

2024-25

VOLUME II
STUDENTS'
INFORMATION
BOOKLET

PHARM.D.



प्रार्थना

या कुन्देन्दु तुषारहार धवला या शुभ्र वस्त्रावृता ।
या वीणा वर दण्ड मणिंडितकरा या श्वेत पद्मासना ॥
या ब्रह्माच्युत शंकर प्रभृतिभिः देवैः सदा वन्दिता ।
सा मां पातु सरस्वती भगवती निःशेष जाडचापहा ॥

श्लोक अर्थ - जो विद्या की देवी भगवती सरस्वती कुन्द के फूल, चन्द्रमा, हिमराशि और मती के हार की तरह धबल वर्ण की हैं और जो श्वेत वस्त्र धारण करती हैं, जिनके हाथ में वीणा-दण्ड शोभायमान है, जिन्होंने श्वेत कमलों पर आसन ग्रहण किया है तथा ब्रह्मा, विष्णु एवं शंकर आदि देवताओं द्वारा जो सदा पूजित हैं, वही सम्पूर्ण जड़ता और अज्ञान को दूर कर देने वाली माँ सरस्वती हमारी रक्षा करें ।

Meaning - Salutations to Devi Saraswati, Who is pure white like Jasmine, with the coolness of Moon, brightness of Snow and shine like the garland of Pearls; and Who is covered with pure white garments, Whose hands are adorned with Veena (a stringed musical instrument) and the boon-giving staff; and Who is seated on pure white Lotus, Who is always adored by Lord Brahma, Lord Acyuta (Lord Vishnu), Lord Shankara and other Devas, O Goddess Saraswati, please protect me and remove my ignorance completely.

PREAMBLE

The Handbook for students, distributed in two volumes (Volume I and Volume II), provides comprehensive information about the Institute of Pharmacy (IPNU) at Nirma University, along with detailed descriptions of the undergraduate PharmD programs.

Volume I of the Handbook encompasses general information about Nirma University. It outlines critical details about campus regulations, including student discipline and code of conduct guidelines. Additionally, it describes the academic infrastructure, teaching and learning processes, student-centric activities, and the general facilities and support services available to students on campus.

Volume II of the Handbook delves into the academic specifics of the Institute. It includes the Academic Rules and Regulations, encompassing the academic requirements and code of conduct policies for students at the University. This volume also provides essential information on registration procedures, the grading system, academic standards, attendance requirements, and disciplinary measures, along with various policies and necessary forms.

It is imperative for all students to familiarize themselves with the rules and regulations of both the Institute and the University. The University/Institute reserves the right to modify the rules and regulations outlined in the Handbook without prior notice. The University's decisions on all matters are final. For additional clarification, students are advised to contact the Student Section.

These Handbooks serve to inform students about the University and its programs and should not be considered as the University's Regulation book. Consequently, no claims can be made based on the information provided in these Handbooks.

Professor Dr Gopal Natesan

MPharm, PhD (India), MBA (Malaysia),
PG Cert Teaching & Learning (UK), FHEA (UK), SEFM, RPh (India)
Director, Institute of Pharmacy



DIRECTOR'S MESSAGE

Dear Students,

Welcome to the Doctor of Pharmacy (PharmD) program at the Institute of Pharmacy, Nirma University. It is with great pleasure and pride that I address you at the beginning of this transformative journey. Our PharmD program is designed to equip you with the knowledge, skills, and competencies required to excel in the ever-evolving field of pharmacy. As healthcare professionals, pharmacists play a pivotal role in patient care, ensuring the safe and effective use of medications, and contributing to the overall health and well-being of the community. Here at Nirma University, we are committed to nurturing your potential and guiding you towards becoming leaders in this noble profession.



The Institute of Pharmacy is distinguished by its state-of-the-art facilities, a rigorous curriculum, and a faculty composed of accomplished scholars and practitioners who are dedicated to providing you with a robust educational experience. Our curriculum is not only grounded in scientific and clinical excellence but also emphasizes the importance of ethics, communication, and empathy in healthcare.

Throughout your time in the PharmD program, you will be engaged in a variety of learning experiences, including lectures, laboratory work, clinical rotations, and research projects. These experiences are designed to foster critical thinking, problem-solving, and lifelong learning. You will have the opportunity to work alongside healthcare professionals in diverse settings, gaining practical insights and honing your skills. We encourage you to take full advantage of the resources and opportunities available to you. Participate actively in class discussions, seek guidance from your mentors, and collaborate with your peers. Remember that your education is a journey of continuous growth, and the challenges you encounter are opportunities to develop resilience and expertise.

As you embark on this academic endeavor, I urge you to uphold the highest standards of professionalism and integrity. The pharmacy profession demands a commitment to ethical practice and compassionate care. Strive to make a positive impact on the lives of your patients and contribute to the advancement of the pharmacy field. I am confident that with dedication, perseverance, and a passion for excellence, you will achieve great success and make significant contributions to the healthcare community.

Welcome to the Institute of Pharmacy, Nirma University. I wish you all the best in your studies and future career.

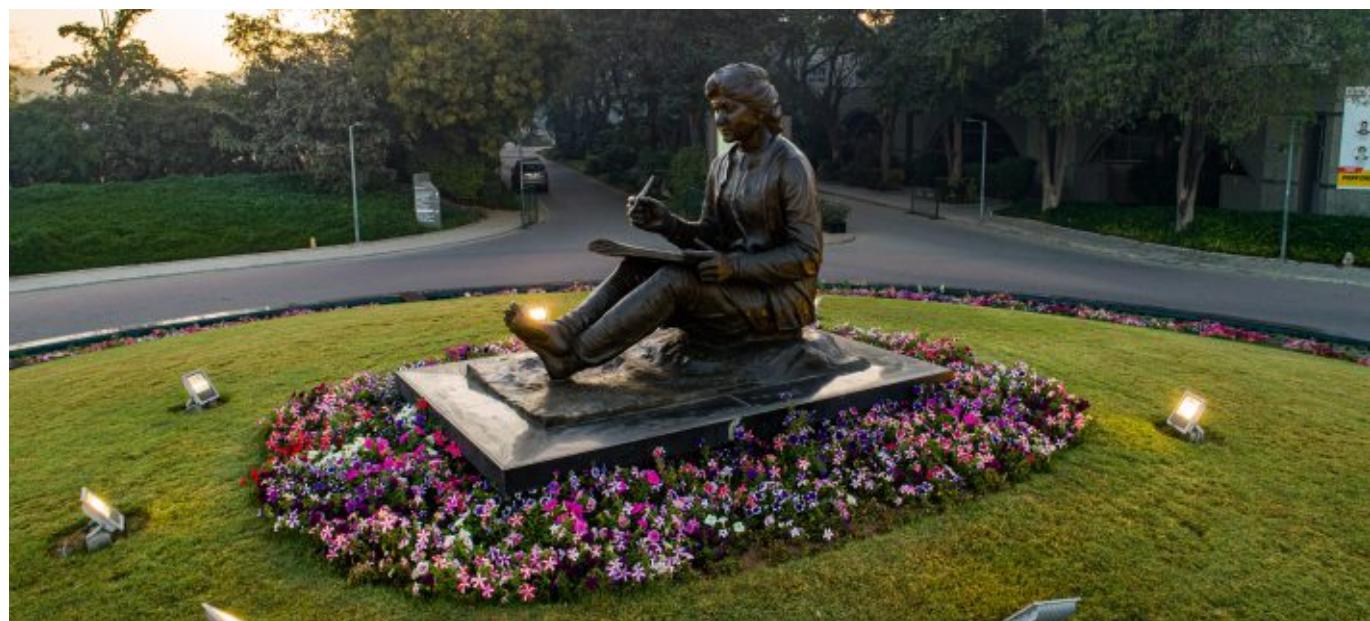
Professor Dr Gopal Natesan

Director, Institute of Pharmacy

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SECTION A

General Information

ABOUT INSTITUTE OF PHARMACY

Institute of Pharmacy was established in the year 2003 under Nirma University with the aim of developing able professionals in the field of pharmaceutical sciences. In a short span of time, it has become one of the leading institutions in the country, offering pharmaceutical education at the undergraduate, postgraduate, doctoral and postdoctoral level.

The Institute offers B. Pharm, Pharm D, M. Pharm. (Pharmaceutics, Pharmacology, Pharmaceutical Analysis and Regulatory Affairs), Full time and Part time Ph.D. and Post-doctoral Programmes.

The Institute has adopted Outcome Based Education (OBE) to further advance the development of professional knowledge, inculcate employability skills in addition to development of character and social responsibility. To achieve the same objective, vision and mission of the institute was also defined in line with University's vision and mission. The Institute has also framed its programme educational objectives and programme outcomes. The Institute has more than 5.0 crore rupees grant from government agencies and has collaboration with various research centres and industries. The Institute houses state-of the-art instruments, like supercritical fluid extractor and chromatogram, HPTLC, HPLC, MPLC, GC, Fluorescence Spectrometer, Raman Spectrometer, UV-VIS-NIR Spectrophotometer, FTIR, DSC, ELISA, PCR, Electrophoresis, Texture Analyser, Automated Dissolution Apparatus, Extruder-Spheronizer, Multiple diffusion Assembly, High Pressure Homogenizer, Particle Size Analyser, E-Spin, Microwave synthesizer, Stereotaxic apparatus with Micro-dialysis as well as software's, like Gold Suit, eCTD, Design Expert, etc.

Institute is also equipped with Cell Culture Laboratory and Aseptic Laboratory (Class 1000) facility which provides all the basic and advanced equipment's required for the culturing of mammalian cells. The facility enables students to work with primary and secondary cell lines. It also has machine room with manufacturing and testing equipment's. The expertise of in-house faculty members and regular interactive sessions with national and international experts through workshops, conferences make the most of it for the young-minds of the Institute and other organizations in advancing their research.

The Institute has a two-storied animal house facility registered with the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), Government of India. Besides, there is also a medicinal plant garden "Nirma Herbal Wealth", having an area of 3356.5 sqm with around 150 genera and 500 plants.

VISION AND MISSION OF THE INSTITUTE OF PHARMACY

VISION

Striving to excel in pharmaceutical education, research & innovation to develop outstanding professionals catering to the health care needs of the humankind.

MISSION

The institute aims to develop employable students, researchers and entrepreneurs by inculcating critical thinking, problem solving ability, ethical values and leadership skills. Institute provides vibrant environment for continuous learning by strengthening industrial collaboration for developing competent professionals.

ACCREDITATION AND RANKING

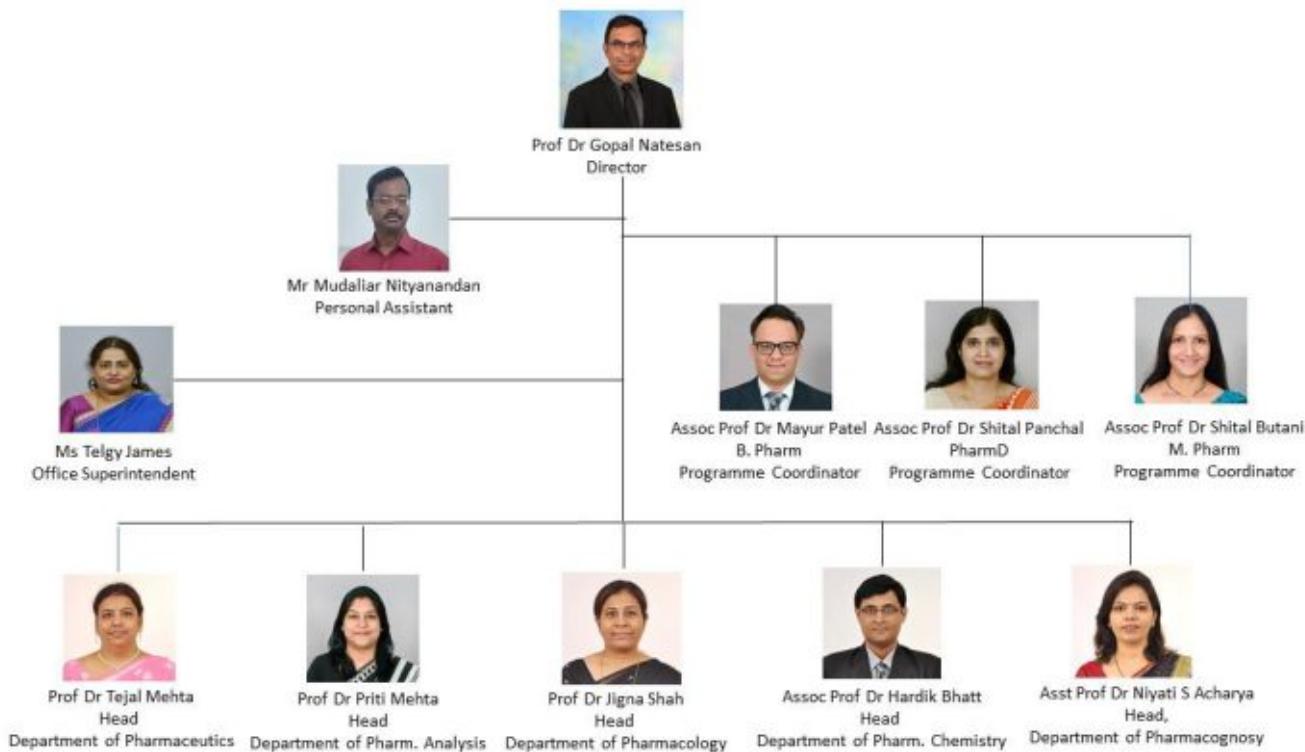
The Institute of Pharmacy, Nirma University is a constituent institute undergo accreditation and ranking periodically, which stimulate the academic environment for promoting quality of teaching, learning, and research. This also encourages self-evaluation, accountability, autonomy, and innovations in higher education. The University is accredited with "A+" grade by National Assessment and Accreditation Council (NAAC) in its 3rd cycle.

