



KOMMAREDDY VENKATA SADASIVA RAO
SIDDHARTHA COLLEGE OF PHARMACEUTICAL SCIENCES
(AUTONOMOUS)

Siddhartha Nagar, Vijayawada - 520010, AP, INDIA

(Sponsors: Siddhartha Academy of General & Technical Education)

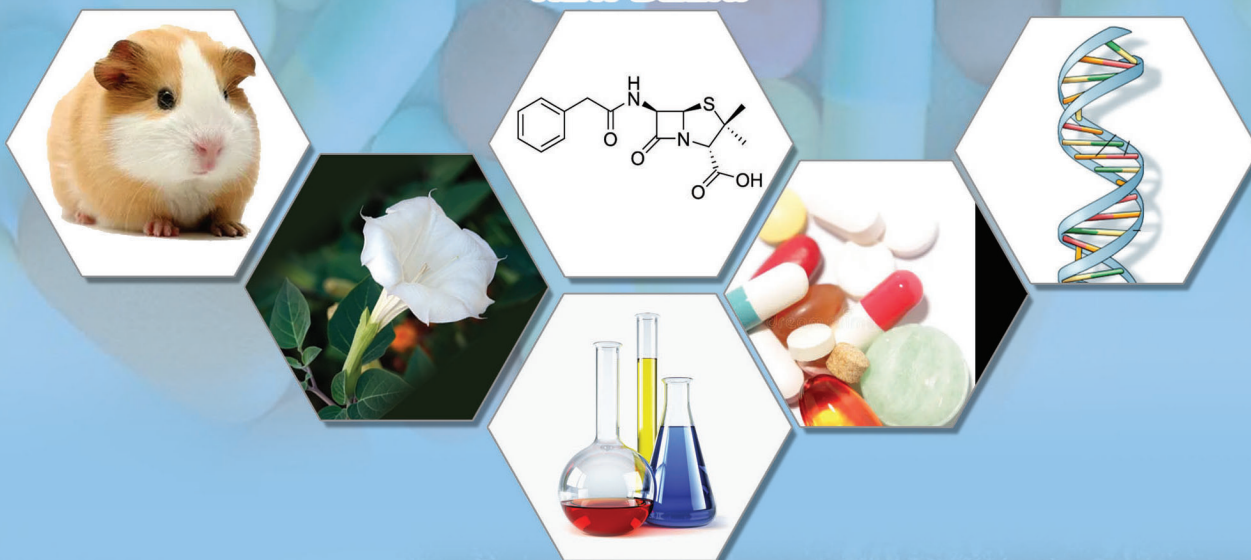
ISO 9001:2015, ISO14001:2015 & ISO50001:2011 CERTIFIED INSTITUTION

Affiliated to Krishna University, Machilipatnam

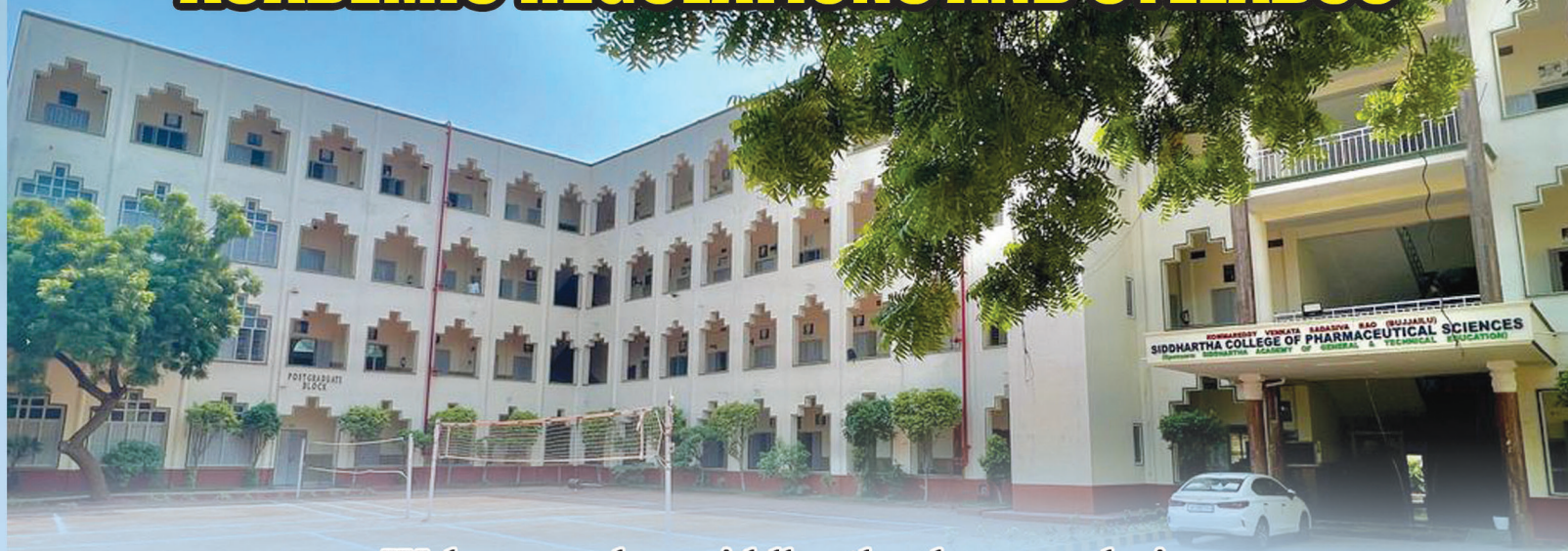
Approved by AICTE, PCI, New Delhi and Govt. of Andhra Pradesh

E-mail: kvsrsiddharthapharma@gmail.com

PHARMACY COUNCIL OF INDIA
NEW DELHI



BACHELOR OF PHARMACY COURSE
ACADEMIC REGULATIONS AND SYLLABUS



Web: www.kvsrsiddharthapharma.edu.in



Kommareddy Venkata Sadasiva Rao
Siddhartha College of Pharmaceutical Sciences
(AUTONOMOUS)

Tel: 0866- 2479775
0866- 2493347

Pinnamaneni Polyclinic Road, Siddhartha Nagar, Vijayawada - 520010, AP, INDIA
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PHARMACIST'S OATH

- ❖ I swear by the Code of Ethics of Pharmacy Council of India, in relation to the community and shall act as an Integral part of health care team.
- ❖ I shall uphold the laws and standards governing my profession.
- ❖ I shall strive to perfect and enlarge my knowledge to contribute to the advancement of pharmacy and public health.
- ❖ I shall follow the system which I consider best for pharmaceutical care and counselling of patients.
- ❖ I shall endeavour to discover and manufacture drugs of quality to alleviate sufferings of humanity.
- ❖ I shall hold in confidence the knowledge gained about the patients in connection with my professional practice and never divulge unless compelled to do so by the law.
- ❖ I shall associate with organizations having their objectives for betterment of the profession of pharmacy and make contribution to carry out the work of those organizations.
- ❖ While I continue to keep this Oath unviolated, may it be granted to me to enjoy life and the practice of pharmacy respected by all, at all times !
- ❖ Should I trespass and violate this oath, may the reverse be my lot !



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KVSR Siddhartha College of Pharmaceutical Sciences (KVSR SCOPS), a NAAC "A" accredited institution and an autonomous college with 30 years of academic excellence, was established with the vision of delivering quality pharmaceutical education. Approved by the Pharmacy Council of India (PCI), New Delhi, and affiliated with Krishna University, Machilipatnam, it is recognized under Section 2(f) of the UGC Act and as a research center by Krishna University.

The college offers diverse programs, supported by a legacy of dedicated and experienced faculty members. KVSR SCOPS features state-of-the-art infrastructure, including digital classrooms, a modern opaque laboratory with advanced instruments, a well-stocked library, an air-conditioned seminar hall, and CCSEA-approved animal facilities. Unique highlights include a NABL-accredited laboratory, a primary healthcare center, two air-conditioned computer labs, and indoor and outdoor sports facilities.

The college's strong collaborations are reflected in MOUs with Dr. Pinnamaneni Siddhartha Institute of Medical Sciences and leading pharmaceutical industries, including multinational corporations, to enhance research, training, and placement opportunities. This vibrant institution remains committed to fostering innovation, academic excellence, and holistic development.



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VISION

- To create competent Pharmacy Professionals in demonstrating health care delivery and research in promoting academic and professional excellence.

MISSION

- To Provide transformative learning experience that prepares students for successful careers in research education and pharmacy practice
- To promote values of professionalism, life -long learning and leadership skills among students

OBJECTIVES

- Foster graduates dedicated to continuous learning through advanced studies, empowering them to navigate a dynamic global landscape of emerging trends.
- To equip pharmacy professionals with the skills for innovative and problem-based research, enabling successful careers in diverse pharmaceutical and healthcare systems.
- To inculcate robust ethical values and exemplary professional behaviour to embrace and assimilate emerging changes in the pharmacy profession effectively.



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Principal's Message



Greetings!

It gives me immense pride and joy to address you as the Principal of KVSR Siddhartha College of Pharmaceutical Sciences, an institution that has consistently upheld excellence in pharmaceutical education and research. Over the years, KVSR SCOPS has emerged as a beacon of knowledge and innovation, shaping the future of countless students and contributing meaningfully to the advancement of the pharmaceutical sciences.

With the recent conferment of autonomous status by UGC and achieving NAAC 'A' grade accreditation, our institution stands at the forefront of academic excellence. These milestones are a testament to the collective efforts of our dedicated faculty, talented students, and supportive management.

At KVSR SCOPS, we strive to create a nurturing environment that fosters creativity, critical thinking, and lifelong learning. Our robust PhD and research programs reflect our commitment to pushing the boundaries of knowledge and addressing contemporary challenges in healthcare and allied fields.

