



M.PHARM

HANDBOOK - II

Section - I & II

2023-24

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Section-I

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.

Programme Educational Objectives (PEOs)

PEO No.	Programme Educational Objectives
PEO1	To acquire effective knowledge of pharmaceutical sciences leading to hold key positions in industry as well as the healthcare sector.
PEO2	To attain practical training and technical expertise in pharmaceutical fields.
PEO3	To inculcate professional and ethical standards with effective interpersonal communication skills.
PEO4	To develop an interdisciplinary pharmaceutical approach towards society benefit, problem solving and lifelong learning.
PEO5	To adapt and implement best practices in the profession by enrichment of knowledge and skills in research and critical thinking.

PROGRAMME OUTCOMES

No.	Program Outcomes
PO1	Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
PO2	Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines
PO3	Problem analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
PO4	Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations
PO5	Leadership skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.
PO6	Professional Identity: Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
PO7	Pharmaceutical Ethics: Honor personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
PO8	Communication: Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions
PO9	The Pharmacist and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice
PO10	Environment and sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO11	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis
PSO1	Drugs and diseases: Understand different classes of drugs, their mechanism of action, dynamics, kinetics, structure activity relationships, pathophysiology and pharmacotherapeutics of various diseases.
PSO2	Drug development: Ability to synthesize, develop and/or evaluate various pharmaceuticals and their formulations and cosmeceuticals products
PSO3	Analytical skills: Develop skills in qualitative and quantitative analysis of various pharmaceuticals.
PSO4	Training: Acquire technical knowledge and hands on training on equipments, instruments and software used in the field of pharmaceutical sciences.

STUDENT'S RIGHTS AND RESPONSIBILITIES

Within the context of the Mission and Vision values of Nirma University, the charter of student rights and responsibilities has been prepared. This charter sets out the fundamental rights of the students with respect to their responsibilities towards their institution. To build the quality and standard of higher education, the entire responsibility heads on teachers, administrative authorities, students, and internal quality assurance cell to improve the eminence of learning along with the National Assessment and Accreditation council (NAAC) playing a synergistic role by providing guidelines and direction.

The charter recognizes that students are central to a dynamic University while, the University recognizes the importance of student rights, responsibilities and opinion and encourages diversity within the student body. The rights and responsibilities enunciated in this document acknowledge the role of students as well as institution to ensure excellence in education. For this students must be aware of their rights to get quality education and also their duties towards the organization, this in turn encourages Higher Education Institutions (HEIs) to enhance quality. This mutual commitment helps in assuring quality in multiple dimensions.

Institution's responsibilities towards students:

The Institution shall

1. Communicate the vision, mission, programme educational objectives, programme outcomes, rules and regulations of the institution to all students.
2. Offer programmes in-line with pharmacy regulatory authorities.
3. Offer relevant courses with acceptable academic flexibility.
4. Provide relevant learning resources to students.
5. Inform students well in advance about academic calendar, examination and other relevant information.
6. Use feedback from students in the initiation, review and redesign of new programmes.
7. Facilitate for effective teaching-learning processes.
8. Implement a well-conceived plan for observing student development constantly.
9. Ensure that the student evaluation processes are consistent, effective and transparent.
10. Provide flawless information to students about the admission procedures, fee structure, scholarship assistance and student mentoring services.
11. Ensure welfare support services to all students.
12. Encourage values, social responsibilities and moral citizenry in all students.

Student's responsibility of Learning:

The Students shall:

1. Respect the institutional vision, mission and programme educational objectives.
2. Participate and contribute in various institutional activities.
3. Have information of the programmes, admission procedures, and evaluation guidelines of the institution.
4. Follow the rules and regulations of the institution.
5. Undertake systematic and in-depth study of learning materials.
6. Make optimum use of the learning resources and other support services available in the institution.
7. Regularly appear in continuous internal assessment and term-end examinations.
8. Provide constructive and genuine feedback for institute development.
9. Live as worthy alumni of the institution.

CURRICULUM

The institute has introduced an innovative curriculum befitting the needs of the day. It is continuously updated to integrate the rapidly occurring advances in the field of pharmaceutical sciences and drug research. It is vital that institutes and teachers recognize their responsibility in preparing not only responsible members of the healthcare team but also valuable members of the society, who must have top quality scientific and professional skills, and an unquestionable sense of ethics.

The contents of course have been carefully considered to ensure that they are relevant and up-to-date and special consideration has been given to the applications of knowledge, communication, language and patient care skills, healthcare system organizations, the development of professional identity, critical thinking and lifelong learning. It is mandatory for all universities to follow the curriculum of Pharmacy Council of India (PCI) and institutes are following the syllabus of PCI with modification in learning process.

Special features

The Institute of Pharmacy is a constituent unit of Nirma University. The M.Pharm programme is approved by Pharmacy Council of India (PCI) with an intake of 54 seats (additional 15 seats of Pharmaceutical Chemistry are in abeyance) . The special features of our programmes are:

- A 125-acre sprawling campus in picturesque surroundings, which provides a refreshing environment, stimulating intellectual alertness and creativity
- Innovative dynamic curriculum befitting the current needs of industry and adopting OBE
- Teaching of value added, enrichment and add-on courses, university electives, audit courses, MOOC courses and self-study course in curriculum, social extension and NSS related activities, and inputs and seamless university examination system for evaluation and grading
- Classroom plus ICT based interactive teaching learning using modern tools, web resources and wi- fi facility
- Supplementary learning activities with practical training in industries during summer
- State- of –the- Art laboratories for PG Studies and Research
- Collaboration with research Institutions and industries like: Plovdiv University, Bulgaria, B. V. Patel, PERD Centre, Ahmedabad, Cadila Pharmaceutical Research

Centre & Intas Pharmaceuticals Ltd., Piramal Pharmaceutical Development Services (P) Ltd., Ahmedabad, CII, Ayurlab Herbal Pvt, Ltd. Vadodara & Beiersdorf (Nivea) Germany, Brillare Sciences, Ahmedabad, Finecure, Ahmedabad, CPC, Ahmedabad and Evonik, India.

- Excellent hostel for PG & PhD students on the campus
- Highly Qualified Faculty having PhD and research experience with various awards, patents & publications in reputed journals
- M.Pharm students and research guides have received national recognition for Best Thesis in PharmaInnova Award Competitions supported by DST and Troikaa Pharmaceuticals Ltd.
- Advisory Committee comprising eminent personalities of Academia and Industries
- Stipend to the Meritorious GPAT and Non-GPAT Students as per Nirma University norms
- Regular visits to the industries, CROs and R&D centers and a strong industry-academy interaction and regular visiting faculty from industries
- Constant mentoring to the students by the faculty on a one to one basis on career guidance for personal development, identification of aptitudes and motivation in right direction
- Grooming and training of students with development of communication skills and extensive guidance for GPAT, TOEFL, GRE etc.
- Use of plagiarism policy for thesis checking and report is attached with thesis
- Dedicated Industry Institute Interaction cell, for training and grooming of students for effective transition from campus to company

The approach to learning

The institute makes use of an appropriate mix of pedagogical tools to train students to handle professional responsibilities. These include lectures by an appropriate mix of in-house and visiting faculty, expert lectures, discussions, seminars, project assignments, and visits to industries. The laboratory practical related to the theory course are included in the syllabus to acquaint the students with practical knowledge. Continuous Evaluation and counselling are important parts of the academic programme.

- Rigorous coaching with Continuous Evaluation
- Credit Based Semester System with weightage of different components of study

- Learning through Classroom Teaching, Practical Work, Industry Visits and Project Work
- Academic Rigor and Innovative Pedagogical Tools
- Faculty guidance and mentoring system with faculty as counsellors to students
- Continuous enhancement of communication skills
- Continuous Up-gradation of State -of –the- Art knowledge and skills
- Active participation of students in creative co-curricular Activities.
- Portion of syllabus is covered by industrial expert in each course
- Quality policy for various aspects like curriculum design and development, teaching-learning and evaluation, teacher quality, infrastructure and learning resources and student support, research, consultancy and extension activities and monitoring and review of quality.
- IT Policy for using the IT resources, whether personally or of University owned, which access, transmit or store various types of related information
- Idea lab for carrying research on new idea by the students

ACADEMIC INFRASTRUCTURE/FACILITIES

The Campus

The Institute of Pharmacy is situated on the sprawling 115 acre green campus of Nirma University. It has all the modern facilities like sophisticated Instruments, state of the art labs, excellent computing & IT infrastructure including latest software, rich library, canteen, playgrounds, indoor games and gymnasium. The campus provides an ambience that motivates the students to grow. The Institute building has modern amenities, with enough space and replenished with modernity and grandeur. The post graduate laboratories are independently developed for M.Pharm and PhD students. In addition the campus has sports facilities and the overall ambience is distinguishable by its serenity, which is conducive for intellectual pursuits.

Sophisticated Instruments

The Institute has two separate sophisticated instrument laboratories equipped with modern instruments. Modern instruments are the most essential part of all research activities which facilitate interdisciplinary research. The instruments available at the institute are:

- Fourier Transform Infrared Spectrometer
- Fluorescence Spectrometer
- Supercritical Fluid Chromatograph / Extractor
- UV-Visible Spectrophotometer
- UV-Visible/NIR Spectrophotometer
- High Performance Liquid Chromatographs (with binary & quaternary pumps, UV, PDA & RI detectors)
- Gas Chromatograph
- High Performance Thin Layer Chromatograph
- Differential Scanning Calorimeter

Besides these, the Institute also has other high end instruments like high pressure homogenizer, particle size analyzer, zeta potential analyser, lyophiliser, high speed homogeniser, stereotaxic apparatus, microdialysis system, hematoanalyser, semi-automated biochemical analyzer, ELISA, PCR and gel documentation system.

Machine Room

The machine room is equipped with Rotary Tablet Machine, Fluidized Bed Drier cum Coater, Digital TensioMeter, Texture Analyzer, Mini Spray Dryer, Freeze dryer, Automated Dissolution Apparatus, projection microscope, vaccum drier, ultrasonicator etc. The laboratory provides facilities to carry out extensive research and consultancy for pharmaceutical industries.

Drug Discovery Lab

The Institute has a separate Drug Discovery Laboratory equipped with necessary computational facilities. It possesses seven workstations (computers) with latest configurations. It also possesses molecular modeling software. The students are trained on the software for docking, pharmacophore modelling and QSAR studies etc.

Animal House

The Institute has state-of-the-art animal house facility registered by the CPCSEA, Government of India. It provides pre-clinical testing in conformity with national and international regulatory guidelines (Schedule Y and OECD). The animal house facilitates the availability of healthy and homogeneous animals for research. Pre-clinical studies related to efficacy, safety and toxicological evaluation of a new chemical entity, formulation and nutraceuticals can be carried out. An incinerator is also available at the animal house for ethical disposal of the sacrificed animals.

Nirma Herbal Wealth

The department houses a well-developed medicinal plant garden “Nirma Herbal Wealth” covering a total area of 3356.5 sq. meters with more than 153 varieties of species and more than 500 plants extending the scope to carry out research on medicinal plants. The garden houses a variety of medicinally important herbs, shrubs and trees spread in a well-defined area. The plants grown are useful to conduct the practical sessions of pharmacognosy and herbal drug technology. This well-developed medicinal plant garden provides a strong impetus for herbal drug research and to impart training to the graduate students. It supplies crude raw material and fresh plant specimens essential to carry out herbal drug and natural product-related research by the graduate, postgraduate and doctoral students of Institute of Pharmacy. Students of the Institute of Pharmacy use the botanical garden to collect the herbs for their routine practical work as well as for their research work during their project. Students collect the plant parts based on their project need to prepare the extract and isolate the important phytoconstituents with therapeutic importance. The collection of plants is also

useful to prepare herbarium specimens by undergraduate students. Some of the trees available at the garden include *Terminalia arjuna* (Arjuna), *Saraca asoca* (Ashoka), *Moringa oleifera* (Drumstick), *Azadirachta indica* (Neem) and *Ficus carica* (Anjeer). Some of the important plant species are *Datura metel*, *Commiphora mukul*, *Gmelina arborea*, *Cymbopogon citratus*, *Vetiveria zizanoids*, and *Plumbago zeylanica*.

Class Rooms

The classrooms are spacious, ventilated and equipped with multimedia and audiovisual equipment to facilitate effective learning. The classrooms are designed to provide maximum interaction between the faculty and students.

I.T Infrastructure

The computer facility at the Institute of Pharmacy includes two laboratories equipped with 48 computers for the students. The computers are equipped with fiber optic cables and 512 Mbps leased line internet connectivity. The campus is also equipped with Wi-Fi network facility. An integrated MIS system for the student's attendance and academic record is available.