Institute has been ranked 37th in India Ranking 2024 by Ministry of Human Resource Development, (MHRD), Government of India in its National Institutional Ranking Framework (NIRF). The B.Pharm. Programme has been re-accredited by National Board of Accreditation (NBA) for three years (2022-23 to 2024-25).

Institute of Pharmacy, Nirma University bagged the FIRST RANK amongst all Pharmacy Institutions of Gujarat state with FIVE STAR rating in Gujarat State Institutional Rating Framework (GSIRF) 2023 ratings by Knowledge Consortium of Gujarat, Dept. of Education, Government of Gujarat.



ORGANIZATION CHART FOR THE INSTITUTE



IMPORTANT CONTACT DETAILS AT UNIVERSITY LEVEL

S. No.	Programme Management Staff	Designation	Department	email id	Ext. No.
1	Dr Ravindra Sen	Deputy Registrar (Academic)	Academic	dy_registrar.nu@nirmauni.ac.in	681
2	Dr Nilesh Patel	Deputy Registrar (Examination)	Examination	dy_registrar.exam@nirmauni.ac.in	698
3	Dr Bhavesh Parekh	Students Welfare Board	Student Welfare	studentwelfare@nirmauni.ac.in	312



IMPORTANT CONTACT DETAILS AT INSTITUTE OF PHARMACY

S. No.	Programme Management Staff	Designation	Department	email id	Ext. No.
1	Ms Telgy James	Office Superintendent	Administrative Office	os.ip@nirmauni.ac.in	714
2	Ms Pooja Pandey	Student Section	Administrative Office	sts.ip@nirmauni.ac.in	715
3	Mr Hashmukh Rathod	Examination Section	Administrative Office	hasmukh.rathod@nirmauni.ac.in	715
4	Ms Jigisha Patel	Student Section	Administrative Office	sts.ip@nirmauni.ac.in	715
5	Mr Mudaliar Nityanandan	Personal Assistant to Director	Administrative Office	nityanandan@nirmauni.ac.in	713
6	Dr Dipal Gandhi	Assistant Professor	Cultural Coordinator, IPNU	dipspharma@nirmauni.ac.in	718
7	Dr Mithun Singh Rajput	Assistant Professor	Sports Coordinator, IPNU	mithunshingh.rajput@nirmauni.ac.in	-
8	Dr Udit Chaube	Assistant Professor	NSS Coordinator, IPNU	udit.chaube@nirmau.a.cin	718



NETWORKING INITIATIVES AND COLLABORATIONS

Memoranda of Understanding (MoUs) create seamless opportunities for collaboration and interaction between the Institute of Pharmacy, Nirma University, and other entities. These agreements facilitate the exchange of ideas, resources, and expertise, fostering mutual growth and innovation. By establishing formal partnerships with reputed universities and organizations both nationally and internationally, MoUs encourage joint research projects, academic exchanges, and collaborative educational programs. Partnering with diverse institutions broadens the Institute's access to knowledge, resources, and technological advancements, enriching the academic and research environment for students and faculty. Collaborative efforts under MoUs lead to significant advancements in pharmaceutical research, including the development of new drugs, innovative therapies, and improved healthcare solutions. Additionally, these partnerships offer professional development opportunities through workshops, seminars, and conferences, keeping the Institute's members current with the latest trends in pharmacy. MoUs with industry leaders provide internships, training programs, and job placements for students, effectively bridging the gap between academia and industry requirements. The Institute's various MoUs with universities and organizations both within India and globally reflect its commitment to fostering an environment of excellence and innovation through strategic collaborations.

MoU with Foreign Universities/Organizations	MoU with Hospitals /Research Organizations
<ul style="list-style-type: none">• Binghamton University, New York, USA• Massachusetts College of Pharmacy and Health Science - MCPHS University, Boston, USA• University of Southern California, USA• University of Turin, Torino, Italy• Universiti Teknologi MARA, Malaysia• Changwon National University, South Korea• Plovdiv University, Bulgaria• Tirupati USA, LP.	<ul style="list-style-type: none">• Physical Research Laboratory (PRL), Ahmedabad• Space Application Centre (ISRO), Ahmedabad• Apollo Hospitals International Ltd, Ahmedabad• KD Hospital, Ahmedabad• SGVP Holistic Hospital, Ahmedabad• EPIC Hospital, Ahmedabad• Operant Pharmacy Federation, Pali, Rajasthan

MoU with Industries

- Cadila Pharmaceutical Research Centre, Ahmedabad
- Intas Pharmaceuticals Ltd., Ahmedabad
- Amanta Healthcare Ltd., Ahmedabad
- Finecure Pharmaceuticals Ltd., Ahmedabad
- Piramal Drug Development Services Ltd, Ahmedabad
- Novo Bliss Research Private Ltd., Ahmedabad
- West Coast Pharmaceutical Works Ltd., Ahmedabad
- Lexcru Water Industries Pvt. Ltd., Ahmedabad
- Evonik Pharma, Ahmedabad
- Sushen Medicaments, Ahmedabad
- PharmaLab India Pvt. Ltd., Ahmedabad
- BioDev Services Pvt. Ltd., Ahmedabad



INDUSTRY PARTNERS / RECRUITERS

Institute of Pharmacy is honored to engage in collaborations with prominent organizations in the pharmaceutical, healthcare, and related sectors. Our valued industry partners significantly enhance our research, internships, and overall educational experience, driving innovation in the field.

- Alembic Pharmaceuticals Ltd.
- GSK Pharmaceuticals
- Amneal Pharmaceuticals
- Zydus Lifescience Ltd
- Macleods Pharmaceuticals Ltd
- Dr Reddy's Laboratories
- Sun Pharmaceuticals Ltd
- Finecure Pharmaceuticals Ltd
- Intas Pharmaceuticals Ltd
- Troikaa Pharmaceuticals Ltd.
- Torrent Pharmaceuticals Ltd
- Lupin Research Centre
- Novartis India Ltd.
- Piramal Healthcare Ltd
- APCER Lifesciences
- BioQuest Pharmaceuticals
- Emcure Pharmaceuticals Ltd
- HOF Pharmaceuticals Ltd
- Indegene Ltd.
- Biocon Ltd.
- Lambda Therapeutics Research
- Meteoric Biopharmaceuticals Ltd
- Molkem Chemicals Pvt Ltd
- Nestle India Ltd.
- Shaip
- Stivaph Healthcare Pvt Ltd
- Syngene International
- Sushen Medicamentos Pvt Ltd
- Nivea India
- Genpact



INTERNATIONAL RELATIONS OFFICE

International Collaborations

With advancements in communication technologies, affordable travel, and changing mindsets, globalization has significantly increased over the last decade. Universities can leverage this trend for mutual benefits through strategic partnerships. Collaborations with multinational companies also facilitate practical research, employment opportunities, and social engagement. The International Relations Office at Nirma University is dedicated to planning and executing global collaborations to enhance the quality of education, aligning with the dynamics of 21st-century learning for our students.

This includes establishing strategic partnerships with leading universities and research institutions worldwide to foster academic and research excellence, facilitating exchange programs that offer students and faculty international exposure, cultural exchange, and diverse academic experiences, and collaborating on joint research projects with international partners to address global challenges and advance knowledge in various fields. Additionally, partnering with multinational companies provides students with international internships and employment opportunities, enhancing their global employability. The Office also focuses on organizing and participating in international workshops, seminars, and conferences to stay abreast of global trends and innovations in education and research, sharing technological resources and expertise with international partners to enhance research capabilities and educational resources, and collaborating with international accrediting bodies to ensure that the educational standards meet global benchmarks.

International Students Affairs

The International Relations Office is also dedicated to helping international students, faculty, and scholars achieve their academic, personal, and professional goals. This is accomplished through advising, facilitating visa processes, promoting cross-cultural opportunities, and offering services designed with international aspects in mind. The Office provides comprehensive support to ensure a smooth transition for international students and staff, addressing their unique needs and challenges.

Additionally, the International Relations Office works to integrate international students into the campus community by organizing cultural events, orientation programs, and social activities. These initiatives help foster a welcoming and inclusive environment, encouraging interaction and understanding between local and international members of the university.

Furthermore, the Office collaborates with academic departments to develop tailored academic support services, including language assistance, tutoring, and mentoring programs. By doing so, it ensures that international students can thrive academically and reach their full potential.

The International Relations Office also establishes networks with alumni worldwide, creating a global community that supports ongoing collaboration, networking, and career opportunities for graduates. This global alumni network provides valuable resources and connections for current students and recent graduates as they embark on their professional journeys.

Overall, the International Relations Office plays a crucial role in enhancing the internationalization of Nirma University, ensuring that all members of the university community benefit from a diverse and globally connected educational experience.

PLACEMENT CELL

The Placement Cell at Nirma University is dedicated to fostering strong, mutually beneficial relationships between industry and academia. By maintaining close ties with pharmaceutical industries, contract research organizations, and state and national R&D organizations, the Placement Cell aims to bridge the gap between industry needs and the academic output of the institute. This engagement not only enhances student placements and training but also contributes to curriculum improvement.

Each Institute within Nirma University has its own Placement Cell, managed by a dedicated Corporate Relations Manager. This team is supported by faculty placement coordinators and student coordinators, working under the guidance of the Director and in collaboration with departmental heads. The Placement Cell facilitates various activities, including student visits to industries, industrial training, project placements and campus interviews. The Placement Cell is dedicated to ensuring a seamless transition from academia to industry for students. To achieve this, Institute conducts training programs aimed at enhancing students' soft skills, technical abilities, and overall employability. Furthermore, mock interviews are conducted to prepare students for real-world recruitment processes.



INFRASTRUCTURE AND AMENITIES

The placement cell is fully equipped with all modern amenities. The rooms are air-conditioned and equipped with multimedia and audio-visual equipment to facilitate effective interaction. Additionally, the following facilities are also available for Recruiters on campus:

- Dedicated access to Computer Lab for conducting online tests
- Air-conditioned halls for presentations
- Conference Rooms
- Interview Rooms
- Skype/Video Conferencing
- Internet/Wi-Fi access
- Guest House for Corporate Visitors
- Food Court
- ATM Facilities
- Health Club and Gym
- Health Care Centre
- Book Store
- Canteen
- Art Gallery
- Cricket Ground.



INDUSTRIAL TRAINING AND PROJECTS

- The Placement Cell plays a pivotal role in securing industry training and project opportunities for students during the summer vacation. These experiences are crucial for their professional development and growth.
- Industrial training is an integral component of the curriculum, designed to prepare students for real-world challenges. Depending on the program requirements, undergraduate and postgraduate students are placed in various industries for periods ranging from 4 to 24 weeks. During this time, they work under the supervision and guidance of industry professionals, with regular monitoring and evaluation conducted by the placement team.
- By integrating these elements, we ensure that our students are well-equipped with the skills and experience needed to thrive in their professional careers.



SALIENT FEATURES OF THE INSTITUTE OF PHARMACY, NIRMA UNIVERSITY

Over the years, the Institute of Pharmacy at Nirma University has established itself as a premier institution, achieving excellence in various domains. Here's a detailed look at its salient features:

State-of-the-Art Infrastructure

Imagine stepping into a laboratory that feels like a high-tech playground. The Institute boasts well-equipped labs with the latest instruments and technology, ensuring students can conduct experiments and research with precision. The advanced research centres are hubs for innovation, where ground breaking discoveries are made. Additionally, the specialized classrooms are designed to enhance learning experiences with modern amenities like smart boards and interactive setups.

Expert Faculty

Think of the faculty as a team of superheroes in the field of pharmacy. Each faculty member is highly qualified, often with advanced degrees from prestigious institutions. They have received awards and patents for their contributions to science, ensuring they bring the latest knowledge to the classroom. Their publications in reputed journals signify their active involvement in cutting-edge research, providing students with insights from the frontlines of the industry.

Cutting-edge Research Opportunities

Imagine being part of a detective team solving mysteries of diseases and drug interactions. The Institute encourages interdisciplinary projects, allowing students to work at the intersection of various fields like chemistry, biology, and engineering. Collaborations with the industry and publications in reputed journals ensure that students contribute to real-world advancements and stay abreast of the latest developments.

Industry Programs

Picture a bridge that connects the classroom to the corporate world. Through workshops, seminars, and networking events, students gain practical exposure, learning directly from industry experts. These programs are designed to enhance career development, ensuring students are industry-ready by the time they graduate.

Placement and Internship Support

Think of this feature as a launchpad for careers. The Institute has a dedicated placement and internship support team that works tirelessly to connect students with top pharmaceutical

companies. With strong industry ties, students have numerous opportunities to secure internships and placements, ensuring a smooth transition from academic life to professional careers.

Entrepreneurship Support

Imagine a greenhouse nurturing young plants into flourishing trees. The Institute fosters a culture of innovation and enterprise, encouraging students to explore entrepreneurship. Through incubation support and start-up initiatives, students receive guidance and resources to turn their innovative ideas into successful businesses.

Global Collaborations

Envision a global classroom without walls. The Institute has partnerships with renowned international universities and research institutions, offering students opportunities for global exposure. Through exchange programs and collaborative research, students can broaden their horizons and gain diverse perspectives.

Institute Advisory Committee

Think of this committee as a council of wise mentors. It comprises eminent personalities from academia and industry who guide the Institute's practices. They monitor and steer teaching-learning practices, research initiatives, and consultancy projects, ensuring the Institute remains at the forefront of academic excellence.

Interactive Learning

Imagine a classroom where learning feels like a fun, interactive game. The Institute utilizes modern tools, web resources, and Wi-Fi to create an engaging learning environment. This fosters active engagement and knowledge retention, making education more effective and enjoyable.

