

INDORE INSTITUTE OF PHARMACY

ADDITIONAL DATA INDEX

METRIC NO. 6.5.2 – THE INSTITUTION REVIEW ITS TEACHING LEARNING PROCESS, STRUCTURE & METHODOLOGIES OF OPERATION AND LEARNING OUTCOMES AT PERIODIC THROUGH IQAC SETUP AS PER NORM AND RECORDED THE INCREMENTAL IMPROVEMENT IN VARIOUS ACTIVITIES.

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6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

(Incremental improvements in quality over the last five years)

The IQAC regularly assesses and improves the quality of the teaching-learning process. The IQAC has also contributed to institutionalizing quality assurance methodologies and developing numerous processes, as follows:

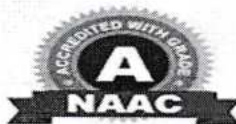
1. Emphasizing skill development to improve work opportunities through placement activities.
2. Encourage industrial involvement in academic processes through training, visits, workshops, guest lectures, and MOUs with industry specialists.
3. Implement outcome-based learning education in all programs.
4. Introduces aptitude and soft skill workshops to improve students' personality and employability.
5. The college participates in NIRF and other quality audits conducted by state, national, and international bodies.
6. The Institute Innovation Council (IIC) was established under the Ministry of Human Resource Development.
7. Establishing a Research and Development cell to enhance R&D activities.
8. Established methods for gathering comments and surveys from stakeholders.
9. Improve the use of ICT technologies for better teaching and learning.
10. Successfully established and implemented the syndicate management procedure.
11. Establish a grievance cell to prevent ragging on campus and promote student discipline.

Aside from these efforts, IQAC strives to enhance the teaching-learning process and encourages the gradual implementation of Outcome-Based Education (OBE) in all college programs. Together with teachers, industry experts, and other stakeholders, each program prepares course outcomes based on Bloom's taxonomy and NBA, as well as program-specific objectives.

Students' employability is improved by measuring the attainment of POs, PSOs, and COs each session. For courses with poor attainment, appropriate action is planned and attempts are made to improve the attainments if necessary beyond curriculum material and activities planned




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and implemented.

By using common academic procedures, the IQAC enhances the teaching-learning process. These procedures include:

S.No	Incremental Improvements	Year
1.	Developed attendance monitoring system for smooth functioning of classes	2019-20
2.	All classrooms are upgraded with internet connection and projector facilities.	2019-20
3.	Electronic Payment systems are introduced for the student's fee payment	2019-20
4.	Band width and LAN connections are improved	Every year
5.	Server is upgraded for the betterment	2020-21
6.	New systems are purchased and old systems are upgraded	Every year
7.	Upgraded canteen and serving only quality products with prior approval of committee	2020-21
8.	Recruited new PhD faculty	2020-21
9.	In house CRM developed for transparency in admission	2018-19
10.	Installation of LED lights	2020-21
11.	Increased number of books in library	Every year
12.	Research & Development policy revised	2020-21
13.	Introduced student's clubs for their holistic development	2017-18
14.	MOUs with industries and foreign universities	Every year
15.	Participation in NIRF	Every year
16.	Introduction of Syndicate Management system (Mentor – Mentee)	2018-19
17.	Introduction of outcome based system in MSTs	2018-19
18.	Establishment of Personality Development Cell	2017-18




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Incremental Improvement

1. Addition of new programme

Pharm D approval received from Pharmacy council of India in Nov. 2023

2. Research and Development.

Research Work and Publications

IIP promotes Research work and Innovation by providing an inducive environment for continuous work towards Research and Development through -:

- Research Lab equipped with sophisticated instruments (3D Printer; HPLC, UV Spectrophotometer etc).
- Research policy was updated and implemented in Jan 2024 for students & faculties. Remunerations were offered for research publications in reputed journals, as mentioned in the policy, and also for the membership in professional bodies.

The implementation of the policy has resulted in an *increase in research publications*, with **48 papers** published in Scopus-indexed, Impact Factor journals and UGC Care journals by November 2024.

As per the Research Policy implemented, *financial rewards* of more than 1.40lac has been awarded to Faculties and students.

MOUs and Collaborations.

MOUs with Research organizations/institutes for collaborative research work. Institute focused on conducting Activity for all students with MOUs and collaborative associations.

- One MOU signed for collaborative research work with **NFB (National facility for biotechnology)** with an objective of -:
- Collaborative research- Research projects.
- Training of student on various techniques in the field of biotechnology and protein sequencing in Biopharmaceutical & Biotechnology companies.
- Guest lecture for student interaction and faculty interaction.




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- Institute is having total 8 MOUs; whereby 6 MOUs are active. Various activities are conducted under these MOUs, eg:
 - a. NFB: Guest lecture: Research Methodology for B. Pharm 4th and 3rd yr. students.
 - b. **NFB**: Faculties working on research proposal on Novel Formulation development, in collaboration with NFB
 - c. AASRA: Workshop for sophisticated Analytical Instrument handling: B. Pharm 4th yr and M. Pharm 1st yr .
 - d. NIPER Ahmedabad: Online training session and Visit to Research lab: B.Pharm 4thYr students.
 - e. Clinical orbit: Online session on Pharmacovigilance.
 - f. Health arranged in adopted village in association with Choithram hospitals.
 - g. Meditation under Heartfulness banner was conducted
- M. Pharm students conducted research work on '3D Printing for drug formulation and optimization' under the association with 3D Prototyperez and published their research work.
- M.Pharm student conducted her research project in Piramal in the Dept. of Technology Transfer and published her article.
- In addition to our prior R&D, our highly skilled faculty and B. Pharm and M. Pharm students have worked on research projects such formulation and optimization development with 3D technology, validation of analytical methods, formulation of herbal extracts, use of design expert (a software)for development QbD process validation etc.