DEPARTMENTS & FACULTIES

Department of Pharmaceutical Chemistry

The Department of Pharmaceutical Chemistry is an integral part of pharmacy education involving several aspects of new drug discovery and development in collaboration with other disciplines of pharmacy. As a part of undergraduate teaching and learning, various subjects included are Pharmaceutical Inorganic Chemistry, Biochemistry, Pharmaceutical Organic Chemistry, Medicinal Chemistry, and Computer Aided Drug Design. Extensive use of modern audio-visual teaching aids and molecular models make the lessons interesting and student-centric. The department has collaborations with various research organizations, industries and basic science departments where students can participate in interdisciplinary research projects relevant to core areas. The research projects help students to get deep insights in the research area and help to develop expertise. The students are also encouraged for various other activities like personality, communication and soft skills development; scientific writing; workshops for improvement in presentation and documentation skills, etc. Alumni members of the department are placed at various places like R&D, CRO and academic institutions, etc. as well as pursuing their doctoral studies in reputed universities across the globe. The department is also involved in Doctoral research and students received many research scholarships for PhD programmes viz. DST-Inspire, ICMR, etc. and are also supported by Nirma University schemes.

Prof. Gopal Natesan

Professor Dr. Gopal Natesan is a highly experienced and motivated researcher with over 23 years of expertise in academic, administration and research activities. He is working as Director, Institute of Pharmacy, Nirma University. He completed his Master's in Pharmacy (Pharmaceutical Chemistry) and earned his Doctorate in Pharmaceutical Chemistry from Jamia Hamdard, New Delhi, in 2001. He has completed Post graduate certificate in Teaching & Learning from Anglia Ruskin University, UK in 2016 and Master of Business Administration (MBA) from MAHSA University in 2022. He is Fellow of The Higher Education Academy, UK Professional Standards Frame work, UK since 2016. His research focuses on the synthesis of newer small chemical entities, quinazolinones heterocyclic pharmacophore and their preliminary screening in both in-vivo and in-vitro models mainly focusing on pain & inflammation, cancer and microbial agents. He has published >50 articles in indexed journals and presented >98 papers in International & National conferences. He has completed several funded and non-funded research projects for degree and post graduate levels and recently

filed 2 patents in India (2021) and 1 research patent granted from South Africa in 2022. He has received number of honours for his research work, specifically in 2013, he has honoured “Young Scientist Award” by the International Society of Nature & Health Care Inc, USA, University of Colombo and University of Kelaniya, Sri Lanka and in 2017 he was awarded with “Edward Kennedy Memorial Award” in 2nd Global Cancer Summit, Kuala Lumpur. Recently on 17th December 2022, he was honoured “Outstanding Scientist Award” in International Eminent Awards on Engineering, Science and Medicine, India. Prof. Gopal serves as an editorial board member, peer reviewer, and appointed as Chairman for the different International Conferences and also as Organizing Committee member. He has held numerous senior academic positions in India and abroad and supervised postgraduate students from the Master to Ph.D. levels.

Dr Hardik Bhatt

Dr Hardik Bhatt is working as Associate Professor and Head in Dept of Pharmaceutical Chemistry and has more than 19 years of teaching & research experiences. He is also looking after the Centre for Advanced Instrumentation (CAI) facility at Nirma University. He completed his PhD from Nirma University in 2009. Dr Bhatt is a recipient of Gold Medal for standing First in MPharm in Pharmaceutical Chemistry at Gujarat University in 2004. His areas of research interest are drug design, molecular modelling, synthesis of NCEs and their evaluation as potent therapeutic agents in areas of Cancer, HIV, Tuberculosis, etc. He is also working in the area of analytical method development. He has published more than 52 research and review articles in reputed international and national journals with total Impact Factor more than 125 and authored 4 books including three editions of “Practicals in Organic and Medicinal Chemistry” and first edition of “Practicals in Pharmaceutical Analysis I” and a book chapter in Academic Press, Elsevier Publication. Dr Bhatt has working experience in various major and minor research projects sponsored by GSBTM, GUJCOST and Nirma University. He presented research papers at various international and national conferences including ACS and AAPS Annual Meetings in the USA; ISCB Conferences; National Conference at IIT-G; Indian Pharmaceutical Congress (IPC) and at state level paper presentation competitions sponsored by GUJCOST. Dr Bhatt has received various travel grants from DST-SERB, ICMR, CSIR, etc. Research papers presented or co-authored by him won several prizes at various conferences. Overall, he has more than 110 presentations to his credit. He has reviewed international research grants as well as many articles. Dr Bhatt is recognized PG and PhD guide of Nirma University. He has been actively involved in various capacities in organizing national and international conferences/workshops. Dr Bhatt is a member of Royal

Society of Chemistry (MRSC), American Chemical Society, Indian Pharmaceutical Association, Indian Society for Chemists and Biologists, Association for Pharmacy Teachers of India & Indian Society for Technical Education.

Dr Jignasa Savjani

Dr. Jignasa Savjani is working as assistant professor at the Institute of Pharmacy, Nirma University, India. She has more than 20 years of academic and research experience. She is a recognized Ph D guide at Nirma University. She is the recipient of the prestigious ACS and DST grant to attend and present research work during the Pittcon conferences held in the USA. She has two Indian patents to her credit. She has published research and review articles which involved national and international collaborations. She is working on a research project worth Rs. 33.29 lacs received from BRNS entitled “Feasibility Study of Waste Water Treatment using Non-Thermal Plasma”. She is also involved in the consultancy on AI-based drug discovery for a UK based company. In addition, she delivered various expert lectures on topics related to Pharmaceutical Chemistry. Her research studies involve national and international collaborations. She delivered a short course on wastewater analysis and management during Pittcon 2022 and Pittcon 2023 conferences. Her research areas involve Computer Aided Drug Design and synthesis of small heterocyclic molecules, wastewater treatment and co-crystallization of poorly soluble drugs.

Dr Vivek Vyas

Dr Vivek Vyas is working as Assistant Professor in Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad. He has more than 16.5 years of teaching and research experience. He is a recognized PhD guide at Nirma University and currently he is guiding 2 PhD candidates. He has guided 22 PG students as a research guide/co-guide. He teaches various courses like Biochemistry, Medicinal Chemistry, Organic Chemistry, Computer-Aided Drug Design, Research Methodology and Biostatistics, Documentation and Regulatory Writing, Regulatory Aspects of Herbal & Biologicals etc at UG and PG level. He has published more than 65 research and review articles in National and International journals of repute. He is a reviewer of international and national journals like J. Med. Chem., ACS Omega, ACS infectious Diseases, ACS Chemical Neuroscience, EJMC, RSC Med Chem, N. Jr. of Chem., BMCL, CADD, SAQE, MCR, AJC, IJC B etc. He has completed a minor research project granted from GUJCOST, Gandhinagar, Gujarat. He received Best Assistant Professor Award 2014-15 for the Overall Performance in Teaching, Co-Curricular Activities and Research from Nirma University. He has presented research papers at various national and international conferences and seminars. Overall, he has 30 presentations to his

credit. His areas of research are Computer Aided Drug Design (CADD), Molecular Modeling, QSAR, Pharmacophore Mapping and Synthesis of novel heterocyclic ring systems as Anticancer and Antimalarial agents. He is a member of American Chemical Society, Indian Pharmaceutical Association, Indian Society for Chemists and Biologists, Association for Pharmacy Teachers of India & Indian Society for Technical Education.

Dr Bhumika Patel

Dr Bhumika D Patel is working as an Assistant Professor in the Department of Pharmaceutical Chemistry. She has 16 years of teaching experience. She is a recognized PhD guide at Nirma University. She teaches various courses like Medicinal Chemistry, Organic Chemistry, Computer-Aided Drug Design, Biochemistry, etc at UG, PG and PharmD level. At present, She is a coordinator of UG Research Council at the Institute. Her area of research includes the rational design and synthesis of different heterocyclic compounds under various therapeutic classes like diabetes, cancer, HIV, etc. She has a sound knowledge of drug designing software like Sybyl, Discovery Studio, Gold, Schrodinger, etc. She has 24 international publications in reputed journals and 27 presentations in her credit. She presented a research poster at the 257th ACS Annual Meeting and Exposition held at Orlando, Florida, USA during March-April 2019 for which she received full travel assistance from SERB, Department of Science and Technology, Government of India. Currently, she is working on a Minor research project on design and synthesis of novel PARP1 inhibitors funded by Nirma University. She received Best Assistant Professor Award 2018-19 for the Overall Performance in Teaching, Co-Curricular Activities and Research from Nirma University. She completed one minor research project of GUJCOST and two MRPs of Nirma University. She is a recognized PhD guide at Nirma University and currently she is guiding 4 PhD candidates. She has guided 20 PG students as a research guide/co-guide. She is a life member of professional bodies like APTI, IPA, ISCB (Indian Society of Chemists and Biologists), RSSDI (Research Society for the Study of Diabetes in India) ISTE (Indian Society for Technical Education), etc.

Dr. Udit Chaube

Dr. Udit Chaube is working as an Assistant Professor in the Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Ahmedabad. He has 8 years of research and teaching experience. He completed his full-time Ph.D. from the Institute of Pharmacy, Nirma University, with a DST-INSPIRE Fellowship from the Department of Science & Technology, Government of India. Dr. Udit Chaube is a recipient of the Gold Medal for standing First in M.Pharm in Drug Discovery at Nirma University in 2014. He has 10

publications in International Journals of repute. Prior to joining the Institute of Pharmacy, Nirma University, Dr. Udit Chaube worked with the National Innovation Foundation-India, an Autonomous Body of the Department of Science & Technology, Government of India. He has presented research papers at various National and International Conferences and Seminars. Overall, he has more than 8 presentations to his credit. He has expertise in Synthetic Chemistry, Computational Chemistry, Cell-Culture & In-Vivo Biological Evaluation. He completed one Minor Research Project that was supported by Nirma University. He holds the position of Ph.D. supervisor at Nirma University.

Dr. Tejas M. Dhameliya

Dr. Tejas M. Dhameliya has completed B. Pharm. From L. M. College of Pharmacy (LMCP), Ahmedabad in 2012 and M.S. (Pharm.) from Department of Medicinal Chemistry in June 2014 from National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar, India. During his M.S. (Pharm.). He carried out his project work under the direct supervision of Prof. Asit K. Chakraborti on "Design and Synthesis of Novel Benzothiazoles as Potential Anti-tubercular Agents". His thesis has been awarded at National level by the Rajnibhai V. Patel PharmInnova Award for the most "Innovative Thesis" in M. Pharm. (Pharmaceutical Chemistry) category in Pharmaceutical Sciences 2014-15 jointly organized by Troikaa Pharmaceutical Ltd., Ahmedabad; Department of Science and Technology (DST), New Delhi and LMCP, Ahmedabad. Later, he joined as a Ph.D. research scholar under the guidance of Prof. Asit K. Chakraborti in July 2014 in NIPER, S.A.S. Nagar to pursue his career in research and drug discovery. He has worked as Asst. Prof. at LMCP, Ahmedabad during Aug 2017 to Jan 2023 and moved to Institute of Pharmacy, Nirma University, Ahmedabad in Jan 2023. With h-index of 16, i-10 index of 19, he has published a total of 18 research and 16 review articles in international peer reviewed journals of high impact, and filed two Indian patents, and guided seven M.Pharm. students for their dissertations. He has been the recipient of financial assistance to attend ACS Fall 2022 held in Chicago (USA) during Aug 21-25, 2022 through International Travel Support (ITS) from DST-Science Engineering Research Board (SERB). He has also received a total of eight grants of worth 5.15 Lakh rupees from Student Start-up Innovation Policy (SSIP), Gujarat. His area for research includes development of anti-TB, anti-cancer agents and SARS CoV-2 inhibitors using green methodologies of synthesis adopting water, nano-particles and ionic liquid; molecular modeling such as 3D-QSAR, docking, molecular dynamics simulations and quantum chemical calculations or density functional theory.

Department of Pharmaceutics

Pharmaceutics, a multidisciplinary science, is associated with the development, production, and characterization of dosage forms/drug delivery as well as the disposition and action of drugs in the body. The Department of Pharmaceutics offers courses at undergraduate, postgraduate and doctoral levels. Students are trained towards the basic concepts to the latest developments in pharmaceutics and pharmaceutical technology as per the needs of society. The department works towards promoting a strong multidisciplinary, team-based approach to drug delivery, embracing a variety of activities in the broad area of drug formulation and delivery. The faculty members and students at the department contribute to research through funded projects, industrial projects, consultancy, etc. to formulate novel formulations.