Mentoring and Guidance

Think of this as having a personal coach for your academic and personal development. Students receive constant mentoring on a one-to-one basis, focusing on career guidance, personal development, and motivation. This ensures that each student receives tailored support to achieve their full potential.

Communication and Exam Coaching

Picture a boot camp for communication skills and competitive exams. The Institute provides skills training and preparation for exams like GPAT, TOEFL, GRE, etc. This enhances students' overall employability and academic achievements, equipping them with the tools needed to excel in their careers.

Library Services

Imagine a treasure trove of knowledge at your fingertips. The Institute boasts an excellent, fully automated library with over 9990 volumes of books, 98 e-journals, and 23 print periodicals. With remote log-in facilities, students can access databases and reference materials from anywhere, supporting their academic and research needs.

Industry Exposure

Think of this as a sneak peek into the professional world. Through summer training and industry visits, students gain real-world insights and practical experience. This exposure is invaluable in understanding industry dynamics and applying theoretical knowledge to practical scenarios.

Campus Facilities

Picture a campus that feels like a small, self-sufficient town. The Institute offers transportation, a modern canteen, medical services, banking, and an in-house doctor with ambulance services. These facilities ensure that students have a comfortable and supportive environment for their studies.

Support for Needy Students

Imagine a library that lends not just books but also a helping hand. The book bank facility ensures that all students have equitable access to necessary study materials, supporting those in need.

Anti-Ragging Policy

Think of a safe haven where learning is the primary focus. The Institute has a strict anti-ragging policy, ensuring a safe and respectful learning environment for all students.

Recreational Facilities

Picture a campus where students can unwind and stay fit. With playgrounds, indoor games, and a gymnasium, the Institute encourages physical activities and overall well-being, ensuring students have a balanced lifestyle.

These features collectively make the Institute of Pharmacy at Nirma University a nurturing ground for future leaders in the field of pharmacy, combining academic rigor with practical experience and personal development.

SECTION B

Student Centric Information

ABOUT THE PROGRAMME

The Pharm.D. program at the Institute of Pharmacy, Nirma University, is a comprehensive six-year, full-time Doctor of Pharmacy course designed to provide in-depth knowledge and practical experience in the field of pharmacy. The curriculum is structured to span six academic years, which includes five years of academic study followed by a one-year internship or residency. Each academic year consists of at least 200 working days, ensuring thorough coverage of the course material.

The six-year duration is divided into two distinct phases. Phase I encompasses the first five academic years, where students undertake rigorous training in foundational and advanced pharmacy education. This phase includes extensive theoretical learning, hands-on laboratory work, and engaging in research projects. These five years are designed to build a robust understanding of pharmaceutical sciences, integrating subjects such as medicinal chemistry, pharmacology, pharmaceutics, and pharmacy practice.

Phase II is dedicated to an intensive internship or residency during the sixth year, providing students with critical hands-on experience in clinical settings. Throughout this year, students rotate through various specialty units, allowing them to gain practical insights into multiple facets of pharmacy practice, including hospital, community, and clinical pharmacy. This real-world exposure is essential for developing clinical skills and professional acumen, ensuring students are well-equipped to address the dynamic challenges of the healthcare industry.

During this phase, students work under professional supervision, which is crucial for building the competence and confidence needed to function independently as pharmacists. The comprehensive nature of the program ensures that graduates are not only adept at patient care but are also capable of contributing significantly to the advancement of pharmaceutical sciences. By combining rigorous academic training with practical clinical experience, the Pharm.D. program at Nirma University aims to produce highly skilled pharmacists who are ready to make impactful contributions to healthcare and research.



PROGRAMME LEARNING OUTCOMES

No. Program Outcomes

- PO1** **Pharmacy Knowledge:** Possess comprehensive and core knowledge associated with the profession of pharmaceutical sciences; behavioral, social, administrative pharmacy sciences; and clinical pharmacy and biomedical literature, drug action and patient centered care.
- PO2** **Planning Abilities:** Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills in drug information services, pharmacovigilance and therapeutic drug monitoring.
- PO3** **Problem analysis:** Utilize observational, analytical and critical thinking skills to solve the real-world problems based on evidences and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make responsible decisions related to pharmaceutical care.
- PO4** **Modern tool usage:** Acquire and apply digital technologies and resources with an understanding of the strength and limitations in the field of pharmacy practice and health care sciences.
- PO5** **Leadership skills:** Initiate and empower team building and inter-professional team based care to fulfill professional and societal needs when appropriate to facilitate improvement in health and well-being.
- PO6** **Professional Identity:** Understand, analyze and communicate the altruism, integrity, trustworthiness, flexibility and respect of their professional roles in society (e.g., health care professionals, promoters of health, educators, managers, employers, employees).
- PO7** **Pharmaceutical Ethics:** Uphold highest standards of ethical and legal codes of practice as per laws and regulations governing the profession while making decisions and taking responsibility for the outcomes associated with the decisions.
- PO8** **Communication:** Communicate effectively and empathetically with the pharmacy community, patients, healthcare professionals and with society at large.
- PO9** **The Pharmacist and society:** Develop and implement epidemiological and pharmacoeconomic studies to facilitate evidence-based approaches for treatment and societal health and wellness.
- PO10** **Environment and sustainability:** Ability to develop sustainable solutions in health care, societal and environment context.
- PO11** **Life-long learning:** Recognize the need for self-reflective, self-critical willingness for continuous personal and professional improvement through independent and life-long learning in the broadest context to drug therapy management and interpretation of data using relevant approaches.

COMPONENTS OF COURSES

The academic schedule of the courses may consist of one or more of the following components with their respective scope as described.

Lecture

Teaching learning sessions conducted through real and virtual classrooms with various multimedia aids and other forms of students learning engagements as per requirement of the course and approved by the Dean.

Tutorial

Supplementary to classroom teaching and as per Nirma University Tutorial Policy and as amended from time to time in accordance with PCI regulations.

Practical Work (LPW)

Supplementary to classroom teaching and professional preparation as per Practical Work Policy of the Institute and as amended from time to time.

Hospital Posting

Every student shall be posted in constituent hospital for a period of not less than fifty hours to be covered in not less than 200 working days in each of second, third- & fourth-year course. Each student shall submit report duly certified by the preceptor and duly attested by the Head of the Department or Institution as prescribed. In the fifth year, every student shall spend half a day in the morning hours attending ward rounds on daily basis as a part of clerkship. Theory teaching may be scheduled in the afternoon.

Internship

Internship is a phase of training wherein a student is expected to conduct actual practice of pharmacy and health care and acquires skills under the supervision so that he or she may become capable of functioning independently.

Project work

The Pharm.D. program includes a project work component designed to enhance students' skills in data collection and reporting within community, hospital, and clinical pharmacy settings. This project is conducted under the supervision of a faculty member and must be approved by the Head of the Department or Head of the Institution. Project topics are announced within one month

of the commencement of fifth-year classes. Upon completion, the project is presented as both a written report and a seminar at the end of the academic year. Assessment is conducted by both external and internal examiners. The project work encompasses defining the objectives, employing appropriate methodologies, analyzing results, engaging in discussions, and drawing conclusions. This comprehensive approach ensures students gain practical research experience and develop critical analytical skills essential for their professional growth.



EXAMINATION

The examination system in the Pharm.D. program is designed to encourage systematic and continuous study among students. Continuous Evaluation (CE), laboratory work (LPW), and project work are assessed regularly. Students are required to maintain regular attendance and complete all assignments and practicals to acceptable standards.

Each academic year includes an annual examination and a supplementary examination, with both written and practical (including oral) components. The examinations are held twice a year, with the annual examination being the first and the supplementary examination the second. The maximum marks for each part of a course are specified in the Teaching and Examination Scheme.

To pass, a student must secure at least 50% marks separately in the theory examinations, including sessional marks, and at least 50% marks in each of the practical examinations, also including sessional marks. The Year End Examination (YEE) covers the entire syllabus and is conducted at the end of each year. For students who receive an F grade in a current semester, supplementary examinations (SPE) may be offered after the YEE under IR registration.

For detailed information on grades, passing standards, and related matters, refer to the Academic Rules and Regulations section in the program booklet.



INSTITUTE OF PHARMACY, NIRMA UNIVERSITY**ACADEMIC CALENDAR****FOR PHARM.D. FIRST YEAR**

[July 2024 to April 2025]

PHARM.D. YEAR I

Semester Commencement	29-07-2024
Orientation Week	29-07-2024 to 03-08-2024
Teaching Starts	05-08-2024
- Sessional Examination	07-10-2024 to 09-10-2024
- Diwali Vacation	28-10-2024 to 02-11-2024
- Sessional Examination	30-12-2024 to 01-01-2025
- Sessional Examination	24-03-2025 to 26-03-2025
Teaching Ends	26-04-2025
Semester Ends	26-04-2025
Semester End Examination (SEE)	28-04-2025 to 02-05-2025
Final Lab (LPW) Examinations	03-05-2025 to 09-05-2025
Commencement of Next Semester	30-06-2025

Event

Foundation Day	01-10-2024
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Holidays

Independence Day	15-08-2024
Rakshabandhan	19-08-2024
Janmashtami	26-08-2024
Samvatsari / Ganesh Chaturthi	07-09-2024
Mahatma Gandhi's Jayanti	02-10-2024
Dussehra (Vijya Dashmi)	12-10-2024
Guru Nanak's Jayanti	15-11-2024
Christmas	25-12-2024
Makar Sakranti	14-01-2025
Republic Day	26-01-2025
Maha Shivratri	26-02-2025
Holi 2nd Day - Dhuleti	14-03-2025
Eid ul Fitr (Ramzan Eid)	31-03-2025
Ram Navami	06-04-2025

PROGRAMME MANAGEMENT TEAM

Key-Persons Number	Name	E-mail ID	Extension
Program Coordinator	Dr. Shital Panchal	shital.panchal@nirmauni.ac.in	728
Office Superintendent	Ms. Telgy James	os.ip@nirmauni.ac.in	714
Student Section In-charge	Dr. Mayur Patel	mayurpatel@nirmauni.ac.in	727
Institute Examination In-charge	Dr. Niyati Acharya	niyati.acharya@nirmauni.ac.in	721

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POST DOCTORAL POSITION

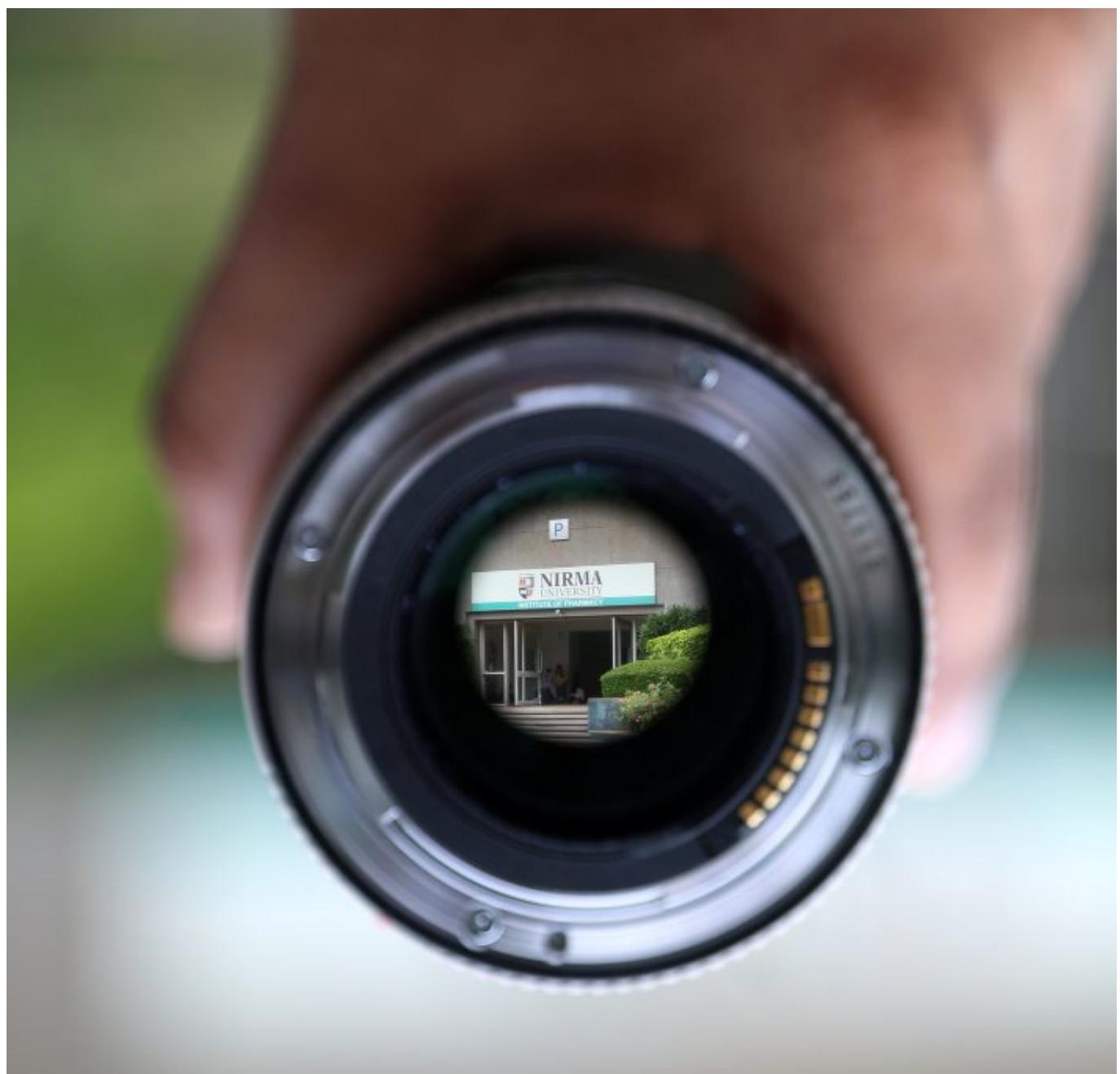
1	Dr. Anshu Srivastava			anshu.srivastava@nirmauni.ac.in
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NON-ACADEMIC STAFF CONTACT DETAILS

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STUDENT ACTIVITIES

Orientation Program

The Institute organizes a unique orientation programme of about one week for all new entrants in order to enhance familiarity, and to acclimatize the freshers to the academic and social environment of the campus. Various lectures on Prospects of Pharmacy Education, Time Management, Stress Management, Human Relations, Positive Attitude, Communication Skills, etc. are delivered by eminent speakers to the students. This programme enables the students and faculty to interact and understand each other. It also provides smooth transition from school life to a new environment of professional studies.

