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Syllabus

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ESSENTIALS OF PHARMACOGNOSY

A Comprehensive Textbook
for Pharmacy Students



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PREFACE

The field of pharmacognosy plays a foundational role in the curriculum of the Doctor of Pharmacy (Pharm D) program, providing students with an essential understanding of medicinal plants, their constituents, and their therapeutic relevance. This book has been carefully crafted to align with the approved syllabus under Pharm D Regulations, 2008, covering every key topic—from the basics of crude drug classification, cultivation, and evaluation, to advanced concepts like phytochemical constituents, plant fibers used in surgical dressings, and the detection of adulterants.

The objective has been to deliver content in a simple, structured, and student-friendly format while preserving the scientific rigor required at the professional level. Each chapter has been written with clarity, logic, and academic depth to ensure it meets the learning needs of both students and educators. Special care has been taken to include updated content, logical chapter sequencing, and standardized headings that facilitate easy navigation and retention. Whether it is understanding the microscopic characteristics of drugs, the chemistry of natural products, or evaluating fiber-based surgical materials, this textbook is designed to serve as a complete and reliable companion throughout the students' academic journey in pharmacognosy.

While this textbook is specifically designed for Pharm D students, it is equally suitable for undergraduate and postgraduate pharmacy programs where pharmacognosy is an integral part of the syllabus. Institutions offering B. Pharm, M. Pharm (Pharmacognosy), or related life sciences and biomedical disciplines will also find this text beneficial for their curriculum and teaching-learning process. It is our sincere hope that this book bridges the gap between classical plant-based drug knowledge and modern pharmacognostic practices.

About the Authors

Dr. Irfan Aziz is Principal at the School of Pharmaceutical Sciences, Integral University, Lucknow, with over 20 years of experience in teaching and administration. He holds a Ph.D. in Pharmacy and has authored more than 25 research papers, 7 books, and several patents, including one in the USA. His research focuses on wound healing herbal formulations, hepatocellular carcinoma, and the validation of bioactive molecules with traditional claims.



Dr. Abdul Baseer Khan is Assistant Professor at the College of Pharmacy, Integral University, Lucknow, with 15 years of teaching experience. He holds a Ph.D. in Pharmacognosy from Integral University and an M.Pharm. from Al-Ameen College of Pharmacy, Bangalore. Dr. Khan has published research papers, attended over 25 conferences and seminars, and continues to contribute actively to the field of pharmacognosy.



Dr. Raj Kumar Tiwari, Professor and Head at Era College of Pharmacy, Era University, has over 18 years of academic and industry experience, including roles at NPIL (Mumbai) and Alkem Laboratories (Daman). He holds a Ph.D. from Jaypee University, an M.Pharm. in Pharmacognosy, and a B.Pharm. from Rajiv Gandhi University of Health Sciences, Bangalore. Dr. Tiwari has published 20 research papers, 5 book chapters, secured 3 patents, and completed funded projects. His research centers on herbal medicines, focusing on standardization and validation of bioactive constituents



Dr. Mohammad Fahim, Associate Professor and Dean at N.N.M. College of Pharmacy, Uttar Pradesh, has over 14 years of teaching and research experience. He holds a Ph.D. in Pharmaceutical Sciences, an M.Pharm. in Pharmacognosy & Phytochemistry, and a B.Pharm. from Jamia Hamdard. His research focuses on herbal drug standardization, phytochemistry, and natural product pharmacology. He has published research papers, presented at national and international conferences, authored a book on Cosmetic Technology, and contributed laboratory manuals for pharmacy students.



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