Prof Tejal Mehta

Dr. Tejal is presently working as Professor & Head in Dept. of Pharmaceutics, Nirma University, Ahmedabad. She is also working as Dy. Director, University Internal Quality Assurance Cell, Nirma University, Ahmedabad. She has done her Ph.D. from Sardar Patel University, Vallabh Vidyanagar & B.Pharm & M.Pharm (Pharmaceutics & Pharmaceutical Technology) from Gujarat University, Ahmedabad. She has more than 26 years of teaching & 21 years of research experience at UG & PG level. Her current area of research includes Bioavailability enhancement of sparingly soluble drugs, Fixed dose combinations using multiparticulate systems, Development of micro and nanoparticulate drug delivery systems for oral, parenteral, ocular, nasal and topical drug delivery systems. She has published more than 100 research papers in journals of national & international repute. She has also presented several papers in national & international conferences. She has published 1 chapter in national and 7 chapters in international book. She is recipient of the Best Paper Award 2004 granted by Association of Pharmaceutical Teacher's of India for publishing paper in Indian Journal of Pharmaceutical Education. She also received the R. V. Patel Best M.Pharm thesis award in Guide category. She is also recipient of Best Professor Award for Overall Performance by Nirma University in year 2016. She has also authored a book "Practical Manual of Pharmaceutical Engineering", "Practical Manual of Pharmaceutical Dosage Forms" and "Pharmaceutical Quality Management & Drug Delivery Systems". She filed 4 patents related to her research and three of them is granted. She is involved in various projects, consultancy in area of formulation development. She also conducted seminar, workshop and Hands on training for manufacturing and evaluation of nanoformulations. She delivered

lectures in various staff development programmes, seminars, workshop, conference etc. She is reviewer of national & international journal in her research area of interest.

Dr Mayur Patel

Dr. Mayur Patel, Associate Professor in the Department of Pharmaceutics, has more than 16 years of teaching experience. He has more than 60 International and National Publications with a total impact factor of more than 185, total citations more than 2000 and 'h' index of 24. Dr. Patel is listed in World's Top 2% Scientist Published by Stanford University for last Three Consecutive years i.e. 2019, 2020, 2021. Dr. Patel has received the Prestigious "Young Pharmacy Teacher of the Year Award - 2019" from "Association of Pharmaceutical Teachers of India (APTI)". He has also received EUDRAGIT® Award 2016 (second prize) for publishing highly innovative papers at National Level. He is a recipient of a major research project from Nirma University worth Rs. 28,92,400/-. He is also the recipient of a minor research project worth Rs. 4,00,000/- from Gujarat Council on Science and Technology (GUJCOST). He is reviewer for many high impact factor journals of publishers like Elsevier, Informa Healthcare Ltd., American Chemical Society (ACS), PLOS One, to name a few. He has been invited to contribute a Book Chapter on "Drug Delivery: Oral Colon-Specific" in Encyclopedia of Pharmaceutical Science and Technology, 4th Edition, 2013, Published by Informa Healthcare Inc. UK. He was felicitated Ten times for "Outstanding Performance" for the year 2011, 2012, 2013, 2014, 2016, 2018, 2019, 2020, 2021 and 2022 during foundation day at Nirma University. He is a recognized PG and Ph.D. guide at Nirma University.

Dr Shital Butani

Dr Shital Butani has more than 20 years of research and teaching experience. She has received a Major project entitled "Exploring non-equilibrium atmospheric plasma for effective sterilization including biological safety aspects" from the Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, Government of India; another project for the development of an oral formulation for a natural product as well as nasal and oral spray for an Indian Industry; a minor project from Gujcost entitled "Development of self-emulsifying drug delivery system of the poorly water soluble antihypertensive drug", a travel grant from DST to attend the conference in Lisbon, Portugal. She has guided five PhD students (including students having WOS A and CSIR fellowship). Dr Butani has received "Project Excellent" award during her tenure at Zydus Cadila Healthcare Ltd., Ahmedabad. She also received a best paper award from IDMA in January 2015 for one of her publications in the Pharmaceutics category. She was a volleyball player in the junior level team of Gujarat and played national competition

at Tripura. She has published many papers in reputed national and international journals. She is a recognized PhD guide and a member in ISTE, APTI, IPGA etc bodies.

Dr Jigar Shah

Dr Jigar Shah has 18 years of teaching and 8 months of industrial experience. He has published 60 research and review papers in high impact factor Journals (total impact factor 255, total citations 1300 and h-index 21). He has presented 40 research and review papers at national and International conferences including conferences at Washington DC, USA (2011), and Vancouver, Canada (2016), with international travel grants (Worth Rs.4.5 Lakhs) received from Govt. Agencies like SERB, DST, CICS and ICMR respectively. He received the “Best Presentation Award” at an International conference in Canada. He has written 05 book chapters and 01 book, with highly reputed publishers like CRC Press, Taylor and Francis, John Wiley & sons, etc. He had successfully completed the research project sponsored by GUJCOST (worth Rs.7.0 Lakhs), received various research grants from Nirma University (worth Rs. 5.0 Lakhs) and international grants as coinvesitgator (worth Rs.21.0 Lakhs). He is a recognized PhD, PG Guide at Nirma University. 01 patent granted and 01 patent published by Indian Patent Office. His area of interest is Novel drug delivery systems. He is an academic editor, toic editor and reviewer of the various reputed International Journals of Elsevier, Springer, Bentham Science, Frontiers, Informa Healthcare and Wiley etc. He is invited for research grant review by QNRF, and Ajman University, UAE. He is research advisory committee panel of various reputed universities. He is a recipient of GOLD MEDAL in M. Pharm. programme. He has received many awards and prizes for best research papers. He is felicitated a number of times for “Outstanding Performance” as a faculty and researcher for the years 2012, 2014, 2017, 2020, 2021 during foundation day of Institute of Pharmacy. He is a member of various international and national pharmacy societies like AAPS, CRS, WASET, IPA, APTI, ISTE, IPGA, SPER, and IHPA.

Dr Dhaivat Parikh

Dr Dhaivat Parikh has more than 17 years of teaching and research experience. He is a recipient of Best Assistant Professor of Institute for Innovation in Teaching Methodologies for the year 2015 by Nirma University. He was also felicitated in 2020 for significant contributions for Alumni Relations. He is actively involved in Consultancy and Testing at the Department. His major area of interest is Novel Drug Delivery Systems (specifically to Gastro-Retentive Drug Delivery Systems, Formulations for Oral Cavity, Medicated Chewing Gum, Cosmeceuticals, Topical formulations, etc). Currently, his major role at the institute is BPharm

Admission Coordinator, Vice President of IPNUAA (Alumni Association), Faculty Coordinator for Library, etc. He has 10 International publications to his credit including articles in Expert Opinion on Drug Delivery and Journal of Controlled Release. he has also published three book chapters with international publishers. He has also been awarded "Outstanding Faculty Award" for his significant contribution to the development of the University website. He has presented his Research work by an Oral presentation at International conference PharmaTech-2012 held at Kuala Lumpur, Malaysia; as well as presented a research poster at International Conference - APSGB's PharmSci 2014 held at University of Hertfordshire, UK. He is a life member of many Professional bodies like APTI, IPA, ISTE, ISCB, CRS-IC, IPGA, IHPA, APA, SDPS, ABAP, APP, IACP etc. He is rendering his professional services to many leading Universities of Gujarat. He is a recognized PG and PhD Supervisor at Nirma University.

Dr Mohit Shah

Dr Mohit Shah has around 12 years of research and industrial experience. He has completed MPharm and PhD from Institute of Pharmacy, Nirma University. He is actively involved in teaching various subjects related to pharmaceuticals at UG and PG level and research in the field of solubility enhancement. He is proficient at analyzing and interpreting patent literature and technical data, preparing a patent landscape and performing Non-infringement and FTO Analysis. He has 3 granted patents and 4 International Publications to his credit. He has been an author and co-author of 5 papers/posters presented at state and national level seminars and conferences. He is a recipient of the Best Student award for M Pharm program. He has attended 18 International and National level conferences and workshops. His area of interest is Novel Drug Delivery Systems. He is a recognized PG and PhD supervisor at Nirma University.

Dr. Shruti Rawal

Dr. Shruti Rawal has an academic experience of 2 years and research experience of a total of 6 years. She pursued her full-time Ph.D. in Pharmacy at Nirma University (2015-2021). She pursued her M.Pharm. in Pharmaceutics and Pharmaceutical Technology from L.M College of Pharmacy, GTU (2013-2015) and was a Branch Topper in M.Pharm (GTU). Her Areas of interests include, but is not limited to: formulation development of complex generics (OSD and Parenterals) and their optimization through Design of Experiments (DOE), Nanotechnology, Nano-biotechnology, Cancer nanotechnology, Nutraceutical and functional food formulations etc. She has published more than 22 International scientific publications including research papers, reviews and book chapters and 02 National Book Chapters with ISBN. She was a recipient of the Best Researcher Award 2021, Institute of Pharmacy, Nirma

University and was awarded Second prize for Best Oral Presentation at Indian Local Chapter of 20th International e-symposium organized by the Controlled Release Society. She is actively involved in teaching various subjects related to pharmaceuticals at UG and PG level at the Institute of Pharmacy and has attended more than 6 International and National Conferences.

Dr. Anshu Srivastava

Dr. Anshu Srivastava is a graduate in microbiology and post-graduate in biochemistry from Sardar Patel University, Gujarat. She completed her Ph.D. in Biochemistry from Bhavnagar University. She was awarded DBT-Post Doctoral Fellowship for a period of 2 years. Her area of expertise include Microbiology, Phytochemistry and Plant Biotechnology Dr. Srivastava was associated with B. V. Patel PERD Centre, Ahmedabad in the capacity of a Scientist for 8 years. She has 20 years of research and 13 years of teaching experience. She has been involved as co-investigator in 3 government-funded projects. She has also handled many industry funded projects in the field of microbiology and phytochemistry. Dr. Srivastava has more than 20 research papers and review articles in national/international journals and 3 book chapters to her credit. Her research contributions has been awarded in the form of Best student thesis, Best poster presentation, Meritorious research paper, etc. She has guided 20 students for dissertation and training programs. She has been involved in more than 15 workshops/conferences/training programs as coordinator/organizing committee member/resource person. She has participated and presented research work in more than 30 national/international symposiums and conferences.

Department of Pharmacology

Pharmacology is a unique and dynamic branch of pharmacy, since it involves the understanding of how a drug deals with the human body and how the human body responds to the drug. The department offers undergraduate courses like Anatomy and Physiology, Pharmacology, Pathophysiology and Clinical Pharmacy and Pharmacotherapeutics. The post-graduate programme in Pharmacology focuses on research-oriented courses like Cellular and Molecular Pharmacology, Clinical Research and Pharmacovigilance, etc. The department has collaborations with research institutes, pharmaceutical industries, hospitals and other basic science departments where students can participate in interdisciplinary research projects that are relevant to pharmacology. The research projects facilitate a critical examination of pharmacological approaches and analyses/techniques used in *in-vitro/in-vivo* research and produce a comprehensive dissertation and present their findings. The students are motivated for overall development, including- personality development, scientific writing, data

interpretation, presentation, documentation, good laboratory practices, communication, and soft skills. Alumni members of the department are placed in preclinical research and development, clinical research, data management, pharmacovigilance, medical writing at various industries, CRO's and reputed academic institutions. The department has received several consultancy and collaborative research projects from various government agencies and pharmaceutical industries. Research scholarships for PhD programmes are awarded on a competitive basis and are supported by University schemes.

Prof Jigna Shah

Dr Jigna Shah is currently working as a Professor and Head at Department of Pharmacology at Institute of Pharmacy, Nirma University, Ahmedabad. She has 26 years of academic and 17 years of research experience. She is actively involved in oncology and neurodegenerative disorders research. Her area of research interest is oncology, neuropharmacology, metabolic disorders, and Clinical research. Currently, she is working on four externally funded research projects from GSBTM as Principal investigator and Co-investigator worth more than 2 crores, and a few consultancy assignments. She has successfully completed four major research projects from Nirma University, GSBTM, AICTE worth more than 70 lakhs and five minor research projects worth more than 10 lakhs from GUJCOST and Nirma University. She has also completed a few consultancy assignments in the area of toxicity studies, oncology neuropharmacology, gastroenterology, and wound healing etc from Zydus, United Healthcare, Emcure Pharmaceuticals etc. She has guided more than 50 postgraduate and 3 PhD students and presently guiding 7 PhD students. She was mentor for two SSIP projects and is instrumental in availing research fellowships from ICMR, SHODH and Nirma University for PhD students working under her guidance. She has published more than 62 research papers in reputed journals. She was awarded Gold medal for securing highest marks in the final year BPharm in Pharmacology subject at L. M. College of Pharmacy, Ahmedabad. She has also won awards for the best paper presentation at various national and international conferences. She is a life member of professional organizations like Association of Pharmacy Teachers of India, Indian Pharmaceutical Association, Indian Pharmacological Society, Indian Society for Technical Education and Indian Society of Pharmacovigilance, Society of Ethnopharmacology, Controlled Release Society to name a few. She is a recognised PG and PhD guide at Nirma University.