Co-curricular Activities

The Institute gives due importance to projects, industrial visits and training during academic breaks to support curricular work of the students. The students are motivated to present seminars on latest developments in the field of pharmaceutical sciences, which helps to enhance their library reading, scientific writing and presentation skills. The students have participated at various National and State Level competitions and have also won awards. The Institute also regularly organizes a National level Quiz "NIRMAQUEST". Extensive participation is received from institutions of the state as such a competition provides the students a platform to bring out their communication skills and general, factual and scientific knowledge. The Various carrier guidance seminars been regularly been organized for the students through the series of seminars. The students were encouraged to participate in the various co-curricular activities outside the campus also. Various industry visits used to be planned for the students for exploring them in the industry world.



Extra-Curricular Activities

The Institute organizes every year cultural festival "ROSTRUM", which are competitions of various events like drama, skits, dances, songs & pinnacle, where the students demonstrate their skills and the budding artists show their talents. "EUPHORIA" is a dedicated program conducted for first year students to provide a platform to new students for participation in various extra-curricular activities. Sports events are also regularly organized every year. Celebrations of Independence Day and Republic Day are also organized. Pharmacist day Celebration, Foundation Day & Teachers Day celebration are other events which are routinely planned at the institute level. Inter-institute competitions are also being organized and students of Institute of Pharmacy participate in NUZEAL and one act play competition at University level. Students are also participating in various competitions outside Nirma University such as the west zone level youth festival organized by AIU in drama, music, art and craft and literary events.

Sports

At the Institute of Pharmacy, Nirma University, we prioritize the all-round development of our Pharm.D. students by promoting physical fitness and fostering qualities such as leadership, teamwork, and sportsmanship through a variety of athletic and non-athletic activities. Throughout the year, students have the opportunity to participate in numerous sports competitions, which include:

- Running Events: 100m, 200m, 400m, 800m, and 1500m races.
- Throwing Events: Shotput, discus throw, and javelin throw.
- Jumping Events: Long jump and triple jump.
- Indoor Games: Chess, carrom, and table tennis.
- Racquet Sports: Lawn tennis and badminton.
- Traditional Indian Sports: Kabaddi and kho-kho.
- Team Sports: Cricket, basketball, football, and volleyball.



These activities are designed not only to enhance physical fitness but also to inculcate a sense of camaraderie and competitive spirit among students. By participating in these diverse sports, students develop essential life skills that complement their academic achievements, contributing to their holistic growth and preparation for future challenges. Student Welfare Board of Nirma University organises annual sports competition and Winners are encouraged to participate in Inter-University sports tournaments and youth festivals. Additionally, some adventure activities like mountaineering camps at Himalaya, Desert Adventure Camp, etc. are also organised.

Extension Activities

Institute of Pharmacy, Nirma University aims at developing not only good professionals but also making socially responsible individuals. The social extension activities make the students aware of societal needs and through this the students are actively involved in different activities such as cleanliness drive, plantation drive, old age home visit, etc. To create awareness among the students, the Institute also organises expert lectures and field visits related to this area.

The National Service Scheme (NSS) is an Indian government-sponsored public service programme conducted by the Ministry of Youth Affairs and Sports. Institute of Pharmacy has vibrant NSS team members who regularly contribute to the well-being of Jaspur village, adopted by the institute. There are two types of activities: Regular Activities [running throughout the year] and Annual Special Camp [one-week residential camp]. All the NSS volunteers who have served NSS for at least two years and performed 240 hours of work under the NSS programme are entitled to a certificate from the university.



STUDENT ASSOCIATIONS

INSTITUTE OF PHARMACY NIRMA UNIVERSITY ALUMNI ASSOCIATION (IPNUAA)

IPNUAA fosters robust networking with alumni through a diverse array of initiatives. These include engaging alumni as guest speakers, visiting faculty, members of the Institutional Quality Assurance Cell (IQAC-I), and members in the Board of Studies. Moreover, alumni are invited to share their expertise and insights with current students through technical talks and career guidance sessions, enhancing the students' access to valuable knowledge and professional connections. Our alumni members residing abroad actively contribute by conducting online webinars. Additionally, IPNUAA hosts regular events such as the annual alumni meet and sector-specific networking gatherings. These occasions provide an invaluable platform for final year students to interact with alumni, facilitating meaningful connections and enhancing career prospects.

NIRMA INSTITUTE OF PHARMACY STUDENTS' ASSOCIATION (NIPSA)

Nirma Institute of Pharmacy Students' Association (NIPSA) empower students to organize co-curricular & extra-curricular programmes, guest lectures, and talent events independently which develops team work, managerial and leadership skills in the students. Various Clubs like Entrepreneurship Club, Design Club, Literature Club, Drama Club, Photography Club, etc. provide overall development of the students of the Institute.



OTHER ACTIVITIES

Nirma Quest

Nirma Quest, an annual state-level quiz competition for pharmacy and other disciplines is organized by the Institute of Pharmacy at Nirma University. The competition features various rounds, including passable questions, non-passable questions, and rapid-fire questions, culminating in buzzer rounds for audio, video, pictogram, and mega memory in the final round. This results in a captivating competition, with winners receiving certificates and cash prizes.

Ramzat

Ras-Garba is organized after Navratri festival. All students, staff members, faculty members, HODs and HOIs of constituent institutes of Nirma University and officers of the University join this festival. The winners in different categories are awarded trophies.

Celebration of National Days

On the occasion of Independence Day, the University organises the flag hoisting ceremony at its campus. Renowned dignitaries from the various walks of life are invited as the Chief Guest for the occasion. A patriotic song competition is conducted on this occasion as a mark of respect for our freedom fighters. On the occasion of the Republic Day, the University conducts an array of events, including the flag hoisting ceremony where dignitaries are invited as the Chief Guest, plus an exhibition of photographs shot by university students is opened for all, to name a few.

International Day of Yoga

The United Nations General Assembly declared 21st June as International Day of Yoga. To mark the occasion, the Government of India celebrates this day in a befitting manner all over the country. In the same vein, the University celebrates International Day of Yoga in its campus every year. All University officers, teaching and non-teaching staff, perform yoga under a trainer in the morning.

STUDENTS' WELFARE BOARD AT NIRMA UNIVERSITY

At the Nirma University, the Students' Welfare Board (SWB) is dedicated to fostering the social, cultural, and spiritual growth of students through a variety of activities throughout the year. These initiatives are designed to promote holistic development and ensure a vibrant campus life.

The annual sports competitions include a wide range of events such as cricket, football, volleyball, basketball, kho-kho, kabaddi, lawn tennis, badminton, table tennis, carom, chess, and athletics. These competitions are held at both the institute and inter-institute levels, encouraging students to engage in physical activities and develop team spirit. Additionally, adventure activities like mountaineering camps in the Himalayas and desert adventure camps are organized periodically to instill a sense of adventure and resilience among students.

Cultural activities play a pivotal role in the overall development of students, helping them acquire essential soft skills such as resource management, public speaking, teamwork, leadership, and ethics. The university is equipped with state-of-the-art infrastructure to support a variety of cultural activities, including musical performances, dance, theatre, painting, and fashion shows. The most anticipated cultural event, NUZEAL, is organized annually, showcasing the diverse talents of students.

The Students' Welfare Board also addresses important social issues through cultural events, covering topics such as gender equality, exploitation in education, the importance of morals and ethics, patriotism, communal harmony, global citizenship, and environmental issues. Moreover, the university actively encourages student participation in various state and national level cultural activities held at different institutions and universities across the country.

A highlight of the cultural calendar is the annual Ras-Garba Mahotsav (RAMZAT), celebrated on the first Saturday after Navratri. This event brings together students and faculty to enjoy Garba, the traditional dance form of Gujarat, fostering a sense of community and cultural pride.

Overall, the Students' Welfare Board ensures a well-rounded and enriching experience for all students, contributing significantly to their personal and professional development.

AWARD OF MEDALS

Nirma University Gold Medals

At Nirma University, the prestigious Gold Medals are instituted to recognize outstanding scholastic performance. These medals are awarded to students demonstrating exceptional academic achievements across various disciplines under the university. The awards are presented during the Convocation ceremony of the respective degree program.

Criteria for the Award:

- *One Gold Medal is awarded to the student who secures the first position in the Pharm.D. program.*
- *The overall Program Grade Point Average (PGPA) at the end of the final year of the program is considered.*

Norms for awarding medals include:

- *Passing and earning all the credits for all courses in all years of the program on the first attempt within the stipulated time frame.*
- *Securing the highest PGPA, with a minimum PGPA requirement of 5.00.*
- *Having no punitive actions taken against them for using unfair means during examinations (except warnings) or for any indiscipline behavior resulting in major penalties.*

These criteria ensure that the Gold Medal is awarded to students who not only excel academically but also demonstrate integrity and discipline throughout their academic journey.

Award of NERF (Nirma Education and Research Foundation) Medals

Every year, NERF medals are awarded to the students of different Institute for their scholastic performance. These medals are awarded to the student who perform well in their respective years and reached the top position. To achieve these medals, the students are required to meet certain norms as prescribed by the University which is subject to amendment by the competent authority from time. In addition to this, students are also recognized with awards and certificates for their skills in curricular, co-curricular and extra-curricular activities. These medals and certificates are normally given during the Foundation Day Celebrations of the Institute.

Book Bank Services to students

The Library Resource Center at the Institute of Pharmacy, Nirma University, offers a valuable Book Bank Service to support students. This service is specifically designed to assist needy meritorious students by providing them with essential textbooks and reference materials. The primary aim is to ensure that all students have equal access to the necessary academic resources, thereby promoting educational equity and academic excellence. Through this initiative, the institute strives to reduce financial burdens and enhance the learning experience, enabling students to achieve their full potential without the constraint of resource availability.



GUIDELINES FOR SHOWING THE ASSESSED ANSWER BOOKS

- The process of showing the assessed answer books after the declaration of results should be completed within the first week of commencement of the next year as per the announcement of Academic Calendar or in the first week after the declaration of the result whichever is later.
- Examination Section will prepare a notice of showing the assessed answer books to the student and same notice will be put on notice board for the information of the students.
- HOI concerned will appoint the Convener from the Institute of Pharmacy Examination Committee.
- Until the said process gets over, the custody of the assessed answer books will remain with the Institute under the supervision of Coordinator of Examination department at the Institute.
- Modality of showing the assessed answer books in the classroom to the interested students should be decided by the concerned HOIs.
- The appointed Convener from the Examination Committee will take due care while showing the assessed answer books to the students to avoid any Unfair-means used or answer book does not lost for which the person who is assigned the job will take care with the help of Assistant / Laboratory Assistant as a supporting staff can be provided by HOI.
- The re-evaluation is permitted in the Year End Examination / Supplementary Examination for Theory courses as per university norms on chargeable basis.
- According to the guidelines set by the Head of Institute (HOI), the Coordinator of the Examination Department, assisted by the supporting staff, will issue sealed packets of assessed answer books to the designated Convener. These individuals will show the assessed answer books to interested students. An issue register will be maintained, recording the number of assessed answer books distributed and received. Both the issuing and receiving authorities will sign the register to confirm the transaction.
- When showing assessed answer books to students, if any errors are found—such as mistakes in totalling marks, transferring marks from inside pages to the front page, or unassessed answers—the person responsible should report these issues using the prescribed format. The identified answer books, along with the remaining assessed answer books, should be returned in a sealed packet to the Coordinator of the Examination Department.
- All cases of correction should be sent to the Dy. Registrar (Examination) in University in sealed cover on the same day for further process.

SECTION C

Teaching and Examination Scheme

TEACHING SCHEME:

The Teaching and Examination Scheme at the Institute of Pharmacy, Nirma University, outlines the structure and methodology for delivering the Pharm.D. program. This scheme encompasses various courses, the distribution of teaching hours, course components, examination components, their weightages, and the credits allotted to each course. The detailed teaching schemes for each academic year, including the courses offered, are approved periodically by the Academic Council based on the recommendations of the Faculty of Pharmacy.

EXAMINATION SCHEME:

Student assessment in the Pharm.D. program is comprehensive, involving multiple components:

A) Sessional Examination (SE):

There will be three periodic sessional examinations each academic year. The highest aggregate of any two performances will be used to calculate the sessional marks.

B) Practical Examination (PRE):

This includes various subcomponents as prescribed by the Pharmacy Council of India, such as Synopsis, Major and Minor Experiments, and Viva Voce. Practical work assignments are continuously and periodically assessed throughout the year.

C) Year-End Examination (YEE):

Conducted at the end of the academic year, covering the entire syllabus of the course. The teaching and examination schemes for each course in the Pharm.D. program are detailed in the Year Schedules, which are periodically approved by the Academic Council on the recommendation of the Faculty of Pharmacy. The assessment criteria for SE and PRE differ depending on the nature and structure of the respective courses. The detailed assessment schemes for SE, PRE, and YEE are finalized and notified in the course outline by the Dean, in accordance with the assessment policy approved by the Academic Council.

