

# M. S. Ramaiah University of Applied Sciences

Bangalore - 560 054



## Faculty of Pharmacy (FPH)

The Faculty of Pharmacy Started in the year 1992, is today one of the best pharmacy institutions in the country in terms of laboratory facilities and faculty, the college has been identified as "Model Institution" for quality and standards. From the time of its inception in 1992 till 2014 the institution operated as M.S.Ramaiah college of Pharmacy under the aegis of Gokula Education Foundation (M).

Faculty of pharmacy under the banner of M.S.Ramaiah University of Applied sciences is aimed at becoming a centre of excellence in pharmaceutical studies and research. The faculty is moving ahead with the vision of upgrading the infrastructure and facilities required for new courses and programmes. The faculty is committed towards providing value based pharmaceutical education to meet the current needs of pharmaceutical industries and hospitals. The MSRUS - Faculty of Pharmacy has been set to provide a platform for training and upgrading of skills as well as continuing development and education of pharmacy professionals in the healthcare sector.

## Dean's Message

**Hearty welcome to the "Faculty of Pharmacy of M.S.Ramaiah University of Applied Sciences (MSRUAS)".**

Trained pharmacists play a vital role in the healthcare programme by coordinating with the medical doctors in the selection and prescription of suitable drugs to the patients as clinical pharmacist, due to their thorough knowledge about formulations, dosage forms and adverse effects of drugs. They also guide pharmaceutical industries in regard to manufacture of quality drugs and new drug discovery. The courses and curriculum offered at various levels by the faculty adheres to the norms of the respective regulatory bodies. The curriculum is outcome based which is a progressive approach to teaching and learning. It helps students to develop critical thinking abilities and to imbibe relevant practical skills for a smooth transition from academics to real life work environment. This philosophy of learning makes the student an active learner; the tutor a good facilitator and together they lay the foundation for lifelong learning. Almost all developed countries have adopted the outcome based education in their schools and universities. Opportunities are provided for students to do their internship in India or abroad depending upon their preference. A student who joins the faculty of pharmacy, under MSRUS will not only be groomed into a versatile pharmacist but also as a confident individual who can take up any challenge in the professional as well as personal front. These students will also have the advantage of a good campus placement due to the high standards maintained by our faculty. The courses offered aim to sharpen leadership qualities and advanced clinical expertise that enable them to be at the forefront of pharmacy profession and healthcare in a variety of settings including drug and formulation development, community practice, academics, educational research and government service. I again extend a cordial welcome to the family of MSRUS...



**Dr. V. Madhavan**  
Dean, FPH

# Departments and Academic Programmes

The faculty of Pharmacy has five departments

1. Department of Pharmacognosy
2. Department of Pharmaceutics
3. Department of Pharmaceutical Chemistry
4. Department of Pharmacology
5. Department of Pharmacy Practice

Each department is an independent entity headed by a Head of the Department reporting to the Dean of the faculty. Each department has its own faculty members, teaching and learning resources and offers UG programme leading to B.Pharm degree, Pharm D degree, PG programmes leading to M.Pharm and Doctoral programme leading to Ph.D degree. Each department offers Part Time PG programme and Doctoral Programme for working professional.

## **B. Pharm – 4 years (8 Semesters)**

The Undergraduate Programme in Pharmacy aims to impart a high-level of knowledge and skills in Pharmacy, coupled with general education. The combination of Pharmacy education and general coursework can provide a broad base of knowledge that can apply to pharmacy. The graduates produced will be able to meet the human resources requirement of pharmaceutical industry.

## **Pharm D – 6 years (Annual Pattern)**

The course is aimed at facilitating and enabling pharmacists to fully utilize their substantial knowledge and expertise in areas such as pharmacotherapeutics, clinical pharmacy, hospital and community pharmacy. The Pharm D curriculum emphasizes patient centered course of study that develops students with skills and attitudes to critically evaluate and modify clinical practices in a timely and effective manner.

## **M Pharm – Full time (2 years) / Part time (3 years)**

Master's degree programme of MSRUAS is designed to impart high-order overview in the chosen subject area. The postgraduates are expected to find opportunities in industries and business, research establishments and even may take up entrepreneurship. With experience, they should be able to take up leadership positions in the chosen career.

Research scholars also take time to attend and participate in seminars where current research is presented by their peers, faculty and eminent visiting scientists.

The PG programme is offered as a module system, one of its kind in India for encouraging and facilitating students to have an enriching learning experience with lessened academic burden.