Dr Shital Panchal

Dr Shital Panchal is working as an Associate Professor in the Department of Pharmacology. She has more than 19 years of teaching and research experience. She has published more than 65 articles in reputed journals and 2 books. Current areas of research are nutraceuticals, clinical trials, pre-clinical studies, kinetic studies, toxicity studies, metabolic, GI and neurological disorders and epidemiology. She has received major and minor research projects worth more than 1.70 Crore INR from Government funding agencies and Industries like ICMR, GUJCOST, Nirma University, AP Organics Ltd(India) and ProbioticSmart LLP (USA) as a principal investigator, from DST(India) as a co-investigator, and as a consultant from pharmaceutical and nutraceutical companies in India and USA, like Intas biopharmaceuticals, Troikaa Pharmaceuticals, Pharmanza Herbal Pvt Ltd, ProbioticSmart LLP (USA), etc. She has presented research work in many national and international conferences and chaired scientific sessions, delivered lectures in conferences. She is a member of professional bodies like Indian Pharmacological society, IAN, APTI, IPA, ISTE. She is a recognised PG and PhD guide at Nirma University. She is an ISCR (Indian Society of Clinical Research) certified Clinical Research Coordinator. She is also trained for the Laboratory Management System (ISO 15189:2012).

Dr Snehal Patel

Dr. Snehal S Patel, has 20.5 years of teaching, industrial and research experience. She has carried out many consultancy projects for pharmaceutical companies, institutes, hospitals, and allied industries. She has completed major research projects from SERB under the Fast Track Scheme for Young Scientists and is currently working on an ICMR-DHR sponsored major research project. She has also completed two minor research projects from GUJCOST and Research Society for Study for Diabetes In India as investigator. She has also worked as a co-investigator in two major research projects from the Ministry of AYUSH and from the Ministry of Atomic energy and in five interdisciplinary minor research projects supported by GUJCOST. She has published 93 research and review articles, 2 book chapters, and 2 books in international and national journals and publication houses of repute with total impact factor more than 175, 'h' index 20, and 1600 citations. She has worked as a Research Scientist at Sun Pharmaceutical Advanced Research Centre and as a Senior Research Fellow at Center for Advanced Cardiovascular and Diabetic Research at LMCP under AICTE. She has presented more than 30 papers at national and international conferences. She is a life member of several professional bodies including RSSDI, APTI, IPS, ISTE. She is a recognized PG and PhD

guide at Nirma University. Her areas of interest are metabolic disorders and its complications, immunology and cancer.

Dr Bhagwati Saxena

Dr. Bhagawati Saxena is working as an Assistant Professor in the Department of Pharmacology, Institute of Pharmacy, Nirma University. She has around 14 years of research and teaching experience. She has completed M.S. (Pharm.) from National Institute of Pharmaceutical Education and Research (NIPER), S.A.S, Nagar and Ph.D. from Indian Institute of Technology (Banaras Hindu University) (IIT-BHU). She has received UGC-Junior Research Fellowship and CSIR-Senior Research Fellowship for carrying out her PhD research work. She has worked in the National Institute of Pharmaceutical Education and Research (NIPER), Ahmedabad for nearly two years as an Assistant Professor. Her Research Interest include Investigation of new therapeutic targets for the treatment of various neurological diseases (Traumatic brain injury, Alzheimer's disease, Parkinson's disease, Stress and Stress related disorder), Phytopharmacological screening, Toxicity and Pharmacokinetic studies. She has around 20 International and National Publications in reputed Journals, 5 Book Chapters and 3 Patents to her credits. She has attended various seminars, workshops, presented papers and delivered Invited lectures at the various national and international level conferences including the one at AAPS Annual Meeting and Exposition, New Orleans, USA and Singapore Pharmacy Congress at Singapore for which she has received full travel grant from the Department of Biotechnology (DBT), Government of India and INSA-CICS (Indian National Science Academy in association with Centre for International Co-operation in Science) respectively. She is reviewer for many journals like NeuroToxicology, Brain Research Bulletin, Neurotoxicity Research, Molecular Biology Reports etc. She has completed one minor research project sponsored by Nirma University. She is recipient of 7th Venus International Women Awards – VIWA 2022, InSc Young Researcher Award 2020 and Best Poster award at Recent Advances in Pharmaceutical Sciences (RAPS) 2010 at IIT, BHU. She is a recognized PG and PhD guide at Nirma University. She has guided 14 postgraduate students as Research Guide/Co-Guide. She is a life-time member of professional bodies like the Indian Academy of Neuroscience (IAN), Association of Pharmaceutical Teachers of India (APTI) and Indian Pharmacological Society (IPS).

Dr Richa Gupta

Dr. Richa Gupta is working as Assistant Professor in the Department of Pharmacology. She is having the more than 10 years of research and teaching experience. She has completed her

PhD at most reputed labs of India CSIR- Indian institute of toxicology research, Lucknow. She was the gold medallists throughout B. Pharm and M. Pharm. She received the CSIR- Junior and senior research fellowship for carrying out her PhD work. Apart from that she is also Recipient of ICMR- Research associate fellowship and DST inspire fellowship. Her research area includes neuropharmacology and neurotoxicology on identifying the molecular and cellular mechanisms of drug induced movement and cognitive dysfunctions. She Published more than 17 international papers, book chapters in reputed journals. Her work has been recognized at various international platforms like Japan, Singapore, Vietnam, USA, Italy, Vancouver, Nice, Paris and many more. She is also the holder of international travel grants like IBRO, ISN, MDS and many more. She also received travel grants from DST, DBT, ICMR and CSIR for presenting her work at international platforms. She is peer reviewer of many journals with high impact factor including the Nature, "Scientific Reports", Elsevier, Springer, toxicology international and many more. She is the life member of IBRO, MDS, IPS, IAN and many more.

Dr. Mithun Singh Rajput

Dr. Mithun Singh Rajput is working with Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat, India as a capacity of Assistant Professor. He beholds an experience of eleven years in teaching and research. He has an expertise in neuropharmacology and received doctoral degree from Faculty of Medicine, M.G.M. Medical College, Indore, India. He is a recipient of two years' National Postdoctoral Fellowship from SERB, Department of Science and Technology, India and is associated with the research project as principal investigator. His area of interest includes diagnosis and mitigating strategies for various neurodegenerative disorders like Alzheimer's disease and cerebral ischemia, diabetes associated cognitive impairment etc. Mithun has one patent and three book chapters published and four books edited. Mithun has been credited with thirty publications in peer reviewed indexed journals and currently bagged with an h-index of eighteen. He has been serving many government funding agencies and journals and as a reviewer and editorial board member.

Dr. Anjali Menon

Dr. Anjali Menon has been a passionate teacher for over 3 years, facilitating Human Anatomy and Physiology, Pharmacotherapeutics and Clinical Pharmacy for Pharm.D students. She has an eclectic approach to acquiring new information and learning. She earned her degree from Kerala University of Health Sciences and is currently pursuing her PhD. Her fields of scholarship are drug therapy management and drug information services for renal failure

patients. A polyglot, she is also interested in animal experiments and pharmacovigilance. She has attended several conferences, and presented and published papers in fields of clinical pharmacy and pharmacovigilance.

Department of Pharmaceutical Analysis

The Department of Pharmaceutical Analysis deals with the analysis of the raw materials as well as finished pharmaceutical formulations which are very important for the evaluation of quality, safety, and efficacy of pharmaceutical products. At the undergraduate level, the department is involved in imparting theoretical as well as practical knowledge of the subject that a student needs to acquire the current scenario of quality control and quality assurance of pharmaceutical substances as per the need of the Pharmaceutical Industry and regulatory requirement. The subject includes an introduction to pharmacopoeias (IP, BP, USP, and others) and different analytical methodology used in pharmacopoeias for the analysis of drug substances and Drug Products. The department provides an exhaustive postgraduate programme focused on research and coursework relating to most recent advances in pharmaceutical and biomedical analysis, quality assurance as well as regulatory affairs. The students are motivated for overall development, including personality development, scientific writing, data interpretation, presentation, documentation, good laboratory practices, communication, and soft skills. Full time PhD students of the department got research fellowship from CSIR, ICMR, DST, DST-INSPIRE and Nirma University. Faculty members of the department are actively involved in interdisciplinary research work and collaborate with scientists of various reputed research organisations, academic institutes, and industry.

Prof Priti Mehta

Dr Priti Mehta is working as a Chair Professor and Head of Pharmaceutical Analysis Department at Institute of Pharmacy, Nirma University. She started a postgraduate programme of Pharmaceutical Regulatory Affairs at Institute. Her area of expertise encompasses stability studies of drugs, Impurity profiling, elucidation of degradation pathways of drugs, isolation and characterisation of active moiety from natural resources, bioequivalence and bioavailability studies, Space medicine stability, development of radioprotectors, etc. She is a pioneer in getting interdisciplinary research grants at Institute of Pharmacy. Dr Mehta worked on many research projects from government funding agencies, like AYUSH, ISRO, BRNS, GUJCOST etc. She is mentor of Women Scientist under WOS-A scheme of DST. Under her guidance many students got research fellowships from

UGC, CSIR, DST-INSPIRE, ICMR, SODH and Nirma University. Dr Mehta has published more than 75 research papers and review articles in peer reviewed scientific journals. She has presented research papers in International conferences in the USA. Dr Mehta has delivered guest lectures at various Institutions during seminars, workshops and staff development programmes. She has rendered professional services to leading universities in various capacities. One patent was granted for her research work and she has guided 12 PhD students for pharmaceutical Research. Her research students won scientific poster awards at national forums. She is a life member of various organizations like ISCBC, APTI, IPA and ISTE. She is a recipient of the prestigious M L Khurana award for the best research paper in Pharmaceutical Analysis. She is also recipient of P D Sethi award three times and R V Patel Best thesis award in guide category. She was conferred prestigious APTI woman of the year 2018 award by Association of Pharmaceutical Teachers of India for her scientific and academic contribution.

Dr Charmy Kothari

Dr Charmy S. Kothari is working as Associate Professor in the Department of Pharmaceutical Analysis and has more than 19 years of teaching and research experience. Her research areas of interest are analytical and bio analytical method development and validation, impurity profiling and stability studies as well as Isolation, identification and characterization of marker compounds from plants and formulations and pharmacokinetic study. Her research area also includes regulatory guidelines, registration procedures, evaluation and approval procedures of various regulatory agencies worldwide as well as Pharmacovigilance systems. She has around 58 research and review papers published in reputed Indian and International journals. One of her papers has been published in the prestigious Elsevier journal Trends in Analytical Chemistry (IF=13.1). She is a reviewer of several national & international journals in her research area of interest. She has presented a paper as well as various posters at international, national and state level conferences and received several awards for best oral and poster presentation. She is twice the recipient of Dr P. D. Sethi memorial annual national award for research paper certificate for the year 2007 and 2017. She is actively involved in various capacities in organizing National and International Conferences/Workshops. She has also received financial assistance from GUJCOST for organizing workshops and National seminars. She is a life member of various organizations like RAPS, ACS, APTI, IPA & ISTE. She is a recognized Post Graduate and Ph. D. Guide at Institute of Pharmacy, Nirma University. Under her guidance, three PhD students were awarded an ICMR-SRF research grant; while one PhD. student received prestigious CM fellowship-SHODH from Government of Gujarat for research work. She received research grants from government funding agencies like

GUJCOST, DST, ICMR and Nirma University. She also received DST-SERB International Travel Grant to attend the International Conference AOAC at Toronto, Canada.

Dr Nrupesh Patel

Dr Nrupesh has been working as an Assistant Professor at Nirma University since January 2008. He has completed two minor research projects sponsored by Nirma University. He has 17 years of teaching experience. He has presented various posters and papers at international and national level conferences and competitions like GUJCOST-2004, ISAS-2005, NCIP, RBF-ZRC conference, NIPICON, ICONICA-2020 etc. He has published 14 papers in reputed international and national journals. His areas of research are spectroscopic and chromatographic analytical method development and validation of analytical methods. He is a life member of professional bodies like ISTE, APTI & IPA.

