

**PROGRAM OBJECTIVES-PHARMACY**

To provide solid foundation in pharmacy possessing basic knowledge and comprehensive understanding of Profession of Pharmacy

To prepare student graduates for a successful career in Pharmacy Profession with effective planning skills, problem analyzing skills, leadership skills, communication skills, and professional ethics

To train student graduates in learning, selecting, and applying appropriate methods, procedures, and resources of modern tools in Pharmacy Profession

Create dynamic and proficient Pharmacists for their successful careers in Pharmaceutical industry, academia, government organization, hospitals, and other organizations and as an entrepreneur

To train the students to promote practice of Pharmacy for improving and sustaining quality of life

To shape pharmacy graduates equipped with knowledge and skill to cater to the health-care needs of the society

To create state of art facilities to upgrade the technical skills of the students

To inculcate in student graduates, ability to gain multidisciplinary knowledge through innovative projects, industrial training, industrial visits, visiting research institutions, health care communities, health promoters, employees and employers

To promote environmental consciousness, cultural heritage, social, spiritual, and human values

To promote and enhance the quality of Pharmacy education and make student globally competent

**PROGRAM OUTCOMES-PHARMACY**

**PO1: Pharmacy knowledge:** Apply the knowledge of pharmacy fundamentals and an pharmaceutical specialization to the solution of complex pharmaceutical problems

**PO2: Problem analysis:** Identify, formulate, research literature, and analyze complex pharmaceutical problems reaching substantiated conclusions using first principles of natural sciences, mathematical, and pharmaceutical sciences

**PO3: Design/Development of solutions:** Design solutions for complex pharmaceutical problems and design system components or processes that meet the specified needs with appropriate considerations for public health and safety, and the cultural, societal, and environmental considerations

**PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

**PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern pharmaceutical tools including prediction and modeling to complex pharmaceutical activities with an understanding of the limitations

**PO6: The Pharmacy and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional pharmaceutical practice

**PO7: Environment and sustainability:** Understand the impact of the professional pharmaceutical solutions in societal and pharmaceutical contexts, and demonstrate the knowledge of, and need for sustainable development

**PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of pharmaceutical practice

**PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

**PO10: Communication:** Communicate effectively on complex pharmaceutical activities with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

**PO11: Project management and finance:** Demonstrate knowledge and understanding of the pharmaceutical and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments

**PO12: 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

**PROGRAM SPECIFIC OUTCOMES-PHARMACY**

To impart fundamental knowledge of structure and functions of various systems, their biochemical aspects, patho-physiological roles and the therapeutic management through pharmacological science

To inculcate among the students the knowledge and technical skills to carry out synthesis and analysis of drugs as well as develop, manufacture, market pharmaceuticals and cosmetics

To develop among the students the knowledge and technical skills of biopharmaceutical aspects and bioassays as well as screening of drugs for pharmacological actions

To inculcate the knowledge and technical skills of identification, standardization of drugs obtained from natural origin, herbal drugs as well as development of herbal formulations and cosmetics

To train the students and develop their technical skill knowledge for handling sophisticated analytical instruments

To create a talent pool by involving students in research projects and to make students undertake research projects under faculty guidance for publication

To foster ambitious desire among students to undertake higher studies and career growth

To establish industry institute partnership cell to bridge the gap between the industrial requirements and the academic curriculum

To improve patient care in performing medication history, interpretations of laboratory data of biological samples, identifying potential-drug related influences of Pharmacotherapy

To establish systems management as an entrepreneur through inventory control, distribution systems, documentation, analysis of financial resources, utilizing management theories, and information technology in industrial Pharmacy and Business Management

