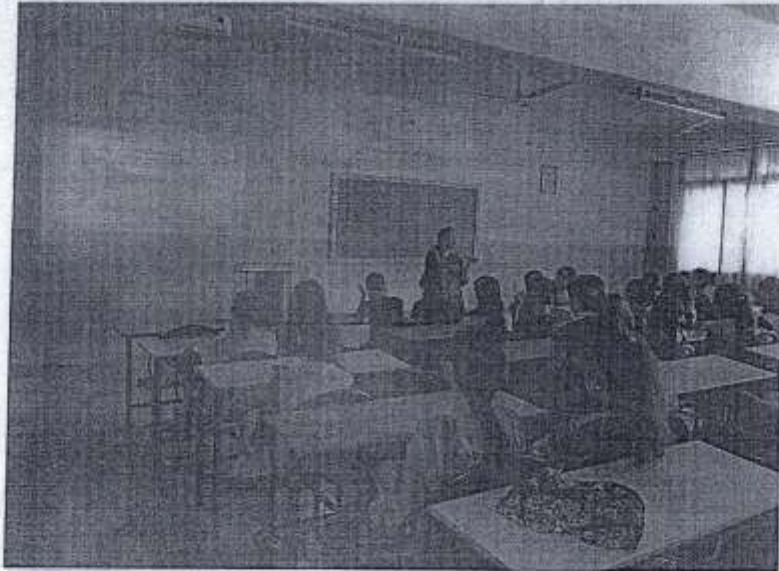


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Sub Index 2

HUMAN VALUES			
Sr.No.	Events organized	Date	Description
HUMAN VALUES (22-23)			
1.	International Yoga Day	23/06/2022	Yoga day was celebrated every year on 21 st June 2 in college for maintaining fitness through Yoga practices.
2.	Azadi ka Amrut Mahotsav - Har Ghar Tiranga	13/08/2022-15/08/2022	Har Ghar Tiranga represents the national integrity and signifies the hopes and aspirations of the Indian people celebrated between 13-15 th August 2023
3.	Independence Day	15/08/2022	Independence Day celebration at PES Modern College of Pharmacy, Moshi on every 15 th August.
4.	Poshan Pakhwada	1/09/2022	NSS Camp conducted "Poshan Pakhwada" which involves street play, an awareness regarding nutritional food.
5.	NSS Day Celebration	24/09/2022	NSS camp conducted every year for Uplifting and Empowering the weak economic sections of the community
6.	Hemoglobin checks up campaign	11/10/2022	Necessity of Regular Health check-ups was emphasized in students.
7.	Basic health checkup for school children	23/01/2023	Building the importance of Regular Health checkups
8.	How to overcome drug addiction and drug abuse	24/06/2023	Mr. Mandar Shetty, Mukhtangan Mitra, Pune
9.	Raj Yog the art of being stress free	22/12/2022	Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya, Pune
10.	Positive Way of Thinking and Character Building	06/12/2022	Dr. Priti Joseph Victor, motivated students for character building through positive thinking.
HUMAN VALUES (21-22)			
11.	Republic Day Celebration	26/01/2022	Republic Day celebration at PES Modern College of Pharmacy, Moshi on 26 th January

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			2022.
12.	Mission Yuva Swasthya – Covid 19 vaccination drive	30/10/2021	Social Health Awareness
13.	Pulse Polio Campaign	27/02/2022	Community Health Awareness
14.	International AIDS Day	1/12/2021	Community Health Awareness
HUMAN VALUES (20-21)			
15.	Road Safety Awareness-Poster Competition	10/02/2021	Sensitizing Social Issues
16.	Azadi ka Amrit Mahotsav- Essay Competition	25/03/2021 - 30/03/2021	Patriotism
HUMAN VALUES (19-20)			
17.	Leprosy Quiz Competition	07/02/2019	Social Health Awareness
18.	Health Check-up camp at Markal	07/01/2019	Social Health Awareness
19.	Leprosy Awareness Rally	07/02/2018	Social Health Awareness
20.	Visit to Shri Ravishankar Triveni Ashram	04/01/2019	Holistic Development
21.	Survey of Markal Village	03/01/2019	Sensitizing Social Issues
22.	Health check-up camp for school children	8/03/2019	Community Health Awareness



International Yoga Day

NSS Unit (B69) of PES Modern College of Pharmacy (for ladies) celebrated International Yoga Day very enthusiastically on 23/06/2022, Thursday. The program was conducted at the seminar hall of PES Modern College of Pharmacy. The yoga and meditation session started after the felicitation and welcome ceremony of the guests. Mrs. Priyanka Shrivastava madam (heartfulness meditation practitioner since 2014, currently, she is a co-founder and leads in business strategies at KPIED Business Solutions. She has more than 12 years of experience in pharma and related industries. She has a master's in business administration, as well as a master's in science with a specialization in Microbiology) and has guided the students as well as faculty members regarding Awareness of Yoga and Meditation. She cleared lots of concepts of yoga. She has taken a good practice session with students with pranayama and meditation. Also has given a nice demonstration of meditation. Students enjoyed the session with positive feedback. 20 students and 6 faculty members were present for the program. Principal Dr. S. N. Dhole sir has given valuable guidance to make this event successful. Prof. Bhagyashree Parande (NSS CO-ordinator) has arranged the whole event.




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International Yoga Day-2022-23 Date-29/06/2022

Sr. No.	Name of the student	Year	Signature
1.	Saaila Dhore	Final yr.	<i>[Signature]</i>
2.	Akanksha Dalphat	Final yr.	<i>[Signature]</i>
3.	Devyani Salve	Final yr	<i>[Signature]</i>
4.	Sampada Bijja	Final yr	<i>[Signature]</i>
5.	Pranjana Sakunte	Final year	<i>[Signature]</i>
6.	Aarshata Pawar	Final year	<i>[Signature]</i>
7.	Pratibha Pashad	Final yr	<i>[Signature]</i>
8.	Sakshi Hlwade	Final yr.	<i>[Signature]</i>
9.	Sakshi Tokunte	Final yr.	<i>[Signature]</i>
10.	Varshnavi Labade	Final yr.	<i>[Signature]</i>
11.	Manisha Kevat	Final yr	<i>[Signature]</i>
12.	Manisha Attas	Final yr	<i>[Signature]</i>
13.	Priyanka Dharmat	Final yr	<i>[Signature]</i>
14.	Pallavi Jadhav	Final yr	<i>[Signature]</i>
15.	Rutuja Ankushe	Final yr	<i>[Signature]</i>
16.	Rutika Kshirsagar	-/-	<i>[Signature]</i>
17.	Kirti Patil	-/-	<i>[Signature]</i>
18.	Pooja Jadhav	-/-	<i>[Signature]</i>
19.	Sakshi Gade	-/-	<i>[Signature]</i>
20.	Geeta Hlwade	M. Pharm	<i>[Signature]</i>



[Signature]
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AzadiKaAmrutMahotsav, "HarGharTiranga"

NSS Unit (B69) of PES Modern College of Pharmacy (for ladies) has celebrated 'AzadikaAmrutMahotsav' from 11 Aug to 15th of August by implementing various activities such as HarGhartiranga, Tree Plantation, Photo with the National flag also by attending "Yuvatisaved" with Hon. Tejasviji Surya BJYM, at Shivajinagar, Pune. Students participated enthusiastically in the Harghartiranga activity. Also along with PCMC NSS unit of MCPL plated trees in Moshi area. On the occasion of AzadikaAmrutMahotsav, students attended the Yuvatisanvad program at which they understood the motive behind the celebration of the HarGharTiranga program. On 15th Aug students performed street play on Save, Girl Child, and HartirangaActicity.



[Signature]
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AzadiKaAmrutMahotsav- Tree Plantation




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Business Council P.E. Society, Pune

HarGharTiranga- Yuvati Samvad-2022-23 Date 13/08/2022

Sr. No.	Name of the student	Year	Signature
1	Sayali More	Third year	More s.v
2	sneha pansare	Third year	Pansare
3	Nikita Furve	Third year	Furve
4	Litya Rathod	Third year	Rathod
5	Vaishali Wagh	Third Year	Wagh
6	Prachi wadskar	Third Yr	Wadskar
7	Prachi Boinhe	Third Yr	Boinhe
8	Bhagyashri Adalige	T.Y.	Bhagyashri
9	Anuja Guxav	T.Y.	Anuja
10	Aakita Rathod	T.Y.	Aakita
11	Anushka Desai	T.Y.	Anushka
12	Aditi Dhanawade	T.Y.	Aditi
13	Pratishtha Bhendare	T.Y.	Pratishtha
14	Manmayi Bhosale	T.Y.	Manmayi
15	Bhakti Guxav	Final	Bhakti
16	Sampada Bille	Final	Sampada
17	Devangi Sabne	Final	Devangi
18	Kriti Patil	Final	Kriti
20	Sruvati Vidhe	Final yr	Sruvati
21	Ritika Chhang	Final year	Ritika
22	Yeibhavi Umph	Final Year	Yeibhavi
23	Janhavi Pusme	Final Year	Janhavi
24	Sakshi Pathare	Final Year	Sakshi
25	Vaishnavi Sutar	Final Year	Vaishnavi
26	Priyanka Chavhan	Final year	Priyanka



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Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Har Ghar Tiranga- Tree Plantation *Date 13/08/2022*

Sr. No.	Name of the student	Year	Signature
1.	Pranjal Landge	3 rd	<i>Pranjal</i>
2.	Pranjal Lokhande	3 rd	<i>Pranjal</i>
3.	Yedanti Gushane	3 rd	<i>Yedanti</i>
4.	Janvi Parme	3 rd	<i>Janvi</i>
5.	Ankita Rathod	3 rd	<i>Ankita</i>
6.	Prachi Ranjane	3 rd	<i>Prachi</i>
7.	Vaibhavi Vinay	3 rd	<i>Vaibhavi</i>
8.	Vaishali Wagh	3 rd	<i>Vaishali</i>
9.	Prachi Wadekar	3 rd	<i>Prachi</i>
10.	Bharghoshri Adalige	2 nd	<i>Bharghoshri</i>
11.	Sakshi Desaiwar	3 rd	<i>Sakshi</i>
12.	Anuja Kuvav	3 rd	<i>Anuja</i>
13.	Sakshi Gurav	3 rd	<i>Sakshi</i>
14.	Anushka Deekar	3 rd	<i>Anushka</i>
15.	Aditi Dhonawade	3 rd	<i>Aditi</i>
16.	Anjali Gogutam	3 rd	<i>Anjali</i>



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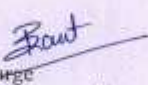
17/08/2022





SUMMARY
75th Independence Day

Independence Day was celebrated at 7.30 am to 9.00 am in the Modern College of Pharmacy for Ladies Moshi. The beginning of the programme was done by Deep Prajwalan and Bhartmata Pujan by the hands of our honorable Principal Dr. S. N. Dhole Sir, followed by flag hosting. National anthem was sung in chorus by all teaching, non teaching staff. Dhvajgeet and patriotic song was sung by Mrunmayee Bhosale. Then snack was distributed to everyone on this occasion.

Outcome of the Programme:
Feeling of patriotism and unity in diversity was felt by all teaching, non teaching staff and students.


Cultural In-Charge
Ms. S. A.Koli /DR Raut


Principal



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POSHAN PAKHWADA – Nutritional Food Awareness Activity

NSS Unit (B69) of PES Modern College of Pharmacy (for ladies) has done an awareness program on the occasion of PoshanPakhwada between 1sept- and 30th Sept 2022. In that, NSS volunteers presented a street play on the 'Importance of nutritional food' in front of 'Nageshwar primary school kids at Moshi'. Volunteers have made awareness and made the school kids understand about benefits of healthy food in an entertaining way. The volunteers of PES MCPL have been appreciated by the teachers of Nageshwar Primary School. And all enjoyed the event with awareness. Other volunteers have made awareness at PES MCPL by interacting with other students and teachers of MCPL.



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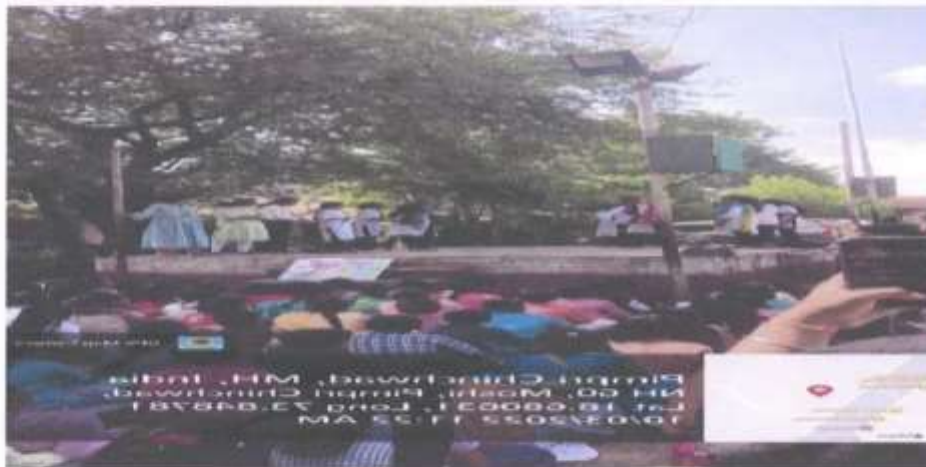


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Poshan Pakhwada-2022-23 Date :- 1/09/2022

Sr. No.	Name of the student	Year	Signature
1)	Suman Padwal	Third Year	
2)	Siddhi Sawal	Third Year	
3)	Zucha Akanikar	Third year	
4)	Mrunmayi Bhosale	Third year	
5)	Pratikshi Bhosale	Third year	
6)	Gayatri Mahemuni	Third year.	
7)	Pranali Katkar	Third year.	
8)	Renuka Padavate	Third year	
9)	Mangshi Bhurkud	Third year.	
10)	Shital Kardile.	Third year	
11)	Supriya Kulkarni	Third year	
12)	Amrta Patil	Third year.	



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NSS DAY CELEBRATION-

NSS Unit (B69) of PES Modern College of Pharmacy (for ladies) celebrated NSS day very enthusiastically on 24/9/2022, and the activity also continued on 27/9/2022. This year MCPL NSS volunteers have conducted a 'cloth donation to the needy people in the society' activity on the occasion of NSS day. Volunteers visited slum areas and orphanages to donate clothes. Volunteers visited Snehchaya orphanage and spent valuable time with the kids and made them aware of NSS activities along with cloth donations. During this activity, students get to realize about needs of society. Principal Dr. S. N. Dhole and all the faculty members have encouraged students to conduct such activities.



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NSS Day- Cloth Donation Activity

Date- 24/09/2022

Sr. No.	Name	Sign
1.	Bhandarkar Pratiksha	<i>Bhandarkar</i>
2.	Surman Padwal	<i>Surman Padwal</i>
3.	Rucha Akurikar	<i>Rucha</i>
4.	siddhi sawal	<i>Siddhi</i>
5.	Lokhande Pranjal	<i>Pranjal</i>
6.	landge Pranya	<i>Pranya</i>
7.	redanti Gadhari	<i>Gadhari</i>
8.	Amrita Pakhure	<i>Amrita</i>
9.	Shravani Mule	<i>Shravani</i>
10.	Kalyani Pandit	<i>Pandit</i>
11.	Vaishnavi Alhat	<i>Alhat</i>
12.	Sayali Bangar	<i>Bangar</i>
13.	Akanksha Mame	<i>Mame</i>
14.	Poonam Mahankar	<i>Poonam</i>



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Hemoglobin checkup campaign

NSS Unit (B69) of PES Modern College of Pharmacy (for ladies) in collaboration with Moshi government hospital, arranged a one-day hemoglobin checkup campaign on the campus. On 11/10/2022, 140 students of B. Pharm got checked their blood for hemoglobin levels. Those who were below the normal range were given folic acid tablets by Moshi government hospital and also asked to check again to normalize the level. Moshi government hospital staff has guided the students nicely during the check-up. Principal Dr. S. N. Dhole has given valuable guidance to make the event successful. And felicitated the hospital staff.




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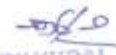


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S.Y.B.pharm

S.Y.B.PHARM 2022-23

Roll No	Name	Sign	contact	weight	HB	height
1	Ambale Shruti Pramod					
2	Awale Sayali Hanumant					
3	Bachkar Sonali Bhmaji		9322615357	64	11.9	5.6
4	Bagul Trupti Rajesh		9011451090	42	11.8	5.6
5	Baskar Asvitha					
6	Bawane Sanyukta S					
7	Bhangre Mrudula B					
8	Bhavar Rutuja B		9011071731	42	10.00	5.4
9	Bhilare Tejasvini Kiran					
10	Bhosale Gautami G		9271679239	54	12.9	5.6
11	Biradar Shradha S					
12	Birle Vaishnavi Sachin		9763531070	49	10.9	5.3
13	Chaudhary Zainab G					
14	Dadas Vaishnavi Dhanaji					
15	Dahate Esha Vinod					
16	Dhadge Sharli Ravindra		9307707082	38.6	11.4	5.2
17	Dhokane Aastha Sunil					
18	Dhole Akanksha S					
19	Dhole Siddhi Bhaushab					
20	Dhormare Radha Avinash					
21	Dhumal Mayuri D		7448113696	51	12.6	5.5
22	Dhumane Isha Anand		8788114305	38.6	10.8	5
23	Doke Rutuja Jalindra		9954861092	38	13	
24	Falke Gitanjali B.					
25	Gadekar Rachana B					
26	Gaikwad Rutuja V					
27	Gaikwad Samruddhi S		779841007	39.9	11.9	5.4
28	Gavade Sanika Kalidas		9359481255	39	12.9	5.6
29	Gaware Nikita K		7498619175	40.7	8.9	
30	Harke Gayatri Sunil		7083198831	52.1	11.7	5.4
31	Hule Sarthi Rajendra					
32	Ingole Pooja Pramod					
33	Jadhav Akanksha J					
34	Jadhav Ketaki Pratap		9545930953	48	14.9	4.5
35	Jawanjal Purva S		9552849264	36	11.2	4.9
36	Kadam Smita Poopt					
37	Kale Anushka Shrikant					
38	Kale Dnyaneshwari K		8668838704	50	13	5.3
39	Kale Prachi Bhagavan		9096108841	48	8.7	5
40	Kamble Sakshi Anand		7218367443	44	8.7	5
41	Kanode Shweta Sanjay		8483645849	59.5	13.3	5.5
42	Kapale Anushree A		8446303093	39.7	10.6	5.4
43	Kashid Snehal Popat					
44	Katore Purva Rajendra					
45	Kedari Payal Narayan		8261919150	41.2	10.3	5.6
46	Kedari Vaishali Mohan		9172826339	41.1	14.3	5.0
47	Khair Srushiti Navnath					



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		contact	weight	H.B	height	
48	Kharabi Siddhi Rahul					
49	Khule Pallavi Ashok					
50	Kobal Sakshi Ujjain	9767007398	88.5	9.3	9.9	
51	Konde Khushi Amol					
52	Kshirsagar Pratiksha D	802197084	85.6	14.1	4.8	
53	Kumbhar Divya M	901101388	50.0	10.6	5.1	
54	Lansde Trupti Nilesh					
55	Lohar Rutuja Deepak	9307048959	40.7	3.4	5.5	Tab

2.6



[Signature]
Principal
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Mumbai
Bhamburda Road, Andheri West, Mumbai
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Basic Health Check-up of School Kids

NSS volunteers did the basic health checkup of school students between the age group of 7-9 on 24/1/2023 which included weight, and height measurement along with Nail checking and counseling regarding intake of nutritional food and guided them regarding nutrition those who were underweight or observed with any issues. Also, volunteers guided them about personal hygiene and its importance. The health checkup camp was held at a government school in Moi village. Kids responded well to the volunteers during basic health checkups.