The various courses offered by the faculty are listed in the following table

Faculty / Department	UG courses B.Pharm Degree	PG Courses M.Pharm Degree / Ph.D*
Pharmacy	B.Pharm	-----
Pharmacy	Pharm.D	-----
Pharmacognosy	-----	Pharmacognosy* Herbal Drug Technology
Pharmaceutics	-----	Pharmaceutics* Pharmaceutical Technology*
Pharmaceutical Chemistry	-----	Pharmaceutical Chemistry Pharmaceutical Quality Assurance Pharmaceutical Analysis
Pharmacology	-----	Pharmacology
Pharmacy Practice	-----	Pharmacy Practice

# Departments and Academic Programmes

## Department of Pharmacognosy

Pharmacognosy is a multidisciplinary science, which deals with chemistry, biochemistry, isolation, structural determination and pharmacological aspects of drugs of natural origin. It incorporates various modern analytical techniques to authenticate and standardize herbal drugs as well as purified active extracts. The Department of Pharmacognosy is equipped with some sophisticated equipments like High Performance Thin Layer Chromatography (HPTLC) system.etc

## Department of Pharmaceutics

Pharmaceutics is the discipline of pharmacy that deals with the science of dosage form design and embraces all aspects of converting a drug into a dosage form that can be safely and effectively used by patients. The highlight of this department is a pilot scale machine room designed to provide hands-on training to undergraduate and post graduate students of all streams, so that they are readily accepted in industry after the completion of course.



## Department of Pharmaceutical Chemistry

The nature of competition in the industry calls for quality research and hence there is a great demand for M. Pharm. and Ph.D. students in the research and drug development in pharmaceutical industry besides teaching positions in the discipline of Pharmaceutical Chemistry. The department is equipped with a central instrument laboratory containing sophisticated analytical instruments.

## Department of Pharmacology

Pharmacology is the study of drugs that examines the interactions of molecules with living systems, with a view to understand the properties of drugs, drug effects and drug receptors. It also provides the scientific basis for the use of drugs as therapeutic agents in medicine or as tools in scientific research. It is an important link between medical education and biomedical science.

## Department of Pharmacy Practice

The Department of Pharmacy Practice was established in the year 2009 and is committed to excellence in education and pharmaceutical service. The department focuses on the evolution and application of the concept of clinical pharmacy in Indian scenario. The department is located adjoining the 1050 bedded teaching hospital and is equipped with all resources, comprising of fully computerized drug information center with an attached library, latest edition of Micromedex and a modernized seminar room. The department also publishes an in-house newsletter "VISTA".



# Research

## Research, Publications and Patents

MSRUAS has a strong focus on Applied Research. The research programmes originate from industry, research establishments and business organizations. Students can opt for Doctoral Programme leading to the Ph.D Degree either through the full time or part time route. One of the main aim at FP is academic research. Normally these groups work on research problems with collaborations and technology transfer from various institutes. The faculty members of these groups supervise Ph.D thesis also. The faculty members of these groups are assisted by other academic faculty of allied specialization areas and research assistants. The research themes are:

Pharmacognostical, phytochemical and therapeutic screening of several indigenous herbal drugs by various models; Design ,synthesis, characterization, pharmacological evaluation and biological activity of novel chemical derivatives; Formulation and evaluation of novel drug delivery systems with improved characteristics covering wide range of therapeutics; Synthesis and characterization of polymers for controlled and targeted drug delivery.

The doctoral programme offered at MSRUAS is well structured and motivated candidates will be able to complete their Ph.D in the defined period. Around ten faculty members are already pursuing their doctoral programmes in various universities with few of them on the verge of thesis submission.

## Conferences, Seminars and Workshops

The faculty encourages the teaching staff and post graduate students to attend the national and international level conferences, seminars and workshops. The quality improvement programmes conducted by AICTE for the faculty members covering all the disciplines across the country have been enthusiastically attended by the faculty for keeping themselves abreast of the current trends in pharmaceutical sciences.

The students and faculty are motivated to participate in several national level conferences for poster presentation and publication of research articles in leading journals of high repute. The faculty has to its credit more than 200 publications in several reputed journals.



## Collaborations, student and staff Exchange and partnerships

The Faculty would like to strongly develop partnerships with reputed universities for offering value added professional programmes in advanced pharmaceutical technologies in India and abroad.

# Students Work

Every year students from Faculty of Pharmacy carry out group projects and individual projects as a part of their curriculum. The projects are critically reviewed and made sure they are technically relevant and academically of high standards. Most students get job opportunities based on their project work alone and many have published papers in reviewed journals.