As we embark on a new chapter, I invite you to join hands with us in our journey towards shaping a healthier, better tomorrow. Together, let us continue to inspire and achieve greater heights.

With Best Regards

Prof. A.SUNEETHA
Principal



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Web: www.kvrsiddharthapharma.edu.in

GOVERNING BODY

S.No.	Name of the Member	Category	Nature
1.	Dr. C.Nageswara Rao	Management	Chairman
2.	Sri. P. LakshmanaRao	Management	Member
3.	Sri. S. VenkateswaraRao	Management	Member
4.	Sri N. Lalitha Prasad	Management	Member
5.	Sri. Ch. Arun Kumar	Management	Member
6.	Dr.A. Suneetha	Principal of the College	Principal & Professor
7.	Dr. M. BasaveswaraRao	University Nominee	External Member
8.	Prof. N. Usha	State Government Nominee	External Member
9.	Dr.K.R.S.SambasivaRao	Educationist	External Member
10.	Dr.G.Vijaya Kumar	Teachers of the college	Internal Member
11.	Dr.G. Ramana	Teachers of the college	Internal Member
12.	Dr. M. Vijaya Lakshmi	Administrative staff of the College	Internal Member



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LIST OF TEACHING STAFF

S.No.	Name of the staff	Designation
1.	Dr.A.Suneetha	Principal & Professor Head
2.	Dr.M.Vijaya Lakshmi	Associate Professor
3.	Ms.T.S.Mrinalini	Assistant Professor
4.	Ms. S. L.S.Mounica Pratyusha	Assistant Professor
5.	Smt.K.Jyothi	Assistant Professor
6.	Dr G. Ramanaiah	Professor & HOD
7.	Dr A. Bharathi	Professor
8.	Dr. T. P. Rao	Associate Professor
9.	Dr N. Kanaka Durga Devi	Associate Professor
10.	Dr.D. Jyothirmayee	Associate Professor
11.	Dr.K.Ravi Shankar	Assistant Professor
12.	Dr. Sk.Arifa Begum	Assistant Professor
13.	Sri. K. Anil Kumar	Assistant Professor
14.	Smt.K.Haritha	Assistant Professor
15.	Smt.R.Anusha	Assistant Professor
16.	Mr.P.Srinivasu	Assistant Professor
17.	Dr. B. Anupama	Associate Professor & HOD
18.	Dr. T. Sarala Devi	Assistant Professor
19.	Dr. V.Narendra	Assistant Professor
20.	Ms.Sk.Jareena	Assistant Professor
21.	Sri.K.Durga Prasad	Assistant Professor
22.	Dr. CH.Supriya	Associate Professor & HOD
23.	Dr. Ch.Siva Reddy	Professor & HOD
24.	Dr. Ch. Nagabhushanam	Assistant Professor
25.	Sri.A.V.S.Ravi Sai Nadh	Assistant Professor
26.	Smt.O.Iswarya	Assistant Professor
27.	Smt.J.Jyothirmayi	Assistant Professor
28.	Dr V Karuna Sree	Associate Professor & HOD
29.	Dr. P. Swetha	Assistant Professor
30.	Mr.J.Susanth	Assistant Professor
31.	Dr.G.Vijaya Kumar	Professor & HOD
32.	Smt.A Lakshmi Pavani	Assistant Professor
33.	Smt.K.Harshavardhini	Assistant Professor
34.	Ms.R.Triveni	Assistant Professor
35.	Smt. K. Sirisha	Assistant Professor
36.	Smt. K.Pradeepthi	Assistant Professor
37.	Smt.S.Pranathi	Assistant Professor
38.	Ms.A.Soujanya	Assistant Professor
39.	Dr.P. Lakshmi prasanna	Assistant Professor
40.	Smt. Patibandla Jahnavi	Assistant Professor
41.	Smt.Viswa Srujani	Assistant Professor
42.	Sri. L.Vinay Sekhar	Physical Director



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NON-TEACHING STAFF

S.No.	Name of the staff	Designation
1.	Sri.S.Veerabhadra Rao	Student Counsellor
2.	Sri.K.Venkata Rao	Senior Asst.
3.	Sri.K.Nagamalliswara Rao	Accountant
4.	Smt.A.Saileela	Asst. Librarian
5.	Smt. S.Srilakshmi	Data Entry Operator
6.	Smt.P.Venkata Krishnaveni	Data Entry Operator
7.	Smt.M.Anupama	Office Assistant -cum-Data Entry Operator
8.	Sri.T.Venkat Rao	Office Assistant -cum-Data Entry Operator
9.	Smt.B.Padma Priya Choudary	Office Assistant -cum-DEO
10.	Smt.V.Indumathi	Lab Assistant
11.	Smt.S.Hari Kumari	Lab Assistant
12.	Smt.M.Sailaja	Lab Assistant
13.	Smt.V.Sridevi	Lab Assistant
14.	Smt.A.Pavani Kumari	Technician
15.	Smt.M.Visala Gowthami	Lab Assistant
16.	Smt.J.Nagalakshmi	Lab Assistant
17.	Smt.G.Nagalakshmi	Lab Assistant
18.	Ms. D.Beulah	Lab Assistant
19.	Sri.B.Nagababu	Attender
20.	Smt.M.Suryam	Sweeper
21.	Sri.T.Arjun	Sweeper
22.	Sri.T.Seshubabu	Lib. Attender
23.	Sri.Y.Appa Rao	Gardener
24.	Smt.S.Rani	Sweeper
25.	Smt.K.Pravallika	Lib. Attender
26.	Smt. B.Savitri	Sweeper
27.	Smt. G.Rutamma	Sweeper
28.	Smt. Anitha	Sweeper
29.	Smt.Y.Philomin Rani	Sweeper



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CODE OF CONDUCT

KVSR Siddhartha College of Pharmaceutical Sciences is committed to upholding the highest standards of ethics, integrity, and accountability in all aspects of its operations. The college has a prescribed code of conduct for students, staff and administrators and organizes periodic programmes in this regard.

- 1) Integrity and Honesty:** All members of the KVSRSOCPS community are expected to act with honesty, transparency, and truthfulness in all interactions, both within the college and with external stakeholders.
- 2) Respect and Dignity:** KVSRSOCPS values diversity and inclusivity. All individuals are expected to treat one another with respect, fairness, and dignity, regardless of gender, religion, nationality, or other characteristics.
- 3) Academic Integrity:** KVSRSOCPS is committed to promoting a culture of academic honesty. Plagiarism, cheating, and other forms of academic dishonesty will not be tolerated.
- 4) Conflicts of Interest:** Any situation that may compromise or appear to compromise the objectivity or fairness of a decision or action should be disclosed promptly. If any member of the KVSRSOCPS community believes that an ethical violation has occurred, they are encouraged to report it through the appropriate channels. The college will take all reports seriously and will conduct a thorough investigation.
- 5) Code of Conduct for students:** Students must follow the General Rules. Violation of any of the following rules and regulations specified will lead to disciplinary action taken by the authorities against the concerned student.
 - Students must reach the college every day at 9:20 am and on Saturday 8:20 am i.e., the time for stroke of the first bell and sit only in the respective classroom.

- They must stay in the campus all through the working hours. Students should not gather or loiter unnecessarily in the corridors.
- The college campus is to be kept clean and the garbage bins have to be used for waste disposal.
- Students should attend the college only in the uniform on all working days except on Friday. They has to wear the ID card always, while in the campus.
- Student's behaviour towards the teachers, non-teaching staff and other students should be decent and humble. Arrogant attitude or rude behaviour shown towards any would be considered condemnable and punishable as well.
- They must use of all resources optimally on the campus, be regular in attending the classes and attentive in the classroom.
- In case of any problem they must contact the respective HOD or student counselor.
- Use of mobile phone/tablet/similar electronic gadget is strictly restricted inside the classroom/examination hall, library, laboratories and corridors. Violation of this rule may be followed by a penalty.
- Ragging, in any of its forms, is strictly prohibited inside and outside the college premises. Strict action (even rustication) would be taken against anyone found guilty in this matter (UGC Regulation 2009).
- They should not tease the girl students. They should not misbehave with anyone in the campus. Non-compliance invites strict legal action.
- They should not utter any unparliamentarily word in the campus.



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I /IV B. Pharmacy ACADEMIC CALENDAR 2024-25 (Y24 Batch)

Particulars/ Details	I YEAR / I SEMESTER	I YEAR / II SEMESTER
Induction	12.12.2024 to 15.12.2024	05.05.2025 to 07.05.2025
Class work Commencement(1st spell of instructions)	16.12.2024	07.05.2025
Capacity identification test	30.12.2024	17.05.2025
Closure of Instructions	19.04.2025	06.09.2025
Total number of workingdays	102	102
I Internal Examinations	13.02.2025 to 19.02.2025	30.06.2025 to 05.07.2025
II spell of instructions	21.02.2025	07.07.2025
Last date for submission of 1 st sessional marks statement by the faculty	25.02.2025	09.07.2025
Parents meeting	26.02.2025	10.07.2025
Group discussion /Quiz	17.03.2025 to 18.03.025	11.08.2025 to 12.08.2025
Last date for assignment submission	07.04.2025	25.08.2025
II Internal Examinations	14.04.2025 to 19.04.2025	01.09.2025 to 06.09.2025
Last date for submission of 2 nd sessional marks statement by the faculty	23.04.2025	10.09.2025
Parents meeting	24.04.2025	11.09.2025
Submission Attendance particulars to the Controller of Examinations	21.04.2025	09.09.2025
Payment of Examination fee	22.04.2025 to 24.04.2025	10.09.2025 to 12.09.2025
University TheoryExaminations	28.04.2025	15.09.2025
University PracticalExaminations	Immediately after theory Examinations	Immediately after theory Examinations
Commencement of Next semester	05.05.2025	22.09.2025



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DEEKSHARAMBH 2024 - 25

STUDENT INDUCTION PROGRAMME

PROGRAMME SCHEDULE

16th December to 18st December'2024

Day:1 Morning Session (16th December 2024)