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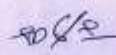
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Date: 20/12/2022

NOTICE

All the students of D. Pharm, B. Pharm, M. Pharm are hereby informed that we are organizing Guest Lecture on Topic "**Raj Yoga the art of being stress free.**" on 22nd December, 2022 at 11.30 to 12.30pm in seminar Hall. This activity will be conducted under **Women Empowerment Cell**. So all students should be present for the same.


Guest Lecture In charge


Dr. Dhole S.N.



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PES, Modern College of Pharmacy (for ladies), Moshi, Pune

Guest Lecture: Prajapita Bramha kumaris Ishwariy Vishva Vidyalaya



MRHP+PRX, Dehu - Moshi Rd, MIDC, Moshi, Pimpri-Chinchwad,
Maharashtra 412105, India

Latitude
18.6793486°

Longitude
73.8370339°

Local 12:36:57 PM
GMT 07:06:57 AM

Altitude 14.24 meters
Thursday, 22.12.2022



Gandharv Excellence Wing-A, GANDHARV EXCELLENCE, MIDC,
Moshi, Pimpri-Chinchwad, Maharashtra 412105, India

Latitude
18.6771748°

Longitude
73.8401071°

Local 12:37:21 PM
GMT 07:07:21 AM

Altitude 14.23 meters
Thursday, 22.12.2022



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Principal

Prof. Dr. G. R. Ekbote,
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SUMMARY REPORT ON GUEST LECTURE

Topic: "Positive Way of Thinking and Character Building"

Resource Person: Dr. Priti Joseph Victor

Conducted on: 06/10/2022

PES Modern College of Pharmacy for Ladies organized a guest lecture on topic **"Positive Way of Thinking and Character Building"** between 2.00 pm to 4.00 pm on 6th October 2022 for D. Pharmacy, B. Pharmacy, M. Pharmacy students.

Introduction of Programme and Resource person was given by our S.Y. D. Pharmacy student Ms. Shravani Kalsait. Speaker was welcomed by our respected Principal Dr. S.N. Dhole with bouquet. The speaker Dr. Priti Joseph Victor, discussed the importance of positive thinking, mental strength and self-motivation. The students interacted and clarified doubts regarding issues on facing problems getting through tough phases in life etc. Students of 3rd and 7th semester attended the session.

Dr. Priti discussed about positive thinking which actually means approaching life's challenges with a positive outlook. It does not necessarily mean avoiding or ignoring the bad things; instead, it involves making the most of the potentially bad situations, trying to see the best in other people, and viewing yourself and your abilities in a positive light. To conclude the topic she has given suggestions like, we must change our attitude and believe that we will succeed one day. Moreover, we also need to implement positive thinking techniques which will help us learn from our failures and stay focused. As positive thinking plays an essential role in our lives, we must make sure to adopt in our lives. A total number of 120 students participated in the program. The sessions were informative and well appreciated by the participants. At the end of the programme Ms. Shradha deliver the vote of thank towards the guest.

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Criterion 1: Curricular Aspects



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Snapshot of Guest Lecture:



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Guest Lecture in Charge
(Ms. G. S. Mehetre)




Principal
PRINCIPAL
PES Modern College of Pharmacy
(For Ladies)
Berhadewadi, At/Post Moshi,
Tal. Naveil, Dist. Pune - 412105

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**PES, Modern college of Pharmacy For Ladies, Moshi Pune
S. Y. B. Pharm 2022-2023**

Date: 6/10/2022

Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign
1.	Amble Shruti Pramod	<i>Amble</i>	25	Gadekar Rachana B		49	Khule Pallavi Ashok	<i>Pallavi</i>
2.	Awale Sayali Hanumant		26	Gaikwad Rutuja V		50	Kobal Sakshi Uttam	
3.	Bachkar Sonali Bhmaji		27	Gaikwad Samruddhi S	<i>Samruddhi</i>	51	Konde Khushi Amol	
4.	Bagul Trupti Rajesh	<i>Trupti</i>	28	Gavade Sanika Kalidas		52	Kshirsagar Pratiksha D	<i>Pratiksha</i>
5.	Baskar Asvitha	<i>Asvitha</i>	29	Gaware Nikita K		53	Kumbhar Divya M	<i>Divya</i>
6.	Bawane Sanyukta S		30	Harke Gayatri Sunil		54	Lande Trupti Nilesh	
7.	Bhangre Mrudula B	<i>Mrudula</i>	31	Hule Sarthi Rajendra		55	Lohar Rutuja Deepak	
8.	Bhavar Rutuja B	<i>Rutuja</i>	32	Ingole Pooja Pramod		56	Magar Swamini C	
9.	Bhilare Tejasvini Kiran	<i>Tejasvini</i>	33	Jadhav Akansha J	<i>Akansha</i>	57	Mali Mansi Sachin	
10.	Bhosale Gautami G		34	Jadhav Ketaki Pratap		58	Mali Vaishnavi B	
11.	Biradar Shradda S		35	Jawanjal Purva S		59	Mane Nayan V	
12.	Birle Vaishnavi Sachin	<i>Birle</i>	36	Kadam Smita Poapt		60	Mane Shreya Mahesh	
13.	Chaudhary Zainab G		37	Kale Anushka Shrikant		61	Manjare Pratiksha I	<i>Pratiksha</i>
14.	Dadas Vaishnavi Dhanaji	<i>Vaishnavi</i>	38	Kale Dnyaeswari K		62	Marade Yogita V	
15.	Dahate Esha Vinod		39	Kale Prachi Bhagavan		63	Mehasare Gayatri R	
16.	Dhadge Sharli Ravindra		40	Kamble Sakshi Anand		64	Mohite Rakhi Rajesh	
17.	Dhokane Aastha Sunil	<i>Aastha</i>	41	Kanode Shweta Sanjay		65	Momin Nida B	<i>N.B.momin.</i>
18.	Dhole Akariksha S		42	Kapale Anushree A		66	More Sneha Santosh	
19.	Dhole Siddhi Bhausheb	<i>Siddhi</i>	43	Kashid Snehal Popat		67	Navgire Janhavi Y	<i>Janhavi</i>
20.	Dhormare Radha Avinash		44	Katore Purva Rajendra		68	Pacharne Charuta P	
21.	Dhumal Mayuri D	<i>Mayuri</i>	45	Kedari Payal Narayan		69	Pachpande Tammayee A	
22.	Dhumane Isha Anand	<i>Isha</i>	46	Kedari Vaishali Mohan	<i>Vaishali</i>	70	Padwal Monika Ganesh	
23.	Doke Rutuja Jalindra		47	Khair Srushti Navnath		71	Panchbhai Ovee Balraj	
24.	Falke Gitanjali B.		48	Kharabi Siddhi Rahul		72	Pande Kanchan Manohar	



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PES, Modern college of Pharmacy For Ladies, Moshi Pune S. Y. B. Pharm 2022-2023

Roll No	Name	Sign	Roll No	Name	Sign
73	Pardeshi Vaishnavi Sudarshan		97	Thorat Vaishnavi Vijay	<i>[Signature]</i>
74	Patil Kalika Raosaheb		98	Thorbole Shradha Satish	<i>[Signature]</i>
75	Patil Indrayani Vijay	<i>[Signature]</i>	99	Tikudwe Samidha Hanmantrao	
76	Patil Mansi Prashant		100	Tirkunde Madhavi Shrirang	
77	Patil Vaishnavi Dinesh	<i>[Signature]</i>	101	Vishwakarma Sakshi Lalji	<i>[Signature]</i>
78	Punde Kshittija Rajendra	<i>[Signature]</i>	102	Wagdare Falguni Ram	<i>[Signature]</i>
79	Reddy Aishwaraya Vishnu	<i>[Signature]</i>	103	Waghmare Ragini Madhav	<i>[Signature]</i>
80	Roundhal Akanksha	<i>[Signature]</i>	104	Walwate Manisha Shivaji	<i>[Signature]</i>
81	Sakpal Trupti Sudhir	<i>[Signature]</i>	105	Wavhal Sakshi Satosh	<i>[Signature]</i>
82	Salunke Vaishnavi Gitraj	<i>[Signature]</i>	106	Yadav Kumkum Bachelal	<i>[Signature]</i>
83	Sapate Tanuja Vagambur	<i>[Signature]</i>	107	Yadav Salone Sanjay	<i>[Signature]</i>
84	Satkar Sakshi Kalidas	<i>[Signature]</i>	108	Yelwande Ankita Dattatray	
85	Sawant Neha Vithal		109	Zagade Janhavi Machindra	
86	Sawant Shraddha Chandrkant				
87	Shenavi Tanyee Pravin	<i>[Signature]</i>			
88	Shetty Diya	<i>[Signature]</i>			
89	Sonar Sakshi Rahendra				
90	Sonavane Vipashana Prashant	<i>[Signature]</i>			
91	Sukre Sanika Kailas	<i>[Signature]</i>			
92	Suryawanshi Prerana Sanjay				
93	Talekar Tejal Subhas	<i>[Signature]</i>			
94	Talpade Arya Ajay				
95	Temkar Maya Uttam				
96	Thorat Rutuja Arun				



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Date:
06/10/22

PES Modern college of Pharmacy (For Ladies), Moshi Pune														
T. Y. B. Pharm Roll Call List 2022-2023 (Sem V)														
Division A-Roll No.1 to 63					Division B-Roll No.64 to 126									
Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign
BATCH A			BATCH B			BATCH C			BATCH D			BATCH E		
1	Gayatri Aule		27	Sandya Dhoke		53	Urvashi Jagtap		76	Sonika Patil		103	Vishalini Ursap	
2	Adalingshagyaedoti		28	Shital Dholewad		54	Sapriya Kadbane		79	Pratibha Parhad		104	Shrutika Valsare	
3	Shradha Adhav		29	Akanksha Dethode		55	Shital Kardile		80	Nikita Parve		105	Prachi Wadkar	
4	Rucha Akankar		30	Harshada Dalero		56	Pranjal Kulkar		81	Jashvi Pusane		106	Vaishali Wagh	
5	Rutuja Antakar		31	Sakshi Gade		57	Mamtha Kevat		82	Sakshi Pathare		107	Saisikha Waghmare	
6	Akanksha Ankar		32	Nikita Gadhave		58	Pratibha Kirshabane		83	Shikhareshi Patil		108	Vishvasini Waghmare	
7	Misha Anur		33	Vaishali Gandhi		59	Pratibha Kothawale		84	Karti Patil		109	Tanya Wale	
8	Yashvi Bangar		34	Shweta Galkal		60	Rutika Kshirsagar		85	Vaishnavi Patil		110	Sejal Walunj	
9	Pratiksha Bhambekar		35	Anjali Gaudani		61	Vandana Lalade		86	Aakasha Pawar		111	Shiksha Mayuri	
10	Nandini Bhavsar		36	Arshi Gavali		62	Pranjal Lodige		87	Priyanka Pharate		112	Shraddha Vrothai	
11	Yashvi Bhatnagar		37	Pranali Gosavi		63	Pranjal Lokhande		88	Divya Rane		113	Bhijayamgoda	
12	Akhata Bhat		38	Bhishma Gavare		64	Kalyani Madhale		89	Prachi Rangare		114	Borati Nikita	
13	Harshi Bhat		39	Prati Ghemant		65	Usharsha Mahajan		90	Aashika Rathod		115	Chandhary Pappal	
14	Aashwarya Bhore		40	Prachi Chodake		66	Gayatri Mahajan		91	Divya Rathod		116	Datta Varsha	
15	Mrunali Bhumale		41	Rutuja Ghumant		67	Ashwini Mahate		92	Prapika Salunke		117	Gadde shanti	
16	Mrunali Bhosale		42	Veerani		68	Soyali More		93	Atasha Soni		118	Jadhav yoti	



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17	Bhakra Bagwan	43	Gulhane Vaisnavi Gupta	68	Shravani Mule	94	Siddhi Sonai	119	Jasvini Jadhavi
18	Priya Chaudhari	44	Anuja Garav	70	Anashika Nagare	95	Aishwarya Sekarshar	120	Katrina Akanksha
19	Aishwarya Choudhari	45	Sakshi Garav	71	Pratiksha Nale	96	Aditi Shrivastava	121	Mazhar Sharayu
20	Ashwini Dafal	46	Arjuni Hanode	72	Prerana Nandibhile	97	Hansika Singh	122	Mevkar Rutuja
21	Anashika Deokar	47	Kadambini Harikan	73	Renuka Padavale	98	Rutuja Sonawane	123	Pooja Nikita
22	Sakshi Deshpande	48	Sakshi Hirwale	74	Samini Padwa	99	Siddhi Sonawane	124	Selankhe Sakshi
23	Aditi Dhanwade	49	Sakshi Holkande	75	Amita Palkure	100	Vandana Sutar	125	Salve divyanshi
24	Nisha Dhanwade	50	Neha Jadhav	76	Pratya Patilkar	101	Pragati Taware	126	Sangade varsha
25	Dhanshi Dhanwale	51	Pooja Jadhav	77	Kalyani Pande	102	Pooja Tingale	127	Sate Nela
26	Ritika Dhorge	52	Pilavi Jadhav			104	Vandana Umaj		



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PES's, modern college of Pharmacy For Ladies, Moshi Pune Date - 06/10/22
Final Year B. Pharm Roll Call List 2022-2023

Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign
1.	Abhang Rutuja		24	Gaikwad Tejaswini		47	Kumbhar Siddhi	<i>[Signature]</i>
2.	Alhat Vaishnavi		25	Game Rohini Sunil		48	Kumbhare Shivani	
3.	Bachhav Shubhangi		26	Gawade Susmita		49	Lokhande Sayali	<i>[Signature]</i>
4.	Bagade Shruti Sharad		27	Gaware Akshada		50	Mahanavar Pratiksha	
5.	Bagul Ruchita Sahebrao		28	Gengaje Tejal S.		51	Mankari Vaishnavi	
6.	Bhakre Shubhada		29	Girase Hiral B.		52	Mhetre Ankita	
7.	Borade Smita Yuvraj		30	Goswami Priyanka		53	More Janhavi Vivek	
8.	Borhade Deepali Sudam		31	Gowda Aishwarya		54	Musale Shravani	<i>[Signature]</i>
9.	Bute Bhavana		32	Gurav Bhakti Santosh		55	Nagare Ashvini Dinkar	
10.	Chavan Namrata		33	Jadhav Sakshi		56	Narkhede Shruti Vijay	
11.	Chavan Purna Vijay		34	Jagatap Shraddha		57	Narwade Komal	
12.	Chikhale Neha		35	Jagtap Samruddhi		58	Nimbargi Virakshi	
13.	Chinchansure Vaishnavi		36	Jalsakare Nikita		59	Pandit Anisha Gulabrao	
14.	Choudhari Aishwarya		37	Joshi Ketki Kedar		60	Pansare Snehal	<i>[Signature]</i>
15.	Dahiwal Samruddhi	<i>[Signature]</i>	38	Kad Neha Ulhas		61	Patil Harshada Maruti	
16.	Dawn Suchismita Amit		39	Kamble Pooja Bapu		62	Pawar Rutuja Santosh	
17.	Devadkar Snehal		40	Kamble Shashvati		63	Phartale Anisha Rajendra	
18.	Dhadge Aaditi Jalindar		41	Karpe Vaishnavi		64	Phatangare Akanksha	
19.	Dhokare Priya		42	Khalure Ambika Sanjay		65	Pikle Prajakta Kashinath	
20.	Dhumase Punam		43	Khedkar Shivani		66	Pole Ahilya Jaywant	
21.	Dongarkar Sanskruti		44	Kokane Varsha Shivaji		67	Rahane Achal Kailas	
22.	Gadhawe Mayuri		45	Kolhe Vaishnavi Vijay		68	Rakshe Sakshi Hanumant	
23.	Gadilkar Mrunmayee		46	Kumavat Aditi		69	Raut Pratiksha Nilkhant	



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PES's, Modern college of Pharmacy For Ladies, Moshi Pune Final Year B. Pharm Roll Call List 2022-2023 (wef sem VII)					
Roll No	Name	Sign	Roll No	Name	Sign
70.	Raut Prerana Prakash		94.	Dalvi Sandhya Gangaram	
71.	Sarode Nikita Ananta		95.	Devane Vaishnavi Nandkumar	
72.	Sathe Rohini Sunil		96.	Dhaigude Vaishnavi Ashok	
73.	Sayali Gajabhau		97.	Ekal Pratiksha Subhash	
74.	Shaikh Nazal		98.	Ghadge Sandhya Prakash	
75.	Shinde Komal Sanjay		99.	Ghodake Utkarsha Prakash	
76.	Shinde Shubhangi		100.	Hinge Pranjal Prabhakar	
77.	Shinde Vaishnvi		101.	Jadhav Rajshri Dattatray	
78.	Shreya Nandu		102.	Jadhav Sneha Sukhdeo	
79.	Sonawane Akanksha		103.	Kondhawale Shraddha Kisan	
80.	Suryawanshi Sonal		104.	Lokhande Vrunda Sanjay	
81.	Taware Rutuja Rahul		105.	Mahankar Poonam Pramod	
82.	Thorat Samiksha		106.	Mandlekar Damini Shiram	
83.	Vajale Sneha		107.	Shaikh Praveen Mehmud	
84.	Wagh Pallavi Santosh		108.	Shelar Monali Amber	
85.	Wagh Sakshi Kisan		109.	Shitole Megha Vijay	
86.	Waghmare Ashwini		110.	Sodak Bhagyashri Bharat	
87.	Walunj Rutuja Gulab		111.	Somvanshi Neha Vilas	
88.	Wangwad Shweta		112.	Thakare Pratiksha Parshuram	
89.	Aher Neha Hanumant		113.	Varal Rutuja Pandurang	
90.	Akanksha Sanjay Mane		114.	Wagh Switi Subhash	
91.	Bangar Akshata Sopan		115.	Wale Mayuri Shivaji	
92.	Chaskar Janhavi Kiran		116.	Zade Preeti Kanifnath	
93.	Chormale Gitanjali Anil				

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SUMMARY OF GUEST LECTURE

Topic of Guest Lecture: "How to overcome drug addiction and drug abuse "

Resource Person: Mr. Mandar Shetty, Muktangan Mitra, Pune

Conducted on: 24/06/2023

PES Modern College of Pharmacy (for ladies), Moshi, Pune, has arranged a guest lecture on topic "How to overcome drug addiction and drug abuse" by the resource person Mr. Mandar Shetty, Muktangan Mitra on the occasion of fortnight campaign of "International Day against Drug Abuse and illicit Trafficking". during 12th to 26th June 2023.