A Collaborative training program with NIPER Ahmedabad was organized where around 54 students attended online training session and also visited NIPER Ahmedabad for onsite workshop.

Book and Book Chapters Publications: 42 Books and Book chapters published in the year 2023-2024



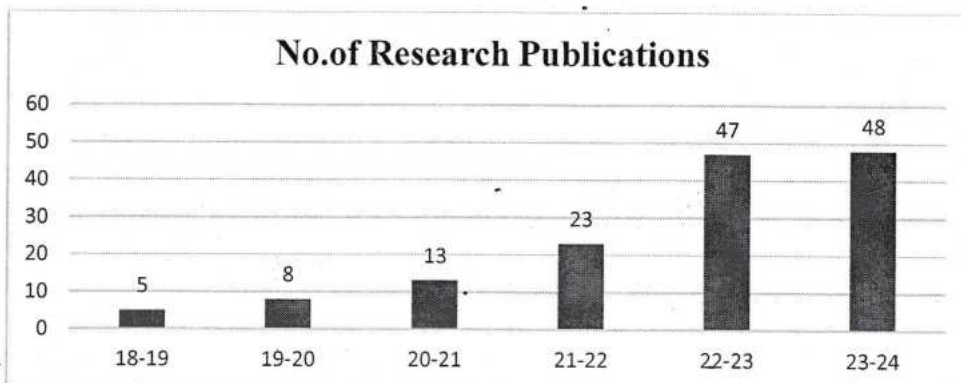

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NUMBER OF RESEARCH PAPERS PUBLISHED IN THE LAST FIVE YEARS.



3. PATENT

List of Patents:

S.No.	Title of Patent	Name of author/s	Patent type (national/international)	Department of the teacher	Patent Granted/ not granted	Date/ Year
1	Formulation development and evaluation of herbal mosquito repellent dhoop batti and preparation method	Shivani vishwakarma Nayany sharma	National	pharmaceutics	published	10/18/2024
2	Apparatus for limit test of Arsenic, design patent	Dr Nimita Manocha (author 1), Dr Gurmeet Chhabra (4)	National	chemistry	Grant	7/4/2024
3	Miniature chromatographic apparatus for isolation of natural compounds	Dr Nimita Manocha (author 1), Dr Gurmeet Chhabra (4)	National	chemistry	Granted	6/20/2024
4	Method of Development Of Enzothiazole Clubbed Thiazolidinone Derivatives As Potent Antimicrobial And Antimalarial Agents	Rupesh K Gautam	National	pharmacology	published	5/17/2024
5	Spredability test equipment	Nayany Sharma, Neha Kamalpuria	National	pharmaceutics	published	4/22/2024
6	Appratus for developing ethamsomal gel	Darshan Jamindar	National	pharmaceutics	Published	4/1/2024



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7	Fourier transform Infrared Spectrometer	Dr. Rekha Bisht	National -	pharmacology	Published	3/1/2024
8	A Method To Fabricate Gastroretentive Floating Tablet Case Using Fused Deposition Model (Fdm) 3d Printing	MS. PARUL VAISHNAV, Nadeem Farooqui, Prachi Gupta	National	pharmaceutics	copyright	11/5/2023
9	RPHPLC method development and validation of simultaneous analysis of daclatisivir and aseunaprevir in bulk dosage form	Gurmeet Chhabra, Praveen Sharma	National	Chemistry/cology	Published	10/20/2023
10	Spirometer for Measurement of Lung Capacity	Rekha Bisht	Pharmacology	UK (International)	Granted	18-07-2023
11	Shock Wave Device Used To Treat Diabetic Foot Ulcer	Rekha Bisht	pharmacology	Indian (National)	Published	19-09-2023
12	Reflux Condenser Assembly	Dr. Praveen Sharma	Pharmacology	UK (International)	Granted	06-11-2023
13	Polyherbal Tablet Formulation with anti tussive activity	Dr. Nadeem Ahmed, Himani Jaisinghani, Pritesh Paliwal	Pharmaceutics		Published	24-11-2023
14	Blister Machine For Pharmaceutical purpose	Dr. Praveen Sharma, Nayany Sharma, Dr. Gurmeet chhabra	Pharmaceutics	UK (International)	Granted	24-11-2023
15	Development characterization and evaluation of anti-inflammatory and anti-arthritic potential of etoricoxib topical gel	Mr. Gaurav Agrawal	Pharmaceutica l Chemistry	Indian (National)	Published	01.09.2023




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4. Books and chapter is edited volume / Books published and paper published in national / international conferences.

Number of books and chapter is edited volume/ books published and paper published in national / international conferences proceedings as per teacher during published per teacher during the year

S. No	Title of chapter/ Book	Name of the author/s	Department of the teacher	Name of Book	Year of publication	ISBN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Book	Link to Chapter	Is it listed in UGC Care list/Scopus/Web of Science/ other, mention
1	Textbook of pathophysiology	Dr. Praveen Sharma	Pharmacology	Textbook of pathophysiology	2024	978-3-031-66420-5			Print
2	Regulatory insight into artificial intelligence in drug delivery and medical devices	Nayany Sharma, Dr. Rekha Bisht	Pharmaceutics	In innovation in drug delivery and	2024	199-228	https://www.sciencedirect.com/book/9780443156069/marine-biopolymers	https://www.eurekaselect.com/chapter/23749	Bentham Books
3	Artificial Intelligence in clinical Trial: The present scenario and future prospects	Dr. Praveen Sharma	Pharmacology	In innovation in drug delivery and	2024	229-257	https://www.eurekaselect.com/chapter/23749	https://www.eurekaselect.com/chapter/23749	Bentham Books



