



The Sikh Education Society's

Gurunanak College of Pharmacy NAGPUR-440026

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1.3.1:

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

Sr. No	Name of Program	Addressed area	Name of course	Semester	Scope	Credit Points
01	B. Pharm	Environment and Sustainability	Pharmaceutical Inorganic Chemistry	I	The course gives knowledge about various impurities, contaminants like heavy metals, radio isotopes and precautions related with them.	4
02		Professional Ethics, Gender, Human Values	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 get the soft skills set to work cohesively with the team as a team player and will add value to the pharmaceutical business.	2
03		Professional Ethics, Gender, Human Values	Communication Skills Practical	I	The course enhances awareness of a student towards soft skills, understanding human values, gender equity and professional ethics those are important in effective communication.	1
04		Environment and Sustainability	Remedial Biology	I	The course deals with the Diversity in the world and various living organisms.	1
05		Environment and Sustainability	Environmental Sciences	II	This course imparts 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	3

Committee

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				man on environment	
06	Environment and Sustainability	Pharmaceutical Microbiology	III	The course deals with study of microorganisms like bacteria, viruses, algae, fungi and protozoa. It also deals with aseptic area, clean area classification and microbial spoilage etc.	4
07	Environment and Sustainability	Pharmaceutical Microbiology Practical	III	The course deals with techniques used for testing the environment and water quality, sterilization etc.	2
08	Environment and Sustainability	Physical Pharmaceutics II	IV	The course is designed to impart knowledge about various processes in nature, effect of environment on the pharmaceuticals.	4
09	Environment and Sustainability	Pharmacognosy and Phytochemistry I	IV	This course deals with utilization of nature and natural components for medicinal uses such as plants, animals and marine life. It also describe techniques for their conservation.	4
10	Environment and Sustainability	Pharmacognosy and Phytochemistry II	IV	This course deals with various techniques used for extraction of phytoconstituents.	4
11	Professional Ethics Human Values	Pharmaceutical Jurisprudence	V	This course is designed to impart basic knowledge on important legislations related to the profession of pharmacy in India	4
12	Environment and Sustainability	Pharmacology III	VI	This course deals with study of toxicology, biological clock and their significance related with environment.	4
13	Environment and Sustainability	Herbal Drug Technology	VI	This course touches various aspects about environment such as organic farming, pest and pest management, Biopesticides/ Bioinsecticides, herbal excipients etc.	4
14	Environment and sustainability	Industrial Pharmacy II	VII	The course gives knowledge about environmental control needed in pharmaceutical manufacturing also	4

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					includes guidelines as per ISO 14000 i.e. set of standards created to help companies around the world reduce their adverse impact on the environment.	
15		Professional Ethics	Pharmaceutical Marketing Management	VIII	This course gives the Knowledge and Know-how of marketing management, groom the people for taking a challenging role in Sales and Product management	4
16		Gender, Human Values 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
17		Human Values, Environment and sustainability	Pharmaceutical Regulatory Science	VIII	The course deals with regulations related with preclinical studies, clinical trials, Good clinical practices etc.	4
18		Human Values,	Pharmacovigilance	VIII	The course deals with regulations related with drug safety monitoring, adverse drug reactions, Vaccine safety and predictability and preventability assessment.	4
19		Human Values	Quality control and Standardization of Herbals	VIII	The course comprises guidelines for evaluating the safety and efficacy of herbal medicines, safety monitoring of herbal medicines etc.	4
20		Gender	Cosmetic Science	VIII	The course deals with types and formulation of cosmetics for human beings	4
21		Environment and Sustainability	Pharmacological Screening Methods	VIII	The course deals with the guidelines of CPCSEA and OECD for experimentation on laboratory animals and preclinical studies.	4
22	M. Pharm	Environment	Regulatory	I	The course deals with various	4

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	Pharmaceutics	and Sustainability, Human Values	Affairs		regulations such as ICH, EU, MHRA, TGA and ROW countries.	
23	M. Pharm Pharmaceutical Chemistry	Environment and Sustainability,	Advanced Organic Chemistry II	I	The course includes studies on green chemistry to make chemistry environment friendly.	4
24	M. Pharm Pharmaceutical Quality Assurance	Environment and Sustainability, Human Values Professional Ethics	Quality Management Systems	I	The course includes syllabi on ICH guidelines and other quality management systems to improve quality of product with less damaging the environment.	4
25		Human Values, Professional Ethics	Quality Control and Quality Assurance	I	The course emphasizes on the importance of Good laboratory practices and good manufacturing practices, Sanitation of manufacturing premises etc.	4
26		Environment and Sustainability, Human Values, Professional Ethics	Hazards and Safety Management	II	The course includes information on natural resources, renewable and nonrenewable resources, ecosystem, Hazards based on air, chemical and fire and also risk management.	4
27		Professional Ethics	Pharmaceutical Validation	II	The course deals with various validation processes to be carried out in industry.	4
28		Professional Ethics	Pharmaceutical Manufacturing Technology	II	The syllabi includes about PAT guidance and other regulatory requirements	4

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