Introduction of the program and resource person was given by First Year B. Pharm Student. Speaker was welcomed by our respected Vice Principal Dr. Vrushali Tambe ^{मंदाळी} with bouquet of flowers. Mr. Mandar Shetty in his lecture, he began his talk by showing a short film about how drug addiction and drug abuse ruined lives of families. The video described how the world is changing rapidly, and one needs to be aware and change with the changing time, else there may be people or acquaintances around who may drag a person into addiction. He then discussed about various types of intoxicants that cause addition like cigarettes (nicotine), liquor (alcohol), tea and coffee (caffeine) and drugs. 'Although nicotine, alcohol and caffeine cause physiological effects, but drugs cause psychological effects too hence are more addictive Discussing about various categories of illicit drugs like depressants (opium family), stimulants (cocaine family), hallucinogens (cannabis family) and various synthetic drugs which cause damage to mind and body. The session was interactive and students were satisfied to listen his thoughts. It was a great experience to be a part of such an informative and helpful session. Overall, the guest lecture was nice and was helpful for improving knowledge. The lecture ended with a vote of thanks given by Priyanka Shinde Mam.



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Criterion 1: Curricular Aspects



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Mr. Mandar shetty delivering lecture on "Drug addiction and drug abuse "



Mr. Mandar shetty discussing doubts on "Drug addiction and drug abuse "

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Human Values (2021-22)



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
27/01/2022

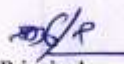


SUMMARY
Republic Day


Republic Day was celebrated at 7.45 am to 9.00 am in the Modern College of Pharmacy for Ladies Moshi. The beginning of the programme was done by Deep Prajwalan and Bhartmata Pujan by the hands of our honorable Principal Dr. S. N. Dhole Sir, followed by flag hosting. National anthem was sung in chorus by all teaching, non teaching staff. Dhvajgeet and patriotic song was sung by second year students. Then snack was distributed to everyone on this occasion.

Outcome of the Programme:
Feeling of patriotism and unity in diversity was felt by all teaching, non teaching staff and students.


Cultural In-Charge
Mrs. R. A. Bhalerao


Principal

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Mission Yuva Swasthya – Report

(Free Covid – 19 Vaccination Drive)

NSS Unit of PES Modern College of Pharmacy (for Ladies), Moshi in collaboration with Bhosari Hospital Pimpri-Chinchwad Municipal Corporation as well as in association with the Department of Higher and Technical Education, Maharashtra State and the Government of Maharashtra Public Health Department free Covid-19 vaccination campaign "Mission Yuva Swasthya" was conducted on Saturday, October 30, 2021 for college students including teaching and non-teaching faculties



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International AIDS Day Celebration -2021-22

International AIDS Day was celebrated on 1st Dec 2021 by NSS volunteers of MCPL using the online Zoom platform. Considering the situation of pandemics outside there. Students have made awareness among college students and their colleagues by showing them presentations and also in an animated way. Which made it more understandable form.



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Pulse Polio Activity

The NSS unit of PES MCPL with the cooperation with Moshi government hospital completed the pulse polio campaign on 27 February 2022. Hospital staff has given prior training to the students about how to give the polio dose and how to handle emergencies. Students completed activity by taking all the precautionary measures of COVID-19. 26 students participated in the activity.



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17/08/2020




SUMMARY

74th Independence Day

Independence Day was celebrated at 7.30 am to 9.00 am in the Modern College of Pharmacy for Ladies Moshi. The beginning of the programme was done by Deep Prajwalan and Bhartmata Pujan by the hands of our honorable Principal Dr. S. N. Dhole Sir, followed by flag hosting, National anthem was sung in chorus by all teaching, non teaching staff, Dhvajgeet and patriotic song was sung by Neelam Sawant. Then snack was distributed to everyone on this occasion.

Outcome of the Programme:

Feeling of patriotism and unity in diversity was felt by all teaching, non teaching staff and students.


Cultural In-Charge
Mrs. R. A. Bhalerao




Principal

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Road Safety Awareness Program

PES Modern College of Pharmacy (for ladies) has organized the ' Road Safety Awareness Program' under Road Safety Awareness Month (18th January - 17th February) as a part of the National Service Scheme Activity. The program was conducted on 6/2/2021, Saturday, virtually by using a Zoom online platform, because of this pandemic situation. For this program, Mr. Parag Dandge, Manager at Maruti Suzuki Motor Driving School, has given his valuable guidance for the awareness of road safety. He has given training to more than 5000 corporate employees and more than 2000 students regarding our responsibilities to make our roads safer and to avoid accidents. He told about the practice of use of safety measures while driving a vehicle. Also, the documentation part which we should keep with ourselves while driving. Also, he helps to understand the students the reasons for road accidents, and what are our responsibilities to avoid them. The principal of MCPL, Dr. S. N. Dhole has given valuable guidance to make this event successful. Also all the faculty members and NSS students also their valuable contributions to make this event successful.




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Poster Making Competition on the occasion of "Azadi ka Amrut Mahaotsav"

PES Modern College of Pharmacy (for ladies) has organized a poster-making competition on 'Road Safety awareness' under Road Safety Awareness Month (18th Jan- 17th Feb) as a part of the NSS activity. The competition has been conducted on 10/02/2021. Competition has been conducted by using online platforms, because of covid-19 pandemic situation. For this competition, 7 students enrolled their names. Prof. Dr. Rohini Pujari evaluated the competition. From that, Miss Siddhi Kumbhar (S. Y B.Pharm) got first position, and Miss. Rutuja Abhag (S. Y. B.Pharm) and Priti Sakore (T.Y. B.Pharm) has won the third position. E- Certificates have been provided to the winners. Principal Dr. S. N. Dhole and all the faculty members have appreciated the winners and participants for their valuable efforts.




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
SUMMARY

Republic Day

Republic Day was celebrated at 7.45 am to 9.00 am in the Modern College of Pharmacy for Ladies Moshi. The beginning of the programme was done by Deep Prajwalan and Bhartmata Pujan by the hands of our honorable Principal Dr. S. N. Dhole Sir, followed by flag hosting. National anthem was sung in chorus by all teaching, non teaching staff. Dhvajgeet and patriotic song was sung by Neelam Sawant, Rutuja Tapkir. Then snack was distributed to everyone on this occasion.

Outcome of the Programme:

Feeling of patriotism and unity in diversity was felt by all teaching, non teaching staff and students.


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Photos for Celeration of Republic Day 2021



Standing for National anthem

Rudra



SGP

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LEPROSY AWARENESS RALLY

Date: 07/02/2018

Venue: Moshi Village, Tal- Havelli, Dist- Pune

Leprosy awareness rally was organized at Moshi village in association with YCM Hospital, Pimpri, Pune and Nageshwar High School Moshi, wherein the NSS volunteers along with the doctors, school students and teachers created awareness regarding spread and management of the dreadful disease, leprosy in the form of slogans, interaction etc.




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RALLY & STREETPLAY ON CLEANLINESS AND COMMUNICABLE DISEASES

Date: 5/01/2019

Venue: At. Markal Village, Tal- Khed, Dist- Pune

The volunteers lined up for the Rally on cleanliness awareness and communicable diseases and treatment holding the placards prepared day before. and the rally started from Navin Madhyamik Vidyalaya and then went into almost every area of Markal calling out the slogans and messages regarding the awareness. During this some volunteers performed the street play on the theme communicable diseases and treatment and role of pharmacist at various important places such as grampanchayat, schools etc. The villagers appreciated about the rally and street play and gained lot of information. After rally all the volunteers enjoyed the lunch and took rest for 1 hour.



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VISIT TO SHRI SHRI RAVISHANKAR'S TRIVENI ASHRAM MARKAL VILLAGE

Date: 4/01/2019

Venue: At. Markal Village, Tal- Khed, Dist- Pune

NSS Volunteers visited to Shri shri Ravishankar's Triveni Ashram, Markal was arranged and all the volunteers were carried by bus to the Ashram. All the volunteers visited the different areas of Triveni Ashram, collected the information about its functioning, different Art of living activities carried out there under. Everyone enjoyed the beautiful nature in the Ashram premises. After that the volunteers enjoyed delicious lunch at the Ashram and took rest for few minutes. Then a lecture and workshop was arranged by the Ashram wherein a speaker spoke about the stress free life and also demonstrated the methods of the same practically. The volunteers also followed the meditation methods and really felt stress free. They also played several games there under which made them fully relaxed until evening



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SERVEY OF MARKAL VILLAGE

Date: 3/01/2019

Venue: At. Markal Village, Tal- Khed, Dist- Pune

Survey of village regarding family members, educational, health and other facilities was done for many families. Then delicious lunch was enjoyed by all. Survey was continued in remaining part of village after rest till evening. Volunteers have done survey of around 100 families. Then volunteers had Tea and Biscuits. After that they communicated with villagers through a village visit. Delicious Dinner was enjoyed by volunteers at night. Opinion of volunteers during survey and visit was discussed. After survey following points were concluded by volunteers. The village has basic facilities like electricity, water supply, LPG gas etc. Most of the villagers were educated till tenth or twelfth. The main problems included transportation facilities, cleanliness, ambulance facilities, sewage disposal etc. The probable solutions on these problems were discussed. Volunteers enjoyed Antakshari and few games till dinner time. Then they had delicious dinner.



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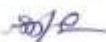


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Date- 08/03/2019

Health check-up Camp of School Children

General health check up camp for all school children and hemoglobin (Hb) determination camp school girls was organized in association with **Pritam Hospital, Bhosari** to determine the number of anemic girls and along with that blood group detection camp was organized for the students at NSS Special camp at Chimbli. The volunteers did Hb checkup of the school girls, simultaneously the volunteers also explained the health care tips to increase hemoglobin levels to the students. Few volunteers simultaneously determined the blood group of the students. Until lunch break volunteers completed the hemoglobin and blood group checkup of around 100 students and then took a break for the lunch. They had the lunch and took rest for a while. After this they completed the Hb and blood group checkup of 200 students. Then **Dr. Lalitkumar Dhoka (Pediatrician, Pritam Hospital, Bhosari)** gave the lecture to the school students on information about importance of hemoglobin, tips to maintain health and Hb count and role of healthy and balance diet in its maintenance. After that volunteers analysed the results of the Hb check up camp and found that most of the school girls are suffering from anemia. The xerox copy of the reports was submitted to the school along with the conclusion and necessary actions to be taken for improvement of Hb count in school girls.




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Date: 07/02/2019


Venue: Moshi Village, Tal- Haveli, Dist- Pune

Leprosy awareness Quiz Competition was organized by Government of Maharashtra under National Leprosy Eradication Program at Modern College of Pharmacy (For Ladies), Moshi, Pune, on 07/02/2019 wherein the NSS volunteers participated in the quiz competition and also gained a thorough knowledge of the same. Dr. Dnyandeo Sable Medical Officer, Supervisory Urban Leprosy Unit, Pimpri, Dr. Pavan Sable Medical Director, Pimpri Chinchwad Corporation, Dr. Hukumchand Patole, Asst. Director of health services, Vishrantwadi, and Mr. Ravishankar Bharad took the initiative of the program and conducted the program. Dr. S. N. Dhole, Principal Modern College of Pharmacy (Ladies), Moshi, Pune provided all the support and facilities for conducting the quiz competition. Ms. Rohini Pujari, NSS Program officer coordinated the overall program and thus the quiz competition was completed successfully.

Following were the names of the students participated and the results of quiz competition:

Group No.	Names of Participants	Winning Position	Prizes
A	Snehal Shinde, Snehal Kumbhar, Shraddha Kanade, Nikita Bhilare, Aparna Patil	1 st Winners	Rs. 1000 & Certificates
B	Vaishnavi Sudake, Sakshi Arjun, Aishwarya Mandale, Shruti Suravase, Sayali Sable	2 nd First Runner Ups	Rs. 700 & Certificates
C	Shivani Zarkar, Anuja Munde, Pratiksha Kalse, Shravani /rakshe, Madhuri Date	6 th	Certificates
D	Snehal Kamate, Rutuja Yadav, Sushma Ture, Swapnali Zadke, Anjali Gite	3 rd Second Runner Ups	Rs. 500 & Certificates
E	Preeti Sakore, Piyusha Pawar, Sayali Pawar, Aditi Lakade, Juveria Momim	4 th	Certificates
F	Nikita Deokar, Mayuri Bhosale, Anuja Patil, Gauri Khot, Asihwarya Kadam	5 th	Certificates




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VISIT TO ALOEVERA FARMS

Date: 5/01/2019

Venue: At. Markal Village, Tal- Khed, Dist- Pune

A visit to aloe vera farms and industry at Markal was arranged and all the volunteers lined up and visited these places wherein they gained information regarding farming process and cultivation and collection of aloe vera plants and extraction of aloe vera juice in the industry. Then the volunteers came back to the camp and had some snacks and tea then they started preparing for the dinner. Then they played several games and then everyone had dinner and day four ended.




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VILLAGERS HEALTH CHEKUP CAMP

Date: 7/01/2019

Venue: At. Markal Village, Tal- Khed, Dist- Pune

In morning volunteers had their regular activities and breakfast. Some volunteers made the setup for health checkup of villagers wherein they checked the height weight and blood pressure of the villagers. Some students went into the village and collected the village history from the elderly people about different places, monuments, temples and other historical events at Markal. These events were carried until lunch. Then the volunteers had their lunch. Then they took rest for a while and again continued with the health check up of villagers until the evening. After finishing all the activities the volunteers had the evening snacks and the tea. Then they all became busy in cooking dinner playing etc. Then the volunteers had the dinner and all the volunteers came together and a discussion about the valedictory function amongst all the volunteers and all four program officers was carried out wherein the schedule for valedictory function was decided. The day ended in this way.



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ENVIRONMENT AND SUSTAINABILITY (22-23)

Sr.No.	Events Organized	Date	Description
1.	Plastic free environment Awareness	21/01/2023	NSS Camp conducted lecture on plastic free environment on 21 st January 2023
2.	Azadi ka Amrut Mahotsav- Tree Plantation	13/08/2022	NSS volunteers conducted tree plantation program on 13 th August 2022 in Moshi for Environmental Care and Protection
3.	Environmental Awareness through Drawing Competition	21/01/2023	Environment protection
4.	Awareness regarding the consumption of Medicines	24/01/2023	Educating the community with basic health aspects
5.	Clean India Activity	17/03/2023	Practicing sanitation and hygiene across the country

ENVIRONMENT AND SUSTAINABILITY (21-22)

1.	Mazi Vasundhara Mitra	11/10/2021-20/10/2021	Environmental Protection and care
2.	Plogethon activity	21/11/2021	Cleanliness awareness
3.	Clean India Activity	9/03/2022-10/03/2022	Cleanliness Awareness

ENVIRONMENT AND SUSTAINABILITY (20-21)

1.	Swacchata Pakhwada	11/08/2021-25/08/2021	Cleanliness Awareness'
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ENVIRONMENT AND SUSTAINABILITY (19-20)

1.	Visit to Aloe Vera Farm at Markal	05/01/2019	Environmental Protection and care
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2.	Cleanliness Campaign at Tulapur	06/01/2019	Cleanliness Awareness, Sensitizing Social issues
3.	Cleanliness campaign under "Nirmal Wari Abhiyan"	07/07/2018	Cleanliness Awareness
ENVIRONMENT AND SUSTAINABILITY (19-20)			
1.	Cracker free Diwali	23/10/2018	Dr. Lalitkumar Dhoka, Lion's Club, Bhosari



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Environment and Sustainability (2022-23)



Plastic Free Environment Awareness

A guidance lecture on 'Plastic free environment' by Mr. Prashant Avchat sir has been arranged on 21/1/2023 for students and villagers of Mōi. Sir has guided students about how plastic is dangerous for the earth in the future how to manage plastic waste and how to reduce the usage of plastics. Villagers responded well to the program. Following the lecture students have done awareness of plastic plastic-free environment.