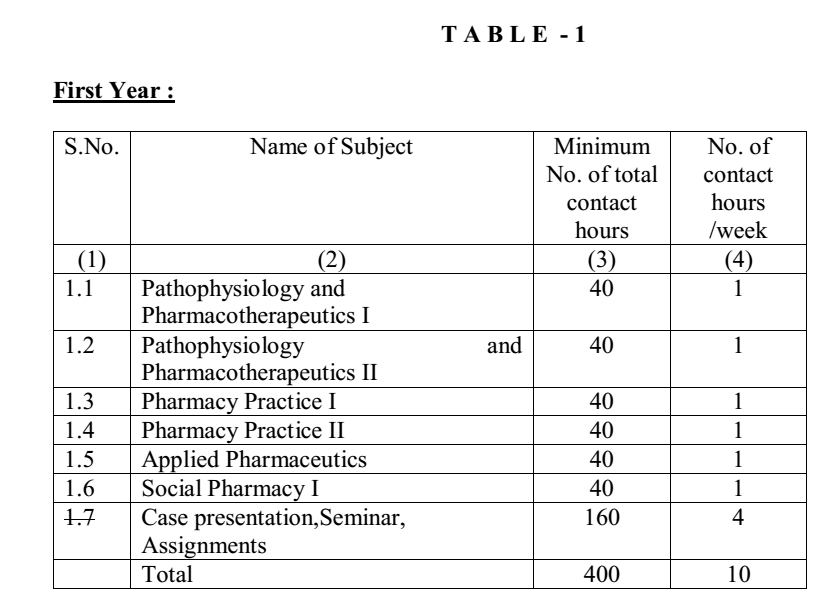
**School of Pharmaceutical Sciences**

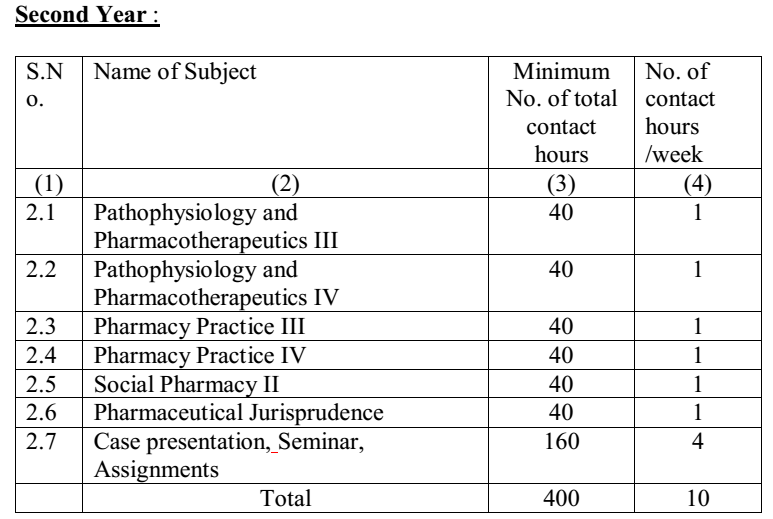
**BOS Members**

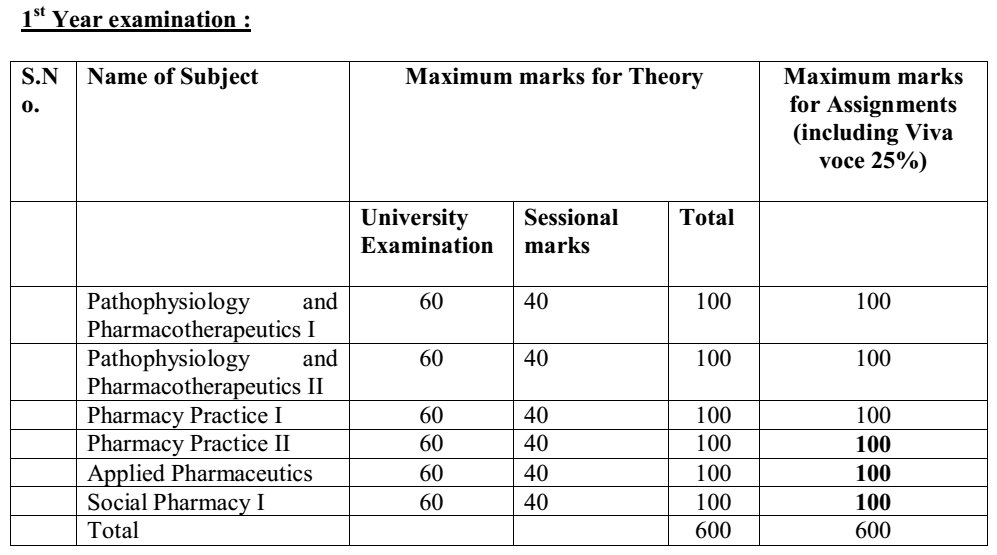
**UG Board of Studies**

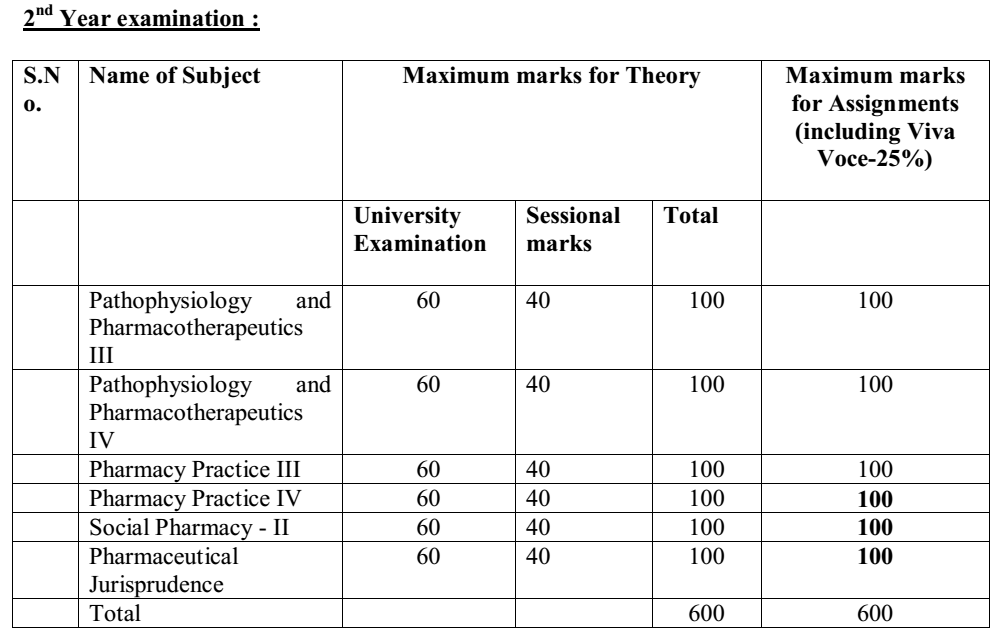
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| **S.No** | **Name** | **Post** | **Contact Address** |
| 1 | Dr.P.Shanmugasundaram | Chairman | Director, School of Pharmaceutical Sciences,  Vels University  Chennai |
| 2 | Dr.S.Jayakumari | Professor | Professor and Head,  Department of Pharmacognosy  School of Pharmaceutical Sciences  Vels University |
| 3 | Dr. S. Sathesh Kumar | Professor | Professor and Head,  Department of Pharmaceutics  School of Pharmaceutical Sciences  Vels University |
| 4 | Dr. M.Vijey Aanandhi | Professor | Professor and Head,  Department of Pharmaceutical chemistry and Analysis  School of Pharmaceutical Sciences  Vels University |
| 5 | Dr. S.Santhosh Kumar | Professor | Professor and Head,  Department of Pharmacology  School of Pharmaceutical Sciences  Vels University |