Dr. Misari Patel

Dr. Misari Patel is working as an Assistant Professor in Department of Pharmaceutical Analysis at Institute of Pharmacy, Nirma University. She has more than eight years of experience in teaching and research. She has pursued a full-time PhD from Institute of Pharmacy, Nirma University and was also awarded the Senior Research Fellowship (SRF) from Indian Council of Medical Research (ICMR) to continue her PhD work. Her areas of interest include bio-analytical assays and their validation, pharmacokinetic interactions, impurity profiling, and regulatory compliance of pharmaceuticals and medical devices. She has nine peer-reviewed scientific publications in renowned international journals like Trends in Analytical Chemistry (IF=13.1), Journal of Chromatography B and Biomedical Chromatography. She has also presented posters and papers at several National and International conferences.

Department of Pharmacognosy

The Department of Pharmacognosy is engaged in imparting basic and advanced aspects of different natural sources as pharmaceutical raw materials, traditional medicines, phytochemical screening, and scope of Indian medicinal plants in the allied sciences like food, nutraceuticals, and cosmetics. The department deals with theoretical as well as practical knowledge of undergraduate courses related to pharmacognosy, phytochemistry, analytical pharmacognosy, the chemistry of natural products, herbal drug technology, and nutraceuticals. The department is offering consultancy services to the herbal drug industries, various research institutes, and cosmetic companies and successfully completed many consultancy projects. Several students are pursuing their PhD under the guidance of the able faculties in the department with research fellowships under the Government scheme of DBT, INSPIRE-DST and Women Scientist WOS-A.

Dr Niyati Acharya

Dr. Niyati working as Asst. Prof. and Head, Department of Pharmacognosy. She has 20 years of experience in teaching and natural product research, published 43 research papers, 10 book chapters, 1 patent and presented more than 80 posters. She has completed research projects from Department of Biotechnology, New Delhi and GUJCOST, Gandhinagar of more than 50 lacs and doing many minor research and consultancy projects for the herbal drug industry and research centers. Being a recognized PG/Ph.D. guide, guided more than 33 M. Pharm & 12 M. Sc Cosmetic technology students, 4 PhD students have been awarded and 2 are pursuing Ph. D at Nirma University under her able guidance. She is a recipient of P.K. Debnath Memorial Award: SFE Young Ethnopharmacologist Award 2020 for Best Oral Presentation in the field of Ethnopharmacology and medicinal plant research, GABTP national woman scientist award 2019 at 29th APSI scientist meet and international conference on Drug discovery and development in Agrobiotechnology and Pharmaceutical sciences, Best research paper award at the International Symposium on Cancer research at GCRI in 2014 and Dr. P.D. Sethi's research paper award 2006. The research area of her interest includes phytopharmacology based investigations & characterization of biomarkers from medicinal plants for the management of neurodegenerative disorders like Alzheimer's disease, wounds, obesity, liver disorders. She has been working on development of novel and target-based delivery for natural bioactives across blood brain barrier and wounds. She is a life member of various professional bodies like American Society of Pharmacognosy, APTI, ISP, IPA, ISTE, Society of ethnopharmacology, Indian Academy of Neurosciences, IPGA and

has been working as an editorial member and reviewer for many journals of Elsevier, Taylor and Francis and Willey.

Dr Nagja Tripathi

Dr Nagja Tripathi is working as an Assistant Professor in the Department of Pharmacognosy. She has about 21 years of experience which includes 17 years of teaching experience and 4 years of industrial experience. She has worked in Quality Assurance, Formulation Development and Quality Control departments of reputed pharmaceutical companies like Cipla and Sanofi Aventis. She has presented several scientific posters in various national & international conferences and published several papers in reputed journals. She has completed two minor research projects funded by Nirma University. She is a life member of various professional bodies like APTI (Association of Pharmaceutical Teachers of India), Society of Pharmacognosy and Indian Society of Technical Education (ISTE). Her research interest is phytopharmacological screening & standardization of herbal drugs, development of herbal formulations and herbal cosmetics. She is a recognized PG and PhD guide at Nirma University.

Dr Dipal Gandhi

Dr Dipal Gandhi is working as an Assistant Professor in the Department of Pharmacognosy. She has more than 13 years of academic experience and also worked as a senior research fellow with BV Patel PERD research center. She has received Dr. P. D. Sethi's memorial award for best research paper on Application of TLC/HPTLC in Pharma, Herbal and other chemical analysis by Anchrom enterprises India Pvt. Ltd in 2019. Her area of interest is mainly in Phytochemical Investigation, standardization and quality control of herbal drugs, analytical method development of phytoconstituents and evaluation of their pharmacological activity. She has published 8 papers in reputed national and international journals. She has attended many national and international level conferences, QIP, FDP, STTP and presented several posters in many national and International conferences. She has guided 15 postgraduate students as Research Guide/Co-Guide. She is a life member of professional bodies like the Association of Pharmaceutical Teachers of India (APTI), Indian Pharmaceutical Association (IPA), Indian Society of Pharmacognosy (ISP), ISTE and Indian Society of Chemists and Biologists (ISCB).

MANAGEMENT & STAFF

University Management

Name	Designation
Dr Karsanbhai K. Patel	President, NU
Shri K. K. Patel	Vice President, NU
Dr Anup Singh	Director General, NU
Shri G. R. Nair	Executive Registrar, NU
Prof P. N. Tekwani	Dean, Faculty of Doctoral Studies and Research (FDSR), NU
Dr. Rajesh Patel	Additional Director, Institute of Technology
Prof Subir Verma	Dean, Faculty of Management Director, Institute of Management
Dr. Hrudanand Misra	Additional Director, Department of Undergraduate Studies, Institute of Management
Prof. Gopal Natesan	Dean, Faculty of Pharmacy Director, Institute of Pharmacy
Prof Sarat Dalai	Dean, Faculty of Science Director, Institute of Science
Dr. Madhuri Parikh	Dean, Faculty of Law I/c Director, Institute of Law
Prof Utpal Sharma	Dean, Faculty of Architecture & Planning Director, Institute of Architecture & Planning
Prof Udai Paliwal	Director & Dean, Faculty of Commerce
Prof Sangita Shroff	Director & Dean, Faculty of Design
Shri Ashishbhai Desai	Hon. Head of the Dept. of Students' Activities
Prof Tejal Mehta	Deputy Director, Centre for Quality Assurance and Academic Development (CQAAD) cell, NU

University Department Head

Name	Designation
Ms. Palak Shah	Chief Accounts Officer
Dr Nilesh M. Patel	Deputy Registrar, Examinations and PhD Section
Dr Ravindra Sen	Deputy Registrar, Academic and Establishment
Dr Bhaveshkumar Parekh	Coordinator, Students Welfare Board
Shri Alok Bhatnagar	Public Relation Officer

Non-Teaching Staff Members

Name	Designation
Ms. Telgy James	Office Superintendent
Ms. Vicky Takhtani	Corporate Relation Manager
Mr. Virendra Goswami	I/c. Librarian, IP
Mr. N. Nityanandan	PA to Director
Mr. Hasmukh B. Rathod	Assistant
Ms. Pooja P. Pandey	Assistant
Ms. Jigisha D. Patel	Assistant
Mr. Devendra Vaghela	Assistant
Ms. Jaya Dabhi	Library Assistant
Ms. Kinjal Parekh	Library Assistant
Mr. Rohit Patel	Laboratory Assistant
Mr. Mukesh Patel	Laboratory Assistant
Mr. Shailesh Patel	Laboratory Assistant
Mr. Jignesh Patel	Laboratory Assistant
Ms. Dharti Patel	Laboratory Assistant
Mr. Chetan Patel	Laboratory Assistant
Ms. Drashti Patel	Laboratory Assistant
Ms. Hiral Patel	Laboratory Assistant
Ms. Kalpana Patel	Laboratory Assistant
Ms. Dharmi Shah	Computer Operator

INDUSTRY INSTITUTE INTERACTION CELL

Objective of Industry Institute Interaction (III) Cell is to constantly interact with industry so as to maintain healthy and mutually beneficial relations between industry and academia. III Cell works towards providing close links with pharmaceutical industries, contract research organizations and other state and national level R&D organizations so that it helps the institute in student placements / training / Curriculum improvement etc. It strives to find out the gap between the needs of the industry and the end product of the Institute. III Cell tries to facilitate and enhance quality of interaction between the institute stakeholders and Industry.

At Nirma University, each institute has its III cell, which is managed by a dedicated Corporate Relations Manager. It is supported by faculty placement coordinators and student coordinators, working under the guidance of the Director and in association with respective heads of the departments. III Cell facilitates student visits to industries, industrial training, project, campus interviews & placement. Placement of students for industry training/projects during summer has been benefiting students to a great extent.

It trains and grooms the students so as to ensure that students can smoothly transit from academics to industry. The students are oriented and trained towards placement related topics like writing better resumes, participating in group discussions, facing interview, interview etiquettes etc. With the efforts of III cell, the students of recent years pass out batches have been placed in companies like Torrent Research Centre, Novartis, Nestle, Sun Pharma, Sanofi India, Amneal Pharmaceuticals, Troikaa Pharma, Eris Lifesciences, Zydus Cadila, Piramal Healthcare, Intas Pharmaceuticals, ELC group, Lambda Therapeutics, APCER Lifesciences, Cadila Pharma, Johnson & Johnson, Rusan Pharma, Allen Career Institute, Finecure Pharmaceuticals, etc.

Industries Involvement in Course Curriculum Design

In various academic bodies, there is adequate representation of industry experts which makes the curriculum rich and relevant to industries. Participation of experts from the pharmaceutical industry is regularly helping us in designing and updating the curriculum. Portions of the syllabus are also covered by Industrial experts to enhance their knowledge.

Industrial Training for the undergraduate and postgraduate students

Training is an integral part of the study to prepare the students for the real world problems. The undergraduate and postgraduate students are supported for internship at various industries for 6 to 8 weeks under the supervision and guidance of respective industry personnel. The faculty carries out monitoring and evaluation regularly.

Placement cell

Placements play an important role in meeting the career aspirations of each student enrolled in the programme. In its endeavor to assist students in meeting his/her career goals, the Institute has a well-equipped and organized Placement Cell, which is in constant touch with the industry so as to create better placement opportunities for students.

Final Placement

The Institute helps each student in exploring placement opportunities by inviting various companies for campus recruitment of students who are in the final year of the programme and are likely to graduate at the end of the academic year.

The final placements, at the Institute, are a result of very systematic interaction with the industry and continuous career counseling of the students. Right from the beginning of the programme, students are continuously counseled with regard to his/her career aspirations and options, which in turn is vigorously followed up with the potential companies for participating in the placement programme of the Institute. This not only helps the students in getting their 'dream' jobs but also assists the visiting placement companies in identifying the 'right' candidate for their organization. However, the placement will be governed by Placement guidelines.

Planning for Placement

The placement activity is primarily managed by the Placement Committee headed by Director of the institute as Chairperson with the help of the Manager Corporate Relations and other committee members which includes faculties and students from various departments.

The Broad Activities Undertaken by the Placement Cell are:

- Formation of students' placement committees for final placement and also for getting industrial training and industry linked project work for students.

- Grooming and training of the candidates for the placements so that their chances of selection increase.
- Preparation of placement brochure for final placement.
- Communication, networking and relationship building with the potential recruiters
- Pre-placement visits (PPV) to the companies.
- Invitation to potential recruiters to visit the Institute.
- Continuation of placement activities after the stipulated period, till all the students are placed.
- General follow-up, joining formalities and other administrative activities.

Institute Placement Committee

The placement related activities, at the Institute, are carried out by Placement committee – it comprises faculties from various departments of the institute. Student representatives from various branches who are in their final year are also appointed as committee members. The committee is headed by the Director of the Institute and Manager Corporate Relations acts as a member secretary. The placement committee is usually formed in the month of July.

Student Registration for Placement

The students who are in their final year and interested in availing placement support from the institute, will have to register themselves for placement. Those who don't want any kind of placement support need not register themselves. Registration for placement is done by paying placement registration fees decided by the institute from time to time.

Placement Brochure

The Institute prepares a placement brochure, giving details of the students ready to be placed for the benefit of the students and potential recruiters. This brochure is subsequently shared with potential recruiters. The students registered for placement are included in this brochure.

Placement Eligibility

Students who fail to clear the academic exams & other formalities at the end of course, shall be removed from the placement process and hence will not be eligible for campus placement activities. Any major disciplinary actions will terminate the student from campus placement activities

Placement Process

Once an organization shows interest in recruitment from the Institute, the students are asked to register their interest for the job. An email informing about the job opening and its details will be shared with the student coordinators and placement committee. Placement cell will try to get as many details as possible about the job profile. The registration of interest is to be done by students from their official Nirmauni ID on the provided link, after going through the job profile. It is not compulsory. Only students who register for that particular job profile will be considered for the job opening and their names and CVs will be shared with the company. It will be the responsibility of a student to keep his/her resumes updated with the placement cell. Once the names of students are submitted, students are not allowed to withdraw from the selection process.