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4	Marine biopolymers in cancer therapeutics	Dr. Rupesh Gautam	Pharmacology	Marine Biopolymer	2024	426-440	https://www.sciencedirect.com/book/9780443156069/marine-biopolymers	https://doi.org/10.1016/B978-0-443-15606-9.00003-6	Elsevier
5	Marine biopolymers in implants	Dr. Rupesh Gautam	Pharmacology	Marine Biopolymer	2024	125-145	https://www.sciencedirect.com/book/9780443156069/marine-biopolymers	https://doi.org/10.1016/B978-0-443-15606-9.00014-0	Elsevier
6	Nanostructured marine biopolymers in therapeutics and their toxicity	Dr. Rupesh Gautam	Pharmacology	Marine Biopolymer	2024	61-104	https://www.sciencedirect.com/book/9780443156069/marine-biopolymers	https://doi.org/10.1016/B978-0-443-15606-9.00005-X	Elsevier
7	Advancements in nanofabrication of marine biopolymers	Dr. Rupesh Gautam	Pharmacology	Marine Biopolymer	2024		https://www.sciencedirect.com/book/9780443156069/marine-biopolymers	https://doi.org/10.1016/B978-0-443-15606-9.00003-6	Elsevier
8	Unveiling Therapeutic Targets: Targeting Mitochondrial ROS for Anticancer Therapy	Dr. Rupesh K. Gautam	Pharmacology	Role of Autophagy and Reactive Oxygen Species in Cancer Treatment	2024	978-3-031-66420-5	Role of Autophagy and Reactive Oxygen Species in Cancer Treatment	link.springer.com/chapter/10.1007/978-3-031-66421-2_3#cite	Scopus




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9	Synergistic Effect of Vaccines and Chemotherapeutic Agents in Combating Different Carcinomas	Dr. Rupesh K. Gautam	Pharmacology	Cancer Vaccination and Challenges	2024	9.781E+12	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003503071-6/synergistic-effect-vaccines-chemotherapeutic-agents-combating-different-carcinomas	https://www.taylorfrancis.com/books/edit/10.1201/9781003503071/cancer-vaccination-challenges-rishabh-malviya-bhupendra-prajapati-sonali-sundram?refId=abb0dd6e-4b21-4b4f-945c-9c7b64b1267e&context=ubx	Scopus



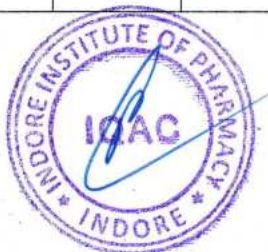

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10	Advance Drug Delivery System for Targeting Carcinomas	Dr. Rupesh K. Gautam	Pharmacology	Cancer Vaccination and Challenges	2024	9.781E+12	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003503071-3/advance-drug-delivery-system-targeting-carcinoma	https://www.taylorfrancis.com/books/edit/10.1201/9781003503071/cancer-vaccination-challenges-rishabha-malviya-bhupendra-prajapati-sonali-sundram?refId=abb0dd6e-4b21-4b4f-945c-9c7b64b1267e&context=ubx	Scopus
11	Synthetic DNA Delivery System	Dr. Pritesh Paliwal, Dr. Nadeem Farooqi	Pharmaceuticals and Pharmacognosy	Future Trends in biotechnology	2024	e-ISBN: 978-93-6252-862-9	https://doc-0c-8k-apps-viewer.googleusercontent.com/viewer/secure/pdf/o8qneuai0n9q2hsgmpkuj77dagn2utuq/cb	https://doc-0c-8k-apps-viewer.googleusercontent.com/viewer/secure/pdf/o8qneu	IIP Series

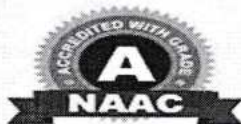


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12	Nanotechn ology in neurogeren ation	Dr. Rupesh Gautam	Pharm acolog y	Neurodeg eneration Nanotech nology in Neurodeg enerative Diseases	2024	ISBN: 978-1- 0364- 1171-8	file:///C:/Us ers/IIP/Do wnloads/Ne urodegener ation%20N anotechnol ogy%20in %20Neuro degenerativ e%20Disea ses_hard_m an_v1.pdf	file:///C: /Users/II P/Down loads/N eurodeg eneratio n%20Na notechn ology% 20in%2 0Neurod egenerat ive%20 Diseases _hard_ man_v1. pdf	Scopus
13	Nanotechn ology: AN Emerging Arsenal Against Neurogenra tive Disease	Dr. Rupesh Gautam	Pharm acolog y	Neurodeg eneration Nanotech nology in Neurodeg enerative Diseases	2024	ISBN: 978-1- 0364- 1171-8	file:///C:/Us ers/IIP/Do wnloads/Ne urodegener ation%20N anotechnol ogy%20in %20Neuro degenerativ e%20Disea ses_hard_m	file:///C: /Users/II P/Down loads/N eurodeg eneratio n%20Na notechn ology% 20in%2 0Neurod egenerat	Scopus