This structured approach ensures a systematic and thorough evaluation of students' knowledge and skills, promoting continuous learning and academic excellence.

Teaching and Examination Scheme (Yearwise)

The Academic Council shall approve the teaching and examination scheme, syllabus and all relevant academic matters including modifications, addition, deletion etc., on the recommendation of Faculty of Pharmacy.

First Year Pharm.D.

Sr. No.	Course Code	Course Title	Teaching Scheme				Examination Scheme					
			No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial	Credit	Duration of Examination		Marks for Theory		Marks for Practical	
							YEE	PRE	YEE	SE	YEE	SE
1	PD101	Human Anatomy and Physiology	3	3	1	12	3.0	4.0	70	30	70	30
2	PD102	Pharmaceutics	2	3	1	10	3.0	4.0	70	30	70	30
3	PD103	Medicinal Biochemistry	3	3	1	12	3.0	4.0	70	30	70	30
4	PD104	Pharmaceutical Organic Chemistry	3	3	1	12	3.0	4.0	70	30	70	30
5	PD105	Pharmaceutical Inorganic Chemistry	2	3	1	10	3.0	4.0	70	30	70	30
6	PD106RM /PD106RB	Remedial Mathematics\$ Remedial Biology#	3	3#	1	8\$/12#	3.0	3.0#	70	30	70#	30#
		Total	13/ 16\$#	18	6	56/ 64\$/ 68#						

PRE: Practical Examination

YEE: Year End Examination

SE: Sessional Examination

#Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

\$Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course

Second Year Pharm.D

Sr. No.	Course Code	Course Title	Teaching Scheme				Examination Scheme					
			No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial	Credit	Duration of Examination		Marks for Theory		Marks for Practical	
							YEE	PRE	YEE	SE	YEE	SE
1	PD201	Pathophysiology	3	-	1	8	3.0	-	70	30	-	-
2	PD202	Pharmaceutical Microbiology	3	3	1	12	3.0	4.0	70	30	70	30
3	PD203	Pharmacognosy & Phytopharmaceuticals	3	3	1	12	3.0	4.0	70	30	70	30
4	PD204	Pharmacology-I	3	-	1	8	3.0	-	70	30	-	-
5	PD205	Community Pharmacy	2	-	1	6	3.0	-	70	30	-	-
6	PD206	Pharmacotherapeutics-I	3	3	1	12	3.0	4.0	70	30	70	30
		Total	17	9	6	58						

PRE: Practical Examination

YEE: Year End Examination

SE: Sessional Examination

Third Year Pharm.D

Sr. No.	Course Code	Course Title	Teaching Scheme				Examination Scheme					
			No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial	Credit	Duration of Examination		Marks for Theory		Marks for Practical	
							YEE	PRE	YEE	SE	YEE	SE
1	PD301	Pharmacology-II	3	3	1	12	3.0	4.0	70	30	70	30
2	PD302	Pharmaceutical Analysis	3	3	1	12	3.0	4.0	70	30	70	30
3	PD303	Pharmacotherapeutics-II	3	3	1	12	3.0	4.0	70	30	70	30
4	PD304	Pharmaceutical Jurisprudence	2	-	-	4	3.0	-	70	30	-	-
5	PD305	Medicinal Chemistry	3	3	1	12	3.0	4.0	70	30	70	30
6	PD306	Pharmaceutical Formulations	2	3	1	10	3.0	4.0	70	30	70	30
		Total	16	15	5	62						

PRE: Practical Examination

YEE: Year End Examination

SE: Sessional Examination

Fourth Year Pharm.D.

Sr. No.	Course Code	Course Title	Teaching Scheme				Examination Scheme					
			No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial	Credit	Duration of Examination		Marks for Theory		Marks for Practical	
							YEE	PRE	YEE	SE	YEE	SE
1	PD401	Pharmacotherapeutics-III	3	3	1	12	3.0	4.0	70	30	70	30
2	PD402	Hospital Pharmacy	2	3	1	10	3.0	4.0	70	30	70	30
3	PD403	Clinical Pharmacy	3	3	1	12	3.0	4.0	70	30	70	30
4	PD404	Biostatistics & Research Methodology	2	-	1	6	3.0	-	70	30	-	-
5	PD405	Biopharmaceutics & Pharmacokinetics	3	3	1	12	3.0	4.0	70	30	70	30
6	PD406	Clinical Toxicology	2	-	1	6	3.0	-	70	30	-	-
		Total	15	12	6	58						

PRE: Practical Examination

YEE: Year End Examination

SE: Sessional Examination

Fifth Year Pharm.D.

Sr. No.	Course Code	Course Title	Teaching Scheme				Examination Scheme					
			No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial	Credit	Duration of Examination		Marks for Theory		Marks for Practical	
							YEE	PRE	YEE	SE	YEE	SE
1	PD501	Clinical Research	3	-	1	8	3.0	-	70	30	-	-
2	PD502	Pharmacoepidemiology and Pharmacoeconomics	3	-	1	8	3.0	-	70	30	-	-
3	PD503	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	-	1	6	3.0	-	70	30	-	-
4	PD504	Clerkship *	-	-	1	2	-	-	-	-	70	30
5	PD505	Project work (Six Months)	-	20	-	8	-	-	-	-	100**	
		Total	8	20	4	32						

PRE: Practical Examination YEE: Year End Examination

SE: Sessional Examination

* Attending ward rounds on daily basis

** 70 Marks for Thesis work and 30 marks for Viva voce

Sixth Year Pharm.D.

Sr. No.	Course Code	Course Title	Teaching Scheme				Examination Scheme					
			No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial	Credit	Duration of Examination		Marks for Theory		Marks for Practical	
			YEE	PRE	YEE		YEE	SE	YEE	SE	YEE	SE
1	PD601	Hospital Residency Training (Internship) #	-	-	-	40	-	-	-	-	100**	-

PRE: Practical Examination YEE: Year End Examination

SE: Sessional Examination

Six months in General Medicine department, two months each in three other speciality departments

** 70 Marks for Thesis work and 30 marks for Viva voce

SECTION D

Academic Rules and Examination Regulations

ACADEMIC RULES AND REGULATIONS

Definitions in these Regulations, unless the context otherwise requires:

Programme	Pharm. D. (Doctor of Pharmacy)
Course	One of the constituent subjects of the Programme
Term	An academic year. The words "Term" and "Academic Year" are generally used synonymously.
Registration	Procedure for registering the course in the academic year.
Letter Grade	A letter associated with a particular performance level of the student. A qualitative meaning and a numerical index are attached to each grade. O to D is Passing grades, F and Abs – Fail
Credit	A numerical figure associated with a course. On passing the course, the student earns this "credit"
Granting a year	This expression is used to indicate whether the in-academic year performance of the student is up to acceptable standards. GT – Term granted, NT – Term not granted

Short forms

The Institute	The Institute of Pharmacy
The Director	The Director, Institute of Pharmacy
Faculty	Faculty of Pharmacy
The Dean	The Dean, Faculty of Pharmacy
HoD	Head of concerned Department
IR	Initial Registration
RS	Repeat Registration for Studying all components of a course
RRE	Repeat Examination Registration
LPW	Laboratory/Project work
SE	Sessional Examination
YEE	Year End Examination
SPE	Supplementary Examination

CATEGORIES OF COURSES

The following categories of courses are offered in the programme.

Core Courses

The courses to be compulsorily studied by the students as a core requirement to complete the academic requirement of the programme as described by Pharmacy Council of India. Credits earned for these courses will be as per rules of Nirma University/ considered for evaluating the academic performance levels of the student.

Value Added Courses

They are offered to the students to provide an additional exposure to certain skills/knowledge. This is a Non-credit course. The Dean of the Faculty of Pharmacy is empowered to decide these courses, their curriculum, teaching and examination schemes, passing standards, etc. in accordance with the value-added course policy approved by the academic council

Credit assignment

In the Credit Based System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, internship, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

Core courses

Core courses consist of lecture (L) and /or tutorial (T) hours, Practical (P), Hospital posting and Internship. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the academic year carries a credit of 8. Similarly, a practical having four laboratory hours per week throughout the academic year carries a credit of 4.

Minimum credit requirements

The minimum credit points required for award of a Pharm.D. degree is 354. These credits are divided into different components of courses like, Theory, Tutorials, Practical, Hospital posting, Internship over the duration of six year. The credits are distributed academic year-wise as shown as under:

Academic Year wise credits distribution:

Academic Year	Credit Points
I	56/64\$/68#
II	58
III	62
IV	58
V	32
VI	80
Total credit points for the programme	354/ 362\$ / 366#

\$ Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.

Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the academic year-wise schedule of courses given in the syllabus.

Academic work

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.

Course of study

The course of study for Pharm.D. shall include Year Wise Theory, Practical, Tutorial, Hospital posting, Internship as approved by Academic Council from time to time.

EXAMINATION RULES AND REGULATIONS

For assessment of the core course, each component corresponds to certain examination/s. These examinations are as follows.

CORE COURSES– Year End Examination of Theory, Practical, Hospital posting, Internship Internal Assessment (includes sessional exams) of Theory, Practicals, Hospital posting, Internship

Registration in Courses

There will be three categories of Registrations. All three categories will be collectively referred to simply as Registration. Individual categories will be referred to by their symbols as given below:

- IR - Initial Registration
- RS - Repeat Registration for studying all components of a course
- RRE - Re-examination Registration for all component of a course

All Registrations, wherever applicable, will be subject to availability of courses. Registration will be done course-wise.

Initial Registration (IR) -

In order to study a course for the first time, the student will register under the IR category. This will imply regular attendance for study of all components of that course and appearing at all examinations thereof.

IR registrations for courses of a year are to be done for all courses of that Year as shown in the Teaching Scheme; IR registration will not be permitted for a lesser number of courses. The student who so registers (IR) for all courses of a year will be considered as having been registered in that year.

New entrants admitted to the programme on the basis of HSCE or equivalent will register (IR) for the first year.

Repeat Registration for studying all components of a course (RS) -

The student whose Term is not granted, due to shortfall in attendance or disciplinary issues, for any registered course will repeat the study of all components of a course. The student will seek fresh registration for this purpose.

This category will imply regular attendance to study all components (i.e. Lecture, Practical, Hospital posting, Internship as applicable) and appearing at all examinations thereof.

Re-examination Registration for all component of a course (RRE)-

This registration is necessary for appearing YEE again in all (theory, practical, hospital posting, internship) components of a course. It will not involve regular teaching for studying that course.

Approval of Registration

Every student must apply in the prescribed form for registrations, as applicable. The decision on the student's request will be based on the availability of courses and applicable Regulations. The

Director/HOI will issue appropriate orders for processing the application, including scrutiny, verification and final orders.

Simultaneous Registration and Re-registration

- (a) All re-registrations as applicable must be done before any registration.
- (b) Partial registration in the scheduled courses of a year is not permitted.
- (c) A student will be permitted to register for higher year after meeting requirements.

Scope of Examinations and Assessment

In order to pass a course, the students will have to pass all examinations of theory and practical of that course. The scope of the examinations and the method of assessment will be as follows:

Examiners

All Sessional/Continuous assessments will be carried out by the faculty concerned. All other assessments / examinations will be carried out by a panel of at least two examiners. The extent of associating external experts with the examination, selection and appointment of all examiners will be decided by the Dean in consultation with a committee appointed for this purpose.

In all mark-based assessment, the overall percentage marks, if fractional, will be rounded off to the next higher integer value.

Sessional/ Internal Assessment (IR, RS registration)

All exercises in Sessional/Internal Assessment will be continuously assessed during the year and given marks.

Award of sessional marks and maintenance of records:

- (1) A regular record of both theory and practical class work and examinations conducted in the institute shall be maintained for each student at the institute
- (2) Total 30 marks for each theory and 30 marks for each practical subject shall be allotted as sessional.
- (3) There shall be three periodic sessional examinations (for theory) during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.

The year wise assessment will be carried out based on the schemes for Sessional/Internal Assessments and Year End Examinations as approved by the Academic Council, from time to time.

Year End Examination (YEE)

The expression "Year End Examination" refers to the Written, Practical and/or Oral examination of a respective course taken at the end of an academic year. This will cover the entire syllabus of a particular course.

Supplementary Examination (SPE) (RRE registration, grade F or Abs in YEE)

The Institute may decide to hold Supplementary Examination after YEE for the students who have obtained grade F or Abs in YEE. Such students will have to seek RRE registration.

Schedule of YEE and SPE

YEEs of all courses of the programme, as per the teaching scheme, will be held at the end of academic years. The Year End Supplementary Examinations (SPE), if held, will be for only those courses that are offered in the year of that term.

Absence in any examination will be treated as absent (Abs) and no marks will be given.

ATTENDANCE REQUIREMENT TO APPEAR AT YEAR END EXAMINATION

- A student has to comply with the following condition course wise to be eligible to admit for Examination:
- Students under category of (IR, RS) should have at least 85% attendance, including Academic Leave on all teaching components of the course (applicable).
- Note: In the case of long duration training or project work, where final examination is not possible before the academic year ends, a certificate by the course coordinator that the student's progress is satisfactory will be acceptable.
- The student who has not completed the minimum requirement of attendance may appeal to the Appeal Committee (consisting of Director/Dean, and Two Senior Faculty Members nominated by Director) giving full reasons for his/her default. The decision of the Appeal Committee in all such cases will be final.
- If the committee rejects the appeal of the student, then the student will not be permitted to appear in SEE of the concerned course. Accordingly, S/he will also be given grade F in that course and S/he will have to seek RS category registration.