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AzadiKaAmrutMahotsav- Tree Plantation

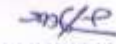


Gandhary Excellence Phase 1, Dehu - Moshi Rd, Borhade Wadi,
Moshi, Pimpri Chinchwad, Maharashtra 412105, India
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Local 01:09:28 PM Altitude 514.59 meters
GMT 02:39:29 AM Saturday, 13 Aug 2022



Gandhary Excellence Phase 1, Dehu - Moshi Rd, Borhade Wadi,
Moshi, Pimpri Chinchwad, Maharashtra 412105, India
Latitude: 18.67755945° Longitude: 73.84103202°
Local 01:08:45 PM Altitude 512.43 meters
GMT 02:38:45 AM Saturday, 13 Aug 2022




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Environmental Awareness through a drawing competition

NSS volunteers of Mcpl conducted a drawing competition on 21/01/2023, for primary school students of age group 8-10 on the topic of "My Clean and Pollution-free Village"; volunteers also made them aware of environmental protection. How they can keep their environment neat, clean, pollution-free, and plastic-free. What are the benefits of environmental protection at the right time? How it will save the earth. Students expressed their feelings effectively through this activity.



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Awareness Regarding the Consumption of Medicines

'Awareness regarding consumption of Medicines' is an informative session arranged at the NSS campsite by volunteers for the people of Moi village on 24/01/2023. Generally, people in rural areas are not aware of such kind of information or the consequences of wrongly taken medicines, the interaction of medicines, also the side effects of medicines, etc. So as volunteers are from a medical background they helped people in a good manner. Prof. Bhagyashree Atre from Modern College of Pharmacy guided the people regarding this subject. People responded positively to the event.




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Clean India Activity [Try to make the best out of the Best]

NSS unit of PES MCP has conducted a swatch Bharat Abhiyan at the MCPL campus and medicinal garden area moshi on 16th and 17th March 2023. NSS volunteers done this activity in combination with PCMC. NSS volunteers have made awareness regarding waste management among faculties and other students of the college. They have given knowledge of waste segregation by using various color codes. i.e. by using dustbins of different colors i.e. Blue is for dry waste, red is for hazardous waste, Yellow is for biomedical waste green is for biodegradable waste, etc. we have done this waste segregation in routine practice. For the well-being of our earth. Also, students done cleaning in the Moshi area, and MCPL Campus. Volunteers made decorative stuff by using waste tires colouring them and putting them around trees that were planted on 26th Jan 2023. Also, they have made birds and other decoration materials from waste papers and metals. Management, the Principal, and faculties appreciated the efforts taken by the students.




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Environment and sustainability (2021-22)



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“Mazi Vasundhara Mitra Abhiyan”-2021-22

Students of MCPL in collaboration with the government of Maharashtra, and the Environment and Climate Change Department has done tree plantation activity at their places between 11/10/2021-20/10/2021 during pandemic. Students have received certificates from the respective department for tree plantations after uploading tree plantation photos on their Google Drive followed by the provision of a link to the photos.



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“PLOGETHON” ACTIVITY REPORT

NSS unit (B69) of PES MODERN COLLEGE OF PHARMACY (for ladies) has participated in the “Plogathon” by PCMC Municipal Corporation, which is a walk that collects garbage and contributes to the cleanliness of the city, on the **21st of November 2021**. Students completed a cleanliness activity in the Moshi area. Activity has been conducted in Moshi (Bharat Mata Chowk), by following all the rules and regulations given by the government of Maharashtra for the COVID-19 pandemic. 7 NSS volunteers of PES MODERN COLLEGE OF PHARMACY (for ladies) have participated in the cleaning activity. During the activity, participants cleaned all the surroundings of Moshi (Bharat Mata Chowk). Principal Dr. S.N.Dhole sir and all the teaching faculty encouraged students for such plogethons.



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Clean India Activity

NSS unit of PES MCP has conducted a swatch Bharat Abhiyan at the MCPL campus and medicinal garden area moshi on 9th and 10th March 2022. NSS volunteers have done this activity in combination with PCMC. NSS volunteers have made awareness regarding waste management among faculties and other students of the college. They have given knowledge of waste segregation by using various color codes. i.e. by using dustbins of different colors i.e. Blue is for dry waste, red is for hazardous waste, Yellow is for biomedical waste green is for biodegradable waste, etc. We have done this waste segregation in routine practice. For the well-being of our earth. Also, students have done cleaning in the Moshi area, and MCPL Campus. Management, Principal, and faculties appreciated the efforts taken by the student.




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Environment and sustainability (2020-21)



"Swachhata Pakhwada", Activity

NSS Unit (B69) of PES Modern College of Pharmacy (for ladies) has celebrated "Swachhata Pakhwada- 2021" enthusiastically from 11/08/2021-25/08/2021. Activity has been conducted in the college campus of PES Modern College of Pharmacy, Moshi, by following all the rules and regulations given by the government of Maharashtra for the COVID-19 pandemic. NSS volunteers and teaching and non-teaching staff of Modern College of Pharmacy have participated in the cleaning activity. During the activity, participants cleaned the college campus on the occasion of Swachhata Pakhwada and in preparation for Independence Day 2021. The principal Dr. S. N. Dhole sir and all the teaching faculty have encouraged students to clean the environment under swachhata pakhwada activity.




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Environment and sustainability (2019-20)



VISIT TO ALOEVERA FARMS

Date: 5/01/2019

Venue: At. Markal Village, Tal- Khed, Dist- Pune

A visit to aloe vera farms and industry at Markal was arranged and all the volunteers lined up and visited these places wherein they gained information regarding farming process and cultivation and collection of aloe vera plants and extraction of aloe vera juice in the industry. Then the volunteers came back to the camp and had some snacks and tea then they started preparing for the dinner. Then they played several games and then everyone had dinner and day four ended.




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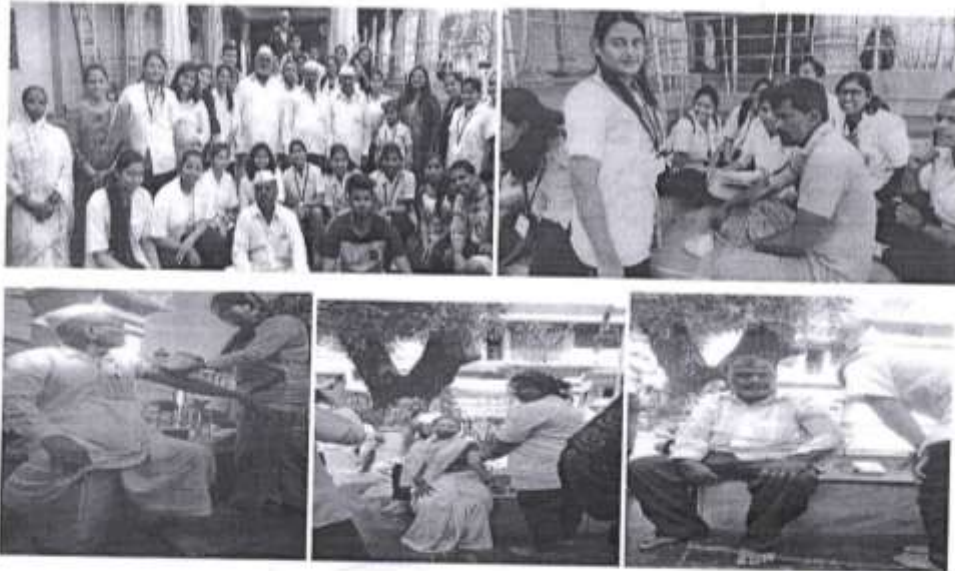



VILLAGERS HEALTH CHEKUP CAMP

Date: 7/01/2019

Venue: At. Markal Village, Tal- Khed, Dist- Pune

In morning volunteers had their regular activities and breakfast. Some volunteers made the setup for health checkup of villagers wherein they checked the height weight and blood pressure of the villagers. Some students went into the village and collected the village history from the elderly people about different places, monuments, temples and other historical events at Markal. These events were carried until lunch. Then the volunteers had their lunch. Then they took rest for a while and again continued with the health check up of villagers until the evening. After finishing all the activities the volunteers had the evening snacks and the tea. Then they all became busy in cooking dinner playing etc. Then the volunteers had the dinner and all the volunteers came together and a discussion about the valedictory function amongst all the volunteers and all four program officers was carried out wherein the schedule for valedictory function was decided. The day ended in this way.




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CLEANLINESS CAMPAIGN AT TULAPUR

Date: 6/01/2019

Venue: At. Markal Village, Tal- Khed, Dist- Pune

NSS volunteers were carried by bus to Tulapur wherein a cleanliness campaign was carried out wherein they cleaned the premises of Tulapur, ghat, and other places, Then the volunteers had lunch. After that volunteers also performed a street play on the theme importance of cleanliness and sanitation. Then the volunteers roamed around and enjoyed the beauty of Tulapur and visited Shiv temple and Sambhaji Maharaja's Samadhi and Triveni Sangam. Then all the volunteers came back to the Navin Madhyamik Vidyalaya and had some snacks and tea. Then everyone gathered and prepared for the dinner. Meanwhile the dinner was ready some volunteers made all the arrangements for the cultural program. Then everybody had the dinner and then everyone setback for the cultural program wherein all the volunteers showed their hidden talents and day was ended.




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CLEANLINESS CAMPAIGN UNDER NIRMAL WARI ABIYAAN

Date: 7/07/2018

Venue: At, Sant Dyaneshwar Maharaj Palkhi temple

Cleanliness campaign under Nirmal Wari Abhiyaan was carried out at Alandi on the day when at Sant Dyaneshwar Maharaj temple in association with the NSS units of various colleges of PCMC areas. Students cleaned the areas and spread the awareness for cleanliness.

NIRMAL WARI SWACCHHATA ABHIYAAN




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Chairman, Business Council
P.E.Society, Pune

MCPL/let/2018/458

Date - 23/10/2018

To,
Dr. Lalitkumar Dhoka,
Lion's Club

Subject- Thanking letter

Dear Sir,

PES's Modern College of Pharmacy (for ladies) is thankful to you for speaking to our students regarding **Cracker free Diwali**. It was really an informative and inspirational speech. We believe that our students will have been motivated to celebrate Cracker free Diwali. Thanks for developing Environmental awareness in our students through your lecture.

Thank you again for your guidance.

We wish to have same cooperation in future.

Thanking You.



Received
Date

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Ph.:25138177/69310794

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Lecture: Cracker for Diwali Second year B Pharm 2018-19 Date: 23/10/18

BATCH A			BATCH B			BATCH C		
Roll no	Name of student	SIGN	Roll no	Name of student	SIGN	Roll no	Name of student	SIGN
1.	Anjali	<i>Anjali</i>	23.	Jadhav Sakshi Sunil	<i>Sakshi</i>	45.	Rode Dipali Arjun	
2.	Arjun Sakshi Machhindra	<i>Arjun</i>	24.	Jadhav Vaishnavi S.	<i>Vaishnavi</i>	46.	Sabale Akshada T.	
3.	Aarti Paja Machhindra		25.	Kad Pratiksha Kalyan	<i>Pratiksha</i>	47.	Sable Sayali Kailas	<i>Sable</i>
4.	Bangar Ashwini N.		26.	Kaldoke Priya Rohidas	<i>Priya</i>	48.	Sambar Nikita N.	<i>Nikita</i>
5.	Bhagwat Shweta Anil		27.	Kalse Pratiksha R.	<i>Pratiksha</i>	49.	Shinde Snehal Milind	
6.	Bhalekar Juce S.		28.	Kamble Pranita P.	<i>Pranita</i>	50.	Sonawane Jayshree R.	<i>Jayshree</i>
7.	Bhagal Saloni J.	<i>Saloni</i>	29.	Kanade Shraddha V.	<i>Shraddha</i>	51.	Swami Pradnya Sanjay	<i>Pradnya</i>
8.	Bhojane Pratiksha R.	<i>Pratiksha</i>	30.	Khilari Kajal Natha	<i>Kajal</i>	52.	Thorat Ankita Vijay	<i>Ankita</i>
9.	Borude Rohini Mitthu	<i>Rohini</i>	31.	Kokate Priyanka M.	<i>Priyanka</i>	53.	Totre Akshada Govind	<i>Akshada</i>
10.	Chaudhari Aditi D.	<i>Aditi</i>	32.	Kumbhar Snehal P.	<i>Snehal</i>	54.	Umate Rutuja Y.	<i>Rutuja</i>
11.	Chaudhari Nikita	<i>Nikita</i>	33.	Lavate Shweta T.	<i>Shweta</i>	55.	Yadav Simran Milind	
12.	Chavan Divya Ajitsing		34.	Lokhande Shubhangi S.	<i>Shubhangi</i>	56.	Zarkar Shivani Santosh	<i>Shivani</i>
13.	Chavan Nikita Trimbak	<i>Nikita</i>	35.	Magar Meyuri Raju	<i>Meyuri</i>	57.	Zaware Pallavi Vitthal	
14.	Date Nutan Yashwant	<i>Nutan</i>	36.	Mundhe Anuja Sanjay	<i>Anuja</i>	58.	Survase Shruti	<i>Shruti</i>
15.	Dupargude Ashwini B.	<i>Ashwini</i>	37.	Pabale Komal Dinkar	<i>Komal</i>	59.	Bhivare Nikita	<i>Nikita</i>
16.	Fasale Aarti Maruti	<i>Aarti</i>	38.	Panchal Pooja Deepak	<i>Pooja</i>	60.	Darandale Varsha K.	<i>Varsha</i>
17.	Gargote Pratiksha R.	<i>Pratiksha</i>	39.	Patil Aparna V.	<i>Aparna</i>	61.	Date Anshu	<i>Anshu</i>
18.	Gawali Prachi Madan	<i>Prachi</i>	40.	Pawar Vaishnavi Ashok	<i>Vaishnavi</i>	62.	Magar Anshu	<i>Anshu</i>
19.	Ghunekar Shruti S.	<i>Shruti</i>	41.	Rakhunde Rutuja S.	<i>Rutuja</i>	63.	Magar Anshu	<i>Anshu</i>
20.	Gunjal Priya Shivaji	<i>Priya</i>	42.	Rakshe Ashwini S.	<i>Ashwini</i>	64.	Mandale Ashwarya	<i>Ashwarya</i>
21.	Hagawane Trupti K.	<i>Trupti</i>	43.	Rakshe Shirwani E.	<i>Shirwani</i>	65.	More Pooja S.	<i>Pooja</i>
22.	Ichake Aishwarya H.	<i>Aishwarya</i>	44.	Rashinkar Sneha N.	<i>Sneha</i>	66.	Pokharkar Priya	<i>Priya</i>
							Judke Vaishnavi	<i>Judke</i>

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GENDER (22-23)			
Sr.No.	Events organized	Date	Description
1.	Awareness issues regarding health in girls.	27/09/2022	Dr. Abhijit Shinde, Adishakti Hospital, Moshi, Pune
2.	Gender Sensitization Awareness Lecture	19/01/2023	Gender sensitization lecture was taken regarding gender, gender equality, gender inequality, major reasons for gender discrimination, sexual harassment prevention training by Amrita Bokil on 19 th January 2023.
3.	Gender Sensitization Awareness	20/01/2023	NSS volunteers conducted Gender Sensitization Awareness Programme in village Moi.
4.	Women's Health Awareness Program	23/01/2023	Health And Fitness
5.	"Women Empowerment" Damini Pathak	20/05/2023	Maharashtra Police Official Persons S.K. Kurandale, S. R. Sarase and R. V. Sabale "Damini Pathak" MIDC Bhosari Police Station
GENDER (21-22)			
1.	Balika Divas Celebration	12/02/2022	Sensitizing Social issues
2.	Women health lecture	12/02/2022	Dr. Ms. Bhargavi Bade delivered lecture on women health.
GENDER (20-21)			
1.	International Women's Day celebration	22/03/2021	Women Empowerment
GENDER (19-20)			
1.	Rally Against Female Foeticide	16/02/2019	Sensitizing Gender Issues
2.	Prevention of cervical cancer	07-03-2020	Mr. Jignesh Patel
GENDER (18-19)			
1.	Biodegradable Sanitary Napkins- Present Day Requisite	18/08/2018	Mr. Swapnil Shirsekar, Director, Step Up foundation



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Gender (2022-23)



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SUMMARY REPORT ON GUEST LECTURE

Topic of Guest lecture: "Awareness of Health Issues in Girls"

Resource Person: Dr. Abhijeet Ashok Shinde

Conducted on: 23/09/2022

As part of World Pharmacist Day Activity, PES Modern College of Pharmacy for Ladies organized an awareness programme on topic "Awareness of Health Issues in Girls" between 1.00 pm to 2.30 pm on 23rd Sept 2022 for D. Pharmacy, B. Pharmacy, M. Pharmacy students.

The topics for the programme were: physical, cognitive and emotional changes in girls, nutritional management, menstrual hygiene and stress management in women. The students emphasized various healthy lifestyle practices to prevent disease and promote optimum health. The topics were dealt by Dr. Abhijeet Ashok Shinde, Master of Surgery in Obstetrics and Gynecology, Director, Adishakti Hospital and Dr. Aparna Clinic, Moshi. Ms. Rutuja Lohar and Ms. Gayatri had given introduction of Guest to students and the guest was felicitated by Dr. Dhole S.N, Principal of PES Modern College of Pharmacy for ladies, Moshi.

Dr. Abhijeet Ashok Shinde addressed very sensitive issue of menstrual cycle in women. During his speech he encourages students to maintain positive attitude and remain happy for healthy life also discussed about the hormonal imbalance, reasons of hormonal imbalance in girls. It was a great experience to be a part of such an informative and helpful session and more sessions of such kind would definitely change the way of thinking. A total number of 126 students participated in the program. The session was informative and well appreciated by the participants. At the end of the programme Ms. Rutuja Lohar deliver the vote of thank towards the guest.