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14	Liposomal system in neurogeneration	Dr. Rupesh Gautam	Pharmacology	Neurodegeneration Nanotechnology in Neurodegenerative Diseases	2024	ISBN: 978-1-0364-1171-8	file:///C:/Users/IIP/Downloads/Neurodegeneration%20Nanotechnology%20in%20Neurodegenerative%20Diseases_hard_man_v1.pdf	file:///C:/Users/IIP/Downloads/Neurodegeneration%20Nanotechnology%20in%20Neurodegenerative%20Diseases_hard_man_v1.pdf	Scopus
15	The Role of Tissue Engineering in the Treatment of Degenerative Diseases	Dr. Rupesh K. Gautam	Pharmacology	Computational Approaches in Biotechnology and Bioinformatics	2024	eBook ISBN9781003354437	Computational Approaches in Biotechnology and Bioinformatics Pranav (taylorfrancis.com)	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003354437-6/role-tissue-engineering-treatment-degenerative-diseases-hitesh-	Scopus



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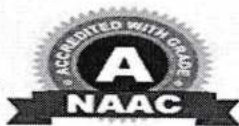
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16	Significance of Artificial Intelligence in the Recognition, Characterization, and Prediction of Hepatocellular Carcinoma	Dr. Rupesh K. Gautam	Pharmacology	Immunotherapy Against Lung Cancer	2024	ISBN : 978-981-99-7140-4	https://link.springer.com/book/10.1007/978-981-99-7141-1	https://www.taylorfrancis.com/chapters/edit/10.1201/9781032699882-9/significance-artificial-intelligence-recognition-characterization-prediction-hepatocellular-	Scopus




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17	practical hand book of Pharmaceuti- cal Microbiolo- gy	Nayany Sharma, Shivani Vishwa karma	Pharm aceutic s	Pritam Publicatio n	2024	ISBN No.978- 93- 5735- 920-7	Print	Pritam+ publicati ons&oq	Print
18	Biobase nanopartica l in maligancy	Dr. Rupesh Gautam	Pharm acolog y	Biobased Nanoparti cals	2024	337-362	https://ww w.taylorfr ncis.com/ch apters/edit/ 10.1201/97 810035030 71- 3/advance- drug- delivery- system- targeting- carcinomas -hitesh- malhotra- sweta- kamboj- ashna- gupta-	https://w ww.tayl orfranci s.com/c hapters/ edit/10. 1201/97 8100350 3071- 3/advan ce-drug- delivery -system- targetin g- carcino mas- hitesh- malhotr	Scopus



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19	Biobased Nanomaterials in Biomedical Applications	Dr. Rupesh Gautam	Pharmacology	Biobased Nanoparticles	2024	337-362	https://link.springer.com/chapter/10.1007/978-981-97-0542-9_6	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003354437-6/role-tissue-engineering-treatment-degenerative-diseases	Springer link
20	Biodegradability and Sustainability of Biobased Nanomaterials	Dr. Rupesh K. Gautam	Pharmacology	Biobased Nanomaterials Applications in Biomedicine, Food Industry, Agriculture, and Environmental Sustainability	2024	978-981-97-0542-9	Biobased Nanomaterials: Applications in Biomedicine, Food Industry, Agriculture, and Environmental Sustainability SpringerLink	https://link.springer.com/chapter/10.1007/978-981-97-0542-9_16	Scopus



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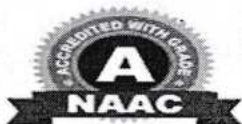
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21	Data Integrity - A Crucial Requirement For Pharmaceutical Industries Regulatory Compliance	Ankita Bhadoriya, Kuldeep Vinchurkar, Shivangi Patidar, Praveen Sharma, Pritesh Paliwal	Pharmaceutical Chemistry	Futuristic Trends in Chemical Material Sciences & Nanotechnology Volume 3 Book 13	2024	e-ISBN:978-93-5747-825-0	futuristic trends in chemical material sciences and nano technology volume 2 book 12 - IIP Series - Conferences & Edited Books	https://www.iipseries.org/viewpaper.php?pid=3153&pt=дата-integrity-a-crucial-requirement-for-pharmaceutical-industries-regulatory-compliance	Scopus
22	Biomedical Applications of Chitosan and Its Derivatives	Dr. Rupesh K. Gautam	Pharmacology	Biopolymers for Biomedical Applications	2024	Online ISBN:9781119865452	Biopolymers for Biomedical Applications Wiley Online Books	https://doi.org/10.1002/9781119865452.ch2	Scopus
23	Biomedical Applications of Alginates	Dr. Rupesh K. Gautam	Pharmacology	Biopolymers for Biomedical Applications	2024	Online ISBN:9781119865452	Biopolymers for Biomedical Applications Wiley Online Books	https://onlinelibrary.wiley.com/doi/10.1002/9781119865452.ch3	Scopus
24	Biomedical Applications of	Dr. Rupesh K.	Pharmacology	Biopolymers for Biomedical	2024	Online ISBN:9781119865452	Biopolymers for Biomedical	https://doi.org/10.1002/	Scopus



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	Cellulose	Gautam		al Applications		65452	Applications Wiley Online Books	9781119865452.ch4	
25	Biomedical Applications of Carrageenan	Dr. Rupesh K. Gautam	Pharmacology	Biopolymers for Biomedical Applications	2024	Online ISBN:9781119865452	Biopolymers for Biomedical Applications Wiley Online Books	https://doi.org/10.1002/9781119865452.ch6	Scopus
26	Synergistic Effect of Vaccines and Chemotherapeutic Agents in Combating Different Carcinomas	Dr. Rupesh K. Gautam	Pharmacology	Cancer vaccination and challenges	2024	9.781E+12	1. https://link.springer.com/chapter/10.1007/978-3-031-66421-2_3/ 2. https://www.taylorfrancis.com/chapters/edit/10.1201/9781003503071-3/advance-drug-delivery-system-targeting-carcinomas-hitesh-malhotra-sweta-kamboj-ashna-gupta-kartik-babbar-rupesh-	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003503071-6/synergistic-effect-vaccines-chemotherapeutic-agents-combating-different-carcinomas-hitesh-malhotra-rohit-kamboj-amrit-sarwara-	Scopus