S.No	Time	
1	10:00 AM To 11:30PM	Inauguration
2	11:30AM To 12:00 PM	HOD Interaction
3	12.00PM To 12:15PM	Introduction of First Year Faculty by Dr.Ch.Nagabhushanam
4	12;15PM To 12.45 PM	B.Pharm & Pharm.D Programme guidelines as per PCI
Lunch Break 12:50 to 02:00PM		

Day: 1 Afternoon Session

S. No	Time	Event: College Visit	Faculty
1	02:00PM To 05:00PM	Department of Pharmaceutics	Sri.P.Srinivasu
2		Department of Phar. Analysis	Smt.K.Jyothi
3		Department of Pharmaceutical Chemistry	Dr.T.Sarala Devi
4		Department of Pharmacology	Smt.O.Iswarya
5		Department of Pharmacognosy	Dr.P.Swetha
6		Department Physical Education	Sri.L.Vinay Sekhar
7		Library	Smt.A.Saileela

Day: 2 Morning Session (17th December 2024)

S.No.	Time	Event	Faculty
1	09:30AM	Anti-Ragging Committee	Prof.G.Ramanaiah
2	10:30AM	Attendance Committee	Prof.A.Bharathi
3	11:30AM	Mentor Mentee Group	Dr.K.Ravi Shankar
4	11:45AM	Women empowerment Cell	Dr.M.Vijaya Lakshmi
5	12:00PM	Grievance appeals	Sri.A.V.S. Ravi Sainadh
6	12:15PM	Student Council/ Student Hand Book Committee	Dr.N.KanakaDurga Devi
7	12:30PM	Sexual Harassment & Monitoring	Dr.T.Sarala Devi
8	12:20PM	Teaching Learning Process, Course Outcomes, Program Outcomes	Dr.Sk.Arifa Begum
Lunch Break 12:50 to 02:00PM			

Day: 2 Afternoon Session (17th December 2024)

S.No.	Time	Event	Faculty
1	02:00PM	Disciplinary Committee	Dr.T.P. Rao
2	02:30PM	Alumni Committee	Dr.B.Anupama
3	03:00PM	Cultural Committee	Ms.T.Sarada Mrunalini
4	04:00PM	Visit to Library & SPIIC	Dr.V.Narendra

Day: 3 Morning Session (18th December 2024)

S.No.	Time	Event	Faculty
1	09:30AM	Yoga	Sri.D.RaviKiran
2	10:00AM	Self Defense	Sri J.Vijaya Kumar
3	11:00AM	Universal Human Values	Smt.O.Iswarya
	11:30AM	Institute's Innovation Council	Dr.T.P.Rao
4	12:00PM	Placement Cell	Dr.Ch.Nagabhushanam

Day:3 Afternoon Session (18th December 2024)

S.No.	Time	Event	Faculty
1.	02:00PM	IQAC	Dr.G.Vijaya Kumar
2.	02:30PM	Indoor Sports Competitions • Caroms • Chess • Table Tennis	Sri.L.Vinay Sekhar



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Academic Rules & Regulations for B.Pharmacy Programme

(As Approved by the Academic Council of

KVSR Siddhartha College of Pharmaceutical Sciences)

(Applicable to the students admitted into the First year B.Pharmacy from the
Academic year 2024-2025 onwards)

Preamble: KVSR Siddhartha College of Pharmaceutical Sciences has been taking several initiatives towards academic excellence, quality improvement and administrative reforms. Keeping in view of this priority in addition with vision and mission of the institute, the process has been already initiated and achieved. The institution is approved by Pharmacy Council of India (PCI), Andhra Pradesh State Council for Higher Education (APSCHE), accredited by National Assessment and Accreditation Council (NAAC), recognized by University Grants Commission (UGC) The college has now taken one more step ahead to implement Credit Based Semester System (CBSS) from academic year 2024-2025 onwards for B.Pharmacy programme.

Title: The academic rules and regulations shall be called "**Credit Based Semester System (CBSS)**" applicable to B. Pharmacy programme of KVSR Siddhartha College of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh, India.

Scope, Application and Commencement: The academic regulations provided here in shall be applicable to 04. Pharmacy (regular and lateral entry) programmes of KVSR Siddhartha College of Pharmaceutical Sciences. The regulations include definitions of key terms, critical concepts, method of calculations, committees and the evaluation system. These regulations shall come into force with effect from the admissions commencing from 2024-2025 onwards.

Rationale for introduction of Credit based semester system:

- The Ministry of Human Resource Development (MHRD) of central and state governments has emphasized on the need for universities/ colleges to adopt measures to improve the quality of education.
- The need for enhanced learning opportunities, ability to match

DEFINITIONS:

Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year.

Credit Based Semester System (CBSS): Credit based semester system is a flexible system of learning that permits students to select from the prescribed elective courses.

Programme: 'Programme' means a set of the required number of semesters leading to the award of B.Pharmacy degree.

Course: Usually referred to, as "papers" is a component of a programme. All courses need not carry the same weight age. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ industrial training/viva-voce/ seminars/ group discussion/ soft skills/ technical skills/ entrepreneurship /assignments/ presentations etc., or a combination of some of these to meet the objectives/outcomes.

Semester: 'Semester' means a term consisting of a minimum of 630 contact periods distributed over 90 working days spread over 15 weeks of six-day duration each and seven contact periods with 50 minutes duration. Depending upon its duration, each academic year will be divided into two semesters. Semesters will be known as either odd Semester or even semester. The Semester from July to November will be semesters I or III, V or VII and similarly the semester from December to April will be semesters II or IV, VI or VIII.

Credit Based Semester System (CBSS): Under the CBSS, the requirement for awarding a degree is prescribed in terms of number of credits to be completed by the students.

Credits: Credit is a kind of weightage given based on marks weightage which is in a unit form. One credit is equivalent to 25 marks of weightage.

Credit point (P): Credit point is the value obtained by multiplying the grade point (G) by the credit (C): $P = G \times C$.

Grade point (G): Grade point is an integer indicating the numerical equivalent of the letter grade.

Semester Grade Point Average (SGPA): Semester Grade Point Average (SGPA) is the value obtained by dividing the sum of credit points earned by a student in various courses taken together in a semester by the total number of credits earned by the student in that semester. SGPA shall be rounded off to two decimal places. SGPA indicates the comprehensive academic performance of a student in a semester.

Cumulative Grade Point Average (CGPA): Cumulative Grade Point Average (CGPA) is the value obtained by dividing the sum of credit points in all the courses earned by a student for the entire programme, by the total number of credits. CGPA shall be rounded off to two decimal places. CGPA indicates the comprehensive academic performance of a student in a programme.

Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters O, A, B, C, D, E, F and AB.

Transcript or Grade Card or Certificate: Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with GPA of that semester and CGPA earned till that semester.

CHAPTER- I: REGULATIONS

1. Short Title and Commencement

These regulations shall be called as “The Revised Regulations for the B. Pharm. Degree Program (CBCS) of the Pharmacy Council of India, New Delhi”. They shall come into effect from the Academic Year 2016-17. The regulations framed are subject to modifications from time to time by Pharmacy Council of India.

2. Minimum qualification for admission

2.1 First year B. Pharm:

Candidate shall have passed 10+2 examination conducted by the respective state/ central government authorities recognized as equivalent to 10+2 examination by the Association of Indian Universities (AIU) with English as one of the subjects and Physics, Chemistry, Mathematics (P.C.M) and or Biology (P.C.B /P.C.M.B.) as optional subjects individually. Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

2.2. B. Pharm lateral entry (to third semester):

A pass in D. Pharm. course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

3. Duration of the program

The course of study for B.Pharm shall extend over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students. The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and /or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

7.2. Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 208. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Project over the duration of eight semesters. The credits are distributed semester-wise as shown in Table IX. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus. The lateral entry students shall get 52 credit points transferred from their D. Pharm program. Such students shall take up additional remedial courses of 'Communication Skills' (Theory and Practical) and 'Computer Applications in Pharmacy' (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of I and II semesters.

8. Academic work

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.

9. Course of study The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table – I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table – I to VIII.

Table-I: Course of Study for Semester I

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP101T	Human Anatomy and Physiology I	3	1	4
BP102T	Pharmaceutical Analysis I	3	1	4
BP103T	Pharmaceutical –I	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry	3	1	4
BP105T	Communication skills *	2	-	2
BP106RBT BP106RMT	Remedial Biology* Remedial mathematics	2	-	2
BP107P	Human Anatomy and Physiology I	4	-	2
BP108P	Pharmaceutical Analysis I	4	-	2
BP109P	Pharmaceutical –I	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry	4	-	2
BP111P	Communication skills*	2	-	1
BP112RBP	Remedial Biology *	2	-	1
	TOTAL	32/34\$/36#	4	27/29\$/30#

#Applicable ONLY for the students who have studied Mathematics/Physics/Chemistry at HSC and appearing for Remedial Biology (RB) Course.

\$Applicable ONLY for the students who have studied Physics/Chemistry/Botany/Zoology at HSC and appearing Remedial Mathematics (RM) course.

*Non University Examination (NUE).

Table-II: Course of Study for Semester II

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II	3	1	4
BP202T	Pharmaceutical Organic Chemistry I	3	1	4
BP203T	Biochemistry	3	1	4
BP204T	Pathophysiology	3	1	4
BP205T	Computer Applications in Pharmacy*	3	-	3
BP206T	Environmental Sciences*	3	-	3
BP207P	Human Anatomy and Physiology II	4	-	2
BP208P	Pharmaceutical Organic Chemistry I	4	-	2
BP209P	Biochemistry	4	-	2
BP210P	Computer Applications in Pharmacy*	2	-	1
	TOTAL	32	4	29

*Non University Examination (NUE).