GRADES IN EXAMINATIONS

Based on the performances, each student shall be awarded a final letter grade at the end of the academic year for each course. The letter grades and their corresponding grade points are given as under:

Letter grades and grade points in each course equivalent to percentage of marks and performances

Percentage of marks Obtained	Letter Grade	Grade Point	Performances
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	Abs	0	Fail

Passing Standards

- A student shall be declared PASS and eligible for getting grade in a course if he or she secures at least 50% marks in that Subjects (course) separately in the theory examinations, including sessional marks and at least 50% marks in each of the practical examinations including sessional marks.
- Academic Progression: Eligibility for promotion to next year. All students who have appeared for all the subjects and passed the first-year annual examination are eligible for promotion to the second year and so on. However, failure in more than two subjects (Course: RS and RRE) shall debar him or her from promotion to the next year classes.
- A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VI years within the stipulated time period as per the norms specified.
- Grade Abs should be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any academic year.

PERFORMANCE LEVELS

Indices

The performance level of the student in credit courses at different stages of his/her study is given by the following indices. All index values will be rounded off to the second place of decimal.

AGPA -- Annual Grade Point Average

PGPA -- Progressive Grade Point Average

CGPA -- Cumulative Grade Point Average

AGPA - This grade point average is calculated when the student passes all the courses of the year and it refers to the progress of the student in a year.

PGPA - This grade point average is calculated at the end of any year upto the stage under consideration and it refers to the progress of the student.

CGPA - This grade point average refers to the entire programme. It is calculated when the student passes the programme. The method of calculation is the same as for AGPA or PGPA but the summation is for the courses of all years of the programme.

Class and percentage:

The students securing 60% marks or above in aggregate in all subjects in a single attempt at the Pharm.D. course examination shall be declared to have passed in first class. Students securing 75% marks or above in any subject or subjects shall be declared to have passed with distinction in the subject or those subjects provided he or she passes in all the subjects in a single attempt.

The class shall be awarded on the basis of CGPA as follows:

Distinction = CGPA of 8.00 and above

First Class = CGPA of 6.50 to 7.99

Second Class = CGPA of 6 to 6.49

In case an equivalence between CGPA values and Class / % marks is desired, the same can be obtained as given below:

$$\text{Percentage marks (\%)} = (\text{CGPA} - 0.5) * 10$$

CANCELLATION OF ADMISSION

The admission of following categories of students shall liable to be cancelled:

- Failure to the academic requirement for the award of Pharm.D. degree within 8 years from the date of admission.
- The student whose admission is so cancelled can appeal to the Appeal Committee. The Committee may grant an extension upto one additional year for the deserving case.

Notwithstanding anything contained above, if a student has cleared all the courses and have earned the requisite number of credits except one course, may appeal to the President. The President may consider such appeal on the recommendation of the appeal committee prescribed under the regulations for the purpose and after considering the genuineness of the case may give ONE more additional attempt to the student concerned to clear the remaining course.

AWARD OF DEGREE

To qualify for the award of Pharm.D. degree a student requires:

- a) PGPA 6.0
- b) Successfully complete the prescribed credits of the programme as specified in the Teaching and Examination Scheme
- c) Successfully complete Value-added courses(s) as notified by the Dean in the Teaching and Examination Scheme with a minimum passing grade, failing to which, s/he is required to improve the Value-added courses(s) grade in the scheme as prescribed by the Dean, Faculty of Pharmacy.

SECTION E

PHARM.D. Course Details

ASSESSMENTS OF COURSES IN PHARM.D. PROGRAM

A student has to secure at least 50% marks separately in the theory examinations, including sessional marks and at least 50% marks in each of the practical examinations including sessional marks.

A Student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of the same subject.

Continuous Mode of Examination (CM)

Sessional Exam 30% (Theory)

There will be three periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.

Sessional Exam: Three sessional exam (~ 1hour each)

- 1st Sessional Exam will be conducted on 10th week of study week
- 2nd Sessional Exam will be conducted on 21st Week of study week
- 3rd Sessional Exam will be conducted on 32nd Week of study week.

Exact dates of each course will be announced 20 days before the exam.

Sessional Exam 30% (Practical)

There will be one Practical sessional examination during each academic year. Practical examination shall also consist of a viva –voce (Oral) examination. Practical Sessional Exam will be conducted on 21st week of study week

- Duration of Practical Sessional Exam: 3 hours

Synopsis : 05 Marks

Major Experiment : 10 Marks

Minor Experiment : 03 Marks

Viva Marks : 02 Marks

- The sessional marks in practical's shall be allotted on the following basis:

(i) Actual performance in the sessional examination (20 marks)

(ii) Day to day assessment in the practical class work, promptness, viva-voce record maintenance, etc. (10 marks).

Final Theory Exam Weighted 70%

- 3-hour written examination
- Consists of two section, Section I and Section II.
- Section I: 35 Marks (Internal Examiner)

Objective type questions (5 Questions, 2 Marks each, No Choice)

Short Answer Questions (3 Questions, 5 Marks each, No Choice)

Long Answer Questions (1 Question, 10 Mark, Answer 1 out of 2, No subsections)

- Section I: 35 Marks (External Examiner)

Objective type questions (5 Questions, 2 Marks each, No Choice)

Short Answer Questions (3 Questions, 5 Marks each, No Choice)

Long Answer Questions (1 Question, 10 Mark, Answer 1 out of 2, No subsections)

4. Final Practical Examinations – 70%

- 4 hrs practical examination

Synopsis : 15 Marks

Major Experiment : 25 Marks

Minor Experiment : 15 Marks

Viva Marks : 15 Marks

Date of final exam to be confirmed by the examination office.

PHARM.D. COURSES SUMMARY

First Year Pharm.D.

Name of Course Human Anatomy and Physiology

Course Code PD101

Scope This course is designed to impart a fundamental knowledge on the structure and functions of the human body. It also helps in understanding both homeostasis mechanisms and homeostatic imbalances of various body systems. Since a medicament, which is produced by pharmacist, is used to correct the deviations in human body, it enhances the understanding of how the drugs act on the various body systems in correcting the disease state of the organs.

- References
- Tortora Gerard J. and Nicholas, P. Principles of anatomy and physiology
Publisher Harpercollins college New York.
 - Wilson, K.J.W. Ross and Wilson's foundations of anatomy and physiology.
Publisher: Churchill Livingstone, Edinburg.

Name of Course Pharmaceutics

Course Code PD102

Scope The Pharmaceutics course is crucial for PharmD students, focusing on the formulation aspects of various dosage forms. Students will learn to perform pharmaceutical calculations, formulate different types of dosage forms, and understand the significance of proper formulation for drug effectiveness. This knowledge ensures that future pharmacists can develop and assess safe, effective, and high-quality medications.

- References
- Cooper and Gunn's Dispensing for pharmaceutical students - Carter S. J.
 - Pharmaceutical Practice - Collett M., Aulton E.
 - Pharmaceutical Practice - Winfield, A. J., Richards R. M. E.
 - Pharmaceutical Compounding and Dispensing - Marriot, Wilson, Langley & Belcher
 - Pharmaceutical Calculation - H. C. Ansel
 - Pharmaceutics: The Science of Dosage Form Design - M.E. Aulton

Name of Course Medicinal Biochemistry

Course Code PD103

Scope This module offers an in-depth exploration of biochemistry with a focus on its medicinal applications. It is structured to provide students with a thorough understanding of biochemical processes at the cellular level and their clinical relevance. At the end of the course, students will have a solid understanding of the biochemical foundations of human health and disease, and the clinical applications of biochemistry in diagnosing and treating various medical conditions.

- References
- Harpers review of biochemistry – Martin
 - Text book of biochemistry – D. Satyanarayana
 - Principles of biochemistry – Lehninger

Name of Course Pharmaceutical Organic Chemistry

Course Code PD104

Scope This course provides essential knowledge for PharmD students by teaching the IUPAC/Common nomenclature for various organic compounds, understanding their important physical properties, and mastering key organic reactions and their mechanisms. Students will learn to prepare compounds, test for purity, and understand assay principles and medicinal uses, crucial for drug design, synthesis, and quality control in pharmaceutical practice.

- References
- T.R.Morrison and R. Boyd - Organic Chemistry,
 - Bentley and Driver-Text book of Pharmaceutical Chemistry
 - I.L.Finer- Organic chemistry, the fundamentals of Chemistry
 - Advanced organic chemistry- Jerry March, Wiley

Name of Course Pharmaceutical Inorganic Chemistry

Course Code PD105

Scope This course mainly deals with fundamentals of Analytical chemistry and practical applications necessary for pharmaceutical practice. The students will also study the inorganic pharmaceuticals regarding their monographs with basic knowledge of analysis of various pharmaceuticals.

- References
- Anand & Chetwal. Inorganic Pharmaceutical Chemistry
 - Kennedy, J.H. Analytical chemistry principles, Cengage Publishers
 - I.P.1985 and 1996, Indian Pharmacopoeial Commission, Ministry of health and Family Welfare, Govt. of India.

Name of Course Remedial Mathematics

Course Code PD106RM

Scope The Remedial Mathematics course provides a foundational understanding of essential mathematical concepts including trigonometry, analytical geometry, matrices, determinants, integration, differential equations, and Laplace transforms. This course equips students with the skills to solve various mathematical problems by applying theoretical knowledge and enhances their appreciation of the critical applications of mathematics in pharmacy, such as drug dosage calculations, pharmacokinetics, and pharmaceutical research.

- References
- Differential calculus By Shantinarayan
 - Text book of Mathematics for second year pre-university by Prof. B. M. Sreenivas

Name of Course Remedial Biology

Course Code PD106RB

Scope This is an introductory course in Biology, which gives detailed study of natural sources such as plant and animal origin. This subject has been introducing to the PharmD programme in order to make the student aware of various naturally occurring drugs and its history, sources, classification, distribution and the characters of the plants and animals. This subject gives basic foundation to Pharmacognosy.

- References
- Text book of Biology by S.B.Gokhale
 - A Text book of Biology by Dr.Thulajappa and Dr. Seetaram
 - Text book of Biology by B.V. Sreenivasa Naidu
 - A Text book of Biology by Naidu and Murthy

Second Year Pharm.D.**Name of Course Pathophysiology**

Course Code PD201

Scope 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. This course will not only help to students understand the basics of pathology, but also, they get baseline knowledge of its application in other subject of pharmacy.

- References
- Pathologic basis of disease by- Cotran, Kumar, Robbins
 - Text book of Pathology- Harsh Mohan
 - Text book of Pathology- Y.M. Bhinde

Name of Course Pharmaceutical Microbiology

Course Code PD202

Scope This course covers the classification, morphology, cultivation, identification, and maintenance of microorganisms. It includes sterilization techniques for pharmaceutical products and equipment, as well as the study of immunological preparations, disease transmission, diagnosis, control, and immunological tests. Practical skills in cultivating and identifying microorganisms, conducting diagnostic tests, and understanding microbial behavior are emphasized to ensure the safety and efficacy of pharmaceutical products.

- References
- Applied Microbiology – Vanitha Kale and Kishor Bhusari
 - Immunology and Serology in Laboratory Medicines – Mary Louis Turgeon
 - Fundamentals of Microbiology – Forbisher
 - Immunology – War Roitt, Jonathan Brostoff, David Male

Name of Course Pharmacognosy and Phytopharmaceuticals

Course Code PD203

Scope This course educates students on the medicinal uses of naturally occurring drugs, including their history, sources, cultivation, active constituents, and identification tests. It covers botanical identification, chemical characterization, and biological activities of plant-derived compounds, along with quality control of herbal medicines. Students learn to integrate herbal medicines into conventional therapies, assessing their efficacy, safety, and interactions. The course prepares future pharmacists to meet diverse patient needs and make informed therapeutic choices.

- References
- Pharmacognosy by G.E. Trease & W.C. Evans.
 - Pharmacognosy by C.K. Kokate, Gokhale & A.C. Purohit.
 - Pharmacognosy by T.E. Wallis.

Name of Course Pharmacology-I

Course Code PD204

Scope This course will provide an opportunity for the student to learn about the drug with regard to classification, pharmacodynamic and pharmacokinetic aspects, adverse effects, uses, dose, route of administration, precautions, contraindications and interaction with other drugs. In this course, apart from general pharmacology, drugs acting on autonomic nervous system, cardiovascular system, central nervous system, blood and blood forming agents and renal system will be taught. In addition to theoretical knowledge, the basic practical knowledge relevant to therapeutics will be imparted.

- References
- Tripathi, K. D. Essentials of medical pharmacology. 4th Ed, 1999.
Publisher: Jaypee, Delhi.
 - Satoskar, R.S. and Bhadarkar, S.D. Pharmacology and pharmacotherapeutics. 16th edition (single volume), 1999.
Publisher: Popular, Dubai.
 - Rang, H.P. & Dale, M.M. Pharmacology. 4th edition, 1999.
Publisher: Churchill Living stone.

Name of Course Community Pharmacy

Course Code PD205

Scope The Community Pharmacy course equips students with comprehensive pharmaceutical care skills and business management expertise for community pharmacies. Students will learn to counsel patients, provide health screening services, and respond to minor ailments with appropriate medications. The course emphasizes empathy and sympathy in patient interactions and promotes the concept of rational drug therapy, ensuring well-rounded and compassionate pharmacists.

- References
- Health Education and Community Pharmacy by N. S. Parmar.
 - WHO consultative group report.
 - Drug store & Business management by Mohammed Ali & Jyoti.

