

Vidarbha Youth Welfare Society's
INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH
Borgaon (Meghe), Wardha (M.S.)

Institution integrates crosscutting issues relevant to Professional ethics, Gender, Human Values, Environment and Sustainability into the curriculum




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1. List and description of courses which address the Professional Ethics, Gender Human Values, Environment and sustainability into curriculum

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Sr. No.	Name of Program	Addressed Area	Name of Course	Semester	Scope	Credit Points
1	B. Pharm	Gender	Human Anatomy and Physiology-I	I	The course explains the physiology and function of various body systems of human being.	4
2		Environment & Sustainability	Pharmaceutical Inorganic Chemistry	I	The course gives knowledge about impurities, contaminants, like heavy metals, radio isotopes and precautions related with them	4
3		Professional Ethics	Communication Skills	I	This course prepares the young pharmacy student to interact effectively with doctors, nurses, dentists, physiotherapists and other health workers. The student will develop communication skills to work cohesively with the team as a team player and will add value to the pharmaceutical business.	2
4		Professional Ethics	Communication Skills Practical	I	The course enhances awareness of students towards importance of effective communication that helps in development of professional ethics.	1
5		Environment and Sustainability	Remedial Biology	I	The course deals with the impact of world diversity on various living organisms.	1
6		Environment and Sustainability	Environmental Sciences	II	This course deals with scientific study of the environment and its impact on organisms. The course includes the study of the impact of man on environment.	3
7		Environment and Sustainability	Pharmaceutical Microbiology	III	The course deals with study of microorganisms like bacteria, viruses, algae, fungi and protozoa.	4
8		Environment and Sustainability	Pharmaceutical Microbiology Practical	III	The course deals with understanding techniques used for testing the environmental micro-organisms, studying the water quality, and also	4



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					performing sterilization process, etc.	
9		Environment and sustainability	Pharmaceutical Engineering	III	This course imparts a fundamental knowledge on the art and science of various unit operations used in pharmaceutical industry. The objectives of this course are to understand various test to prevent environmental pollution and various preventive methods used for corrosion control in Pharmaceutical industries.	4
10		Environment and Sustainability	Physical Pharmaceutics - II	IV	The course is designed to impart knowledge about various processes in nature that have an effect on the quality of pharmaceuticals.	4
11		Environment and Sustainability	Pharmacognosy and Phytochemistry- I	IV	The course deals with proper utilization of natural components for medicinal uses. Developing proper understanding about plants, animals and marine ecosystem. Also understanding techniques for their preservation, and cultivation.	4
12		Environment and Sustainability	Pharmacognosy and Phytochemistry- II	V	This course deals with various techniques used for extraction using green solvents, for isolation of phytoconstituents.	4
13		Professional Ethics and Human Values	Pharmaceutical Jurisprudence	V	This course is designed to impart knowledge about legislative provisions related to the profession of pharmacy in India, Code of conduct of pharmacists and Pharmacists oath and professional ethics	4
14		Environment and sustainability	Industrial Pharmacy- I	V	This 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. In the chapter Pharmaceutical Aerosols, special emphasis is	4



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					given to the environmental hazards of some propellants and how they are banned and replaced by environmental friendly propellants.	
15		Environment and Sustainability	Pharmacology- III	VI	This course deals with study of toxicology, biological clock of human and their impact on environment.	4
16		Environment and Sustainability	Herbal Drug Technology	VI	This course signifies various environmental aspects such as organic farming, pest control and pest management, Bio-pesticides, Bio-insecticides, herbal excipients etc.	4
17		Human values and professional ethics	Biopharmaceutics and Pharmacokinetics	VI	This subject imparts knowledge and skills of Biopharmaceutics and pharmacokinetics and their applications in pharmaceutical development, design of dose and dosage regimen and in solving the problems cropped up therein. The chapter bioavailability and bioequivalence testing in human addresses Human values and professional ethics.	4
18		Human Value and Professional Ethics	Pharmacy Practice	VII	The course gives knowledge about the uses of drug and patient counselling.	4
19		Environment and Sustainability Professional Ethics	Industrial Pharmacy - II	VII	The course gives knowledge about environmental control needed in pharmaceutical manufacturing also various ISO guidelines to help companies around the world to reduce their adverse impact on the environment.	4
20		Gender	Novel Drug Delivery Systems	VII	This subject imparts basic knowledge on the area of novel drug delivery The chapter Intrauterine devices covers novel devices for female applications.	4



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21		Professional Ethics	Pharmaceutical Marketing Management	VIII	This course gives the Knowledge of marketing management, grooming the people for Managerial positions and taking a challenging role in Sales and Product management.	4
22		Gender, Human Values and Professional Ethics	Social and Preventive Pharmacy	VIII	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.	4
23		Human Values and Professional Ethics	Pharmacovigilance	VIII	The course deals with regulations related with drug safety monitoring, adverse drug reactions, vaccine safety management. Ethical guidelines related to drug safety and clinical trials.	4
24		Human Values, Environment and sustainability	Quality control and Standardization of herbals	VIII	The course comprises guidelines for evaluating the safety and efficacy of herbal medicines.	4
25		Human Values, Environment and sustainability	Pharmaceutical Regulatory Science	VIII	The course deals with regulations related with preclinical studies, clinical trials, Good clinical practices	4
26		Environment and sustainability	Pharmacological Screening Methods	VIII	The course deals with the CPCSEA and OECD guidelines for experimentation on laboratory animals and preclinical studies	4

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27	M.Pharm PH	Professional Ethics	Regulatory Affairs	I	The course deals with various regulations such as ICH, EU, MHRA, TGA, etc.	4
28		Environment and sustainability and professional ethics	Modern Pharmaceutics	I	This course imparts advanced knowledge and skills required to learn various aspects and concepts at pharmaceutical industries. It addresses Industrial management and GMP.	4
29		Human values and professional ethic	Advanced Biopharmaceutics & Pharmacokinetics	II	This course imparts knowledge and skills necessary for dose calculations, dose adjustments	4



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					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. The chapter bioavailability and bioequivalence testing in human addresses Human values and professional ethics.	
30		Professional ethics	Computer Aided Drug Development	II	This course imparts knowledge and skills necessary for computer Applications across the entire drug research and development process. The chapter computers in clinical development addresses professional ethics.	4
31	M.Pharm QA	Professional Ethics	Quality Management System	I	The course includes ICH guidelines and other quality management systems to improve quality of product.	4
32		Professional Ethics	Quality Control Quality Assurance	I	The course emphasizes on the importance of Good Laboratory Practices and Good Manufacturing Practices.	4
33		Environment and Sustainability,	Hazards and Safety Management	II	The course includes information about natural resources, renewable and non-renewable resources, ecosystem, Hazards based on air, chemical and fire and also risk management.	4
34		Professional Ethics	Pharmaceutical Validation	II	The course deals with various validation processes to be carried out in industry.	4
35		Professional Ethics	Pharmaceutical Manufacturing Technology	II	The course includes PAT guidelines and other regulatory requirements	4
36	M.Pharm PL	Environment and Sustainability and Professional Ethics	Pharmacological and Toxicological Screening Methods-II	II	The course deals with guidelines related to animal toxicology and effect of various environmental toxicants on human.	4



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37		Human Value and Professional Ethics	Clinical Research and Pharmacovigilance	II	The course deals with guidelines for protecting human from adverse drug effect and also guidelines giving knowledge to use drugs for human benefit.	4
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