Table-III: Course of Study for Semester III

Course Code	Name of the Course	No. of Hours	Tutorials	Credits
BP301T	Pharmaceutical Organic Chemistry-II	3	1	4
BP302T	Physical Pharmaceutics I	3	1	4
BP303T	Pharmaceutical Microbiology	3	1	4
BP304T	Pharmaceutical Engineering	3	1	4
BP305P	Pharmaceutical Organic Chemistry-II	4	-	2
BP306P	Physical Pharmaceutics I	4	-	2
BP307P	Pharmaceutical Microbiology	4	-	2
BP308P	Pharmaceutical Engineering	4	-	2
	Total	28	4	24

Table-IV: Course of Study for Semester IV

Course Code	Name of the Course	No. of Hours	Tutorials	Credits
BP401T	Pharmaceutical Organic Chemistry III	3	1	4
BP402T	Medicinal Chemistry I	3	1	4
BP403T	Physical Pharmaceutics II	3	1	4
BP404T	Pharmacology I	3	1	4
BP405T	Pharmacognosy and Phytochemistry I	3	1	4
BP406P	Medicinal Chemistry I	4	-	2
BP407P	Physical Pharmaceutics II	4	-	2
BP408P	Pharmacology I	4	-	2
BP409P	Pharmacognosy and Phytochemistry I	4	-	2
	Total	31	5	28

Table-V: Course of Study for Semester V

Course Code	Name of the Course	No. of Hours	Tutorials	Credits
BP501T	Medicinal Chemistry II – Theory	3	1	4
BP502T	Industrial Pharmacy I– Theory	3	1	4
BP503T	Pharmacology II – Theory	3	1	4
BP504T	Pharmacognosy and Phytochemistry II–Theory	3	1	4
BP505T	Pharmaceutical Jurisprudence – Theory	3	1	4
BP506P	Industrial Pharmacy I – Practical	4	-	2
BP507P	Pharmacology II – Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	4	-	2
	Total	27	5	26

Table-VI: Course of Study for Semester VI

Course Code	Name of the Course	No. of Hours	Tutorials	Credits
BP601T	Medicinal Chemistry III – Theory	3	1	4
BP602T	Pharmacology III – Theory	3	1	4
BP603T	Herbal Drug Technology – Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	3	1	4
BP605T	Pharmaceutical Biotechnology – Theory	3	1	4
BP606T	Quality Assurance –Theory	3	1	4
BP607P	Medicinal chemistry III – Practical	4	-	2
BP608P	Pharmacology III – Practical	4	-	2
BP609P	Herbal Drug Technology – Practical	4	-	2
	Total	30	6	30

Table-VII: Course of Study for Semester VII

Course Code	Name of the Course	No. of Hours	Tutorials	Credits
BP701T	Instrumental Methods of Analysis – Theory	3	1	4
BP702T	Industrial Pharmacy II – Theory	3	1	4
BP703T	Pharmacy Practice – Theory	3	1	4
BP704T	Novel Drug Delivery System – Theory	3	1	4
BP705P	Instrumental Methods of Analysis – Practical	4	-	2
BP706PS	Practice School *	12	-	6
	Total	28	4	24

* Non University Examination (NUE)

Table-VIII: Course of Study for Semester VIII

Course Code	Name of the Course	No. of Hours	Tutorials	Credits
BP801T	Biostatistics and Research Methodology	3	1	4
BP802T	Social and Preventive Pharmacy	3	1	4
BP803ET	Pharma Marketing Management	3+3=6	1+1=2	4+4=8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Pharmacological Screening Methods			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
	Total	24	4	22

Table-IX: Semester Wise Credits Distribution

Semester	Credit Points
I	27/29 ^{\$} / 30 [#]
II	29
III	26
IV	28
V	26
VI	36
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	209/216 ^{\$} / 217 [#]

* The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

^{\$}Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

[#]Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.

10. Program Committee

1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.

2. The composition of the Program Committee shall be as follows:

A senior teacher shall be the Chairperson; One Teacher from each department handling B.Pharm courses; and four student representatives of the program (one from each academic year), nominated by the Head of the institution.

3. Duties of the Program Committee:

- Periodically reviewing the progress of the classes.
- Discussing the problems concerning curriculum, syllabus and the conduct of classes.
- Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
- Communicating its recommendation to the Head of the institution on academic matters.
- The Program Committee shall meet at least thrice in a semester preferably at the end of each Sessional exam (Internal Assessment) and before the end semester exam.

11. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – X.

11.1. End semester examinations

The End Semester Examinations for each theory and practical course through semesters I to VIII shall be conducted by the university except for the subjects with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

Semester I								
Course Code	Name of the Course	Internal Assessment				End Sem. Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP101T	Human Anatomy and Physiology I – Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP102T	Pharmaceutical Analysis I-Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP103T	Pharmaceutics-Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP104T	Pharmaceutical Inorganic Chemistry-Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP105T	Communication skills-Theory	5	10	1 Hrs.	15	35	1.5 Hrs.	50
BP106T	Remedial Biology/Mathematics – Theory	5	10	1 Hrs.	15	35	1.5 Hrs.	50
BP107P	Human Anatomy and Physiology I – Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
BP108P	Pharmaceutical Analysis I-Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
BP109P	Pharmaceutics-Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
BP110P	Pharmaceutical Inorganic Chemistry-Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
BP111P	Communication skills-Practical	5	5	2 Hrs.	10	15	2 Hrs.	25
BP112P	Remedial Biology - Practical	5	5	2 Hrs.	10	15	2 Hrs.	25
	Total	70/75 ^{\$} /80 [#]	115/125 ^{\$} /130 [#]	23/24 ^{\$} /26 [#]	185/220 ^{\$} /230 [#]	490/505 ^{\$} /520 [#]	31.5/33 ^{\$} /35 [#]	675/725 ^{\$} /750 [#]

[#]Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.

^{\$}Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics

Semester II								
Course Code	Name of the Course	Internal Assessment				End Sem. Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP203T	Biochemistry – Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP204T	Pathophysiology – Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP205T	Computer Applications in Pharmacy –I Theory*	10	15	1 Hrs.	25	50	2 Hrs.	75
BP206T	Environmental sciences – Theory*	10	15	1 Hrs.	25	50	2 Hrs.	75
BP207P	Human Anatomy and Physiology II –Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
BP208P	Pharmaceutical Organic Chemistry I– Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
BP209P	Biochemistry – Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
BP210P	Computer Applications in Pharmacy – I Practical*	5	5	2 Hrs.	10	15	2 Hrs.	25
	Total	80	125	20 Hrs.	205	520	30 Hrs.	725

***Non University Examination**

Semester III								
Course Code	Name of the Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP301T	Pharmaceutical Organic Chemistry-II	10	15	1 Hrs.	25	75	3 Hrs.	100
BP302T	Physical Pharmaceutics I	10	15	1 Hrs.	25	75	3 Hrs.	100
BP303T	Pharmaceutical Microbiology	10	15	1 Hrs.	25	75	3 Hrs.	100
BP304T	Pharmaceutical Engineering	10	15	1 Hrs.	25	75	3 Hrs.	100
BP305P	Pharmaceutical Organic Chemistry-II	5	10	4 Hrs.	15	35	4 Hrs.	50
BP306P	Physical Pharmaceutics I	5	10	4 Hrs.	15	35	4 Hrs.	50
BP307P	Pharmaceutical Microbiology	5	10	4 Hrs.	15	35	4 Hrs.	50
BP308P	Pharmaceutical Engineering	5	10	4 Hrs.	15	35	4 Hrs.	50
	Total	60	100	20	160	440	28Hrs.	600

Semester IV

Course Code	Name of the Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Durations				
BP401T	Pharmaceutical Organic Chemistry III	10	15	1 Hrs.	25	75	3 Hrs.	100
BP402T	Medicinal Chemistry I	10	15	1 Hrs.	25	75	3 Hrs.	100
BP403T	Physical Pharmaceutics II	10	15	1 Hrs.	25	75	3 Hrs.	100
BP404T	Pharmacology I	10	15	1 Hrs.	25	75	3 Hrs.	100
BP405T	Pharmacognosy and Phytochemistry I	10	15	1 Hrs.	25	75	3 Hrs.	100
BP406P	Medicinal Chemistry I	5	10	4 Hrs.	15	35	4 Hrs.	50
BP407P	Physical Pharmaceutics II	5	10	4 Hrs.	15	35	4 Hrs.	50
BP408P	Pharmacology I	5	10	4 Hrs.	15	35	4 Hrs.	50
BP409P	Pharmacognosy and Phytochemistry I	5	10	4 Hrs.	15	35	4 Hrs.	50
	Total	70	115	21 Hrs.	185	515	31 Hrs.	700

Semester V

Semester V								
Course Code	Name of the Course	Internal Assessment				End Semester Exams		Total Marks
		Contin uous Mode	Sessional Exams		Total	Mark s	Duration	
			Marks	Duration				
BP501T	Medicinal Chemistry II – Theory	10	20	2 Hrs.	30	70	3 Hrs.	100
BP502T	Industrial Pharmacy I– Theory	10	20	2 Hrs.	30	70	3 Hrs.	100
BP503T	Pharmacology II – Theory	10	20	2 Hrs	30	70	3 Hrs	100
BP504T	Pharmacognosy and Phytochemistry II– Theory	10	20	2 Hrs	30	70	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence –Theory	10	20	2 Hrs	30	70	3 Hrs	100
BP506P	Industrial Pharmacy I– Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP507P	Pharmacology II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP508P	Pharmacognosy and Phytochemistry II – Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
	Total	65	130	22 Hrs.	195	455	27 Hrs.	650