Name of Course Pharmacotherapeutics-I

Course Code PD206

Scope This course focuses on understanding the pathophysiology of selected disease states and the rationale for their drug therapies. Students learn therapeutic management approaches, address controversies in drug therapy, and prepare individualized therapeutic plans. Emphasis is placed on identifying patient-specific parameters for initiating and monitoring therapy, including clinical and laboratory indices of therapeutic response and adverse effects. This course ensures students can effectively manage and tailor treatments based on the latest evidence and patient needs.

- References
- Clinical Pharmacy and Therapeutics - Roger and Walker, Churchill Livingstone publication.
 - Pharmacotherapy: A Pathophysiologic approach - Joseph T. Dipiro et al. Appleton & Lange.
 - Clinical Pharmacy and Therapeutics - Eric T. Herfindal, Williams and Wilkins Publication.
 - Applied Therapeutics: The clinical Use of Drugs. Lloyd Young and Koda-Kimble MA.

Third Year Pharm.D.**Name of Course Pharmacology-II**

Course Code PD301

Scope This course will provide an opportunity for the student to learn about the drug with regard to classification, pharmacodynamic and pharmacokinetic aspects, adverse effects, uses, dose, route of administration, precautions, contraindications and interaction with other drugs. In this course students will learn, drugs acting on autacoids, respiratory system, gastrointestinal tract, immune system and hormones, and pharmacology of autacoids and hormones. In addition, pharmacology of chemotherapeutic agents, vitamins, essential minerals and principles of toxicology are also taught. In addition to theoretical knowledge students, will gain the basic practical knowledge relevant to therapeutics.

- References
- Tripathi, K. D. Essentials of medical pharmacology. 4th edition, 1999. Publisher: Jaypee, Delhi.
 - Satoskar, R.S. and Bhadarkar, S.D. Pharmacology and pharmacotherapeutics. 16th edition (single volume), 1999. Publisher: Popular, Dubai.
 - Rang, H.P. and Dale, M.M. Pharmacology. 4th edition, 1999. Publisher: Churchill Living stone.

Name of Course Pharmaceutical Analysis

Course Code PD302

Scope This subject offers an in-depth exploration of pharmaceutical analysis, QA principles, ISO and ICH guidelines, emphasizing regulatory compliance. It provides comprehensive coverage of chromatographic techniques and its advancements, electroanalytical and spectroscopic techniques. Additionally, it provides insights into specialized techniques such as polarimetry, X-ray diffraction, and thermal analysis. By the end of the course, students will have an in-depth understanding of these analytical methods and their applications in ensuring high standards of quality control in the pharmaceutical industry.

- References
- Textbook of Pharmaceutical Analysis – Higuchi and Hasen
 - Principles of Instrumental Analysis– Skoog
 - Vogel's Textbook of Quantitative Chemical Analysis – Vogel

Name of Course Pharmacotherapeutics-II

Course Code PD303

Scope Pharmacotherapeutics refers to the use of drugs for the prevention, treatment, diagnosis, and modification of normal functions (pregnancy prevention). The biochemical and microbiologic components of diseases are linked to pharmacodynamics and pharmacokinetics in this subject.

- References
- Clinical Pharmacy and Therapeutics - Roger and Walker, Churchill Livingstone publication.
 - Pharmacotherapy: A Pathophysiologic approach - Joseph T. Dipiro et al. Appleton & Lange.
 - Clinical Pharmacy and Therapeutics - Eric T. Herfindal, Williams and Wilkins Publication.
 - Applied Therapeutics:The clinical Use of Drugs. Lloyd Young and Koda-Kimble MA.

Name of Course Pharmaceutical Jurisprudence (Theory)

Course Code PD304

Scope This course is designed to impart basic knowledge on important legislations and understand their applications in the profession of pharmacy. Drugs and Cosmetics Act, along with its amendments are the core of this course as it provides regulations including the Pharmacy Act, Dangerous drugs act, medicinal and toilet preparation Act etc. are also covered in this course. Apart from the acts, this course covers the New drug policy, Professional ethics, DPCO, Patent and design Act.

- References
- A Text book of Forensic Pharmacy- B.M. Mithal.
 - Hand book of drug law-M.L. Mehra.
 - A text book of Forensic Pharmacy-N.K. Jain.
 - Drugs and Cosmetics Act/Rules - Govt. of India publications.
 - Medicinal and Toilet preparations act 1955 - Govt. of India publications.
 - Narcotic drugs and psychotropic substances act - Govt. of India publications.

- The Drugs and Magic Remedies act 1954 and rules 1955 - S.W.Deshpande.
- Reports of the Pharmaceutical Enquiry Committee.
- DPCO 1995- I.D.M.A.

Name of Course Medicinal Chemistry

Course Code PD305

Scope This Medicinal Chemistry course is vital for Pharmacy students as it covers the modern principles of rational drug design, including QSAR, prodrugs, combinatorial chemistry, CADD, and antisense molecules. The course explores the development of various drug classes, such as anti-infective agents, sulphonamides, antimalarials, antibiotics, antineoplastic agents, cardiovascular agents, hypoglycemic agents, thyroid agents, diuretics, diagnostic agents, and steroid hormones. Students will learn about structure-activity relationships (SAR), mechanisms of action, synthesis, nomenclature, brand names, and side effects, essential for understanding and developing effective and safe medications.

- References
- Wilson and Gisvold's Text book of Organic, Medicinal and Pharmaceutical Chemistry, Lippincott-Raven Publishers-New York, Philadelphia.
 - William.O.Foye, Principles of Medicinal Chemistry, B.I. Waverly Pvt. Ltd., New Delhi.
 - Burgers, Medicinal Chemistry, M.E.,Welly Med.Chemistry M.E. Walffed

Name of Course Pharmaceutical Formulations

Course Code PD306

Scope This course deals with the principles of formulating various pharmaceutical dosage forms. Students will learn to prepare and evaluate these formulations and understand the concepts of bioavailability and bioequivalence. This knowledge is crucial for developing effective medications and ensuring their optimal therapeutic performance in clinical settings.

- References
- Pharmaceutical dosage forms – Disperse Systems, Volume 1 to 3, Marcel Dekkar Inc. – HA Lieberman
 - Pharmaceutical dosage forms – Tablets, Volume 1 to 3, Marcel Dekkar Inc. – HA Lieberman

- Pharmaceutical dosage forms – Parenteral Medications, Volume 1 to 3, Marcel Dekkar Inc. – HA Lieberman
- Theory and Practice of Industrial Pharmacy – L Lachman, HA Lieberman
- Cooper and Gunn's Tutorial Pharmacy – SJ Carter

Fourth Year Pharm.D.

Name of Course Pharmacotherapeutics-III

Course Code PD401

Scope The Pharmacotherapeutics-III course focuses on understanding the pathophysiology of selected diseases (related to GI system, Haematologic system, Nervous system, Psychiatry disorders and pain management) and the rationale for their drug therapies. Students learn therapeutic management strategies, explore controversies in drug therapy, and prepare individualized therapeutic plans. The course emphasizes identifying patient-specific parameters for initiating and monitoring therapy, including clinical and laboratory indices of response and adverse effects. This comprehensive approach ensures students can effectively manage and tailor treatments using the latest evidence and diagnostic information.

References

- Clinical Pharmacy and Therapeutics - Roger and Walker, Churchill Livingstone publication.
- Pharmacotherapy: A Pathophysiologic approach - Joseph T. Dipiro et al. Appleton & Lange.
- Clinical Pharmacy and Therapeutics - Eric T. Herfindal, Williams and Wilkins Publication.
- Applied Therapeutics:The clinical Use of Drugs. Lloyd Young and Koda-Kimble MA.

Name of Course Hospital Pharmacy

Course Code PD402

Scope This course aims an opportunity to the students to learn the preparation, compounding, and dispensing of medications to ensure the safe and effective use of pharmaceuticals, providing direct patient care through medication

therapy management and counselling within a hospital setting for successful practice of Hospital Pharmacy.

- References**
- Practice Standards and Definitions - The Society of Hospital Pharmacists of Australia.
 - Hospital pharmacy by William .E. Hassan
 - A text book of Hospital Pharmacy by S.H.Merchant & Dr. J.S. Qadry. Revised by R.K.Goyal & R.K. Parikh

Name of Course **Clinical Pharmacy**

Course Code PD403

Scope The Clinical Pharmacy course trains students to monitor patient drug therapy through medication chart and clinical reviews, obtain medication histories, and counsel patients. Students will learn to identify and resolve drug-related problems, detect and assess adverse drug reactions, and interpret laboratory results as therapeutic monitoring parameters. Additionally, the course covers retrieving, analyzing, interpreting, and formulating drug information, equipping students with comprehensive clinical skills for effective patient care.

- References**
- Practice Standards and Definitions - The Society of Hospital Pharmacists of Australia.
 - Basic skills in interpreting laboratory data - Scott LT, American Society of Health System Pharmacists Inc.
 - A text book of Clinical Pharmacy Practice; Essential concepts and skills, Dr.G.Parthasarathi etal, Orient Orient Langram Pvt.Ltd.

Name of Course **Biostatistics and Research Methodology**

Course Code PD404

Scope The course emphasizes research methodology, including clinical study designs, sample size determination, study power, and data presentation. It covers compartment models, multiple dosage regimens, nonlinear and noncompartmental pharmacokinetics, and bioavailability and bioequivalence studies, essential for understanding drug behavior and optimizing dosing. Additionally, the course provides comprehensive biostatistics training and the application of statistical methods in epidemiology. Students also learn about computer applications in pharmacy, focusing on hospital and community

pharmacy, prescription dispensing, pharmaceutical care, and drug information management.

- References
- Pharmaceutical statistics- practical and clinical applications, Sanford Bolton 3rd edition, publisher Marcel Dekker Inc. NewYork.
 - Drug Information- A Guide for Pharmacists, Patrick M Malone, Karen L Kier, John E Stanovich , 3rd edition, McGraw Hill Publications 2006

Name of Course **Biopharmaceutics & Pharmacokinetics**

Course Code PD405

Scope The course focuses on drug absorption, distribution, and elimination processes, as well as the mathematical modeling of drug levels in the body. It also focuses on concept and understanding of compartment models, multiple dosage regimens, nonlinear and noncompartmental pharmacokinetics, and bioavailability and bioequivalence studies. This knowledge is essential for understanding how drugs behave in the body, optimizing dosing regimens, and ensuring effective and safe therapeutic outcomes.

- References
- Applied Biopharmaceutics & Pharmacokinetics – Leon Shargel
 - Basic Pharmacokinetics - Sunil Jambhekar
 - Biopharmaceutics and Clinical Pharmacokinetics - Milo Gibaldi
 - Biopharmaceutics and Pharmacokinetics – P L Madan

Name of Course **Clinical Toxicology**

Course Code PD406

Scope The Clinical Toxicology course covers the principles of managing poisoning, including antidotes, supportive care, gut decontamination, elimination enhancement, and toxicokinetics. Students will learn to manage acute poisoning from agents like pesticides, opiates, antidepressants, and alcohol, as well as chronic poisoning from heavy metals. The course also includes the management of venomous snake bites, plant and food poisoning, arthropod envenomation, and substance abuse treatment, equipping students to handle a wide range of toxicological emergencies..

- References
- Matthew J Ellenhorst. Ellenhorst Medical Toxicology -Diagnosis and Treatment of poisoning, 2nd edition. Williams and Wilkins publication, London
 - V V Pillay. Handbook of Forensic Medicine and Toxicology. 13th edition 2003 Paras Publication, Hyderabad

Fifth Year Pharm.D.**Name of Course Clinical Research**

Course Code PD501

Scope This course aims to provide comprehensive knowledge of the drug development process and clinical trials, which includes drug discovery approaches, phases of clinical trials, post-marketing surveillance, and regulatory guidelines (ICH, GCP, CDSCO). Students will learn the ethical considerations, roles and responsibilities of clinical trial personnel, and the design and management of clinical study documents. This knowledge is critical for ensuring the safe and effective development, approval, and monitoring of new drugs in the pharmaceutical industry.

- References
- Textbook of Clinical Trials edited by David Machin, Simon Day and Sylvan Green, March 2005, John Wiley and Sons.
 - Principles of Clinical Research edited by Giovanna di Ignazio, Di Giovanna and Haynes.
 - Clinical Data Management edited by R K Rondels, S A Varley, C F Webbs. Second Edition, Jan 2000, Wiley Publications.

Name of Course Pharmacoepidemiology and Pharmacoeconomics

Course Code PD502

Scope This course offers an in-depth exploration of various pharmacoepidemiological methods which includes investigation of various aspects of drug effects, effectiveness, adverse reactions, and interactions. In pharmacoeconomics, students will learn about cost-minimization, cost-benefit, cost-effectiveness, and cost-utility evaluations, essential for making informed formulary management decisions. This knowledge is vital for optimizing healthcare resources and ensuring safe and effective medication use in populations.

- References
- Textbook of Pharmacoepidemiology- Brian L Storm
 - Textbook of Pharmacy Practice- KG Revikumar

Name of Course Clinical Pharmacokinetics and Therapeutic Drug Monitoring

Course Code PD503

Scope This course focuses on the design of dosage regimens, pharmacokinetics of drug interactions, and therapeutic drug monitoring (TDM). Topics include dosage adjustments for specific populations, pharmacokinetic considerations in renal and hepatic diseases, population pharmacokinetics, and pharmacogenetics. This knowledge is crucial for optimizing drug therapy, ensuring individualized and effective treatments, and managing drug interactions and variations in drug metabolism.

- References
- Biopharmaceutics and Clinical Pharmacokinetics- An introduction 4th edition Revised and expanded by Reborg F Notari Marcel Dekker Inn, New York and Basel, 1987.
 - Clinical Pharmacokinetics, Concepts and Applications: By Malcolm Rowland and Thomas, N. Tozen, Lea and Febriger, Philadelphia, 1995.