| 6 | Dr.T.S.Shanmugarajan | Professor | Professor,  Department of Pharmaceutics  School of Pharmaceutical Sciences  Vels University |
| 7 | Mr.M.Ashok Kumar | Associate Professor | Department of Pharmacy Practice  School of Pharmaceutical Sciences  Vels University |
| 8 | Dr.A.Vijayalakshmmi | Associate Professor | Department of Pharmacognosy  School of Pharmaceutical Sciences  Vels University |
| 9 | Mr.I.Somasundaram | Assistant Professor | Department of Pharmaceutics  School of Pharmaceutical Sciences  Vels University |
| 10 | Mrs. V.Jayashree | Assistant Professor | Department of Pharmacology  School of Pharmaceutical Sciences  Vels University |
| Subject Experts | | | |
| 11  12 | Mr.C.Venkatasubramaniyan | Expert (Industry) | Senior Scientist, Formulation Development, Par Formulations Pvt. Ltd., Kelambakkam, Chennai |
| Dr.R.Sundhararajan | Expert (Academic) | Professor and Principal  M.S.A.J College of Pharmacy, Sholinganallur. |
| 13 | Mr.M.Shivanandhaperumal | Alumni | Territory Sales Executive, Sun Pharma,3/4, Old Tower Block Street, 1st Extension, Nandanam, Chennai-35 |

**CURRICULUM STRUCTURE**









**SYLLABUS**