Semester VI

Course Code	Name of the Course	Internal Assessment				End Semester Exams		Total Marks
		Continuo us Mode	Sessional Exams		Total	Marks	Duratio n	
			Marks	Duration				
BP601T	Medicinal Chemistry III – Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP602T	Pharmacology III – Theory	10	15	1 Hrs.	25	75	3 Hrs.	100
BP603T	Herbal Drug Technology – Theory	10	15	1 Hrs	25	75	3 Hrs.	100
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	10	15	1 Hrs	25	75	3 Hrs.	100
BP605T	Pharmaceutical Biotechnology– Theory	10	15	1 Hrs	25	75	3 Hrs.	100
BP606T	Quality Assurance– Theory	10	15	1 Hrs	25	75	3 Hrs.	100
BP607P	Medicinal chemistry III – Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
BP608P	Pharmacology III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP609P	Herbal Drug Technology – Practical	5	10	4 Hrs.	15	35	4 Hrs.	50
	Total	75	120	18 Hrs.	195	555	30 Hrs.	750

Semester VII

Course Code	Name of the Course	Internal Assessment				End Semester Exams		Total Marks
		Continuo us Mode	Sessional Exams		Total	Marks	Duratio n	
			Mark s	Duration				
BP701T	Instrumental Methods of Analysis– Theory	10	20	1 Hrs.	25	75	3 Hrs.	100
BP702T	Industrial Pharmacy – Theory	10	20	1 Hrs.	25	75	3 Hrs.	100
BP703T	Pharmacy Practice – Theory	10	20	1 Hrs	25	75	3 Hrs.	100
BP704T	Novel Drug Delivery System – Theory	10	20	1 Hrs	25	75	3 Hrs.	100
BP705 P	Instrumental Methods of Analysis– Practical	5	10	4 Hrs	15	35	4 Hrs.	50
BP706 PS	Practice School- III*	25	-	-	25	125	5 Hrs.	150
	Total	70	70	8 Hrs.	140	460	21 Hrs.	600

Semester VIII								
Course Code	Name of the Course	Internal Assessment				End Semester Exams		Total Marks
		Continu- ous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP801T	Biostatistics and Research Methodology – Theory	10	15	1Hrs.	25	75	3Hrs.	100
BP802T	Social and Preventive Pharmacy– Theory	10	15	1Hrs.	25	75	3Hrs.	100
BP803ET	Pharmaceutical Marketing – Theory	10 +10 = 20	15 +15 = 30	1 + 1 = 2Hrs.	25 +25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs.	100 +100 = 200
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardization of Herbals – Theory							
BP807ET	Computer Aided Drug Design – Theory							
BP808ET	Cell and Molecular Biology – Theory							
BP809ET	Cosmetic Science -Theory							
BP810ET	Pharmacological Screening Methods– Theory							
BP811ET	Advanced Instrumentation techniques - Theory							
BP812ET	Dietary Supplements and Nutraceuticals							
BP813PW	Project Work					150	4 Hrs.	150
	Total	40	60	4 Hrs.	100	450	16 Hrs.	550

Internal Assessment: Continuous Mode.

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below:

Table-XI: Scheme for Awarding Internal Assessment: Continuous Mode

Theory		
Criteria	Maximum marks	
Attendance (Refer Table – XII)	4	2
Academic activities(Average of any three activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student - Teacher interaction	3	1.5
Total	10	5
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical records, Regular Viva-Voce etc	3	
Total	5	

Table- XII: Guidelines for the Allotment of Marks for Attendance

Percentage of Attendance	Theory	Practical
95-100	4	2
90-94	3	1.5
85-89	2	1
80-84	1	0.5
Less than 80	0	0

11.2.1 Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 35 marks and shall be computed for 10 marks.

Question Paper Pattern for Theory Sessional Examinations

Duration: 1 Hours

Multiple Choice Questions (MCQs)

(Answer all the questions)

= 10x 1 M = 10

I. Short Answers (Answer all the questions)

= 2 x 5 M = 10

II. Long Answers (Answer 1 out of 2)

= 1 x 10 M = 10

Total**= 30 Marks****Non University Examination**

I. Short Answers (Answer all the questions)

= 5 x 2 M = 10

II. Long Answers (Answer 4 out of 5)

= 4 x 5 M = 20

Total = 30 Marks

Question Paper Pattern for Practical Sessional Examination

- | | |
|-----------------|------|
| I. Synopsis | = 10 |
| II. Experiments | = 25 |
| III. Viva voce | = 05 |

Total = 40 Marks

12. Promotion and Award of Grades

A student shall be declared PASS and eligible for getting grade in a course of B. Pharm. program if he/she secures at least an aggregate of 50% marks (internal assessment + end semester examination) in that particular course including internal assessment. For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.

13. Carry Forward of Marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

14. Improvement of Internal Assessment

A student shall have the opportunity to improve he / her performance only once in the Sessional exam component of the internal assessment. The re conduct of the Sessional exam shall be completed before the commencement of next end semester theory examination.

15. Re-examination of end Semester (Supplementary) Examinations

Re-examination of end semester examination shall be conducted as per the schedule given in table XIII. The Exact date of the examination shall be notified from time to time.

Table-XIII: Tentative Schedule of End Semester Examinations

Semester	For Regular Candidates	For Failed Candidates
I,III, V and VII	November/December	May/June
II,IV,VI and VIII	May/June	November/December

Question Paper Pattern for End-Semester Theory Examinations for 75 Marks Paper

- | | |
|---------------------------------------|-----------------|
| I. Multiple Choice Questions(MCQs) | |
| (Answer all the questions) | = 20 x 1 M = 20 |
| II. Short Answers (Answer 7 out of 9) | = 7 x 5 M = 35 |
| III. Long Answers (Answer 2 out of 3) | = 2 x 10 M = 20 |

Total = 75 marks

For 50 marks paper

I. Short Answers (Answer 6 out of 8)	= 6 x 5 M = 30
II. Long Answers (Answer 2 out of 3)	= 2 x 10 M = 20

Total	= 50 marks

For 35 marks paper

I. Short Answers (Answer 5 out of 7)	= 5 x 5 M = 25
II. Long Answers (Answer 1 out of 2)	= 1 x 10 M = 10

Total	= 35 marks

Question Paper Pattern for End Semester Practical Examinations

I. Synopsis	= 5 M
II. Experiments (Major 15+ Minor 10)	= 25 M
III. Viva voce	= 5 M

Total	= 35 marks

16. Academic Progression:

No student shall be admitted to any examination unless he/she fulfills the norms given in 6. Academic progression rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I, II and III semester till the IV Semester examination. However, he/she shall not be eligible to attend the course V Semester until all the courses of I and II semesters are successfully completed.

A student shall be eligible to carry forward all the courses of III, IV and V semester till the VI Semester examination. However, he/she shall not be eligible to attend the course VIII Semester until all the courses of I, II, III and IV semesters are successfully completed.

A student shall be eligible to carry forward all the courses of V, VI and VII semester till the VIII Semester examination. However, he/she shall not be eligible to attend the course VIII Semester until all the courses of I, II, III, IV, V and VI semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified in 26.

A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the course VII Semester until all the courses of III, IV are successfully completed.

A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.

A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in 26.

Any student who has given more than four chances for successful completion of I/III semester courses and more than three chances for successful completion II/IV semester courses shall be permitted to attend V/VII semester class ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.

Note: Grade AB should be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

17. Grading of performances

17. 1 Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – XIV.

Table – XIV: Letter Grades and Grade Points Equivalent to Percentage of Marks and Performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

18. The Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by a number called ‘Semester Grade Point Average’ (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student’s grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students’ SGPA is equal to:

$$\text{SGPA} = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester. For example if a learner has a F or ABS grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA} = \frac{\text{C1G1} + \text{C2G2} + \text{C3G3} + \text{C4* ZERO} + \text{C5G5}}{\text{C1} + \text{C2} + \text{C3} + \text{C4} + \text{C5}}$$

19. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\text{CGPA} = \frac{\text{C1S1} + \text{C2S2} + \text{C3S3} + \text{C4S4} + \text{C5S5} + \text{C6S6} + \text{C7S7} + \text{C8S8}}{\text{C1} + \text{C2} + \text{C3} + \text{C4} + \text{C5} + \text{C6} + \text{C7} + \text{C8}}$$

where C1, C2, C3,.... is the total number of credits for semester I,II,III,.... and S1,S2, S3,.... is the SGPA of semester I,II,III,.... .

20. Declaration of Class

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of. 7.50 and above
First Class	= CGPA of 6.00 to 7.49
Second Class	= CGPA of 5.00 to 5.99

21. Project Work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subjects opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of practical examination of other Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book:

Objective(s) of the work done	15 Marks
Methodology adopted	20 Marks
Results and Discussions	20 Marks
Conclusions and Outcomes	20 Marks

Total	75 Marks

Evaluation of Presentation:

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks

Total	75 Marks

Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

22. Industrial Training (Desirable)

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production UNIT, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing UNIT, Pharma-ceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc., after Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

23. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.

24. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B. Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the B. Pharm program in minimum prescribed number of years, (four years) for the award of Ranks.

25. Award of Degree

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

26. Duration for Completion of the Program of Study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

27. Re-admission after Break of Study

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condonation fee. No condonation is allowed for the candidate who has more than 2 years of break-up period and he/she has to rejoin the program by paying the required fees.

BP101T. HUMAN ANATOMY AND PHYSIOLOGY-I (Theory)

45 Hours

Scope: This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

Objectives: Upon completion of this course the student should be able to

1. Explain the gross morphology, structure and functions of various organs of the human body.
2. Describe the various homeostatic mechanisms and their imbalances.
3. Identify the various tissues and organs of different systems of human body.
4. Perform the various experiments related to special senses and nervous system.
5. Appreciate coordinated working pattern of different organs of each system

Course Content:

Unit I

10 hours

- **Introduction to human body**

Definition and scope of anatomy and physiology, levels of structural organization and body systems, basic life processes, homeostasis, basic anatomical terminology.