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Approved by - BOP/Pharm/1 (Approved by - AICTE/Pharm Colls) & PCKMw (M.P.)
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27	Important Biomarkers for Better Evaluation of Checkpoint Inhibitors and Other Immunotherapies in Lung Cancer	Dr. Rupesh K. Gautam	Pharmacology	Immunotherapy Against Lung Cancer	2024	ISBN : 978-981-99-7140-4	https://link.springer.com/book/10.1007/978-981-99-7141-1	https://link.springer.com/chapter/10.1007/978-981-99-7141-1_17	Scopus
28	Protein Delivery by Nanoparticles	Harshita Gauraha, Ankita Bhadoriya, Rupesh K. Gautam, Dinesh Kumar Mishra	Pharmacology	Nanocarrier Vaccines: Biopharmaceutics-Based Fast Track Development	2024	ISBN:9781394175482	https://onlinelibrary.wiley.com/doi/book/10.1002/9781394175482	https://onlinelibrary.wiley.com/doi/10.1002/9781394175482.ch9	Scopus

2023								
29	A Textbook of Pharmacology-III (Book)	Dr. Praveen Sharma, Dr. Santosh D. Ghule, Dr. Pritesh Paliwal, Dr.	Pharmacology	A Textbook of Pharmacology-III	2023	978-81-19425-12-9	www.shinebookpublishing.com	NA



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 Register - Under LUG 2002

		Upendra Singh Bhadoriya						
30	Practical Handbook of Pharmacology-I (Book)	Mr. Rohit Dhoke, Dr. Praveen Sharma, Mr. Ajay Bhagwat, Dr. Santosh Ghule	Pharmacology	Practical Handbook of Pharmacology-I	2023	978-93-5735-226-0	www.pritampublication.com	NA
31	Physical Pharmaceutics II (Book)	Dr. Dinesh Kumar Mishra, Ms. Nayany Sharma, Mr. Kuldeep Vinchurkar	Pharmaceutics	Physical Pharmaceutics II	2023	978-81-963767-3-0	www.gyanpublications.com	NA
32	"New Anti-Diabetic Drugs for Treatment of Type-II Diabetes: A Comprehensive Overview" (Chapter)	Dr. Rekha Bisht	Pharmacy Practice	Recent Research Trends in Pharmaceutical Science	2023	978-93-5834-010-5	www.integratedpublications.in	
33	Artificial intelligence (AI) and Machine Learning in the Treatment of Various	Dr. Rupesh K. Gautam	Pharmacology	Computational Approaches in Drug Discovery, Development and Systems	2023	978-0-323-99137-7	https://www.sciencedirect.com/book/9780323991377/computational-approaches-in-drug-discovery-	https://doi.org/10.1016/B978-0-323-99137-7.00010



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APR 2019 to APR 2020 (Approved by - AICTE New Delhi) & PCI New Delhi
 Register - Madhya Pradesh

	Diseases			pharmacology			development-and-systems-pharmacology	-1
34	Pharmacophore Modeling	Dr. Rupesh K. Gautam	Pharmacology	Computational Approaches in Drug Discovery, Development and Systems pharmacology	2023	978-0-323-99137-7	https://www.sciencedirect.com/book/9780323991377/computational-approaches-in-drug-discovery-development-and-systems-pharmacology	https://doi.org/10.1016/B978-0-323-99137-7.00004-6
35	New Drug Discovery Pipeline	Dr. Rupesh K. Gautam	Pharmacology	Computational Approaches in Drug Discovery, Development and Systems pharmacology	2023	978-0-323-99137-7	https://www.sciencedirect.com/book/9780323991377/computational-approaches-in-drug-discovery-development-and-systems-pharmacology	https://doi.org/10.1016/B978-0-323-99137-7.00003-4
36	Artificial Intelligence and Machine Learning-Based New Drug Discovery Process with Molecular Modeling	Dr. Rupesh K. Gautam	Pharmacology	Bioinformatics Tools for Pharmaceutical Drug Product Development	2023	978-1119-865-117	https://onlinelibrary.wiley.com/doi/book/10.1002/9781119865728	https://doi.org/10.1002/9781119865728.ch2
37	Biobased materials in nutraceuticals	Dr. Rupesh K. Gautam	Pharmacology	Advanced Applications of Biobased Materials	2023	978-0-323-91677-6	https://www.sciencedirect.com/book/9780323916776/advanced-applications-of-biobased-	https://doi.org/10.1016/B978-0-323-91677-



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38	Synbiotics for colon cancer	Dr. Rupesh K. Gautam	Pharmacology	Synbiotics for the Management of Cancer	2023	978-981-19-7550-9_5	https://link.springer.com/chapter/10.1007/978-981-19-7550-9_5	10.1007/978-981-19-7550-9_5
39	Currents Updates in Breast Cancer Drug	Dr. Rupesh K. Gautam	Pharmacology	Drug and Therapy Development for Triple Negative Breast Cancer	2023	9.78353E+12	https://onlinelibrary.wiley.com/doi/book/10.1002/9783527841165	https://doi.org/10.1002/9783527841165
40	Artificial intelligence-driven decisions in breast cancer diagnosis	Dr. Rupesh K. Gautam	Pharmacology	Drug and Therapy Development for Triple Negative Breast Cancer	2023	9783527351756	https://onlinelibrary.wiley.com/doi/book/10.1002/9783527841165	https://doi.org/10.1002/9783527841165
41	Establishing nanotechnology-based drug development for triplenegative breast cancer treatment	Dr. Rupesh K. Gautam	Pharmacology	Drug and Therapy Development for Triple Negative Breast Cancer	2023	9783527351756	https://onlinelibrary.wiley.com/doi/book/10.1002/9783527841165	https://doi.org/10.1002/9783527841165
42	Recent Advancement of Nanotherapeutics to Treat Breast Cancer	Dr. Rupesh K. Gautam	Pharmacology	Drug and Therapy Development for Triple Negative Breast Cancer	2023	9783527351756	https://onlinelibrary.wiley.com/doi/book/10.1002/9783527841165	https://doi.org/10.1002/9783527841165



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5. TEACHING – LEARNING METHOD.