Sometimes companies come for Pre-Placement Talk / Group Discussion / Written Test and the short-listed students are interviewed at the campus or off the campus. Alternatively, some companies select students based on their CVs and may invite them for Group Discussions/Interviews at their offices.

Guidelines for Placements

The final placement is governed by certain guidelines, which are framed to facilitate the students to get maximum benefits:

These guidelines are revised from time to time. The guidelines being followed currently are:

1. If a company is coming for a Pre-placement talk, attending a Pre-Placement talk is compulsory for all the students unless informed otherwise by the student in writing.
2. A student can only withdraw his/her name before the CVs are sent to the company.
3. Under no circumstances, the students will personally communicate with the companies (except those who opt for private placements). If a student breaches this code, he/she may be debarred from the final placement at the campus.
4. If the company shortlists/selects a student on the basis of his/her CV, the student has to go through the next steps of the selection process.
5. In case a student opts out after getting short-listed by the company, he/she will not be eligible for final placements through campus.
6. Students once finally selected by a company through campus placement shall not be considered for placement in future at the campus.
7. Students have to wear formal dress during the PPT, Group Discussions and Interviews.

8. The eligibility of a student, who can apply for the selection in a company, will be determined based only on the specifications/ job profiles offered by the company and as directed by the respective companies.
9. The Placement cell will try to bring and put forward as many details as possible for the job openings to the students. Students are not permitted to ask for location preferences or negotiate on salary, if it is already disclosed by the company.
10. The Institute will not interfere in the selection process of the visiting companies.
11. A student can appear for placement for any number of companies until he/she gets selected, and after selection shall not be eligible to appear for placement in any other company.
12. In case a student has appeared for more than one company before the declaration of the result, the student has the option to select the company of his choice from the results of the other companies for which he/she has already appeared on that particular day. This clause is applicable only if one is through the interview process (full selection process) of two or more companies simultaneously.
13. In case, if one has appeared just for written test process of company A, before appearing for an interview, and he /she has got selected in some other company, then he / she will not be allowed to appear for further selection process of company A.
14. The student who receives an offer letter from the company shall join the company as per terms of offer letter.
15. In a batch, when we reach a level of 75 % placement, for the students remaining to be placed, they will NOT HAVE the right to exercise their choice and sit for selective companies. He/she has to sit for all companies which they qualify for. However, students who submit their reservations (example: location, remuneration, industry/company, and profile) will not be forced / allowed to sit for those specific profiles, companies, location and remuneration.
16. Institute will try to place those students suitably who have specific industry / job preferences / location constraints, etc. In case, if these students remain unplaced after the completion of the programme, the Institute for all official records will consider them placed.
17. Students noticed to be underperforming deliberately will be put out of the placement process for the next 5 companies. (Under performance will be verified through the feedback from the company officials)

18. All communication related to placements / job openings will be done on the email Id registered with the placement cell. It is the student's individual responsibility to check the emails on a regular basis.
19. It will be the responsibility of a student to keep his/her resumes updated with the placement cell. If any falsification of data or serious misrepresentation of information is found in the CV or registration details of a candidate which may influence the chances of selection, he/she will be immediately removed from the placement process.
20. It is obligatory for each student to abide by the rules/guidelines as stated above, failing which he/she shall be debarred from the placement process of the Institute. However in the interest of the Students / Institution and corporate relations the placement cell has the discretion to make changes in the above guidelines/rules. In case of any doubt or dispute, the decision of the Chairperson of the placement committee will be final. No coercion by any student (s) will be allowed at any level. The Chairperson's decision will be final and irrevocable.

PLACEMENT SUMMARY 2017 - 2022

	2017		2018		2019		2020		2021		2022	
	Placed	Interested	Placed	Interested	Placed	Interested	Placed	Interested	Placed	Interested	Placed	Interested
		Students		Students		Students		Students		Students		Students
M.Pharm – Pharmaceutical Chemistry	-	-	1	1	4	5	2	2	4	4	NA	NA
M.Pharm - Pharmaceutical Analysis	6	6	-	-	5	6	8	8	9	9	09	10
M.Pharm - Pharmaceutics	10	10	13	14	9	9	9	10	11	13	11	12
M.Pharm – Pharmacology	4	4	9	9	9	10	11	11	8	8	09	10
M.Pharm – Regulatory Affairs	12	12	13k	13	8	8	9	10	8	8	07	07
M.Pharm	33	33	43	44	35	38	39	41	40	42	36	39
B.Pharm	8	10	6	7	10	10	13	15	10	11	12	12
Grand Total	41	43	49	51	45	48	52	56	50	53	48	52
Ph.D Students Placed	-	-	3	3	-	-	-	-	-	-	0	0
% students placed out of students interested for placement *	95.34%		96.07%		93.75%		92.85%		94.33%		92.30%	

GENERAL RULES & REGULATIONS

Attendance

Guidelines for Students

- The students are required to attend all the classes, Practical work, Tutorials conducted throughout the day.
- In every course, attendance will be taken by the course coordinator / faculty in-charge of the class. Mere attendance is not the objective but positive interaction and learning environment is a given expectation from the students.
- Attendance will be taken in the first 10 minutes of the class. Students have to be present in the class before the faculty enters. If students enter later then they will not be granted attendance under any circumstances.
- Students are required to seek prior permission from the Director / HODs for remaining absent from any of the classes, Practical work, Tutorials by submitting leave application available with PA to Director. Absence without prior permission would be treated as an indiscipline act and will be processed accordingly.
- In case of any emergency/ medical reasons, if students are not able to seek the prior permission, they are required to intimate to the Director the reasons for remaining absent through email (director.ip@nirmauni.ac.in). In case of leave due to medical reasons, an application along with medical certificate and test reports is to be submitted within three days after the student resumes the Institute to the attendance committee coordinator.
- As per the University regulations, students are required to attend 85% of the classes conducted in each course. However the Director of Institute may consider upto 65% attendance with valid reasons for absence and the appeal committee appointed is convinced with the reasons provided by appealing student for his/her absence. However, in no case any student should be permitted with less than 65% attendance even with valid reasons.
- First attendance review will be taken in the mid of the semester and final attendance review will be taken at the end of the semester. Students having a shortfall in the attendance, will be called in the appeal committee. The Appeal Committee will hear the candidates and decide the case accordingly.
- Prior permission of the Director shall be obtained for availing of Duty Leave in the form of a leave application from the Director's office. For attending seminars / conferences / workshops / competitions / any other events outside the institute / any personal functions, a duty leave application must be submitted with proofs normally

prior 3 days to the commencement of the leave. The duty leave along with necessary documents is to be submitted to Ms. Poojaben (Student Section) within three days after the commencement of the event.

- Students have to take permission from the Faculty Coordinator of the respective event for publicity of the events.
- Attendance related to practicing for any type of event will not be considered.
- By looking at the large number of participation from the same students in various events outside the institute, it was decided that the participants will be restricted maximum three times outside the institute / university for the same students in the respective semester.
- Sanctioned Leave will be credited to the attendance of the students at the time of final review.
- The Institute will not be responsible for the student losing any component of assessment on account of his leave.

Class Conduct

- The students are expected to be in the classroom at least five minutes prior to the commencement of the class. Unpunctuality is not acceptable.
- Students are expected to come prepared to the class with the readings/ chapters and cases mentioned in the course outline for the session. The student may be asked to leave the class if he/she is not fully prepared for the session.
- Use of mobile phones is strictly prohibited in the classrooms, corridors and inside the blocks. Violation would imply confiscation of the mobile phone.
- Students are expected to behave in a responsible manner and abstain from chatting amongst themselves while the class is in progress.
- Activities like video shooting, photography, playing musical instruments and listening to radio and tape recorders are prohibited in the campus.
- Any indiscipline or misbehaviour in class would warrant disciplinary action against the student.

Learning Resources Centre (Library)

At the Institute of Pharmacy, it is a belief to facilitate production and dissemination of knowledge, information, insights & intellect in all scientific communities. The library plays a vital role in the collection, development and dissemination of scientific information and includes a wide range of volumes in different branches of Pharmaceutical Sciences and allied

subjects and also provides extensive access to leading Indian and international research journals.

The Library at the Institute of Pharmacy houses more than 9,476 volumes of books selectively chosen for reading and reference, 367 CDs, 1,835 Bound Volumes, 1036 Project Reports (B.Pharm), 646 Research Project Reports (M.Pharm), 98 PhD Theses and subscribes to about 22 printed national, 1 international periodicals, 6 magazines and 8 newspapers. The library also provides Web access to 211 e-journals: Science Direct: Pharmacology, Toxicology and Pharmaceutical Sciences Module (87), InfoTrac Pharmacy Collection (IPC) - Cengage Gale Database (116), Royal Society of Chemistry Journals (3), Springer Journals (2), International Journal of Pharmaceutical Sciences and Nanotechnology (1), Journal of Health Management (1) and Pharmacological Review (1).

Online Resources

Science Direct, web-based interface to the full-text database of Elsevier Science journals one of the world's largest providers of scientific, technical and medical (STM) literature offers a rich electronic environment for research journals, bibliographic databases and reference works. We have unlimited and complete online access to 87 journals (*Pharmacology, Toxicology and Pharmaceutical Science*) of Elsevier Science available in the Science Direct database.

Resource: 87 journals published by Elsevier Science

Back-files: 1997 onwards

Simultaneous Access: Unlimited

Click here: <http://www.sciencedirect.com/>

The InfoTrac Pharmacy Collection (IPC) - Gale Database is designed for students, scholars and teachers of primary and core pharmacy research. This collection covers many subject areas, including Human Anatomy and Physiology, Therapeutics, Dispensing pharmacy etc.

Resource: 116 journals

Back-files: 2000 onwards

Simultaneous Access: Unlimited

Click here: <https://infotrac.gale.com/itweb/ipnu>

The Royal Society of Chemistry publishes one of the world's leading journals covering the entire spectrum of chemical sciences and related fields. Known for rigorous, fair peer review

and fast publication times, journals publish the best science, from original research articles to authoritative reviews.

Resources: 3 journals

Back Files: 2009 onwards

Access: Unlimited

Click here: <https://www.rsc.org/>

The Springer publisher focuses on the fields of pharmacy, nursing, gerontology, psychology, social work, counseling, public health, and rehabilitation (neuropsychology).

Resources: 2 journals

Back Files: 2007 onwards

Access: Unlimited

Click here: <https://link.springer.com/>

The International Journal of Pharmaceutical Sciences and Nanotechnology (IJPSN) is an internationally circulated research journal in the pharmaceutical and nanotechnology fields.

Resources: 1 journal published by Pharma Book Syndicate

Back Files: 2008 onwards

Access: Unlimited

Click here: <https://www.iipsnonline.com/index.php/iipsn/about/subscriptions>

The Journal of Health Management is designed as a forum for exploring major issues of health policy and health management (including population and family welfare) in developing countries with a view to assisting the better implementation of desired changes. It caters to the needs of health policy-makers, health managers, reflective practitioners and action-oriented researchers.

Resources: 1 journal published by Sage Publisher

Click here: <https://journals.sagepub.com/home/jhm>

Pharmacological Reviews showcases important review articles on topics of current interest. Topics covered are biochemical and cellular pharmacology, drug metabolism and disposition, renal pharmacology, neuropharmacology, behavioral pharmacology, clinical pharmacology, and toxicology.

Resources: 1 journal published ASPET

Back Files: 1997

Access: Unlimited

Click here: <http://pharmrev.aspetjournals.org/>

Automation

The Library and Resource centre is fully automated with Open Source, user-friendly library software KOHA that facilitates automated circulation (issue & return) of books and location and availability information of the books stocked in the library. Online Public Access Catalogue (OPAC) is also available on the Internet to inquire about the status of the resources. To computerize the bibliographic details of the resources, a bar-coding system is used.

Facilities and Services

The Library & Resource Centre offers the following facilities and services:

Facilities:

- Photocopying
- Online Public Access Catalog OPAC (Computerized Information Search)
- Internet browsing
- Book Bank
- Library Mobile Apps

Services

- Reading /Reference
- Circulation
- User Education Programmes
 - Library Orientation Programme
 - Information Literacy Programmes
- Current Awareness Service
 - New Arrival Lists of Books and Periodicals (Display on Notice Board as well as through Emails)
 - Newspaper Clipping
 - Current Content Alerts through RSS feeds
- Selective Dissemination of Information (on demand service)
- Examination Papers Depository on Google Drive

- Digital Library (Institutional Repository)
- Interlibrary Loan
- Remote login

Other Activities

- Screening TED Talks
- Book Review
- Celebration of National & International Days
- Literature Club (Gyan Samhita): - intended to bring out the literary talents of the students
- Training of Zotero & Mendeley (Reference Management Software) for IPNU Users.