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Snapshot of Guest Lecture:



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NirbhayKanyaAbhiyan

Topic of Guest Lecture: "Gender sensitization"
Resource Person:-AmriitaShriramBokil and LeenaGodbole
LL.M and certified counsellor

Conducted on: 17/01/2023

Modern College of Pharmacy (for ladies), Moshi, Pune, has arranged a guest lecture on topic "Gender sensitization" by the resource person AmriitaShriramBokil. Introduction of the Program and resource person was given by our Final Year. B. Pharm Student. Speaker was welcomed by our respected mam Dr.VrushaliTambe with bouquet. In her lecture she guided students regarding sensitization of gender. She spoke about gender, gender equality and inequality, problems of gender inequality, major reasons for gender discrimination, sexual harassment at workplace, sexual harassment prevention training etc. Resource person addressed and clarified the questions posed by the participants. Feedback from the participants was obtained at the end of the session. It helps people. In examining their personal attitudes and beliefs and questioning the realities of both sexes. Gender sensitization makes people understand the difference between sex and gender, how gender is socially constructed and the stereotypes around gender roles. It helps them determine which assumptions in matters of gender are valid and which are stereotyped. Need of gender sensitization is to create awareness among the working professionals about the importance of gender sensitivity in organization. Without being sensitive to the needs of a particular gender, an individual may refrain from understanding the opposite gender. Gender is Socially Learned behaviour, based on social expectation from Men & Women.

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Advocate Amruta Bokil delivering lecture on Gender Sensitization



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Gender Sensitization Awareness

NSS B069 volunteers presented a street play on 'Gender Sensitization Awareness' in different areas of village Moi. On 20/1/2023, they made awareness regarding gender bias and related issues in society. The village people appreciated and responded well to this awareness program.



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Women's Health Awareness Program

'Mahilanche Arogya Prabodhan' Program was conducted at the NSS campsite at Moi on 23/01/2023, specifically for teenage girls and women by Dr. Bhargavi Bade, Director of Vignaharta sai Hospital Dighi, Pune. Madam explored the topic in a very easy and friendly manner. She cleared all the concepts related to the menstrual cycle and other female health issues. Volunteers under the guidance of doctors have also raised awareness regarding women's health issues by going door to door and answering the queries of villagers.

" महिलांचे आरोग्य प्रबोधन "



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SUMMARY REPORT ON GUEST LECTURE

Topic of Guest Lecture: "Women Empowerment"

Resource Person: Maharashtra Police Official Persons S.K. Kurandale, S. R. Sarase and R. V. Sabale " Damini Pathak " MIDC Bhosari Police Station

Conducted on: 20/05/2023

PES Modern College of Pharmacy (for ladies), Moshi, Pune, has arranged a guest lecture on topic "Women Empowerment" by the resource person Maharashtra Police Official Persons S.K. Kurandale, S. R. Sarase and R. V. Sabale from " Damini Pathak " MIDC Bhosari, Police Station. Introduction of the program and resource person was given by Second Year B. Pharm Student. Speakers were welcomed by our respected Principal Dr. Shashikant Dhole sir with bouquet of flowers. In this session, they guided about women's safety at public places, home and on the streets and against domestic violence also. They made awareness regarding safety of women and gave information on some self-defence techniques. The session was interactive and students were satisfied . It was a great experience to be a part of such an informative and helpful session. Overall, the guest lecture was nice and was very helpful for students in their day-to-day life. The lecture ended with a vote of thanks given by Priyanka Shinde Mam.



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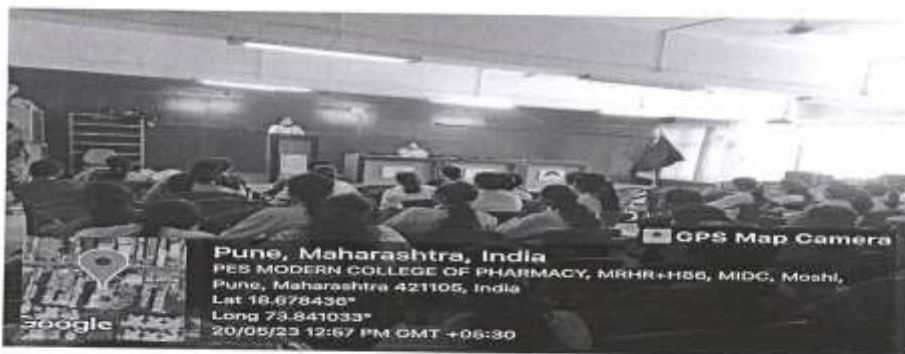
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“ Damini Pathak ” MIDC Bhosari Police Station delivering lecture



“ Damini Pathak ” MIDC Bhosari Police Station delivering lecture



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Students with " Damini Pathak " MIDC Bhosari Police Station

Prof. Sankhose



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Women Empowerment Date: 20/05/23

Roll No	Name of Student	Roll No	Name of Student
1	ABHANG SANIKA SUNIL	61	MHASKE VAISHNAVI ANIL
2	AGRAVAT KHUSHUBU NARENDRABHAI	62	MHETRE SHIVANI BHAGWAN
3	ALAT SNEHAL NAVNATH	63	MUNDFANE RUTUJA SHASHIKANT
4	ARADKAR SUPRIYA DATTATRAY	64	MURKUTE VAISHNAVI GAJANAN
5	ASOLE SANIKA MUNJAI	65	NANEKAR KSHITUJA BABURAO
6	BANGAR MRUNALINI BAPU	66	NANGARE SHRDDHA RAJESH
7	BHANDAKKAR RASIKA SUNIL	67	NETKE SAKSHI ANIL
8	BHANDARE MANASWI LAXMAN	68	NILE VAISHNAVI RAMAKANT
9	BHANUSHALI ZEEL HARESH	69	PARMAR RIDDHI BHARAT
10	BHOSKAR RUTUJA DNYANESHWAR	70	PATIL AAKANKSHA RAJENDRA
11	BHUSALE RACHANA SHIVJI	71	PATIL ANISH VIJAY
12	BIRADAR AARATHI MADHAVRAO	72	PATIL NIKITA SURAJ
13	BUTTE SIDDHI SOMNATH	73	PATIL PRIYANKA TANAJI
14	CHAUDHARY SHFAQ HAFIZURREHMAN	74	PATIL SAYALI SANTOSH
15	CHAVAN TULSI SURYKANT	75	PAWAR JANHVI NITIN
16	CHAVHAN CHANDA RAM	76	PHAKATKAR SANSKRUTI SANDIP
17	CHAVHAN LAXMI ANIL	77	PHATANGARE ANJALI ANIL
18	DAMSE SNEHAL VILAS	78	PHUGE TANVI PRAVIN
19	DATHE SAMIKSHA PANDHARINATH	79	POTGHAN SAMRUDDHI GORAKHNATH
20	DEOKAR JYOTI NAVNATH	80	RATHOD SHREYA KRISHNA
21	DESHMUKH VAISHNAVI VILAS	81	SALVE POOJA VIJAY
22	DESPANDE VASUDHA RAM	82	SANKPAL RUTUJA CHANDRKANT
23	DHAWADE SAKSHI NITIN	83	SARODE TRUPTI SANTOSH
24	DHORAN SAMIKSHA SANJAY	84	SARWADNYA JYOTI DIPAK
25	DODAMANISHAIKH MUSKAN FAKRUDDIN	85	SASTE DHANASHREE RAJENDRA
26	GADEKAR SNEHAL PUNDLIK	86	SAYYAD ASIYA FARUK
27	GHARGE DIVYA RAJKUMAR	87	SHAIKH ALPHIYA IBRAHIM
28	GHONGE AKSHADA HIRAMAN	88	SHAIKH MUSKAN AJI
29	GOPAL VAIBHAVI BANDU	89	SHIGADE MUKTA MADHUKAR
30	GOVARDHAN SAYALI RAJESH	90	SHINDE ANJALI SANJAY
31	GURAV PRACHI MAHADEV	91	SHINDE PRADIPTI PRASHANT
32	HANDE JAYSHRI PRASHANT	92	SHINDE SANIYA MAHENDRA
33	HARGUDE VAIBHAVI BABASAHEB	93	SHINGADE SHRUTI VILAS
34	HOLE NIKITA NITIN	94	SING PRIYA VINOD
35	JADHAV SAE SUDHIR	95	SONAWALE MRUNAL SURAJ
36	JADHAV HARSHADA ANIL	96	SONTAKKE SHREYA MADHAV
37	JADHAV ISHWARI AMOL	97	SURYAWANSHI AASAVARI DATTATRAYA
38	JADHAV MADHURA RAMCHANDRA	98	SURYAWANSHI RAHEL LAXMAN
39	JADHAV SONALI SANJAY	99	TALELE PRANALI MANOJKUMAR
40	JAGATAP SHRUTI DNYANESHWAR	100	TITKARE NIKITA ARUN
41	JICHKAR KALYANI VIJAY	101	WAGH AKANKSHA DATTATRY



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42	KADAM NISHIGANDHA NISHANT	<i>[Signature]</i>	102	WAGH NAMRATA GAJANAN	<i>[Signature]</i>
43	KALBOR VINAYA GANESH	<i>[Signature]</i>	103	WAGH VAISHNAVI BALASAHEB	<i>[Signature]</i>
44	KALE RUTUJA GANPAT	<i>[Signature]</i>	104	WAGHULE SHRUTI MILIND	<i>[Signature]</i>
45	KALE RUTUJA PRASHANT	<i>[Signature]</i>	105	WALLI DHARNA DHANANJAY	<i>[Signature]</i>
46	KAMBLE SANIKA SIDDHARTH	<i>[Signature]</i>	106	WAWGE YUKTA VISHNU	<i>[Signature]</i>
47	KANGHARE SANIYA SANDEEP	<i>[Signature]</i>	107	YADAV SANIKA PRAMOD	<i>[Signature]</i>
48	KASHID AMRUTA SADGURU	<i>[Signature]</i>	108	YADAV SHRADDHA SOMNATH	<i>[Signature]</i>
49	KATRE TEJASWINI HEMRAJ	<i>[Signature]</i>	109	YADAV VAISHNAVI VITTHAL	<i>[Signature]</i>
50	KENDALE SHAMAL SANTOSH	<i>[Signature]</i>	110	YELAVE AARTI JOTIRAM	<i>[Signature]</i>
51	KHAIRNAR JANHAVI PRASHANT	<i>[Signature]</i>	111	YEOLA GEETANJALI VIJAY	<i>[Signature]</i>
52	KHAMKAR PALLAVI SHIVAJI	<i>[Signature]</i>	112	ZANJAD SHRUTIKA SANTOSH	<i>[Signature]</i>
53	KHAN KHAIRUNNISA MOHAMMAD AYYUB				
54	KHAN HEENA ABDULKALIQE				
55	KHANDELWAL EKTA RITESH				
56	KHARDE GAURI LALSING	<i>[Signature]</i>			
57	LANDGE KIRAN RAMAKANT	<i>[Signature]</i>			
58	LANGHI SWAPNALI DATTU	<i>[Signature]</i>			
59	LAWARE PORNIMA SURESH	<i>[Signature]</i>			
60	MAHAJAN DISHA KIRAN				



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Gender (2021-22)



Balika Divas celebration

The NSS unit of PES MCPL has celebrated Balika divas and the upcoming International Women's Day by arranging a "Women health awareness program" on 12th Feb 2022. 150 students were present for the program. The program has been arranged by using an online platform. In that NSS unit has arranged a guidance lecture by experienced gynecologist Dr. Mrs Bhargavi Bade. She guided our students and female faculties regarding various common causes of hormone imbalance in females, skin care and acne problems, how to stay fit while working also she has made awareness about different commonly observed health problems in girls and women like obesity, menstrual problems, etc. She also answered students' queries regarding various diseases. The program was beneficial for girls and female faculties. Management and the principal of MCPL have encouraged the NSS unit to conduct such health awareness programs in the future.




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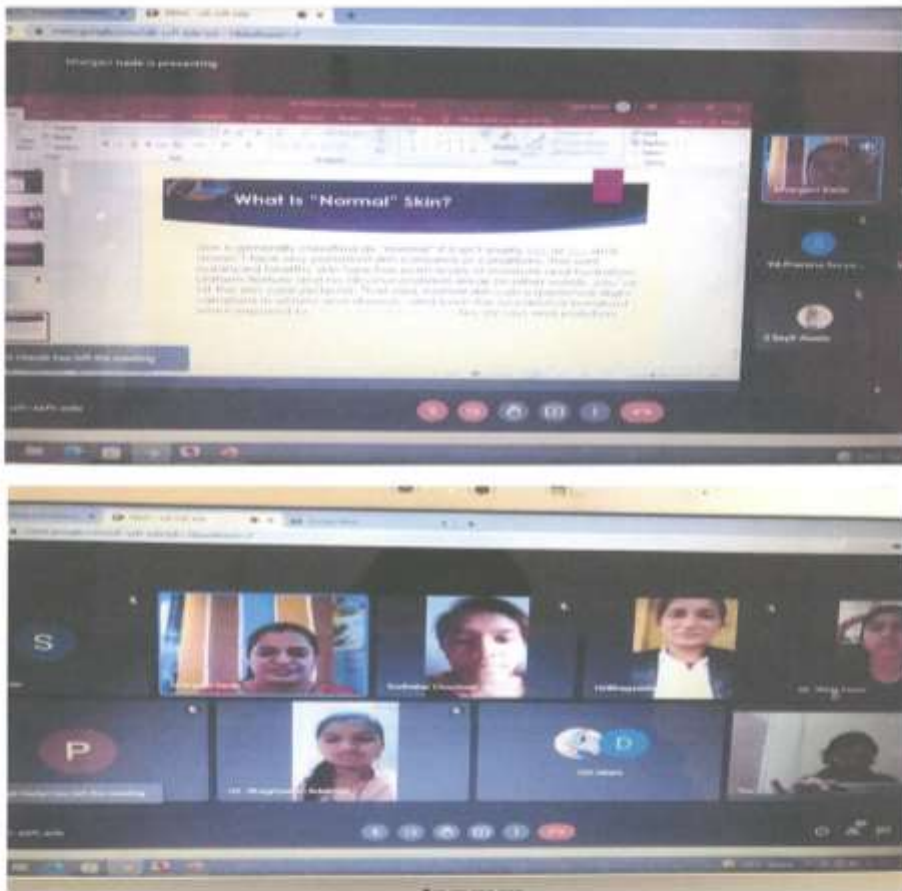
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Date- 10/1/22

REPORT OF GUEST LECTURE


The webinar was arranged in PES Modern college of pharmacy for ladies Moshi on
12/2/2022

- Date : 12/2/2022
- Time : 2.00 pm.
- Mode : Online Goole meet
- Convened by : Ms. Pallavi G. Kakade

Chief Guest :- Ms. Bhargavi V Bade

The Webinar was held on 12/2/2022 in PES Modern college of pharmacy for ladies moshi on topic "Womens Health". Goole Meet link has shared before 15 min.Ms. Bhargavi V Bade was the chief guest working as a DG shipping approved MED examiner in Dr. Bades vighnarthartha sai hospital and laboratory. The session was started with a floral welcome of Bhargavi V Bade . He started session by presentation about health related issue of womens. He has also covered the topics such as type of skin and infertility. He has focused on maximum problems faced by women's during pandemic situation. He has interacted with students regarding their queries about a women health. the session was interactive and student were satisfied to listen the thought.