- **Cellular level of organization**

Structure and functions of cell, transport across cell membrane, cell division, cell junctions. General principles of cell communication, intracellular signaling pathway activation by extracellular signal molecule, Forms of intracellular signaling: a) Contact-dependent b) Paracrine c) Synaptic d) Endocrine

- **Tissue level of organization**

Classification of tissues, structure, location and functions of epithelial,

Unit II

10 hours

- **Integumentary system**

Structure and functions of skin

- **Skeletal system**

Divisions of skeletal system, types of bone, salient features and functions of bones of axial and appendicular skeletal system Organization of skeletal muscle, physiology of muscle contraction, neuromuscular junction

- **Joints**

Structural and functional classification, types of joints movements and its articulation

Unit III

10 hours

- **Body fluids and blood**

- Body fluids, composition and functions of blood, hemopoiesis, formation of hemoglobin, anemia, mechanisms of coagulation, blood grouping, Rh factors, transfusion, its significance and disorders of blood, Reticulo endothelial system.

- **Lymphatic system**

Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system

Unit IV

08 hours

Peripheral nervous system:

Classification of peripheral nervous system: Structure and functions of sympathetic and parasympathetic nervous system. Origin and functions of spinal and cranial nerves.

17. Special senses

Structure and functions of eye, ear, nose and tongue and their disorders.

18. Cardiovascular system

Heart – anatomy of heart, blood circulation, blood vessels, structure and functions of artery, vein and capillaries, elements of conduction system of heart and heart beat, its regulation by autonomic nervous system, cardiac output, cardiac cycle. Regulation of blood pressure, pulse, electrocardiogram and disorders of heart.

BP102T. PHARMACEUTICAL ANALYSIS (Theory)

45 Hours

Scope: This course deals with the fundamentals of analytical chemistry and principles of electrochemical analysis of drugs

Objectives: Upon completion of the course student shall be able to

- understand the principles of volumetric and electro chemical analysis
- carryout various volumetric and electrochemical titrations
- develop analytical skills

Course Content:

UNIT-I

10 Hours

(a) Pharmaceutical analysis- Definition and scope

i) Different techniques of analysis

ii) Methods of expressing concentration

iii) Primary and secondary standards.

iv) Preparation and standardization of various molar and normal solutions- Oxalic acid, sodium hydroxide, hydrochloric acid, sodium thiosulphate, sulphuric acid, potassium permanganate and ceric ammonium sulphate

(b)**Errors:** Sources of errors, types of errors, methods of minimizing errors, accuracy, precision and significant figures

(c) Pharmacopoeia, Sources of impurities in medicinal agents, limit tests.

UNIT-II

10 Hours

- **Acid base titration:** Theories of acid base indicators, classification of acid base titrations and theory involved in titrations of strong, weak, and very weak acids and bases, neutralization curves
- **Non aqueous titration:** Solvents, acidimetry and alkalimetry titration and estimation of Sodium benzoate and Ephedrine HCl

UNIT-III

09 Hours

- **Precipitation titrations:** Mohr's method, Volhard's, Modified Volhard's, Fajans method, estimation of sodium chloride.
- **Redox titrations**

(a) Concepts of oxidation and reduction

(b) Types of redox titrations (Principles and applications) Cerimetry, Iodimetry, Iodometry, Bromatometry, Dichrometry, Titration with potassium iodate

UNIT-IV

09 Hours

- **Complexometric titration:** Classification, metal ion indicators, masking and demasking reagents, estimation of Magnesium sulphate, and calcium gluconate.
- **Gravimetry:** Principle and steps involved in gravimetric analysis. Purity of the precipitate: co-precipitation and post precipitation, Estimation of barium sulphate
- Basic Principles, methods and application of diazotisation titration.
- Karl Fischer titration for the determination of water content

UNIT-V

07 Hours

Electrochemical methods of analysis

- **Conductometry-** Introduction, Conductivity cell, Conductometric titrations, applications.
- **Potentiometry** - Electrochemical cell, construction and working of reference (Standard hydrogen, silver chloride electrode and calomel electrode) and indicator electrodes (metal electrodes and glass electrode), methods to determine end point of potentiometric titration and applications.
- **Polarography** - Principle, Ilkovic equation, construction and working of dropping mercury electrode and rotating platinum electrode, applications

BP103T. PHARMACEUTICS- I (Theory)

45 Hours

Scope: This course is designed to impart a fundamental knowledge on the preparatory pharmacy with arts and science of preparing the different conventional dosage forms.

Objectives: Upon completion of this course the student should be able to:

- Know the history of profession of pharmacy
- Understand the basics of different dosage forms, pharmaceutical incompatibilities and pharmaceutical calculations □ Understand the professional way of handling the prescription
- Preparation of various conventional dosage forms

Course Content:

UNIT – I

10 Hours

- **Historical background and development of profession of pharmacy:** History of profession of Pharmacy in India in relation to pharmacy education, industry and organization, Pharmacy as a career, Pharmacopoeias: Introduction to IP, BP, USP and Extra Pharmacopoeia.
- **Dosage forms:** Introduction to dosage forms, classification and definitions
- **Prescription:** Definition, Parts of prescription, handling of Prescription and Errors in prescription.
- **Posology:** Definition, Factors affecting posology. Pediatric dose calculations based on age, body weight and body surface area.

UNIT – II

10 Hours

- **Pharmaceutical calculations:** Weights and measures – Imperial & Metric system, Calculations involving percentage solutions, alligation, proof spirit and isotonic solutions based on freezing point and molecular weight.
- **Powders:** Definition, classification, advantages and disadvantages, Simple & compound powders – official preparations, dusting powders, effervescent, efflorescent and hygroscopic powders, eutectic mixtures. Geometric dilutions.
- **Liquid dosage forms:** Advantages and disadvantages of liquid dosage forms. Excipients used in formulation of liquid dosage forms. Solubility enhancement techniques.

UNIT – III

08 Hours

- **Monophasic liquids:** Definitions and preparations of Gargles, Mouthwashes, Throat Paint, Eardrops, Nasal drops, Enemas, Syrups, Elixirs, Liniments and Lotions.
- **Biphasic liquids:**
- **Suspensions:** Definition, advantages and disadvantages, classifications, Preparation of suspensions; Flocculated and Deflocculated suspension & stability problems and methods to overcome.
- **Emulsions:** Definition, classification, emulsifying agent, test for the identification of type of Emulsion, Methods of preparation & stability problems and methods to overcome.

UNIT – IV

08 Hours

- **Suppositories:** Definition, types, advantages and disadvantages, types of bases, methods of preparations. Displacement value & its calculations, evaluation of suppositories.
- **Pharmaceutical incompatibilities:** Definition, classification, physical, chemical and therapeutic incompatibilities with examples.

UNIT – V

07 Hours

- **Semisolid dosage forms:** Definitions, classification, mechanisms and factors influencing dermal penetration of drugs. Preparation of ointments, pastes, creams and gels. Excipients used in semi solid dosage forms. Evaluation of semi solid dosages forms.

BP104T. PHARMACEUTICAL INORGANIC CHEMISTRY (Theory)

45 Hours

Scope: This subject deals with the monographs of inorganic drugs and pharmaceuticals.

Objectives: Upon completion of course student shall be able to

- know the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals
 - understand the medicinal and pharmaceutical importance of inorganic compounds
- Course Content:

UNIT I

10 Hours

- Impurities in pharmaceutical substances: History of Pharmacopoeia, Sources and types of impurities, principle involved in the limit test for Chloride, Sulphate, Iron, Arsenic, Lead and Heavy metals, modified limit test for Chloride and Sulphate
- General methods of preparation, assay for the compounds superscripted with asterisk (*), properties and medicinal uses of inorganic compounds belonging to the following classes

UNIT II

10 Hours

- **Acids, Bases and Buffers:** Buffer equations and buffer capacity in general, buffers in pharmaceutical systems, preparation, stability, buffered isotonic solutions, measurements of tonicity, calculations and methods of adjusting isotonicity.
- **Major extra and intracellular electrolytes:** Functions of major physiological ions, Electrolytes used in the replacement therapy: Sodium chloride*, Potassium chloride, Calcium gluconate* and Oral Rehydration Salt (ORS), Physiological acid base balance.
- **Dental products:** Dentifrices, role of fluoride in the treatment of dental caries, Desensitizing agents, Calcium carbonate, Sodium fluoride, and Zinc eugenol cement.

UNIT III

10 Hours

- Gastrointestinal agents

Acidifiers: Ammonium chloride* and Dil. HCl

Antacid: Ideal properties of antacids, combinations of antacids, Sodium Bicarbonate*, Aluminum hydroxide gel, Magnesium hydroxide mixture

Cathartics: Magnesium sulphate, Sodium orthophosphate, Kaolin and Bentonite

Antimicrobials: Mechanism, classification, Potassium permanganate, Boric acid, Hydrogen peroxide*, Chlorinated lime*, Iodine and its preparations

UNIT IV

08 Hours

- **Miscellaneous compounds**

Expectorants: Potassium iodide, Ammonium chloride*.

Emetics: Copper sulphate*, Sodium potassium tartarate

Haematinics: Ferrous sulphate*, Ferrous gluconate

Poison and Antidote: Sodium thiosulphate*, Activated charcoal, Sodium nitrite

Astringents: Zinc Sulphate, Potash Alum

UNIT V

07 Hours

- **Radiopharmaceuticals:** Radio activity, Measurement of radioactivity, Properties of α , β , γ radiations, Half life, radio isotopes and study of radio isotopes - Sodium iodide I^{131} , Storage conditions, precautions & pharmaceutical application of radioactive substances.

BP105T.COMMUNICATION SKILLS (Theory)

30 Hours

Scope: This course will prepare the young pharmacy student to interact effectively with doctors, nurses, dentists, physiotherapists and other health workers. At the end of this course the student will get the soft skills set to work cohesively with the team as a teamplayer and will add value to the pharmaceutical business.