Name of Course Clerkship

Course Code PD504

Scope The Clerkship in the 5th year of the PharmD program provides practical, hands-on experience in various clinical settings. Students will engage in active patient care activities, working closely with healthcare teams to apply pharmacotherapeutic principles. The clerkship aims to enhance clinical skills, improve patient interaction, and integrate theoretical knowledge into practice, with evaluations based on performance in real-world scenarios and feedback from supervising professionals.

Name of Course Project Work (Six Months)

Course Code PD505

Scope The project work aims to enhance students' skills in data collection and reporting within community, hospital, and clinical pharmacy settings. Under the guidance of a faculty supervisor, students will undertake a research project on a topic approved by the Head of the Department or Institution. The project, announced within the first month of the fifth year, will be assessed through a written report and a seminar presentation. The project will include objectives, methodology, results, discussions, and conclusions, with evaluations conducted by both external and internal examiners.

Sixth Year Pharm.D.

Name of Course **Hospital Residency Training (Sixth-Year Internship)**

Course Code PD601

Assessment As per PCI Guidelines

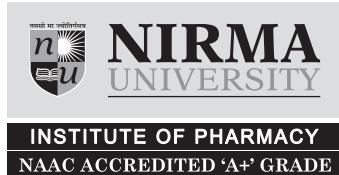
Scope The PharmD internship program offers a comprehensive one-year training experience at a hospital, including rotations in specialty units. The internship aims to enhance the student's practical knowledge, clinical skills, and professional behaviour necessary for delivering high-quality patient care. The training comprises six months in the General Medicine department and two months each in three additional specialty departments, ensuring exposure to diverse clinical settings and patient care scenarios.

SECTION F

FORMS &

DECLARATION

(For reference purpose only)



Declaration to be submitted by the Students Admitted to Different Programmes of the University (Code of Conduct)

DECLARATION

I, _____ admitted in _____ (programme) of the Institute of _____, Nirma University do hereby declare and undertake that I will abide by the Code of Conduct, Procedure to inquire and decide with misconduct/indiscipline by students Rules 2020 and other related provisions like dress code on the campus, rules for maintaining vehicles on the campus, and public display of affection (PDA) and etiquette on the campus etc.

I will abide by all the rules and regulations and if I am found violating any rules then, I shall be subjected to the major/minor penalties as per the provision of aforesaid rules.

In case any legal issue arises, the jurisdiction shall be Ahmedabad, Gujarat only.

Date:

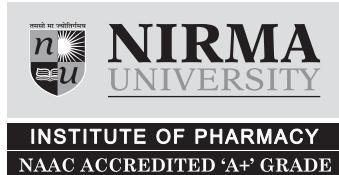
Place:

Signature of the student

Name of the student: _____

Signature of the Parent/ Local Guardian: _____

Name of the Parent/ Local Guardian: _____



Undertaking for Rules & Regulations of the Examination

I, _____ Roll No. _____

studying in First year of _____ programme at Institute of _____,

Nirma University, Ahmedabad do hereby undertake that I have read and understood all the Rules & Regulations related to Academic Dishonesty at examinations/tests/assignments and punishment in case of using unfair means, I have also gone through the Academic Regulations related to Granting of Term and Cancellation of admission, and I shall observe, follow and abide by all these rules and regulations.

I shall abide by all the rules and regulations and if I am found violating any rules then, I shall be subjected to the necessary action/penalties as per provision of rules/regulations.

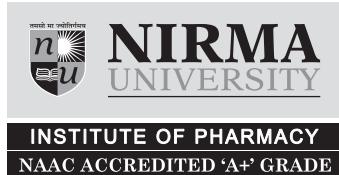
In case any legal issue arises, the jurisdiction shall be Ahmedabad, Gujarat only.

Signature _____

Name _____

Address _____

Signature of Parents _____



UNDERTAKING

(To refrain from consumption of Drugs and Alcohol)

I, _____ bearing Roll No. _____ admitted in _____ (programme) of Institute of _____, Nirma University, do hereby declare and undertake that I will refrain myself from consumption of Drugs and Alcohol.

I have read the relevant instruction with regard to ban on consumption of drugs and alcohol. I am aware that the use/possession of narcotics drugs and alcohol is a punishable offence under the law of the Government of Gujarat and if I am found guilty of using such thing/s, then it will amount to a criminal offence and I am liable for the appropriate penalty as per laws.

I hereby give an undertaking to the Institute that I will refrain myself from consumption of Drugs and Alcohol.

Date _____

Place _____

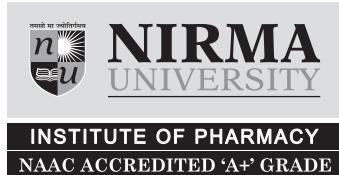
Signature of Student

I undertake that I will take utmost care to see that my ward does not get involved in any such incident.

Name of Parent/Guardian _____

Signature of Parent/Guardian _____

Address of Parent/Guardian with contact nos. _____



FORM OF MEDICAL FITNESS CERTIFICATE

(To be produced at the time of reporting at the institute)

I / Dr. _____ (Name & Designation) posted in _____ (Name of Hospital & Place) certify that I have carefully examined _____ (Name of Candidate) S/o. D/o. Shri _____ and according to his/her medical examination, I have diagnosed nothing that may prevent him/her pursuing under graduate/post graduate degree courses.

He/She has no disease or mental or bodily infirmity making him/her unfit or likely to make him/her unfit in the near future for visits / training / internships / projects etc. at industries, and active out door duty, as a student.

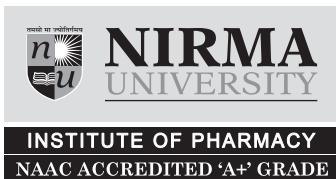
Mark of identification: _____

Signature of Medical Officer

Seal of Designation and Hospital

Dated:

Photograph of candidate duly attested by the Medical Officer



UNDERTAKING FOR CONDUCT AND DISCIPLINE RULES FOR THE STUDENTS

I,IT,NU Merit No. / Roll No.admitted in(programme) of the Institute of Technology, Nirma University do hereby declare and undertake that I shall comply with followings:

1. I always carry the identity card while I remain in the campus and produce if required by the competent authorities.
2. I attend all the scheduled classes from the beginning to the end of the term/semester. I am aware that absence due to illness or any unavoidable circumstances shall be considered only if the application is supported by medical certificates and/or if the leave application is submitted to the Director through the parents.
3. I shall be polite individually or in groups and show respect to the faculty (teachers) as well as to the staff of the Institute. I shall follow the Instructions in connection with academic or other matters as instructed by the teachers from time to time. I shall not participate in activities that may cause harm to the academic environment or teacher-student relation.
4. I am aware that the action of any individual, group or wing which amounts to interference in the regular administration of the Institute/University is prohibited.
5. I am aware that Causing disfigurement or damage to the property of the Institute/University or belongings of staff members or students is forbidden.
6. I am aware that No student shall indulge in any activity in the college campus that might be illegal or may lead to disorderliness.
7. I am aware that I should not be in possession of any intoxicant or intoxicating materials and should not consume such things.
8. I am aware that use of any kind of mobile phones; whether ordinary, camera phone or smart phone in the academic areas during academic activities, is prohibited. However, for academic purpose or in exceptional cases, the students can be allowed to use mobile with prior permission. Unauthorized use of mobile phone in the academic area specifically in the classrooms is prohibited failing to which the fine of Rs. 5000/- can be imposed.

During the examinations; specified rules for the same shall be followed.

9. I shall abide by the Code of Conduct, Procedure to inquire and decide with misconduct/indiscipline by students Rules 2020 and other related provisions like dress code on the campus, rules for maintaining vehicles on the campus, and public display of affection (PDA) and etiquette on the campus etc.

Signature of Student _____

Date : _____

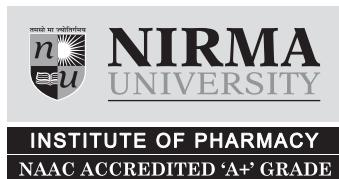
Declaration

I,.....,solemnly affirm, declare and undertake that I shall abide by all the rules and regulations and if I found violating any rules then, I shall be subjected to the necessary action/penalties as per provision of rules/regulations. In case of any legal issue arises, the jurisdiction shall be Ahmedabad, Gujarat only.

Sign

Date:

Place: Ahmadabad



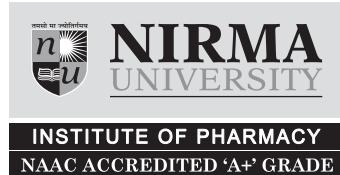
UNDERTAKING FOR ACADEMIC RULES AND REGULATIONS

Registration No./Merit No. _____

I, Mr./Ms. _____ son/daughter of _____ have secured admission at the Institute of Technology, Nirma University in the year 2024-25 for the Six Year Pharm D Programme. I hereby confirm that I have gone through the academic rules and regulations of the programme/Institute very carefully and I assure you that I will abide by the same.

Name & signature of student

Endorsement by parent/guardian



UNDERTAKING FOR NOT INVOLVING HIMSELF/ HERSELF FOR RAGGING

I, _____ admitted in the First Year of the Six Year Pharm D Programme at the Institute of Pharmacy, Nirma University, do hereby declare and undertake that I am fully aware of the rules and regulations regarding ragging and aware of the University's policy towards zero tolerance on ragging which are in line with the Directives of the Hon'ble Supreme Court of India. I am also aware about the punishment, if I found guilty of ragging or violating the rules.

Date:

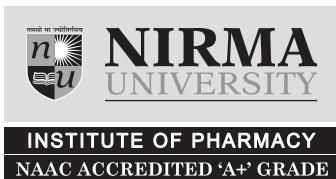
Place:

Signature of the student

Name of the student: _____

Signature of the Parent/ Local Guardian: _____

Name of the Parent/ Local Guardian: _____



INSTITUTE OF PHARMACY ATTENDANCE POLICY

1.0 Purpose

The purpose of this policy is to establish clear and consistent attendance guidelines for students, ensuring that they understand the importance of regular and punctual attendance in achieving academic success.

2.0 Scope

This is applicable to all students registered at Institute of Pharmacy, Nirma University.

3.0 Definition

Course	It is a series of lessons or lectures on a particular subject in any programme in Institute of Pharmacy, Nirma University.
Course Coordinator	Faculty in charge for course any programme at Institute of Pharmacy, Nirma University.
Events	It is organized gatherings such as academic conferences, workshops, social activities, sports and cultural performances, aimed at enhancing the educational experience, fostering community engagement, and promoting professional and personal development among students and faculty.
Assessment	Assessment refers to a systematic process of evaluating, measuring, and documenting the knowledge, skills, attitudes, and beliefs of learners (Formative and Summative Assessment).

4.0 Policy Statement

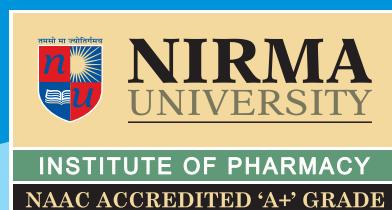
- 4.1 Students are required to attend all classes, practical work, and tutorials conducted throughout the day.
- 4.2 Attendance will be taken by the course coordinator or faculty in charge of each class. The objective is not mere attendance but fostering a positive interaction and learning environment.
- 4.3 Attendance will be taken within the first 5 minutes of the class. Students must be present before the faculty enters. Students entering after 5 minutes will not be granted attendance under any circumstances.

- 4.4 Students must seek prior permission from the Director to be absent from any theory, practical, or tutorial sessions by submitting a leave application form available with the Personal Assistant (PA) to the Director. Absence without prior permission will be treated as an act of indiscipline and processed accordingly.
- 4.5 In case of emergencies or medical reasons, students may take medical leave. Upon returning, they must submit the required documents (medical certificate, prescription) along with the official leave form to Personal Assistant (PA) to the Director, covering the period they could not attend the Institute.
- 4.6 As per University regulations, students are required to attend 85% of the classes conducted in each course. However, the Director may consider up to 75% attendance with valid reasons for absence, if the appeal committee is convinced by the reasons provided by the student.
- 4.7 Students with less than 75% attendance will not be allowed to sit for the final semester or year-end examinations (theory and practical).
- 4.8 Students who are barred from taking the final semester or year-end examination due to insufficient attendance (in either theory or practical classes, or both) must retake the semester with mandatory attendance. They are required to attend all theory and/or practical classes again, participate in all continuous assessments, and meet the attendance requirements before they are eligible to sit for the final semester or year-end examination.
- 4.9 Attendance will be reviewed three times in a semester, and the report will be sent to parents. The dates of the attendance review committee meetings will be provided in the academic calendar.
- 4.10 Students with attendance shortfalls will be called before the appeal committee. The committee will hear the cases on an individual basis and decide accordingly.
- 4.11 Students wishing to participate in internal or external academic, sports, or cultural events must seek approval seven (7) days before the event. They must write a letter, get an endorsement signature from the respective event coordinator, and obtain approval from the Director, Institute of Pharmacy.
- 4.12 The approved letter must be submitted with the leave form and other necessary documents to Personal Assistant (PA) to the Director, at least three (3) days before the commencement of the event.
- 4.13 Post-event approval is not accepted, and attendance will not be granted for the day or for lectures/tutorials/practicals missed.
- 4.14 Attendance for practicing any type of event will not be considered without prior approval from the respective event coordinator and the Director, Institute of Pharmacy, Nirma University.
- 4.15 Every student is allowed to participate in a maximum of 3 internal events (at the institute or University level) and 2 external events (outside Nirma University) per semester/year.
- 4.16 The Institute will not be responsible for students missing any component of examination due to their leave.

5.0 Related Policies, legislations, rules or regulations

- 5.1 Examination Regulation, IPNU
- 5.2 Academic Regulation, IPNU





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Website: <https://pharmacy.nirmauni.ac.in/>