Digitalization of teaching and learning

The digital platform is revolutionizing our teaching-learning approach. The shift is achieved through digital devices like comprehensive use of ERP system (master soft ERP for the exchange of classes / lecture notes, assignment, ppt, videos & updates), online webinars, blended learning, and the creation of what's App groups to stay in touch with student.

ICT TOOLS

While software is utilized in laboratories (such as the ETNL language software in the computer lab and the Ex Pharm series in the pharmacology lab), a variety of ICT tools are used in teaching and learning programs, such as PowerPoint presentations and Master soft ERP (LMS module) in lectures.

Every classroom has access to ICT. In lectures, projectors are utilized to facilitate learning through the use of master soft ERP Google Classroom, PowerPoint presentations, animated films, and other resources. SMS alerts to parents about absentee & weekly attendance about short attendance on ERP.

Initiating implementation of HR related functions through ERP. (Ex- leave, salary slip).

ERP: We have implemented a Cloud based fully functional use of ERP for attendance and LMS (learning management system) For Assignment, quiz, lecture notes, syllabus. etc Attendance is also monitored through Bio Metric: Bio Metric Attendance Machines in each classroom.

Innovation in Teaching:

The use of innovative methods in educational institutions has the potential not only to improve education, but also to empower people, strengthen governance and galvanize the effort to achieve the human development goals for the institute.

1. Use of physical models

Ball and stick model for the demonstration in chemistry class

Use of models of body parts in HAP Class

2. Use of software



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CADD in M. Pharm

3D printing software for project work

CADD- Molecular Drug Design for B.Pharm

Pharmacology practical

Language Lab: ETNL language software

3. Project based learning

B. Pharm project –major project

M. Pharm project – mini projects during lab, research project.

4. Use of Power Point Presentation by student

Use of ppt for assignment

5. Use videos YouTube videos /Animations

6. Case studies during jurisprudence cases

7. Field study Pharmacy setup

Dhanvantra medicine

6. QUALITY OF STUDENT ADMITTED IN THE INSTITUTE.

IIP Provides **Merit base fees scholarship** to enhance the quality of students admitted in the institute. This year, around 100 students out of 115 were above 70% marks in 12th standard.

Admissions in pharmacy are given on the basis of 12th Board percentage. As per the govt. norms, admissions in Pharmacy are only through DTE counseling. Students with higher grades in their 12th class board exams have taken admission in our institute due to added financial advantage. This is reflected in the increment in students falling in higher percentage bracket limit of 70% and above.

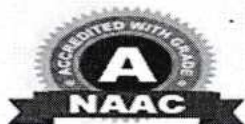
7. INFRA-STRUCTURE-

IT DEPT: IIP has **Intel I5, 16 Gb RAM, 512 GB SSD, 22" LED Monitor, and Windows 11 OEM** for teaching purposes.

- We now have 120 PCs with (HP) Intel I5, 16 Gb RAM, 512 GB SSD, 22" LED Monitor with Windows 11 OEM, Intel I3, 12 GB RAM, 24 GB SSD, 500 GB Hard Disk, 22" LED Monitor, Intel Core 2Duo, 4 GB RAM, 128 Gb SSD, 80 GB Hard Disk, and 22" LCD Monitor updated in March 2023.



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- LAN and Internet are available throughout the building with a bandwidth of 300 Mbps. The internet facility was upgraded on 18 Jan 2024.
- 29 CCTV cameras installed.
- One Color Jet Drum Printer, 06 MFP printers, 08 projectors, 15 web cam.
- **We have Conference Room** with smart board
- **Navrajan Kaksh-** This center was developed by students to show case their creativity and artistic skills. The students of Art & Creative club developed the room by show casing their artistic skills on the walls of the room. Clubs like Lexicon- For Poetry, Photography Clubs, Cultural clubs, Sadashay Clubs functions and hold meetings in that center.
- **Charak Aushadhalaya** retail pharmacy setup is used for demonstration purpose for students.
- LED lights were installed throughout campus as part of our Institute's sustainability and energy-saving measures.
- Sanitary pad vending machine placed in girls' washroom on ground level.
- SPORTS-we have adequate facilities for sports such as cricket, pickleball basketball football, table tennis, volleyball, badminton etc
- Laboratory.: Pharm Chem; Pharmaceutics, Pharmacology, Pharmacy Practice, Pharmacognosy.
- Social Pharmacy Lab for PharmD Course.
- Dhanvantri garden with around 200 plants is used by the students and faculties for practical knowledge and research work.
- ETNL language software .is used in communication lab that have 60 computers and 15 speakers and all updated system

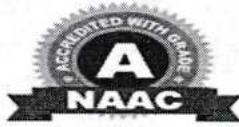
8. INCUBATION CENTRE-

Indore institute of pharmacy has received recognition as host institute for implementation of incubation component under MSME innovative scheme, by this the institute become eligible to submit new innovative ideas for getting financial support under MSME innovative scheme

Significant involvement of IIP Incubation Centre




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- A project preparation of herbal tablet for pest control for the protection of grain 'AYURRUM' won 2nd prize in Pharma Shark Competition In PHARMATHON 2024 organized by Medicaps University on 12-13 April 2024.
- Two groups attended Techathon 1.0 organized by RRCAT AIC HUB powered by IPG photonics on 24 may 2024 at RRCAT.
- Student participated in Startup ideathon organized by Indore institute of management & research and got maximum sale in event.
- Indore institute of pharmacy conducted ideathon competition under incubation cell and about (10-12) teams participated.