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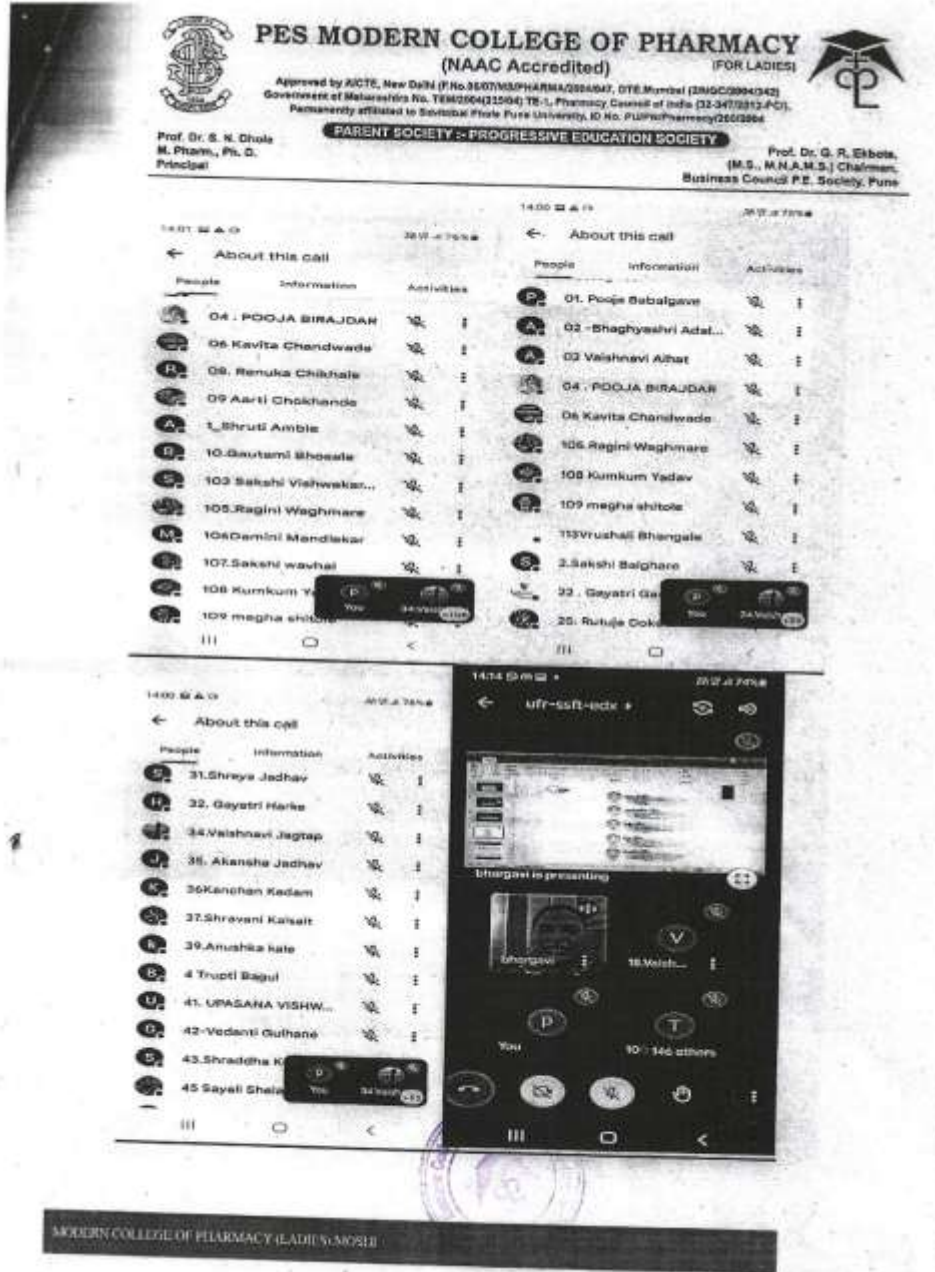
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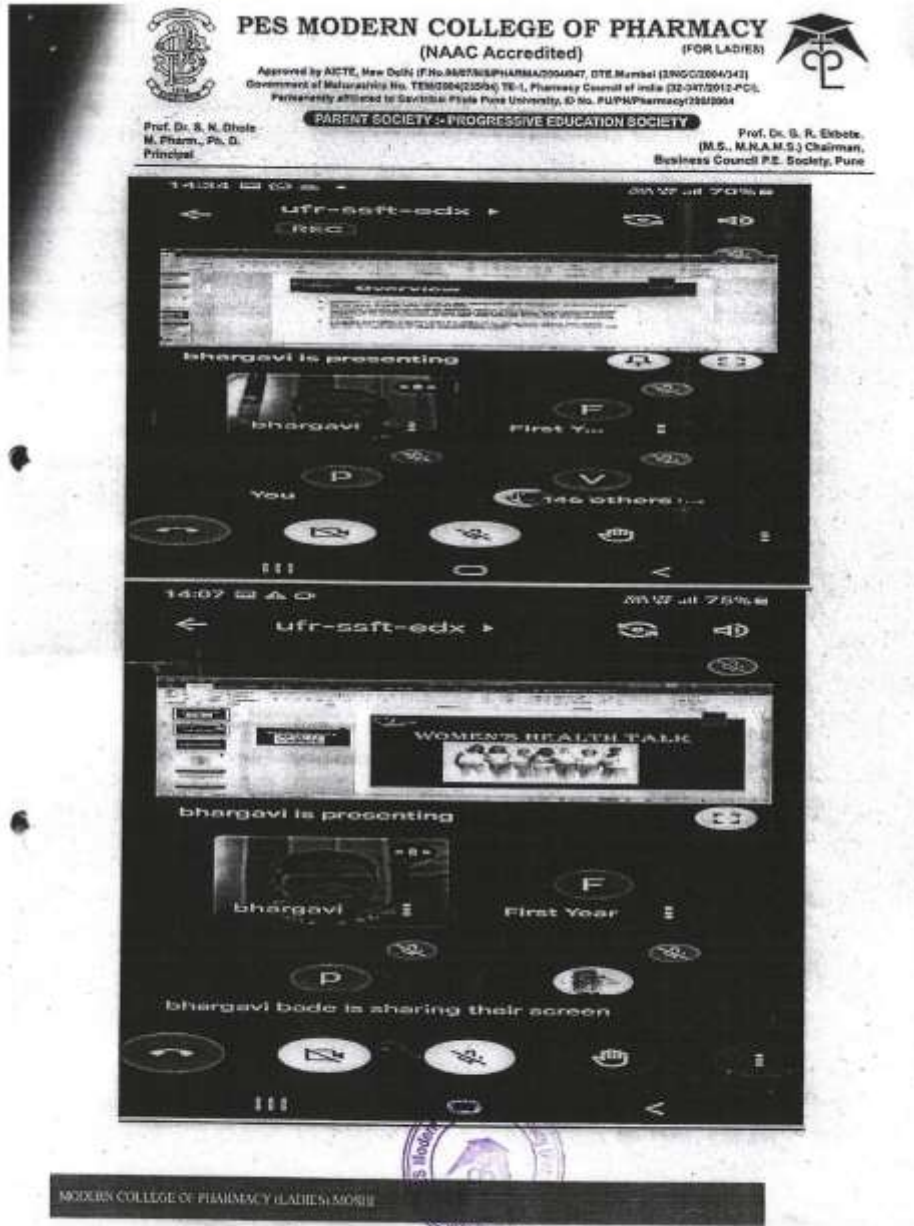


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Gender (2020-21)



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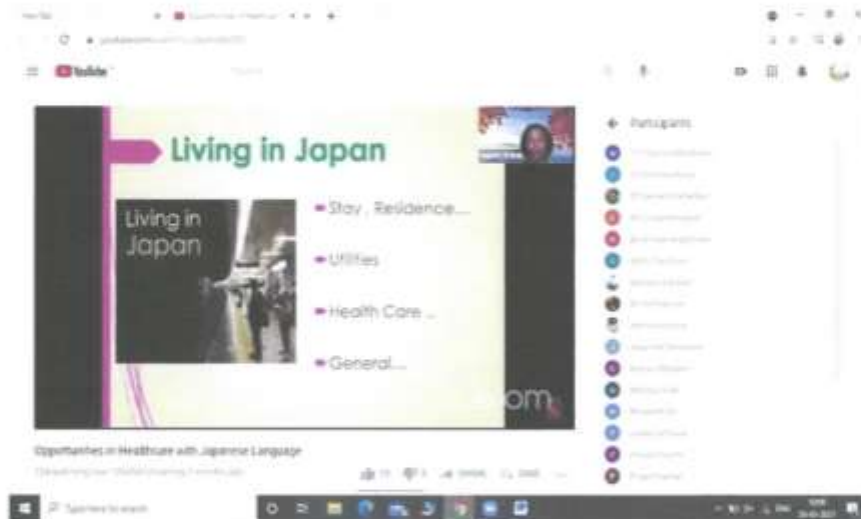
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Celebration of International Women's Day 2021

PES Modern College of Pharmacy (for ladies) celebrated International Women's Day very enthusiastically. NSS cell of the institute has arranged a guidance program for students by an eminent female personality Mrs. Sujata Kolekar madam, (B. E. Computers, MBA, Melbourne University, she is Bilingual (Japanese) , japan Market Expansion competition, Tokyo, Japan presently Director at Capgemini Pune) on 20/3/2021 Saturday. By using an online zoom platform and live YouTube streaming, 82 students had attended the program successfully. She guided our students regarding the Japanese language, and career opportunities for ladies in Japan. Also, she talked about her journey to build a successful career as a woman, which was very inspirational for our students. Students have done a good interaction with her after the completion of the session. Principal Dr. Shashikant Dhole sir has given his valuable guidance to make this event successful.



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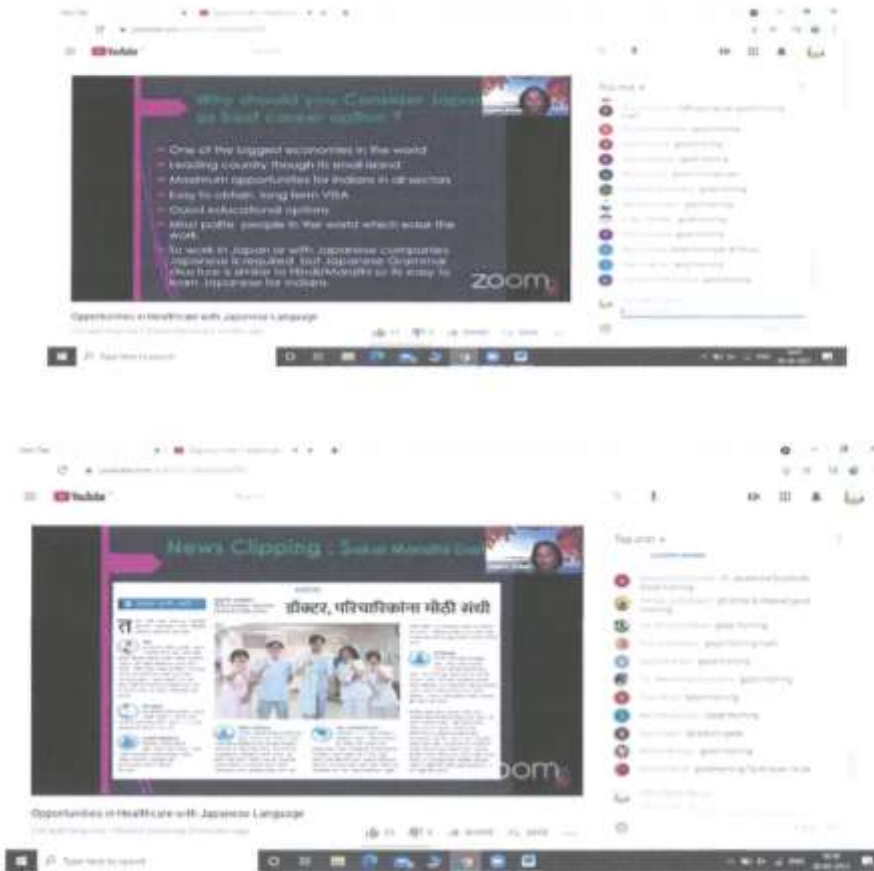
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Gender (2019-20)

Criterion 1: Curricular Aspects



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Business Council P.E. Society, Pune

Date: 16/02/19

Venue: At. Moshi Village, Tal- Haveli, Dist- Pune

A Rally against female foeticide in collaboration with the staff of **Andishakti Hospital, Moshi, Pune** was organized wherein 50 NSS volunteers participated in the rally at Moshi village wherein the hospital had announced a scheme of 50% discount on delivery charges and 25% discount on vaccination charges on the birth of baby girl in the hospital. The volunteers along with hospital staff went into the various regions of Moshi village and spread awareness regarding consequences of female foeticide. To make it more presentable the NSS volunteers performed a streetplay in the middle of Moshi village near Nageshwar Temple wherein they explained the importance of girls, consequences of gender bias, female foeticide and various governmental schemes for girls.



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PES MODERN COLLEGE OF PHARMACY (FOR LADIES), MOSHI, PUNE

REPORT

Event – Guest lecture on “Prevention for cervical cancer

Speaker – Mr. Jignesh Patel (Founder and CEO of vaccineonwheels.com)

Modern College of Pharmacy (For Ladies), Moshi has arranged the lecture on “Prevention for cervical cancer” on 7th March 2020. On this occasion institute has invited Mr. Jignesh Patel, Founder and CEO of vaccineonwheels.com and Leader of Jivika Healthcare Pvt. Ltd. to guide students. Program was started at 1.00 pm and introduction of program and speaker was given by S. Y. B. Pharm. student Ms. ShelarSayali. Speaker was welcomed by Presiding officer of ICC Mrs. VinayaWanad. In his lecture he told that cervical cancer is the second most commonly occurring cancer in women. He said that if detected in first stage there are 80-99% chances of recovery. Speaker advised that women should do pap smear test for early detection of cervical cancer and it should be done every three years. He informed that this cancer is caused by human papilloma virus and can be prevented by HPV vaccine. He has given information regarding types, schedule and cost of vaccine. He stressed the importance of taking vaccine for prevention of this common cancer in women and added that it is recommended by WHO. Speaker assured that vaccine is safe and effective for prevention of cervical cancer. At the end of program vote of thanks were extended by S. Y. B. Pharm student Ms. Khot Gauri.



Awarde
ICC Presiding officer

[Signature]
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Business Council P.E. Society, Pune

Attendance record 2019-2020

Class: First Year B. Pharm

Event: Cervical Cancer (Vaccine) Prevention

Date: 07/03/2020

Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
1.	Abhang Rutuja	<i>[Signature]</i>	21.	Dhumase Punam	<i>[Signature]</i>	41.	Kamble Pooja Bapu	<i>[Signature]</i>
2.	Alhat Vaishnavi	<i>[Signature]</i>	22.	Dighe Aparna Sitaram		42.	Kamble Shashvati	<i>[Signature]</i>
3.	Bachhav Shubhangi	<i>[Signature]</i>	23.	Dolare Harshada		43.	Karpe Vaishnavi	<i>[Signature]</i>
4.	Bagade Shruti Sharad	<i>[Signature]</i>	24.	Dongarkar Sanskruti	<i>[Signature]</i>	44.	Khadake Neha	
5.	Bagul Rochita Sahebrao	<i>[Signature]</i>	25.	Gadhawe Mayuri	<i>[Signature]</i>	45.	Khalure Ambika Sanjay	<i>[Signature]</i>
6.	Bhakre Shubhada	<i>[Signature]</i>	26.	Gadilkar Mrumayee	<i>[Signature]</i>	46.	Khedkar Shivani	<i>[Signature]</i>
7.	Borade Smita Yuvraj	<i>[Signature]</i>	27.	Gaikwad Tejaswini	<i>[Signature]</i>	47.	Kokane Varsha Shivaji	<i>[Signature]</i>
8.	Borhade Deepali Sudam	<i>[Signature]</i>	28.	Game Rohini Sunil	<i>[Signature]</i>	48.	Kolhe Vaishnavi Vijay	<i>[Signature]</i>
9.	Bute Bhavana	<i>[Signature]</i>	29.	Gawade Susmita	<i>[Signature]</i>	49.	Kumavat Aditi	<i>[Signature]</i>
10.	Chavan Namrata	<i>[Signature]</i>	30.	Gaware Akshada	<i>[Signature]</i>	50.	Kumbhar Siddhi	<i>[Signature]</i>
11.	Chavan Purna Vijay	<i>[Signature]</i>	31.	Gengaje Tejal S.	<i>[Signature]</i>	51.	Kumbhare Shivani	
12.	Chikhale Neha	<i>[Signature]</i>	32.	Ghandure Rutuja		52.	Lohakare Apurva	
13.	Chinchansure Vaishnavi	<i>[Signature]</i>	33.	Girase Hiral B.	<i>[Signature]</i>	53.	Lochande Sayali	<i>[Signature]</i>
14.	Chorge Shubhangi		34.	Goswami Priyanka	<i>[Signature]</i>	54.	Mahanavar Pratiksha	<i>[Signature]</i>
15.	Choudhari Aishwarya	<i>[Signature]</i>	35.	Gowda Aishwarya	<i>[Signature]</i>	55.	Mankari Vaishnavi	<i>[Signature]</i>
16.	Dahiwal Samruddhi	<i>[Signature]</i>	36.	Gurav Bhakti Santosh	<i>[Signature]</i>	56.	Mhetre Ankita	<i>[Signature]</i>
17.	Dawn Suchismita Amit	<i>[Signature]</i>	37.	Jagatap Shraddha	<i>[Signature]</i>	57.	More Janhavi Vivek	<i>[Signature]</i>
18.	Devadkar Snehal	<i>[Signature]</i>	38.	Jalsakare Nikita	<i>[Signature]</i>	58.	Musale Saravani	<i>[Signature]</i>
19.	Dhadge Aaditi Jalindar	<i>[Signature]</i>	39.	Joshi Ketki Kedar	<i>[Signature]</i>			
20.	Dhokare Priya	<i>[Signature]</i>	40.	Kad Neha Ulhas	<i>[Signature]</i>			



Criterion 1: Curricular Aspects



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Business Council P.E. Society, Pune

Attendance record 2019-2020

Class: First Year B. Pharm

Event: Cervical cancer Prevention
Date: 07/03/2020



Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
59.	Nagare Ashvini Dinkar	<i>Ashvini</i>	77.	Sethe Rohini Sunil	<i>R. S. Sethe</i>
60.	Narkhede Shruti Vijay	<i>Shruti</i>	78.	Seyali Gajabhan	<i>Seyali</i>
61.	Narwade Komal	<i>Komal</i>	79.	Shaikh Nazal	<i>Nazal</i>
62.	Nimburgi Virakshi	<i>Virakshi</i>	80.	Shinde Komal Sanjay	<i>Shinde</i>
63.	Pandit Anisha Gulabrao	<i>Anisha</i>	81.	Shinde Shubhangi	<i>Shinde</i>
64.	Pansare Snehal	<i>Snehal</i>	82.	Shinde Vaishnavi	<i>Shinde</i>
65.	Patil Harshada Maruti	<i>Harshada</i>	83.	Shreya Nandu Londhe	<i>Shreya</i>
66.	Pawar Rutuja Santosh	<i>Rutuja</i>	84.	Sonawane Akaniksha	
67.	Phartale Anisha Rajendra	<i>Anisha</i>	85.	Suryawanshi Sonal	
68.	Phatangare Akanksha	<i>Akanksha</i>	86.	Taware Rutuja Rahul	
69.	Pikle Prajakta Kashinath	<i>Prikta</i>	87.	Thorat Samiksha	<i>Thorat</i>
70.	Pole Ahilya Jaywant	<i>Ahilya</i>	88.	Vajale Sneha	
71.	Rahane Achal Kailas	<i>Achal</i>	89.	Wagh Pallavi Santosh	<i>Pallavi</i>
72.	Rakshe Sakshi Hanumant	<i>Rakshe</i>	90.	Wagh Sakshi Kisan	<i>Sakshi</i>
73.	Raut Pratiksha Nilkhamt		91.	Waghmare Apurva	
74.	Raut Prerana Prakash	<i>Prerana</i>	92.	Waghmare Ashwini	
75.	Sable Ku Janhavi Rajesh		93.	Walunj Rutuja Gulab	<i>Rutuja</i>
76.	Sarode Nikita Ananta	<i>Nikita</i>	94.	Wangwad Shweta	<i>Shweta</i>

95. Jadhav Sakshi *Sakshi*

96. Jagtap samruddhi *Samruddhi*

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Business Council P.E. Society, Pune