## Student Competitions and Exhibitions

- Our students have excelled in various all India entrance examinations conducted by premier institutes like NIPER, BHU and Manipal. With their outstanding academic record, several of our students have bagged scholarships offered by foreign universities and brought laurels to the institution.
- Consistent performance in University examinations with more than 80% results every year.
- The college has also bagged the University First rank in three recent years.
- All the M.Pharm batches till date have been consistently producing 100% results with two university toppers.
- The institution has to its credit, more than 150 publications in various national and international peer reviewed journals and more than 100 presentations in various conferences.

## Cultural waves...



## Sports meet....



## Careers in Pharmacy

- Industries (R&D, Production, Quality assurance, Quality control)
- CROs (Clinical research co-ordinator, Data manager)
- Teaching
- Regulatory bodies (IPR)
- Community or hospital Pharmacist
- Sales and marketing
- Drug Inspectors, Govt. Analysts in Government Health Department....

# Student placements, Alumni Feedback Employers opinion



**Mr. Manoj Kulkarni**

B.Pharm: 2005- 2009;  
M.Pharm: 2011-2013  
Formulation Development  
Sanofi-Synthelabo India Ltd, Goa

It is a very enduring and happiest moment to be an alumnus of MSRCP. It molded me into a responsible citizen and a caring Pharmacist. Presently the knowledge which I possess in Pharmacy profession was imbibed into me only by MSRCP, for which I feel very grateful and proud to be an alumnus of a great institute. I strongly endorse the humane touch in motivating an average student to reach his high desired professional status with the best moral support and high intellectual professional guidance of MSRCP.



**Mr. Parth Sharma**

B.Pharm (2005-2009),  
F&D and Technical Services Associate,  
USA; MBA (RUTGRS University)

I am grateful to the faculty of MSRCP for guiding me throughout the program. Apart from gaining an excellent academic knowledge, I have learned an insight on, "What are the practical implications of the theoretical knowledge and How does a Pharmaceutical industry work?". The plethora of practical knowledge from the faculty members has given me an opportunity to be a part of the competitive industry. MSRCP has helped me carve my future and I can boast about being a student from M.S.Ramaiah College even overseas, as the college has a great recognition throughout the globe.



**Mr. Manish Prasad**

B.Pharm (2009-2013)  
Product Manager  
Sagar Pharmaceuticals  
(Unit of B.P.R.L), Bangalore

I had a great time in MSRCP, i still love keeping in touch with college staff. it was my great pleasure that I got a chance to study in one of the prestigious pharmacy college in India ,with one of the top class faculty with their clear view to guide the students how to succeed in their life. While writing these lines i remember the motivational words said by Mr.Henery David ;“If one advances confidently in the direction of his dreams, and endeavors to live the life which he has imagined, he will meet with success unexpected in common hours”, Which have had great impact in my life, and the faculty of this college helped me realize my potential & made me competent enough to face all the challenges of life with confidence.



**Ms. Ashwini Pavithran,  
Ms. Lydia Abraham  
& Ms. Letty Sabu**  
IV Pharm D (2011)

We are blessed with an excellent faculty in academic systems. Our institution has one of the best infrastructures apart from the excellent academic training. We are provided with well equipped laboratories with chemicals to work on and instruments for respective practical studies. The new 6 years integrated course has opened a new way in our career, as we have well established pharmacy practice department running in the hospital where doctors take the lectures for us. Unlike the traditional way of referring books, the e- library and software like MICROMEDEX brought out a new way of answering drug information queries. We are blessed to be the students of this college and are sure that we will come out of this college with flying colors.”



**Ms. Khatereh Parsei  
Ghaderabhadi**

IV Pharm D (2011)  
(Iran)

It is a great experience to pursue my studies in MSRCP. Unlike the Iranian system of education, knowledge and training provide by my college is excellent. The course has laid in me a strong foundation on clinical studies. I am thankful to the management for providing me an opportunity to practice my academics here.



**Mr. Sangam Srestha**

III Year , B.Pharm, 2014,  
(Nepal)

I have been in this institute for almost 3 years and it has provided me a lot in terms of pharmacy knowledge. Best part of academics is the easy and ready accessibility of faculty members after the regular classes for further clarification of doubts. Teachers are supportive and motivating. All this time I have heard them saying;” scoring marks is not the issue, understanding is a must”. The atmosphere with in the college is extremely inspiring primarily focused on grooming students as a responsible individual and to be an invaluable asset to the ever changing society.



ज्ञानं विज्ञानं च भक्तिसहितं

## Contact

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### Dean – Faculty of Pharmacy

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