Objectives:

Upon completion of the course the student shall be able to

1. Understand the behavioral needs for a Pharmacist to function effectively in the areas of pharmaceutical operation
2. Communicate effectively (Verbal and Non Verbal)
3. Effectively manage the team as a team player
4. Develop interview skills
5. Develop Leadership qualities and essentials

Course content:

UNIT – I

07 Hours

- **Communication Skills:** Introduction, Definition, The Importance of Communication, The Communication Process – Source, Message, Encoding, Channel, Decoding, Receiver, Feedback, Context
- **Barriers to communication:** Physiological Barriers, Physical Barriers, Cultural Barriers, Language Barriers, Gender Barriers, Interpersonal Barriers, Psychological Barriers, Emotional barriers
- **Perspectives in Communication:** Introduction, Visual Perception, Language, Other factors affecting our perspective - Past Experiences, Prejudices, Feelings, Environment

UNIT – II

07 Hours

- **Elements of Communication:** Introduction, Face to Face Communication - Tone of Voice, Body Language (Non-verbal communication), Verbal Communication, Physical Communication
- **Communication Styles:** Introduction, The Communication Styles Matrix with example for each -Direct Communication Style, Spirited Communication Style, Systematic Communication Style, Considerate Communication Style

UNIT – III

07 Hours

- **Basic Listening Skills:** Introduction, Self-Awareness, Active Listening, Becoming anActive Listener, Listening in Difficult Situations.
- **Effective Written Communication:** Introduction, When and When Not to Use Written Communication - Complexity of the Topic, Amount of Discussion' Required, Shades of Meaning, Formal Communication.
- **Writing Effectively:** Subject Lines, Put the Main Point First, Know Your Audience, Organization of the Message.

UNIT – IV

05 Hours

- **Interview Skills:** Purpose of an interview, Do's and Dont's of an interview
- **Giving Presentations:** Dealing with Fears, Planning your Presentation, Structuring Your Presentation, Delivering Your Presentation, Techniques of Delivery

UNIT – V

04 Hours

- **Group Discussion:** Introduction, Communication skills in group discussion, Do's and Dont's of group discussion.

BP106RBT.REMEDIAL BIOLOGY (Theory)

30 Hours

Scope: To learn and understand the components of living world, structure and functional system of plant and animal kingdom.

Objectives: Upon completion of the course, the student shall be able to

- know the classification and salient features of five kingdoms of life
- understand the basic components of anatomy & physiology of plant
- know understand the basic components of anatomy & physiology animal with special reference to human

UNIT I

07 Hours

Living world:

- Definition and characters of living organisms
- Diversity in the living world
- Binomial nomenclature
- Five kingdoms of life and basis of classification. Salient features of Monera, Protista, Fungi, Animalia and Plantae, Virus,

Morphology of Flowering plants

- Morphology of different parts of flowering plants – Root, stem, inflorescence, flower, leaf, fruit, seed.
- General Anatomy of Root, stem, leaf of monocotyledons & Dicotyledons.

UNIT II

07 Hours

Body fluids and circulation

- Composition of blood, blood groups, coagulation of blood
- Composition and functions of lymph
- Human circulatory system
- Structure of human heart and blood vessels
- Cardiac cycle, cardiac output and ECG

Digestion and Absorption

- Human alimentary canal and digestive glands
- Role of digestive enzymes
- Digestion, absorption and assimilation of digested food

Breathing and respiration

- Human respiratory system
- Mechanism of breathing and its regulation
- Exchange of gases, transport of gases and regulation of respiration
- Respiratory volumes

UNIT III

07 Hours

Excretory products and their elimination

- Modes of excretion
- Human excretory system- structure and function
- Urine formation
- Renin angiotensin system

Neural control and coordination

- Definition and classification of nervous system
- Structure of a neuron
- Generation and conduction of nerve impulse □ Structure of brain and spinal cord
- Functions of cerebrum, cerebellum, hypothalamus and medulla oblongata

Chemical coordination and regulation

- Endocrine glands and their secretions □ Functions of hormones secreted by endocrine glands
Human reproduction
- Parts of female reproductive system
- Parts of male reproductive system
- Spermatogenesis and Oogenesis
- Menstrual cycle

UNIT IV

05 Hours

Plants and mineral nutrition:

- Essential mineral, macro and micronutrients
- Nitrogen metabolism, Nitrogen cycle, biological nitrogen fixation Photosynthesis
- Autotrophic nutrition, photosynthesis, Photosynthetic pigments, Factors affecting photosynthesis.

UNIT V

04 Hours

Plant respiration:Respiration, glycolysis, fermentation (anaerobic).

Plant growth and development

- Phases and rate of plant growth, Condition of growth, Introduction to plant growth regulators

Cell - The unit of life

- Structure and functions of cell and cell organelles. Cell division

Tissues

- Definition, types of tissues, location and functions.

Text Books

- a. Text book of Biology by S. B. Gokhale
- b. A Text book of Biology by Dr. Thulajappa and Dr. Seetaram.

Reference Books

- a. A Text book of Biology by B.V. Sreenivasa Naidu
- b. A Text book of Biology by Naidu and Murthy
- c. Botany for Degree students By A.C.Dutta.
- d.Outlines of Zoology by M. Ekambaranatha ayyer and T. N. Ananthakrishnan.
- e. A manual for pharmaceutical biology practical by S.B. Gokhale and C. K. Kokate

BP106RMT.REMEDIAL MATHEMATICS (Theory)

30 Hours

Scope: This is an introductory course in mathematics. This subject deals with the introduction to Partial fraction, Logarithm, matrices and Determinant, Analytical geometry, Calculus, differential equation and Laplace transform.

Objectives: Upon completion of the course the student shall be able to:-

1. Know the theory and their application in Pharmacy
2. Solve the different types of problems by applying theory
3. Appreciate the important application of mathematics in Pharmacy

Course Content:

UNIT – I

06 Hours

- **Partial fraction**

Introduction, Polynomial, Rational fractions, Proper and Improper fractions, Partial fraction, Resolving into Partial fraction, Application of Partial Fraction in Chemical Kinetics and Pharmacokinetics

- **Logarithms**

Introduction, Definition, Theorems/Properties of logarithms, Common logarithms, Characteristic and Mantissa, worked examples, application of logarithm to solve pharmaceutical problems.

- **Function:**

Real Valued function, Classification of real valued functions,

- **Limits and continuity :**

Introduction, Limit of a function, Definition of limit of a function

$$\lim_{x \rightarrow a} \frac{x^n - a^n}{x - a} = na^{n-1}, \lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta} = 1,$$

UNIT –II

06 Hours

- **Matrices and Determinant:**

Introduction matrices, Types of matrices, Operation on matrices, Transpose of a matrix, Matrix Multiplication, Determinants, Properties of determinants , Product of determinants, Minors and co-Factors, Adjoint or adjugate of a square matrix , Singular and non-singular matrices, Inverse of a matrix, Solution of system of linear of equations using matrix method, Cramer's rule, Characteristic equation and roots of a square matrix, Cayley–Hamilton theorem, Application of Matrices in solving Pharmacokinetic equations

UNIT – III

06 Hours

- **Calculus**

Differentiation : Introductions, Derivative of a function, Derivative of a constant, Derivative of a product of a constant and a function , Derivative of the sum or difference of two functions, Derivative of the product of two functions (product formula), Derivative of the quotient of two functions (Quotient formula) – **Without Proof**, Derivative of x^n w.r.t.x, where n is any rational number, Derivative of e^x , Derivative of $\log_e x$, Derivative of a^x , Derivative of trigonometric functions from first principles (**without Proof**), Successive Differentiation, Conditions for a function to be a maximum or a minimum at a point. Application

UNIT – IV

06 Hours

- **Analytical Geometry**

Introduction: Signs of the Coordinates, Distance formula,

Straight Line : Slope or gradient of a straight line, Conditions for parallelism and perpendicularity of two lines, Slope of a line joining two points, Slope – intercept form of a straight line.

Integration: Introduction, Definition, Standard formulae, Rules of integration, Method of substitution, Method of Partial fractions, Integration by parts, definite integrals, application.

UNIT-V

06 Hours

- **Differential Equations :** Some basic definitions, Order and degree, Equations in separable form , Homogeneous equations, Linear Differential equations, Exact equations, Application in solving Pharmacokinetic equations
- **Laplace Transform :** Introduction, Definition, Properties of Laplace transform, Laplace Transforms of elementary functions, Inverse Laplace transforms, Laplace transform of derivatives, Application to solve Linear differential equations, **Application in solving Chemical kinetics and Pharmacokinetics equations**

Recommended Books (Latest Edition)

1. Differential Calculus by Shanthinarayan
2. Pharmaceutical Mathematics with application to Pharmacy by Panchaksharappa Gowda D.H.
3. Integral Calculus by Shanthinarayan
4. Higher Engineering Mathematics by Dr.B.S.Grewal

BP107P. HUMAN ANATOMY AND PHYSIOLOGY (Practical)

4 Hours/week

Practical physiology is complimentary to the theoretical discussions in physiology. Practicals allow the verification of physiological processes discussed in theory classes through experiments on living tissue, intact animals or normal human beings. This is helpful for developing an insight on the subject.

1. Study of compound microscope.
2. Microscopic study of epithelial and connective tissue
3. Microscopic study of muscular and nervous tissue
4. Identification of axial bones
5. Identification of appendicular bones
6. Introduction to hemocytometry.
7. Enumeration of white blood cell (WBC) count
8. Enumeration of total red blood corpuscles (RBC) count
9. Determination of bleeding time
10. Determination of clotting time
11. Estimation of hemoglobin content
12. Determination of blood group.
13. Determination of erythrocyte sedimentation rate (ESR)
14. Determination of heart rate and pulse rate.
15. Recording of blood pressure.