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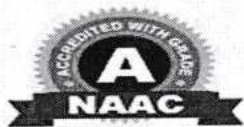
9. INCREASE IN NUMBER OF ACTIVITIES.

National Service Scheme (NSS): The number of outreach and extension programs the organization runs throughout the year through NSS, NCC, the government, and government-recognized organizations (such as Swachh Bharat, AIDS awareness, gender issues, etc.) and/or those arranged in partnership with business, the community, and non-governmental organizations.

S. No	Title	Date	No. of Participants
1	World Environment Day Plantation Drive	05/06/2024	27
2	World Earth Day	22/04/2024	26
3	World Health Day Celebration	07/04/2024	Mass
4.	International Mother Language Day Celebration	18/03/2024	20
5.	Cleanliness drive in village Kalakund and gunjara	10/2/2024	30
6	Tracking Kalakund village	10/2/2024	16
7	Report of Awareness Seminar on Drug Menace	05/02/2024	25
8	National Girl child Day	24/01/2024	70
9	Road Safety Awareness Program	17/01/2024	21
10	National Youth Day	12/01/2024	120
11	Rashtriya Ekta Diwas	31/10/2023	87
12	International Day of Girl Child	26/10/2023	26
13	Gandhi Jayanti	02/10/2023	Faculty and Staff
14	NSS Day	24/09/2023	30
15	Anti-Ragging Week	17/08/2023	80
16	Sadbhavna Diwas	21/08/2023	150




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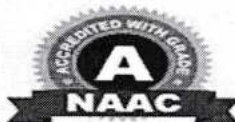
➤ **EXTENSION ACTIVITIES.**

Over the past five years, extension activities have been conducted in the local community to raise students' awareness of social concerns and its implications for their overall development. Our kids enthusiastically participated in a number of events, including the "Save Soil" campaign, "Beti Bacaho-Beti Padao," International Yoga Day celebration, World Health Day celebration, International Women's Day, Swachta sabhiyaan, Plantation drive, and Health Camp.

2023-2024			
S. No.	Particulars	Number of students participated	Date of Activity
1	International Yoga Day	57	21/06/2024
2	World Red Cross Day	10	08/05/2024
3	World Earth Day	30	22/04/2024
4	Health Awareness Program	47	24/03/2024
5	Women's Day Celebration 2024 Car Rally and Guest Session	Mass	09/03/2024
6	National Science Day	40	28/02/2024
7	World Cancer Day	85	04/02/2024
8	Republic Day Celebration	Faculty, Non-teaching and students	26/01/2024
9	National Youth Day	105	12/01/2024
10	Report of National Energy Conservation Day	20	14/12/2023
11	Viksit Bharat 2047	200	11/12/2023
12	Health Checkup camp on Explore and field visit for problem identification	20	23/11/2023
13	National Education Day	20	11/11/2023
14	Rashtriya Ekta Diwas	30	31/10/2023
15	International Day of Girl Child	26	26/10/2023



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10. INCREASE IN NUMBER OF ADD ON CERTIFICATE COURSE IN FORM OF SIG ACTIVITIES.

Under the specialized Skill Improvement group (SIGs) , we have created Skill Improvement Training for our students to be Industry Ready as part of our efforts to improve their Employability Quotient and Holistic Development.

Inclusion of training program from NIPER Ahmedabad

Along with the current SIGS we added the training program in collaboration with NIPER Ahmedabad that includes online Classes & offline workshops.

We have introduced SIG Programs on Sophisticated Analytical Techniques to our previous trainings on GLP & Safety Measures, Tableting Technology, MS-Excel Fundamentals, Clinical Research / Pharmacovigilance / Clinical Data Management, research writing. Building faculty and student capacity is the main goal of these SIGs, which also give them the opportunity to engage in teaching, research, and development activities in new fields.

11. INCREASE IN NUMBER IN COLLABORATION AND MOUS

MOU with National Facility for Biopharmaceuticals (NFB).


Association with NIPER Ahmedabad for certificate course.

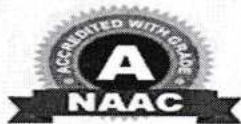
IIP has entered into Memorandums of Understanding to work with several organizations and businesses in order to:

- To encourage and develop interest in academics.
- To offer guidance for implementing high-quality education
- To encourage inter-institution research and continuing education initiatives.
- To offer comprehensive development.

The overall number of activities carried out in cooperation with the organizations that have memorandums of understanding with the Indore Institute of Pharmacy has increased.