Attendance record 2019-2020

Class: Second Year B. Pharm

Event: Cervical Cancer Prevention

Date: 07/03/2020

Roll no	Name of student	Sign	Roll no	Name of student	Sign	Roll no	Name of student	Sign
1	Alhat Sitwetali Ulhas	[Signature]	24	Khaire Bhagyashree S.	[Signature]	46	Shinde Akanksha M.	[Signature]
2	Amle Raksha Sanjeeo	[Signature]	25	Khedkar Sanskruti Vijay	[Signature]	47	Shubhada Babu C.	[Signature]
3	Asuwale Shruti Sanjay	[Signature]	26	Khot Gauri Subhash	[Signature]	48	Siddhi R. Ghosalkar	[Signature]
4	Beidmattha Manasi M.	[Signature]	27	Kute Monika Raju	[Signature]	49	Sirvi Jinalkumari D.	[Signature]
5	Bhagwat Shradha H.	[Signature]	28	Lakade Aditi Anil	[Signature]	50	Snehal A. Kamate	[Signature]
6	Bhosale Mayuri Kisandrao	[Signature]	29	Maravade Payal Sanjay	[Signature]	51	Sukre Vaishnavi N.	[Signature]
7	Borude Snehal Tukaram	[Signature]	30	Momin Juveriya Anwar	[Signature]	52	Tarade Snehal Vilas	[Signature]
8	Chavan Anjali Vitthal	[Signature]	31	Mungase Yashda Arun	[Signature]	53	Todkar Aishwarya D.	[Signature]
9	Deokar Nikita Dhasaji	[Signature]	32	Naik Divya Sanjay	[Signature]	54	Ture Sushama Sitaram	[Signature]
10	Dumbare Priyanka Raju	[Signature]	33	Pachpor Samridhi	[Signature]	55	Yadav Rutuja H.	[Signature]
11	Gaikwad Snehal S.	[Signature]	34	Palwe Ashwini Ishwar	[Signature]	56	Yewale Urmila S.	[Signature]
12	Gawade Rutuja Sanjay	[Signature]	35	Pandit Mayuri Pralhad	[Signature]	57	Zadke Swagnali Ram	[Signature]
13	Ghale Sakshi D.	[Signature]	36	Patil Anaje Pramod	[Signature]	58	Bomshete Pooja	[Signature]
14	Giri Akshata Dhunraj	[Signature]	37	Patil Komal Pravin	[Signature]	59	Chavan Asha	[Signature]
15	Gite Anjalee Ajinath	[Signature]	38	Pawar Piyusha Vasant	[Signature]	60	Ganje Neha	[Signature]
16	Harale Shrutika	[Signature]	39	Pawar Sayali Pravin	[Signature]	61	Gunjal Shrutika	[Signature]
17	Jadhav Pranita Pramod	[Signature]	40	Pharate Pooja C.	[Signature]	62	Kale Priyanka	[Signature]
18	Jadhav Vaishnavi Rajesh	[Signature]	41	Pote Durga Bansilal	[Signature]	63	Kamalu pooja	[Signature]
19	Kadam Aishwarya D.	[Signature]	42	Sakore Preeti T.	[Signature]	64	Kamble Shradha	[Signature]
20	Kand Pallavi Govind	[Signature]	43	Rajput Priyanka P.	[Signature]	65	Kandale Rajashri	[Signature]
21	Karpe Shrutika Sunil	[Signature]	44	Shah Muskan Akram	[Signature]	66	Sante Rohini	[Signature]
22	Kate Apurva Hemant	[Signature]	45	Shelar Sayali T.	[Signature]	67	Shejul Arti	[Signature]
23	Khade Supriya M.	[Signature]				68	Vaidya Meera	[Signature]



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Business Council P.E. Society, Pune

Attendance record 2019-2020

Class: Third Year B. Pharm

Event: Cervical cancer prevention
Date: 7/3/2020

Roll no	Name of student	Sign	Roll no	Name of student	Sign	Roll no	Name of student	Sign
1.	Anjali	<i>Anjali</i>	23.	Gunjal Priya Shivaji	<i>Priya</i>	45.	Pawar Vaishnavi A.	<i>Vaishnavi</i>
2.	Arjun Sakshi	<i>Sakshi</i>	24.	Hagawane Trupti K.		46.	Pokharkar Priya D.	
3.	Auri Puja Machhindra	<i>Puja</i>	25.	Ichake Aishwarya H.		47.	Rakhunde Rutuja S.	<i>Rutuja</i>
4.	Bangar Ashwini N.	<i>Ashwini</i>	26.	Jadhav Vaishnavi S.	<i>Vaishnavi</i>	48.	Rakshe Ashwini S.	<i>Ashwini</i>
5.	Bhagwat Shweta Anil		27.	Kad Pratiksha Kalyan	<i>Pratiksha</i>	49.	Rakshe Shrawani E.	<i>Shrawani</i>
6.	Bhalekar Juee S.		28.	Kalidoke Priya Rohidas	<i>Priya</i>	50.	Rashinkar Sneha N.	<i>Sneha</i>
7.	Bhilare Nikita Arun	<i>Nikita</i>	29.	Kaise Pratiksha R.		51.	Rode Dipali Arjun	<i>Dipali</i>
8.	Bhogal Saloni J.	<i>Saloni</i>	30.	Kamble Pranita P.	<i>Pranita</i>	52.	Sable Sayali Kailas	<i>Sayali</i>
9.	Bhojane Pratiksha R.	<i>Pratiksha</i>	31.	Kanade Shraddha V.	<i>Shraddha</i>	53.	Shinde Snehal Milind	
10.	Borade Rohini Mitthu	<i>Rohini</i>	32.	Khilari Kajal Natha		54.	Shirsut Ashwini	<i>Ashwini</i>
11.	Chaudhari Aditi D.	<i>Aditi</i>	33.	Kokate Priyanka M.	<i>Priyanka</i>	55.	Sonawane Jayshree	<i>Jayshree</i>
12.	Chaudhari Nikita M.	<i>Nikita</i>	34.	Kumbhar Snehal P.		56.	Sudke Vaishnavi	<i>Vaishnavi</i>
13.	Chavan Divya A.	<i>Divya</i>	35.	Lavate Shweta T.	<i>Shweta</i>	57.	Survase Shruti V.	
14.	Chavan Nikita T.	<i>Nikita</i>	36.	Magar Geetanjali R.	<i>Geetanjali</i>	58.	Swarni Pradnya	
15.	Darandale Varsha	<i>Varsha</i>	37.	Magar Mayuri Raju	<i>Mayuri</i>	59.	Thorat Ankita Vijay	
16.	Date Madhuri Vishnu	<i>Madhuri</i>	38.	Mandale Aishwarya D.	<i>Aishwarya</i>	60.	Totre Akshada	<i>Akshada</i>
17.	Date Nutan Yashwant	<i>Nutan</i>	39.	More Pooja Subhash		61.	Umate Rutuja Y.	<i>Rutuja</i>
18.	Dupargude Ashwini	<i>Ashwini</i>	40.	Mundhe Anuja Sanjay	<i>Anuja</i>	62.	Yadav Simran Milind	<i>Simran</i>
19.	Fasale Aarti Maruti	<i>Aarti</i>	41.	Nikita N. Sambur		63.	Zarkar Shivani	
20.	Gargote Pratiksha R.	<i>Pratiksha</i>	42.	Pabale Komal Dinkar	<i>Komal</i>	64.	Zaware Pallavi	<i>Pallavi</i>
21.	Gawali Prachi Madan	<i>Prachi</i>	43.	Panchal Pooja Deepak		65.	Jadhav Sakshi Sumil	<i>Sakshi</i>
22.	Ghanekar Shrutika S.	<i>Shrutika</i>	44.	Patil Aparna V.	<i>Aparna</i>			



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Attendance record 2019-2020

Class: Final Year B. Pharm

Event: *Cervical cancer prevention*

Date: *07/03/2020*

Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN	Roll No.	Name of student	SIGN
1.	Baradkar Priyanka Dilip	<i>Priyanka</i>	24.	Jadhav Pranali	<i>Pranali</i>	47.	Phad Swayanprabha D.	<i>Swayanprabha</i>
2.	Bhakare Swarali V.	<i>Swarali</i>	25.	Jadhav Rohini Lala		48.	Pise Samruddhi D.	<i>Samruddhi</i>
3.	Bhoir Bhakti Mohan	<i>Bhakti</i>	26.	Jadhav Shweta C.	<i>Shweta</i>	49.	Raghu Priti Umakant	<i>Priti</i>
4.	Bhumkar Prajakta Vilas	<i>Prajakta</i>	27.	Jadhav Tejaswini S.		50.	Rale Rujuta Manik	<i>Rujuta</i>
5.	Borate Komal Tanaji	<i>Komal</i>	28.	Jagtap Reshma Suresh		51.	Rutuja Maruti Pansare	<i>Rutuja</i>
6.	Chavan Chaitalya	<i>Chaitalya</i>	29.	Jaid Kanchan D.	<i>Kanchan</i>	52.	Sandbhor Supriya S	<i>Supriya</i>
7.	Deshmukh Sanchita H.	<i>Sanchita</i>	30.	Katakdhond Shradha	<i>Shradha</i>	53.	Saraf Priya Madhav	<i>Priya</i>
8.	Dhngale Rohini D.	<i>Rohini</i>	31.	Kharabi Aishwarya J.	<i>Aishwarya</i>	54.	Sawant Trupti D.	
9.	Dhepe Sayali Dattu	<i>Sayali</i>	32.	Khirid Snehal Sujit	<i>Snehal</i>	55.	Shinde Dipti Janardan	<i>Dipti</i>
10.	Dhumal Aishwarya K.	<i>Aishwarya</i>	33.	Kulkarni Kalpita K.	<i>Kalpita</i>	56.	Shingade Pooja B.	<i>Pooja</i>
11.	Doiphode Aarti Rajan	<i>Aarti</i>	34.	Lad Shital Balusaheb	<i>Shital</i>	57.	Shivekar Prajakta R.	<i>Prajakta</i>
12.	Durg Ambika Prakash	<i>Ambika</i>	35.	Lagad Aishwarya M.	<i>Aishwarya</i>	58.	Sonawane Rutuja B.	<i>Rutuja</i>
13.	Ganage Vaibhavi Maruti	<i>Vaibhavi</i>	36.	Langhi Tejaswini F.	<i>Tejaswini</i>	59.	Takale Pradnya N.	<i>Pradnya</i>
14.	Garje Shweta Vitthal	<i>Shweta</i>	37.	Janke Apoorva Sunil		60.	Tale Prathana Anil	<i>Prathana</i>
15.	Gawade Kajal Vishnu	<i>Kajal</i>	38.	Lohakare Madhuri M.	<i>Madhuri</i>	61.	Tanpure Dipunjali B.	<i>Dipunjali</i>
16.	Gawade Sayali Ashok	<i>Sayali</i>	39.	Mahajan Devyani R.	<i>Devyani</i>	62.	Thorat Pallavi S.	<i>Pallavi</i>
17.	Ghige Sushmita Maruti	<i>Sushmita</i>	40.	Mali Kalyani Ram		63.	Torde Ashwini	<i>Ashwini</i>
18.	Ghongade Sujita S.	<i>Sujita</i>	41.	Mungase Shradha D.	<i>Shradha</i>	64.	Wadase Shivani S.	
19.	Gilbile Prajakta Subhash	<i>Prajakta</i>	42.	Murhe Monika Ramdas	<i>Monika</i>	65.	Wagh Priyanka Maruti	
20.	Gore Shradha P.	<i>Shradha</i>	43.	Ovhal Komal Baban	<i>Komal</i>	66.	Waghmare Sneha D.	<i>Sneha</i>
21.	Hande Prachi Rajaram	<i>Prachi</i>	44.	Padwal Rutuja S.	<i>Rutuja</i>	67.	Zope Pranjali Hemant	<i>Pranjali</i>
22.	Jadhav Aarti Arjun	<i>Aarti</i>	45.	Patil Apurva Bhau	<i>Apurva</i>			
23.	Jadhav Pooja Subhash	<i>Pooja</i>	46.	Pawar Vrushali R.	<i>Vrushali</i>			



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Gender (2018-19)



PES MODERN COLLEGE OF PHARMACY (FOR LADIES), MOSHI, PUNE

REPORT

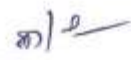
Event - "Biodegradable Sanitary napkins – present day requisite"

Modern College of Pharmacy (For Ladies), Moshi has arranged "Biodegradable Sanitary napkins – present day requisite" on 18th August 2018. On this occasion institute has invited Mr. Swapnil Shirsekar to guide students. Program was started at 11.30 am. Introduction of program was given by S. Y. B. Pharm student Chaudhari Nikita. He was welcome by women cell member Dr. Kashikar Vrushali. Introduction of speaker was given before the lecture by women cell student representative Ms. Kumbhar Snehal. Mr. Swapnil Shirsekar has delivered lecture for 2 hrs. In his lecture he talked about science and superstitions behind of menstrual cycle. He has spoken about disadvantages and risk associated with sanitary napkins currently used. Currently available napkins can cause cancer and other health problems because of chemicals like dioxins. He has talked about biodegradable and chemical free organic sanitary napkins. At the end samples of sanitary napkins were given to girl students. He has created awareness about menstrual cycle and sanitary napkins. Question answer session was conducted after his lecture.

Mr. Swapnil Shirsekar was felicitated by women cell co-ordinator Mrs. Warad Vinaya..

At the end of program vote of thanks were given by S. Y. B. Pharm student Ms. Shinde Snehal




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Criterion 1: Curricular Aspects



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Women Cell / Internal Complaints Committee (ICC)



Policy to prevent sexual harassment of women at work place

Date of implementation: 03/08/2010

The Institute is committed to provide safe environment for staff and students free from gender discrimination and sexual harassment of all forms of sexual intimidation and exploitation. The Institute will make its staff and students aware about the proper conduct to be followed at the campus and the penal actions for its implications. All complaints will be thoroughly investigated and appropriate action will be taken promptly as per the guidelines.

Sexual harassment will be considered as a violation of the fundamental right of a woman to equality as guaranteed under Articles 14 and 15 of the Constitution of India ("Constitution") and her right to life and to live with dignity as per Article 21 of the Constitution and right to practice any profession or to carry on any occupation, trade or business which includes a right to a safe environment free from sexual harassment.

The college will frame an internal complaint committee, women cell. This cell will function as the "complaints committee" as required by

Criterion 1: Curricular Aspects



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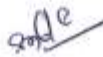
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“Sexual Harassment of Women at work place (Prevention, Prohibition and Redressal) Act 2013”. Grievances related to women will be addressed to women cell. The women cell should provide methodical redressal forum for the victim.





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CONSTITUTION OF WOMEN CELL (2022-23)

Sr. No	Member	Designation	Email ID
1	Prof. Dr. Dhole S. N.	Principal	shashikantdhole@yahoo.com
2	Prof. Dr. Tambe V. S.	Vice Principal, member	vrushalitambe99@gmail.com
3	Dr. More S.D	Presiding Officer, Coordinator	gmita_kolhe13@yahoo.com
4	Dr. Kulkarni N.S.	Employee member	nileshpcist@gmail.com
5	Dr. Vichare V.S.	Employee member	vicharevijaya11@gmail.com
6	Ms.Saste S. K.	External Member, Advocate	sarika.sandbhor80@gmail.com
7	Ms. Salvi Rashmi	Employee member	rashmi.salvi112@gmail.com
8	Ms. Shinde Chaya	Employee member	----
9	Ms. Dongarkar Sanskruti	Student representative (UG)	sanskrti3027@gmail.com
10	Ms. Adlinge Bhagyashree	Student representative (UG)	adlingebhagyashree1104@gmail.com
11	Ms. Kaveri Bhosale	Student representative (PG)	bhosalekavyveri21@gmail.com


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Internal Complaints Committee

REPORT (2020-21)

Constitution of the Internal Complaints Committee was revised at the start of academic year 2020-21. The Revised Constitution is as given below.

Sr. No.	Member	Designation	Male/Female	Phone No.	Email ID
1.	Dr.Tambe V. S.	Presiding officer, Coordinator	Female	9960709992	vrushalitambe99@gmail.com
2.	Prof.Dr. Dhole S. N.	Principal	Male	9922007322	shashikantdhole@yahoo.com
3.	Dr. Kulkarni N.S.	Employee member	Male	9890161162	nileshpcist@gmail.com
4.	Ms. Warad. V. A	Employee member	Female	8793582934	vinaya.warad@gmail.com
5.	Ms. Mane V.A.	Employee member	Female	9370253569	vicharevijayal1@gmail.com
6.	Ms.Saste Sarika Kaluram	External Member, Advocate	Female	9921846748	sarika.sandbhor80@gmail.com
7.	Ms. Salvi Rashmi	Employee member	Female	9604392647	rashmi.salvi12@gmail.com
8.	Ms. Chaya Shinde	Employee member	Female	9552234690	----
9.	Ms. Snehal Kumbhar	Student representative (UG)	Female	7066007991	snehalpkumbhar@gmail.com
10.	Sanskriti Dongarkar	Student representative (UG)	Female	7775841547	sanskriti3027@gmail.com
11.	Gauri Lajurkar	Student representative (PG)	Female	7391884140	lajurkar29818@gmail.com

The orientation program was carried out by Mrs. Warad V.A. about the constitution and role of internal complaint committee on 25/6/2020 for second, third and final year students.

The induction program was carried out by Dr.Tambe V.S. about the constitution and role of internal complaint committee on 1/2/2021 for First year students.