Learning Resource Centre Rules and Regulations-

Rules for Book Loans for Students

- The Library Issue/Return counter will be open from 9.00 a.m. to 6.00 p.m. only.
- Students are supposed to show their library usage by entering their roll number on the Check Counter whenever they come into the Library
- B. Pharm / M. Pharm Students can borrow three books at a time for the period of 10 days on their Identity Card and Research Scholars can borrow five books for a period of one month. Books will be renewed once only if there is no reservation for it.
- Library resources like Reference Books, Periodicals, Bound Volumes, Standards, CDs, and Audio/video Cassettes are to be referred within the library premises.
- Students can issue a reference book for overnight period (Overdue Charge Rs. 100/- per day per book) and two backdated issues of general magazine for two days (Overdue Charge per day Rs. 5/- per magazine).
- Before borrowing the book, he/she has to verify the physical condition of the book. If he/she finds the physical condition of the books bad, he/she must inform Librarian's immediately.
- It is the borrower's responsibility to keep the book and return it to the library, but if a student loses or misplaces the book, he must report it to the librarian on the same day. He will have to clear his library account by either replacing the book or by paying the cost within a week. If he/she fails to do so, not only the cost of the book, but also overdue will be recovered from the student.
- Borrowers will be responsible for any damage found while returning books.

- Students will have to return the borrowed books on time. The overdue charge is Rs.2/- per day.
- If any student's card is lost, he has to report to the Librarian immediately and operation of the account will be in abeyance until he gets new.
- If students are going on a Short-term industrial visit or project, they have to maintain the schedule of returning the books. This rule can be relaxed on the recommendation of the HOD for borrowing books for his project, when a student is deputed for a project for the entire semester out of Ahmedabad.
- If any student is caught, stealing books or tearing pages will have to pay the entire cost of the books plus Rs.500/-. And Library Account will be suspended for two months in addition to the disciplinary action to be initiated.
- If any book lost by any student, not available in the market, he/she is required to pay three times the original cost. The A/c has to be cleared within two weeks at least.
- If any student misplaces/loses any complimentary copy, the HOD will decide the amount to be paid by the student after consulting the subject expert.
- To maintain Discipline and Silence in the library is mandatory. If any student fails, then he/she will be penalized / punished.
- If students violate library rules, their identity cards will be collected and reported to the institution's head in order to initiate disciplinary action.

Rules for Book Reservation for Students

- Users can reserve books from their library account through the online library's OPAC or reservation forms can be obtained from the Library Check Counter.
- To make a reservation through the online Library OPAC, click on the place on hold icon.
- Only Issued (Checked Out) books can be reserved through your library account of Library Software.
- Users can reserve and cancel any title or book which is not available in the Library.
- Books can be collected within two days after their arrival at the library.
- If you do not collect books within said period, your reservation may be treated as cancelled.

Rules for Book Bank Facility

The Library Resource Center provides a book bank facility for the students of the Institute of Pharmacy. The primary goal of this service is to assist needy and deserving students.

- The book bank facility will be given to the 10 % students of the total strength of each Semester on the basis of the income of their parents and the ceiling of the same will be Rs.6.00 lakhs per annum.
- Depending upon the availability of the sets of books, priority will be given to the students on the merit of the last examination.
- If a student fails the Semester End Examination, he or she will be ineligible for the Book Bank Facility.
- 10% of the book value (set of textbooks) is to be taken as maintenance charges from all the categories of students who are selected for the Book Bank Facility.
- All students who are using the facility must ensure that they return the entire set of books provided to them within two days of completion of their final examination in the concerned semester/term.
- The overdue charge is Rs.2/- per day per book.
- If any student availing of the facility loses the book / damages the book / disfigures the book, he / she shall replace the volume(s) with new books (or pay the current cost of the book plus a fine, if any, as may be directed by authorities).
- The cost of this application form is Rs.10/-.

Library Suggestion

- You are welcome to give suggestions for the improvement of the library services and collections.
- You are free to give your valuable suggestions to us.
- The Library Suggestion Register is available at the library check counter.
- You may see the status of your suggestion on the Library Notice Board or in the suggestion register.

Library Users are asked to strictly follow the below given points.

- Silence should be maintained in the Library Premises.
- Mobile phones are prohibited within the library premises.
- Keep library books in their proper place/on the table.
- Handle all the library materials with care.
- It is forbidden to spoil or damage library materials.
- They are not permitted to bring their own reading materials or issue books to the library.
- It is not permitted to bring personal floppy disks, CDs, or DVDs to the library. With the permission of the library staff, students may copy library CDs and DVDs.

- Failure to follow the above rules on a regular basis will result in the library's membership being terminated.
- If they have any problems, they can contact the library staff at any time.
- Give Suggestions to Improve Library Services.

Timings

Opening – Closing Hours:	08.45 am - 06.15 pm (Monday – Friday)
	08.45 am – 4.45 pm (1st, 3rd & 5th Saturday)
Issue/Return Counter:	11.00 am – 06.00 pm
	09.00am – 4.30pm (1st, 3rd & 5th Saturday)
Photocopying Service:	11.00 am - 01.00 pm

Please log on to <http://pharmscilibrary.nirmauni.ac.in/> to know more details about the library.

In addition to the Institute of Pharmacy Library resources, students and faculty could access the digital resources of the University from the same homepage.

Computer Laboratory Rules

General

- Misuse of Internet/Intranet mail service will invite strict disciplinary action.

For the usage of Computer Lab

- Students should make an entry in the log register.
- Students should not change properties/configuration of the client machines.
- Students should keep silence and observe discipline while working.
- Students should not leave rough papers on desks.
- Students should not eat or drink in the computer centre.
- Pen drive is prohibited in the computer centre.

*** ACADEMIC REGULATIONS FOR POST GRADUATE DEGREE PROGRAMMES**
(M. PHARM.) UNDER FACULTY OF PHARMACY

DEFINITIONS

PROGRAMME	-- M. Pharm. (Programmes as per Annexure 1)
COURSE	-- One of the constituent subjects of the Programme
SEMESTER	-- Duration for studying a course
TERM	-- A portion of an academic year, normally coinciding with a semester. The words "Term" and "Semester" are generally used synonymously.
REGISTRATION	-- Procedure for getting enrollment in a course
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. A+ to C+ are Passing grades, C -- Conditional pass, FF -- Fail, IF – Interim fail
CREDIT	-- A numerical figure associated with a course. On passing the course, the student earns this "credit".
GRANTING A TERM	-- This expression is used to indicate whether the in-semester performance of the student is up to acceptable standards. GT – Term granted, NT – Term not granted
REGULAR APPROVAL	-- If a student is unable to attend the institute or appear in an examination on account of unavoidable reasons like illness, accident or unforeseen circumstances, prior / prompt intimation and request to HOD is necessary for seeking approval for the absence. The approval of HOD so obtained will be referred as Regular Approval.

SHORT FORMS

Institute of Pharmacy	-- Institute
Director of Institute of Pharmacy	-- Director
Dean of the Faculty of Pharmacy	-- Dean
Head of concerned Department	-- HOD
Appeal Committee consisting of	-- Appeal Committee consisting of Director, Dean & Two Senior Faculty Members nominated by Director

* Published vide Notification no. NU-318 dated 3.8.2004, AC mtg.-8.7.2004, reso.-3(a)&(b), read with Notification no. NU-884 dated 10.3.2005, BoG mtg.-5.2.2005, reso.-7

Initial Registration	-- IR
Repeat Registration	-- RPR
Repeat Registration for LPW	-- RL
Repeat Registration for studying all components of a course	-- RS
Term Not Granted	-- NT
Re-examination Registration	-- RER
Re-examination registration for CE component of a course	-- REC
Re-examination registration for SEE component of a course	-- RES
Continues Evaluation	-- CE
Laboratory/Project work	-- LPW
Semester end examination	-- SEE
R. Pharm. (PG)	-- R.

R.PHARM. (PG) 1. PROGRAMMES

The Post Graduate Degree Programmes in Pharmacy, leading to the degree of Master of Pharmacy, are offered by Nirma Institute of Pharmacy. All Programmes are full time minimum of two years duration and are approved by Nirma University.

Intake: To be decided by the Academic Council from time to time

R.PHARM. (PG) 3. CATEGORIES OF COURSES

The following categories of courses are offered in the programmes.

3.1 CREDIT COURSES

These are compulsory courses. They are included in the schedules of various semesters. Credits earned for these courses will be considered for evaluating the academic performance levels of the student.

3.2 SUPPLEMENTARY COURSES

These courses will be offered as and when necessary. They are compulsory courses. They are not included in the schedules of the semesters but are shown as additional courses, wherever applicable.

No credits are assigned to these courses. However performance in these courses will be considered while deciding continuation of the student in the Programme or his registration in higher semester.

NOTE: Hereafter, the Credit Courses will be referred to simply as “courses”. Supplementary courses will be specifically mentioned as such.

R.PHARM. (PG) 4. COMPONENTS OF A COURSE

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

- LECTURES (LECT) - Teaching learning processes conducted in real and virtual class rooms with various multimedia aids.
- TERM ASSIGNMENTS (TA) - Supplementary to classroom teaching. It consists of one or more of the following teaching strategies.
Each strategy will form a UNIT.

Self-study exercises/quizzes/tests/objective questions/viva term paper, case study analysis, seminars etc.

- LABORATORY WORK / PROJECT WORK (LPW) -This component consists of one or more of the following practical exercises / projects.
Each set of practical exercises / project will form a UNIT.
Laboratory experiments and their reports.
Viva, Synopsis, Seminar, industrial / professional training, analysis, design, research problems, Thesis work etc.

R.PHARM. (PG) 5. EXAMINATIONS

For assessment of the course, Examination/s are prescribed for each component. These examinations are as follows.

LECTURES	-- Semester End Examination (SEE)
CONTINUOUS EVALUATION (CE)	-- CE examination may include written examination/s and Term Assignments (TA) Examination
LABORATORY/PROJECT WORK	-- LPW examination

R.PHARM. (PG) 6. COURSE COORDINATOR, ADVISOR

The Dean will appoint faculty members for the following designations. The main functions of each designation are also mentioned.

- COURSE COORDINATOR (to be appointed for each course) – to coordinate all matters related to the conduct and assessment of a course.
- FACULTY ADVISOR (to be appointed for each semester) – to look after all matters, at the department level, regarding Registrations and Re-registrations of courses and also to provide guidance and counseling to students regarding these issues.

R.PHARM. (PG) 8. SEMESTER AND TERM

Normally courses will be offered semester-wise as given in the teaching scheme. However the institute may offer certain course/s of a semester in both terms of an academic year in order to help students to pursue their study more expeditiously.

R.PHARM. (PG) 9. REGISTRATION IN COURSES

9.1 There will be five categories of Registrations. All five categories will be collectively referred to simply as Registration. Individual categories will be referred to by their symbols.

9.2 All Registrations, wherever applicable, will be subject to availability of courses.

9.3 Registration will be done course-wise.

9.4 CATEGORIES OF REGISTRATION

9.4.1 The Five categories of Registration are:

IR – Initial Registration

RPR – Repeat registration with two sub categories RL (Repeat registration for studying LPW component of a course) and RS (Repeat registration for studying all components of a course)

RER – Re-examination registration with two sub categories REC (Re-examination registration of CE component of a course) and RES (Re-examination registration of SEE component of a course.)

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

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

Diploma students admitted to the Degree programme will register (IR) for the semester as notified by Nirma University.

9.4.3 Repeat Registration (RS)

The student whose Term is not granted for any registered course (R.12) will have to repeat the study of that course. He will have to seek fresh registration for this purpose. The category of such registration will be as follows:

Term not granted

Category

NT

Registration

Category

RS

RS - This category will imply regular attendance to study all components (i.e. LECT, CE, LPW as applicable) and appearing at all examinations thereof.

9.4.4 RE-Registration (RER) -This registration is necessary for appearing again in a particular examination of a course. It will not involve regular attendance for studying that course.

9.4.5 RPR Registration -This term will be used where necessary to include registrations of both categories RL and RS.

9.5 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 will issue appropriate orders for processing the application, including scrutiny, verification and final orders.

9.6 SIMULTANEOUS REGISTRATION IN DIFFERENT CATEGORIES

9.6.1 Semesters will be registered in chronological order.

9.6.2 A student will not be permitted to register (IR) in the next higher semester if the total number of courses with RER and/or RPR as applicable in his case exceeds three.