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Activities carried out in cooperation with MOUs


1. Guest lecture on Research methodology with NFB by Ms. Pratiksha palahe.
2. SIG on Excel fundamentals and advanced in partnership with AASRA.
3. In partnership with AASRA, the IIP SIG on Instrument Handling Expertise was established.
4. In association with AASRA SIG on 'Safety and Good Laboratory Practices.'
5. In association with AASRA the SIG on Sophisticated Instrument Handling Expertise-HPLC.
6. SIG on Tablet Technology in collaboration with AASRA and Glenmark.
7. 'Quality Management System' SIG in partnership with AASRA.
8. Under MOUs with Shri Ram Chandra Mission-Sahaj Marg-Heartfulness Organization, Yogic Transmission and Meditation with understanding of Cleansing and Prayer

12. INCREASE NUMBER OF ACTIVITIES MOUS AND COLLABORATION

Following were Various MoUs activities conducted in the academic year 23-24

- Certificate program with Niper Ahmedabad.
- Industrial visit by B.Pharm and M.Pharm student at IPCA & Lupin
- Project work by M. Pharm. students in association with 3D Prototyperez, Indore (M. P.)
- Workshop for M.pharm students on 3D Printing with 3D Prototyperez, Indore
- Under MOUs with Shri Ram Chandra Mission-Sahaj Marg-Heartfulness Organization, Yogic Transmission and Meditation with understanding of Cleansing and Prayer
- SIG on Excel fundamentals and advanced in partnership with AASRA.
- In partnership with AASRA, the SIG on Instrument Handling Expertise- UV
- SIG on Safety and Good Laboratory Practices, in association with AASRA.
- In Partnership with AASRA, the SIG on Sophisticated Instrument Handling Expertise-HPLC.
- SIG on Tablet Technology in collaboration with AASRA and Glenmark.
- Guest lecture with NFB on research methodology with NFB by Ms. Pratiksha Palahe
- Quality Management System SIG in partnership with AASRA.
- Hosted HR meet for Pitampur Federation Organization with an objective to give exposure to our students on Interviewers' expectations. HR of various companies & interaction of TPO cell & faculties for future collaboration.
- Health camp in sindodhi village in association with Choithram hospital.




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- Blood donation camp with M.Y Hospital

13. ESTABLISHED INSTITUTE INNOVATION COUNCIL UNDER FLAGSHIP OF MINISTRY OF EDUCATION.

- Various activities under IIC were conducted in Indore institute of pharmacy every quarter.
- Total 22 activities in year 23-24 conducted through IIC Cell.
- Regional meet holds in Acropolis IIC president of IIP Dr. Rekha Bist and Dr Praveen Sharma attended the meet & student showcased the ideas under - Udyamita scheme in Yukti Appreciated by the chief guest present.
- Online meeting of IIC were attended by faculties and IIC team organized by IIC

14. PARTICIPATION IN AND NIRF.

Participated in NIRF for year 2023-24

15. ACQUIRED ANY DEGREES OR ACADEMIC QUALIFICATIONS

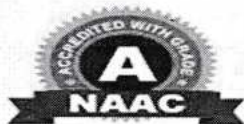
- 4 Faculty registered for PhD in the year 2023-24.
- Recruitment of Faculty (Mr Gyanendra Patel) carrying rich industrial experience with expertise in Sophisticated instrument handling for the purpose of Training students to be industry ready.
- Two Faculties received award in National conference Organized by LNCP Indore in Association with APTI : Ms Nayany Sharma received Inspirational Women Awar and Mr. Rohit Sahu received Best Academician Award.

The IQAC was founded in 2019 with the goal of becoming accredited by NAAC within the next few years. We were successful in this endeavor, as evidenced by our NAAC "A" accreditation. Additionally, there is always room for development in every area; going forward, the IQAC made sure that the improvements

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16. Initiative in teaching learning process –

1. Adoption of Outcome-based education - The institution used a three-pronged approach in adoption of OBE -

- Conduct of Guest lectures by eminent and senior teachers and industry personal;
- Conduct of Workshops, skills, training,
- internships in retail pharmacy, industries, project B. Pharm (research project, surveys)

2. Use of digital tools and new pedagogy techniques –

- IIP ensures full usage of digital tools - like ERP, Google Classrooms, Digital-Forums (Whatsapp), Presence of institute on Social Media Platforms (Facebook, Instagram, LinkedIn, YouTube)
- ERP:** New software- MasterSoft -Cloud Based ERP Software is installed for the entire functioning- attendance monitoring, performance monitoring.
- Digitalization of the library and use of Digital libraries like DELNET, RGPV e -Library etc. Implementation of Split classroom techniques.

3. Conduct of Result analysis

The procedure for achieving program results in relation to course outcomes was adopted by the institution. Results are analyzed for student performance following the university's announcement of the end-of-semester results.

Regarding the analysis of the results from the previous semester, IQAC suggested using sessional tests to identify slow learners beforehand, setting up remedial programs, and encouraging advanced students to participate in research-based activities. (Publications and Projects)

4. The implementation of various institutional scholarship programs to enhance learning outcomes and foster student talent, as detailed below.

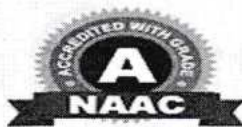
- Scholarships awarded on the basis of merit at admission
- Sports scholarships are offered to qualified applicants during the admissions process.

5. Promotion of Research and Development in the Institution

The number of research activities has increased since the Research Cell's research policy was put into place and promotional incentives for publications, patents, and research projects were made available. In the **Institutional Innovation Center**, our students have also started projects.



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Numerous patents have been published, and ongoing projects include industrial-based projects, partnerships with industry for internships, and partnerships through memorandums of understanding with other educational and skill-training institutions for student training. Ph.D. enrollment is encouraged for faculty members.

6. Establishment of the NSS Unit at the institution and the execution of extension programs under its auspices to foster a sense of community among students and to instill professional ethics, such as Health Check Up Camp, Blood Donation, and Road Safety Awareness.

7. Student Feedback system shifted to online mode.

8. New integrated PG program approved received from PCI and RGPV and preparation for the academic session (appointment of faculties, purchase of lab equipment and chemical as per req. And infrastructure modification required was done).




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