Online meetings were carried out to discuss the complaints received if any

No complaint of sexual harassment in the college was received by ICC in the year 2020 -21


Presiding officer




Principal



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Constitution of the Internal Complaints Committee (2019 – 20)

Sr. No.	Member	Designation	Phone No.	Email ID
1	Ms. Warad. V. A	Presiding officer	8793582934	vinaya.warad@gmail.com
2	Prof. Dr. Dhole S. N.	Principal	9922007322	shashikantdhole@yahoo.com
3	Mr. Joshi, S. V	Employee member	8308717870	joshi.frommoshi@gmail.com
4	Dr. Prof.Tambe V. S.	Employee member	9960709992	vrushalitambe99@gmail.com
5	Dr. Kashikar V. S	Employee member	9404242601	vrushali.pharma80@gmail.com
6	Dr. Kandekar.U.Y	Employee member	9822920236	ujja2303@gmail.com
7	Ms. Salvi R. N.	Employee member	9604392647	raahni.salvi12@gmail.com
8	Mrs. Shirke. S. S	Employee member	8484818191	-
9	Ms. Rukhe N. B.	Student representative (PG)	7774903672	nikitarukhe@yahoo.com
10	Ms. Yadav R. H.	Student representative(UG)	9881462450	ratujin27yadav@yahoo.com
11	Ms. Garje S. V.	Student representative(UG)	9881298362	shwetagarje1805@gmail.com
12	Ms. Kumbhar S. P.	Student representative(UG)	7066007991	anehnikumbhar@gmail.com
13	Mr. Ratnaparkhi S D.	External Member, Police Constable, Bhosari Police Station	9552531480	



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Grievance Redressal Cell



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Date: 25/01/2022

CONSTITUTION OF GRIEVANCE REDRESSAL CELL

(2022-23)

Sr No	Member	Designation	Contact Number	E-mail address
1.	Prof. Dr. Dhole S.N.	Head of the institution	9922007322	shasikant_dhole@yahoo.com
2.	Prof. Dr. Chaudhari P.D.	Member Appointed by University (SPPU)	9850179873	pdchaudhari21@rediffmail.com
3.	Ms. Kad D. R.	Coordinator	7028154354	kad271192@gmail.com
4.	Dr. Ms. Tambe V. S.	Faculty representative	9960709992	vrushalitambe99@gmail.com
5.	Mrs. Patil S.K.	Faculty representative	9422979963	sneha.pharmacist@gmail.com
6.	Ms. Salvi R.N	Library Staff	9604392647	rashmi.salvi12@gmail.com
7.	Ms. Ausekar S.P	Non-Teaching staff	9075325303	Soniya.ausekar20@gmail.com
8.	Ms. Ghadhve M.U	Final Year	9922007322	mayurigadhve12@gmail.com
9.	Ms. Adalinge B. S	Third Year	9307269176	adalingebhaevashri1104@gmail.com
10.	Ms. Shetty D. M.	Second year	9324258255	deecipashettv636@gmail.com



(Signature)
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CONSTITUTION OF GRIEVANCE REDRESSAL CELL

(2021-22)

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18/6/2019

Constitution of Grievance Redressal Cell

2019-20

SrNo	Member	Designation	Contact Number	e-mail address
1.	Prof. Dr. Dhole S.N.	Chairperson and head of the institution	9922007322	shashikant_dhole@yahoo.com
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9.	Shweta Garje	Final year	9881298362	Shwetagarje1805@gmail.com
10.	Bhalekar Juce	Third year	8554923995	bhalekarjuce@gmail.com
11.	Momin Juveriya	Second year	8149787812	Juveriya1511@gmail.com

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G.R. Ekbote
Secretary

(PE Society)
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Business Council P.E. Society, Pune

Date: 22/06/2018

Grievance Redressal Cell (2018-19)

Sr No	Member	Designation
1.	Prof. Dr. Dhole S.N.	Chairperson and head of the institution
2.	Prof. Dr. Chaudhari P.D.	Member Appointed by University
2.	Ms. Tambe V. S.	Coordinator
3.	Mr. Joshi S.V.	Faculty representative
4.	Dr. Ms. Kashikar V.S.	Faculty representative
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9.	Monika Murhe	Third year
10.	Bhalekar Juce	Second year

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Borhadewadi, At/Post Moshi
Tal.Haveli, Dist.Pune - 412105



SECRETARY
Prof. Deshmukh S.S
SECRETARY
P. E. Society, Pune-5.

• Borhadewadi, Dehu - Alandi Road, A/P. Moshi, Tal - Haveli, Dist. - Pune - 412 105 M.S. (INDIA)
• Tel. 7276078868 Email.: pharmoshiwomen@yahoo.com Website.: www.mcpledu.org



PES MODERN COLLEGE OF PHARMACY
(NBA Accredited) (FOR LADIES)

Approved by AICTE, New Delhi (F.No.06/07/MS/PHARMA/2004/047, DTE.Mumbai (2/NGC/2004/342)
Government of Maharashtra No. TEM/2004(235/04) TE-1, Pharmacy Council of India (32-347/2012-PCI),
Permanently affiliated to Savitribai Phule Pune University, ID No. PU/PN/Pharmacy/200/2004



Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Anti-Discrimination Cell

Criterion 1: Curricular Aspects



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Business Council P.E. Society, Pune

CONSTITUTION OF ANTIDISCRIMINATION COMMITTEE

(2022-23)

Sr. No	Member	Designation	Contact Number	e-mail address
1	Prof. Dr. Dhole S.N.	Head of the institution	9922007322	shashikant_dhole@yahoo.com
2	Ms. Mehetre G. S.	Coordinator	9960804087	gitanjalimehetre08@gmail.com
3	Dr. Ms. Tambe V. S.	Coordinator	9960709992	vrushalitambe99@gmail.com
4	Ms. Upadhye M.C.	Faculty representative	9766493303	mohiniketh@rediffmail.com
5	Ms. Salvi R. N.	Library Staff	9604392647	rashmi.salvi112@gmail.com
6	Ms. Ausekar Soniya	Non- Teaching staff	9075325303	soniya.ausekar20@gmail.com
7	Ms. Ghadhawe Mayuri	Final Year	9922007322	mayurighadhawe12@gmail.com
8	Ms. Adalinge Bhagyashree	Third Year	9307269176	adalingebhagvashri1104@gmail.com
9	Ms. Choudhary Zainab	Second Year	9322322029	zain182502@gmail.com

Principal

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Business Council P.E. Society, Pune

Date 19/08/2021

Office order

Following is the constitution of Anti-Discrimination Cell 2021--22 as per the guidelines given by UGC. You are informed to look after the portfolio, perform the duties and contribute to the development of students and marginalized group of the college.

ANTIDISCRIMINATION COMMITTEE (2021-22)

SrNo	Member	Designation	Contact Number	E-mail address	Sign
1.	Prof. Dr. Dhole S.N.	Chairman	9922007322	shashikant_dhole@yahoo.com	<i>S.N. Dhole</i>
2.	Dr. Tambe V. S.	Advisor	9960709992	vrushalitambe99@gmail.com	<i>V. S. Tambe</i>
3.	Ms. Kad D. R.	Member secretary	7028154354	kad271192@gmail.com	<i>D. R. Kad</i>
4.	Mr. Joshi S.V.	Faculty representative	8308717870	joshifrommoshi@gmail.com	<i>S. V. Joshi</i>
5.	Ms. Salvi Rashmi	Library Staff	9604392647	rashmi.salvi112@gmail.com	<i>Rashmi Salvi</i>
6.	Ms. Soniya Ausekar	Non- Teaching staff	9075325303	Soniya.ausekar20@gmail.com	<i>Soniya Ausekar</i>
7.	Ms. Momin Juveriya	Member	8149787812	Juveriya1511@gmail.com	<i>Juveriya</i>
8.	Ms. Mayuri Ghadhve	Member	9922007322	mayurigadhve12@gmail.com	<i>M. V. Ghadhve</i>
9.	Ms. Bhagyashree Adalinge	Member	9307269176	adalingebhagyashree1104@gmail.com	<i>Bhagyashree Adalinge</i>



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CONSTITUTION OF ANTIDISCRIMINATION COMMITTEE

(2020-21)

SrNo	Member	Designation	Contact Number	e-mail address
1.	Prof. Dr. Dhole S.N	Head of the institution	9922007322	shashikant_dhole@yahoo.com
2.	Dr. Ms. Pujari R.R	Coordinator	8087620078	rohini pujari@gmail.com
3.	Dr. Ms. Tambe V. S.	Faculty representative	9960709992	srushalitambe99@gmail.com
4.	Mr. Joshi S.V.	Faculty representative	8308717870	joshifrommoshi@gmail.com
5.	Ms. Upadhye M.C.	Faculty representative	9766493303	mohiniketh@rediffmail.com
6.	Ms. Salvi Rashmi	Library Staff	9604392647	rashmi.salvi112@gmail.com
7.	Ms. Soniya Ausekar	Non- Teaching staff	9075325303	Soniya.ausekar20@gmail.com
8.	Momin Juveriya	Third Year	8149787812	juveriya1511@gmail.com
9.	Mayuri Ghadhve	Second Year	9922007322	mayurighadhve12@gmail.com
10.	Ms. Bhagyashree Adalinge	First Year	9307269176	adalingebhagyashri1104@gmail.com



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Business Council P.E. Society, Pune

Date 1/8/2019

Anti-discrimination Cell (2019-20)

SrNo	Member	Designation	Contact Number	e-mail address
1.	Prof. Dr. Dhole S.N.	Chairperson and head of the institution	9922007322	shashikant_dhole@yahoo.com
2.	Dr. Tambe V. S.	Coordinator	9960709992	vrushalitambe99@gmail.com
3.	Mr. Joshi S.V.	Faculty representative	8308717870	joshifrommoshi@gmail.com
4.	Dr. Ms. Kashikar V.S.	Faculty representative	9423231932	vrushalipharma80@gmail.com
5.	Ms. Salvi Rashmi	Library Staff	9604392647	rashmi_salvi112@gmail.com
6.	Mrs. Shirke S.S.	Supporting Staff	8484818191	-----
7.	Shweta Garje	Student representative (Final year B. Pharm)	9881298362	shwetagarje1805@gmail.com
8.	Bhalekar Juce	Student representative (Third year B. Pharm)	8554923995	bhalekarjuce@gmail.com
9.	Momin Juveriya	Student representative (Second year B. Pharm)	8149787812	Juveriya1511@gmail.com
10.	Mayuri Ghadhare	Student representative (First Year B. Pharm)	9022675184	mayurigadhare12@gmail.com
11.	Ms. Konde Sonal	Student representative (M. Pharm)	--	---



(Signature)
Principal
Dr. Dhole S.N.

PRINCIPAL
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Borhadewadi, A/Past Moshhi

• Borhadewadi, Dehu - Alandi Road, A/P. Moshhi, Tal - Haveli, Dist. - Pune - 412 105 M.S. (INDIA)
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Business Council P.E. Society, Pune

Date: 22/06/2018

Anti-discrimination Cell (2018-19)

SrNo	Member	Designation
1.	Prof. Dr. Dhole S.N.	Chairperson and head of the institution
2.	Ms. Tambe V. S.	Coordinator
3.	Mr. Joshi S.V.	Faculty representative
4.	Dr. Ms. Kashikar V.S.	Faculty representative
5.	Dr. Ramteke K.H.	Faculty representative
6.	Ms. Salvi Rashmi	Library Staff
7.	Mrs. Shirke S.S.	Supporting Staff
8.	Divya Munot	Final year
9.	Mobnika Murhe	Third year
10.	Bhalekar Juee	Second year

PRINCIPAL

Prof. Dr. Dhole S.N.

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Tel: Moshli, Dist: Pune - 412105



SECRETARY

Prof. Deshmukh S.S

SECRETARY
P. E. Society, Pune-5.

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Green Audit Report



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Business Council P.E. Society, Pune

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School,
Parvati, Pune 411 009 Tel: 09890444795 Email: engress123@gmail.com
MEDA Registration No: ECN/2022-23/CR-43/1709
ISO: 9001-2015 Certified (Cert No: 23EQKC13),
ISO: 14001-2015 Certified (Cert No: 23EEKW20)

GREEN AUDIT CERTIFICATE

Certificate No: ES/MCOP/22-23/02

Date: 18/7/2023

This is to certify that we have conducted Green Audit at Progressive Education Society PES Modern College of Pharmacy (For Ladies), Moshi, Pune, in the Academic year 2022-23.

The College has adopted following Green & Sustainable Practices:

- > Usage of Energy Efficient LED Light Fitting
- > Usage of BEE STAR Rated Energy Efficient Equipment
- > Installation of Roof Top Solar PV Plant of Capacity 10 kWp
- > Segregation of Waste at Source
- > Provision of Sanitary Waste Incinerator for Sanitary Waste Disposal
- > Installation of Effluent Treatment Plant for treatment of Waste Liquid
- > Provision of Fumigation Chamber, for Acid Storage & Fumes' Management
- > Implementation of Rain Water Management Project
- > Good Internal Road
- > Tree Plantation in the campus
- > Provision of Ramp for Divyangajan
- > Creation of Awareness on Water Conservation by Display of Posters

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Engress Services,

A Y Mehendale,
B E- Mech, M Tech-Energy, Certified Energy Auditor, EA-8192
ASSOCHAM GEM Certified Professional: GEM: 22/788





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ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society,
Near Mukangan English School, Parvati, Pune 411 009
Tel: 09890444795 Email: engress123@gmail.com

Ref: ES/MCOP/21-22/02

Date: 11/7/2022

CERTIFICATE

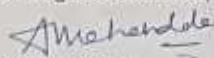
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ENRICH CONSULTANTS

Yashashree, 26, Nirmal Bag Society,
Near Muktangan English School, Parvati, Pune 411 009
Tel: 09890444795 Email: enrichcons@gmail.com

Ref: EC/MCOP/20-21/02

Date: 24/7/2021

CERTIFICATE

This is to certify that we have conducted Green Audit at Progressive Education Society PES Modern College of Pharmacy (For Ladies), Moshi, Pune, in the Academic year 2020-21.

The College has adopted following Green Initiatives:

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Tel: 09890444795 Email: enrichcons@gmail.com

Ref: EC/MCOP/19-20/02

Date: 22/7/2020

CERTIFICATE

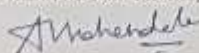
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The College has adopted following Green Initiatives:

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Tel: 09890444795 Email: enrichcons@gmail.com

Ref: EC/MCOP/18-19/02

Date: 17/7/2019

CERTIFICATE

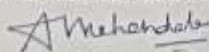
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An ISO 9001:2015 certified company
An official Industry Association with SCGJ, Govt. of India

Certified Green Campus

This certificate is awarded to

PES Modern College of Pharmacy (for Ladies), Moshi

to recognize the participation in the vmedulife "GO GREEN" initiative and to honour the valuable contribution made towards implementation of the online platform which contributes for sustaining greener nation.

We appreciate the involvement and cooperation extended by all the stakeholders in making this drive a success.

Certificate No. VM090520200445
(For Academic Year 2022-23)

Director
VMEDULIFE Pvt. Ltd.
Date: 2022-10-30

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For current validity of certificate, visit www.vmedulife.com



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Permanently affiliated to Savitribai Phule Pune University, ID No. PU/PN/Pharmacy/200/2004

PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Skill Development

Criterion 1: Curricular Aspects



PES MODERN COLLEGE OF PHARMACY
(NBA Accredited) (FOR LADIES)

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Academic Year 2022-23

Sr. No	Name of certificate/value added/online courses	Duration of course	Number of students enrolled in the year
1.	Medicinal chemistry	12 weeks	3
2.	Health Research Fundamentals	8 weeks	2
3.	Psychology of stress, health and well being	12 weeks	1
4.	Cell Biology: Cellular organization, Division and Processes	8 weeks	1
5.	Leadership and Team Effectiveness	12 weeks	1
6.	Industrial Pharmacy-1	12 weeks	2
7.	Developing Soft skills and personality	8 weeks	2
8.	Current regulatory requirements for conducting clinical trials in India for investigations new drug (Version 3.0)	8 weeks	1
9.	Total Quality Management - I	8 weeks	1
10.	Stanford introduction to food and health	3 months	1
11.	Drug Discovery	1-3 months	1
12.	Introduction to Molecular Spectroscopy	1-4 weeks	4
13.	Skill Development in clinical trial	1 month	112
14.	Laboratory Safety	7 days	105
15.	Aseptic techniques	7 Days	105
16.	Training on Calibration of Instruments	8 days	103
17.	Lecture Series on Pharmaceutical Design of Experiments (DoE).	10 Days	22
Total number of students			467

Criterion 1: Curricular Aspects



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Academic Year 2021-22

Sr. No	Name of certificate/value added/online courses	Duration of course	Number of students enrolled in the year
1.	Mobile mentoring Programme on work readiness	6 months	1
2.	Basics of Intellectual Property rights	2 Months	1
3.	Computer aided Drug Design and discovery	3 weeks	1
4.	Current regulatory requirements for conducting clinical trials in India for investigations new drug (Version 3.0)	8 weeks	1
5.	Soft Skills	12 weeks	1
6.	Quality by Design	2 months	1
7.	Stanford introduction to food and health	1-3 months	3
8.	Design and interpretation of clinical trials	1-3months	1
9.	Drug Commercialization	1month	1
10.	Covid 19 contact tracing	1-3 months	6
11.	Introduction to chemistry: reactions and ratios	1-3 months	2
12.	Epidemics, pandemics and outbreaks	1-3 months	1
13.	Executive Diploma in PV and Clinical Research	3 month	8
14.	Interview Skills Development and career orientation programme in Pharmacovigilance, Medical coding and clinical research	3 months	12
15.	Computer aided Drug Design: Free software installation and molecular docking study	10 days	57
16.	Aseptic techniques	1 month	90
Total number of students			187

Criterion 1: Curricular Aspects



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Academic Year 2020-21			
Sr. No	Name of certificate/value added/online courses	Duration of course	Number of students enrolled in the year
1.	Advance Certificate Course in clinical research and medical technology	3 Months	17
2.	Workshop on Graph pad prism software installation and training	15 days	58
3.	Hands on training on autodock software installation and demonstration	15 days	63
Total number of students			138

Academic Year 2019-20			
Sr. No	Name of certificate/value added/online courses	Duration of course	Number of students enrolled in the year
1.	Workshop on: Demonstration, software installation and hands on training on DOE software	6 days	113
Total number of students			113

Academic Year 2018-19			
Sr. No	Name of certificate/value added/online courses	Duration of course	Number of students enrolled in the year
1.	Executive Diploma in Clinical Trial and Pharmacovigilance	3 months	22
2.	Research orientation programme	6 Days	112
Total number of students			134