9.6.3 The student who becomes eligible for IR registration in a higher semester must first register for all RER and RPR registrations as applicable in his case.

9.6.4 The student who is not eligible to register in a higher semester in any term must register in that term, for all RER and RPR registrations applicable in his case.

R.PHARM. (PG) 10. GRADES

PERFORMANCE LEVELS

The Performance level of the student in any examination will be adjudged in terms of the letter grades given in Table 1.

Table 1

Grade Qualitative (G)	Equivalent Meaning (GQ)	Grade Point (g)
A+	Excellent	10
A	Creditable	9
B+	Very Good	8
B	Good	7
C+	Satisfactory	6
C	Conditional Pass	5
FF	Fail	0
IF	Interim Fail	0

R.PHARM. (PG) 11. SCOPE OF EXAMINATIONS AND ASSESSMENT

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

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

11.2 TA AND LPW EXAMINATION (IR and RPR)

All exercises in CE will be continuously assessed during the semester and given marks. Oral examination will be included in the assessment at all possible stages. The total marks of all Units of CE will be aggregated based on their *inter se* weights to give the overall percentage of marks in the CE examination.

If the student fails in CE examination, the student will not be permitted to appear in SEE of that course and the student will have to seek fresh registration. as REC in subsequent semester, if the student is otherwise eligible.

11.3 LPW EXAMINATION (IR and RL/RS)

All assignments in Laboratory / Practical Work will be continuously / periodically assessed (as applicable) during the semester. In addition, there will be an Examination for overall assessment at the end of the semester. Oral examination will be included in the assessment at all possible stages. Each assessment will be given marks. The total marks of all Units of LPW will be aggregated based on their *inter se* weights to give the overall percentage of marks in the LPW examination.

The course coordinator will notify the procedure for assessment, review, viva voce etc to the students in advance.

If the student fails in LPW examination, the student will not be permitted to appear in SEE of that course and the student will have to seek fresh registration. as RL in subsequent semester, if the student fulfills the condition of granting the term (R-12)”

11.5 SEMESTER END EXAMINATION (SEE)
(IR and RPR)

The expression “Semester end examination” refers to the written examination of a course taken at the end of a semester. This will cover the full syllabus.

The assessment will be mark based as per normal practice in written examinations.

11.6 SCHEDULES OF SEE

SEEs of all courses of the programme, as per the teaching scheme, will be held at the end of both terms.

11.7 Absence in any examination with or without Regular Approval will be assigned Zero mark.

R.PHARM. (PG) 12. GRANTING OF TERM

15.1 The Term will be granted course-wise.

15.2 The granting of Term for all the students (IR, RPR) will depend on the compliance of maintaining minimum 85 % attendance in all components of the course (as applicable) Regular approval for remaining absent up to 15 % is necessary.

Note: In the case of long duration training or project work, where final examination is not possible before the Term ends, a certificate by the course coordinator that the student’s progress is satisfactory will be acceptable.

15.3 The student who has been given category NT may appeal to the Appeal Committee giving full reasons for his default. The decision of the Committee in all such cases will be final.

15.4 The student who is given NT category will not be permitted to appear in SEE of the concerned course. He will also be given grade FF in that course.

R.PHARM. (PG) 13. GRADES IN EXAMINATIONS

13.1 CE and LPW EXAMINATIONS

Grades for the CE and LPW examinations will be given on the basis of the percentage marks obtained by the student in the respective examinations.

Table 2(a) shall be referred for converting percentage marks into corresponding Grades (G) for all examinations except CE, and Table 2 (b) for CE.

<u>Table 2 (a)</u> <u>All examinations except CE</u>		<u>Table 2 (b)</u> <u>for CE</u>	
<u>% marks</u>	<u>Grade(G)</u>	<u>% marks</u>	<u>Grade(G)</u>
90 and above	A+	90 and above	A+
80-89	A	80-89	A
70-79	B+	70-79	B+
60-69	B	60-69	B
50-59	C+	50-59	C+
Less than 50	IF	45-49	C

13.2 GRADE IN SEE

In the normal course, a student (IR, RPR) and category GT will appear for SEE after his CE and LPW examination, in the same semester. Grade for the performance in SEE will be given on the basis of the percentage marks obtained by the student. Table 2(a) shall be referred to for converting percentage marks into corresponding grades (G) except that for categories - (i) and (ii) given below, grade IF will be given:

<u>Performance</u>	<u>Grade</u>
(i) Fail	IF
(ii) Absence	IF

Notwithstanding anything contained in terms of giving 'IF' grade as shown in (ii) in the table above, the Director of Institute will scrutinize the genuineness about remaining absence in Semester End Examination through Appeal Committee and if the Director, after said scrutiny, decides to show 'Ab' instead 'IF' in (ii) of above table then in the grade sheet, instead of 'IF', 'Ab(S)' shall be mentioned in such cases only.

13.3 GRADE IF IN SEE

The student who obtains grade IF in SEE will be allowed to appear in three consecutively available subsequent SEE of the concerned course. The criteria for giving grades in these three attempts will be the same as given in R. 13.2. However, grade IF in the final attempt will be converted into grade FF.

13.4 COURSE GRADE

Course grade will be given only when the student passes all component examinations. For CE Conditional Pass grade will be allowed in case of Graced Passing. (R-15.2)

Marks of SEE/SPE, CE and LPW (as applicable) examinations shall first be aggregated on the basis of the component / *inter se* weights given in the Teaching Scheme. After the aggregate marks of the entire group are so calculated, the performance of each student in the course as a whole will be assigned a grade based on his aggregate percentage viewed in relation to the overall performance of the group.

In giving relative grades, the number and designation of various grades (G) shall be kept the same as shown in Table 2(a). The course coordinator will decide the cut off percentages of relative grading subject to the guidelines prescribed by the Academic Council.

The Transcript will show only the Course Grade and not the Component Grades.

13.5 The provisions of R. 13.4 are subject to the maximum permissible duration to pass courses of first two semesters and the entire Programme given in R.17.

R.PHARM. (PG) 14. INTERPRETATION OF GRADES

- (a) Grade A+ should be given with great care and discretion. Normally it should be reserved for a very distinguished performance, with respect to both marks and quality of output.
- (b) Grade C+ is the minimum for passing. A student getting grade C in CE can improve his performance (at his option) by repeating ¹CE in subsequent semester. Better of the grades obtained in the two examinations will be considered.
- (c) Grade FF –
 - (i) If this grade is given because of NT, the student will have to seek RS registration respectively for repeat study of the course.
 - (ii) If the grade FF is given due to failure in the final admissible attempt in SEE, the student will have to seek RS registration for repeat study.
- (d) Grade IF - This is an interim fail grade given in CE, LPW and SEE/SPE as under:

<u>Performance</u>	<u>Grade</u>
Fail in CE	IF(C)
Fail in LPW	IF(L)
Fail in SEE/SPE	IF(S)
Fail in Overall Course	IF(O)

Note: If a student getting IF (O) in a course, then he/she can improve his/her performance by repeating CE (all components of CE) of the course in the subsequent semester depending upon his/her choice. In such case, he/she will also reappear in SEE.

R.PHARM. (PG) 15. PASSING STANDARDS

15.1 PASSING A COMPONENT

The standards of passing a component / course / Programme are given below.
(Min C+ means grade C+ or a better grade)

COMPONENT	--	Min C in each component examination i.e. CE, LPW and SEE/SPE
CE	--	Min. C+ (in case of grade C refer regulation for Gracing)
LPW	--	Min C+
SEE/SPE	--	Min C+
COURSE	--	Min C+

15.2 GRACING -- A student not satisfying condition given in R 15.1 for passing a given course will be deemed to have been "Graced for passing" the course if the student fulfills the following two conditions:

(i) Grade C in CE

(ii) Min C+ in SEE, CE and LPW (as applicable) and Min C+ in the course

A student will be allowed a total of only two Gracing in the entire programme.

No special mention about gracing will be made in the transcript.

15.3 PROGRAMME -- Total credits of all credit courses of the Programme with CPI min 6.0.

15.4 FAILURE -- Student not satisfying these criteria of Passing / Gracing / will be considered as having Failed in the Examination / Component / Course / Programme.

15.5 The student who has once passed an examination will not be allowed to appear at it again.

15.6 Grades/marks obtained by the student in examinations passed by him will be carried forward as necessary.

R.PHARM. (PG) 16. PERFORMANCE LEVELS

16.1 INDICES

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

- PIC -- Performance index for the course
PPI -- Progressive Performance Index
SPI -- Semester Performance index
CPI -- Cumulative Performance index
PIC -- Equivalent grade point (g) corresponding to the course grade (R. 10 and 13.4)
PPI -- (Up to any stage under consideration)
$$PPI = (i_1 c_1 + i_2 c_2 + i_3 c_3 \dots) / (\text{sum of credits of all courses registered up to that stage})$$

Where:
i₁, i₂, i₃..... are PIC values of CREDIT COURSES passed and
c₁, c₂, c₃..... are the credit values of the respective courses.

SPI -- This index is similar to PPI except that the stage to be considered is the end of a semester.
CPI -- This index refers to the entire programme. It is calculated when the student passes the programme. The method of calculation is the same as for PPI or SPI but the summation is for the courses of all semesters of the programme.

16.2 CLASS AND PERCENTAGE (%) MARKS

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

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

CLASS

CPI Value	Equivalent Class
6.00 to 6.49	Second
6.50 to 7.49	First
7.50 and above	First- with distinction

R.PHARM. (PG) 17.CANCELLATION OF ADMISSION

The admission in the Programme of the following categories of students is liable to be cancelled.

17.1

- (i) Failure to earn credits for all courses of semester I within two years of admission to the Programme.
- (ii) Failure to earn credits for all courses of semester II within two and a half years of admission to the Programme.
- (iii) Failure to earn requisite credits and CPI minimum 6.00 to pass the Programme within three years of admission to the Programme.

The student, whose admission is so cancelled, can appeal to the Appeal Committee. The Committee may grant an extension only upto one additional semester for one of the categories falling under 17.1 (i), (ii) or (iii) for clearing the courses in deserving cases, provided the student gives a viable assurance to make up the shortfall within that period.

Notwithstanding anything contained above, the President may consider the cases of such students falling under category (i), (ii) & (iii), if the student has cleared all the courses and have earned the requisite number of credits except one course, on an appeal filed. The President will 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 additional attempt to the student concerned to clear the remaining course.

17.2 The student who satisfies R. 17.1 (i) and (ii) but who is unable to satisfy R.17.1 (iii) only because of delay in completing the Thesis work may apply, giving full reasons, to the HOD for an extension to submit his Thesis. The HOD may recommend to the Appeal Committee to grant an extension of up to two years in addition to the limit specified R. 17.1 (iii). The decision of the Appeal Committee in the case will be final.

17.3 If a student avails of the benefit of R. 17.2, and he passes the Programme, his Grade for passing the Programme will be pegged at C+ and CPI at 6.0.

R.PHARM. (PG) 18. EXAMINERS

All 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 examinations, selection and appointment of all examiners will be decided by the Dean in consultation with a committee appointed for this purpose.

R.PHARM. (PG) 19. SUMMER SEMESTER COURSES AND EXAMINATIONS

19.1 The Institute may offer the following two types of courses in the Summer Semester. No separate registration is necessary to attend a course in summer semester.

- (i) For students with RER registration -- Courses in which only the LECT component will be taught.
- (ii) For students with RPR registration -- Courses in which all applicable components will be taught.

A course will be offered if a minimum number of eight students apply for enrolment. The Director is empowered to relax this condition as he deems fit.

19.2 For type (i) courses, the Summer Semester end examination will be considered as SEE as applicable to each student. If the student gets passing grade in the examination, he will be given the appropriate grade, otherwise the status of his registration before Summer Semester will remain unchanged.

19.3 For type (ii) courses, all Regulations applicable to IR and RPR registrations will apply. Examinations i.e. CE, LPW and SEE as applicable will be taken. No Block, Supplementary or additional examination will be taken.

If the student passes in the course, he will be given the appropriate grade, otherwise the status of his registration before Summer Semester will remain unchanged.

19.4 The maximum number of enrolments allowed to a student will be as follows:

- Only RER -- 3
- Only RPR -- 2
- RPR + RER -- 1+1

R.PHARM. (PG) 20. SUPPLEMENTARY COURSES

The courses of this category are basically bridge courses to bring students of different universities to a common level in certain areas of basic importance to the Programme.

The Dean of the Faculty of Pharmacy is empowered to decide these courses, their curriculum, teaching and examination schemes, passing standards and such other matters as may be necessary for efficient conduct of the courses.

DISCLAIMER:

Though full care is taken to prepare this regulation, yet, in case of doubt, it is advisable to refer the concerned notification(s) published from time to time.