Recommended Books (Latest Editions)

1. Essentials of Medical Physiology by K. Sembulingam and P. Sembulingam. Jaypee brothers medical publishers, New Delhi.
2. Anatomy and Physiology in Health and Illness by Kathleen J.W. Wilson, Churchill Livingstone, New York
3. Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co, Riverview, MI USA
4. Text book of Medical Physiology- Arthur C, Guyton and John E. Hall. Miamisburg, OH, U.S.A.
5. Principles of Anatomy and Physiology by Tortora Grabowski. Palmetto, GA, U.S.A.
6. Textbook of Human Histology by Inderbir Singh, Jaypee brother's medical publishers, New Delhi.
7. Textbook of Practical Physiology by C.L. Ghai, Jaypee brother's medical publishers, New Delhi.
8. Practical workbook of Human Physiology by K. Srinageswari and Rajeev Sharma, Jaypee brother's medical publishers, New Delhi.

Reference Books (Latest Editions)

1. Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co, Riverview, MI USA
2. Text book of Medical Physiology- Arthur C, Guyton and John E. Hall. Miamisburg, OH, U.S.A.
3. Human Physiology (vol 1 and 2) by Dr. C.C. Chatterrje, Academic Publishers Kolkata

I. Limit Test of the following

- (1) Chloride
- (2) Sulphate
- (3) Iron
- (4) Arsenic

II. Preparation and standardization of

- (1) Sodium hydroxide
- (2) Sulphuric acid
- (3) Sodium thiosulfate
- (4) Potassium permanganate
- (5) Ceric ammonium sulphate

III. Assay of the following compounds along with Standardization of Titrant

- (1) Ammonium chloride by acid base titration
- (2) Ferrous sulphate by Cerimetry
- (3) Copper sulphate by Iodometry
- (4) Calcium gluconate by complexometry
- (5) Hydrogen peroxide by Permanganometry
- (6) Sodium benzoate by non-aqueous titration
- (7) Sodium Chloride by precipitation titration

IV. Determination of Normality by electro-analytical methods

- (1) Conductometric titration of strong acid against strong base
- (2) Conductometric titration of strong acid and weak acid against strong base
- (3) Potentiometric titration of strong acid against strong base

Recommended Books: (Latest Editions)

1. A.H. Beckett & J.B. Stenlake's, Practical Pharmaceutical Chemistry Vol I & II, Stahlone Press of University of London
2. A.I. Vogel, Text Book of Quantitative Inorganic analysis
3. P. Gundu Rao, Inorganic Pharmaceutical Chemistry
4. Bentley and Driver's Textbook of Pharmaceutical Chemistry
5. John H. Kennedy, Analytical chemistry principles
6. Indian Pharmacopoeia. (Recent edition).

1 . Syrups

- a) Syrup IP'66
- b) Compound syrup of Ferrous Phosphate BPC'68

2. Elixirs

- a) Piperazine citrate elixir
- b) Paracetamol pediatric elixir

3.Linctus

- a) Terpin Hydrate Linctus IP'66
- b) Iodine Throat Paint (Mandles Paint)

4. Solutions

- a) Strong solution of ammonium acetate
- b) Cresol with soap solution
- c) Lugol's solution

5. Suspensions

- a) Calamine lotion
- b) Magnesium Hydroxide mixture
- c) Aluminium Hydroxide gel

6. Emulsions

- a) Turpentine Liniment
- b) Liquid paraffin emulsion

7. Powders and Granules

- a) ORS powder (WHO)
- b) Effervescent granules
- c) Dusting powder
- d) Divided powders

8. Suppositories

- a) Glycero gelatin suppository
- b) Cocoa butter suppository
- c) Zinc Oxide suppository

9. Semisolids

- a) Sulphur ointment
- b) Non staining-iodine ointment with methyl salicylate
- c) Carbopal gel

10. Gargles and Mouthwashes

- a) Iodine gargle
 - b) Chlorhexidine mouthwash
- Recommended Books: (Latest Editions)

1. H.C. Ansel et al., Pharmaceutical Dosage Form and Drug Delivery System, Lippincott Williams and Walkins, New Delhi.
2. Carter S.J., Cooper and Gunn's-Dispensing for Pharmaceutical Students, CBS publishers, New Delhi.
3. M.E. Aulton, Pharmaceutics, The Science & Dosage Form Design, Churchill Livingstone, Edinburgh.
4. Indian pharmacopoeia.
5. British pharmacopoeia.
6. Lachmann. Theory and Practice of Industrial Pharmacy, Lea & Febiger Publisher, The

University of Michigan.

7. Alfonso R. Gennaro Remington. The Science and Practice of Pharmacy, Lippincott Williams, New Delhi.

8. Carter S.J., Cooper and Gunn's. Tutorial Pharmacy, CBS Publications, New Delhi.

9. E.A. Rawlins, Bentley's Text Book of Pharmaceutics, English Language Book Society, Elsevier Health Sciences, USA.

10. Isaac Ghebre Sellassie: Pharmaceutical Pelletization Technology, Marcel Dekker, INC, New York.

11. Dilip M. Parikh: Handbook of Pharmaceutical Granulation Technology, Marcel Dekker, INC, New York.

12. Francoise Nieloud and Gilberte Marti-Mestres: Pharmaceutical Emulsions and Suspensions, Marcel Dekker, INC, New York.

I. Limit tests for following ions

Limit test for Chlorides and Sulphates
Modified limit test for Chlorides and Sulphates
Limit test for Iron
Limit test for Heavy metals
Limit test for Lead
Limit test for Arsenic

II. Identification test

Magnesium hydroxide
Ferrous sulphate
Sodium bicarbonate
Calcium gluconate
Copper sulphate

III. Test for purity

Swelling power of Bentonite
Neutralizing capacity of aluminum hydroxide gel
Determination of potassium iodate and iodine in potassium Iodide

IV. Preparation of inorganic pharmaceuticals

Boric acid
Potash alum
Ferrous sulphate

Recommended Books (Latest Editions)

1. A.H. Beckett & J.B. Stenlake's, Practical Pharmaceutical Chemistry Vol I & II, Stahlone Press of University of London, 4th edition.
2. A.I. Vogel, Text Book of Quantitative Inorganic analysis
3. P. Gundu Rao, Inorganic Pharmaceutical Chemistry, 3rd Edition
4. M.L Schroff, Inorganic Pharmaceutical Chemistry
5. Bentley and Driver's Textbook of Pharmaceutical Chemistry
6. Anand & Chatwal, Inorganic Pharmaceutical Chemistry
7. Indian Pharmacopoeia

The following learning modules are to be conducted using words worth[®] English language lab software

Basic communication covering the following topics

Meeting People
Asking Questions
Making Friends
What did you do?
Do's and Dont's

Pronunciations covering the following topics

Pronunciation (Consonant Sounds)
Pronunciation and Nouns
Pronunciation (Vowel Sounds)

Advanced Learning

Listening Comprehension / Direct and Indirect Speech
Figures of Speech
Effective Communication
Writing Skills
Effective Writing
Interview Handling Skills
E-Mail etiquette
Presentation Skills

Recommended Books: (Latest Edition)

1. Basic communication skills for Technology, Andreja. J. Ruther Ford, 2nd Edition, Pearson Education, 2011
2. Communication skills, Sanjay Kumar, Pushpalata, 1st Edition, Oxford Press, 2011
3. Organizational Behaviour, Stephen .P. Robbins, 1st Edition, Pearson, 2013
4. Brilliant- Communication skills, Gill Hasson, 1st Edition, Pearson Life, 2011
5. The Ace of Soft Skills: Attitude, Communication and Etiquette for success, Gopala Swamy Ramesh, 5thEdition, Pearson, 2013
6. Developing your influencing skills, Deborah Dalley, Lois Burton, Margaret, Green hall, 1st Edition Universe of Learning LTD, 2010
7. Communication skills for professionals, Konar nira, 2nd Edition, New arrivals – PHI, 2011
8. Personality development and soft skills, Barun K Mitra, 1st Edition, Oxford Press, 2011
9. Soft skill for everyone, Butter Field, 1st Edition, Cengage Learning india pvt.ltd, 2011
10. Soft skills and professional communication, Francis Peters SJ, 1st Edition, Mc GrawHill Education, 2011
11. Effective communication, John Adair, 4th Edition, Pan Mac Millan,2009
12. Bringing out the best in people, Aubrey Daniels, 2ndEdition, Mc Graw Hill, 1999

1. Introduction to experiments in biology
 - a) Study of Microscope
 - b) Section cutting techniques
 - c) Mounting and staining
 - d) Permanent slide preparation
2. Study of cell and its inclusions
3. Study of Stem, Root, Leaf, seed, fruit, flower and their modifications
4. Detailed study of frog by using computer models
5. Microscopic study and identification of tissues pertinent to Stem, Root Leaf, seed, fruit and flower
6. Identification of bones
7. Determination of blood group
8. Determination of blood pressure
9. Determination of tidal volume

Reference Books

1. Practical human anatomy and physiology. by S.R.Kale and R.R.Kale.
2. A Manual of pharmaceutical biology practical by S.B.Gokhale, C.K.Kokate and S.P.Shriwastava.
3. Biology practical manual according to National core curriculum .Biology forum of Karnataka. Prof .M.J.H.Shafi



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Approved by AICTE, PCI, New Delhi, Govt. of Andhra Pradesh & Accredited by NAAC with 'A' Grade

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E-mail: kvsrsiddharthapharma@gmail.com

Web: www.kvsrsiddharthapharma.edu.in

B. Pharmacy Program Outcomes (POs)

Upon the completion of the program, the graduate is able to

PO 1	Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioural, social, and administrative pharmacy sciences; and manufacturing practices.
PO 2	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.
PO 3	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.
PO 4	Modern Tool Usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
PO 5	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 wellbeing.
PO 6	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).
PO 7	Pharmaceutical Ethics: Honour 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.
PO 8	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.
PO 9	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.
PO 10	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.
PO 11	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.

B. Pharmacy Program Specific Outcomes (PSOs)
Upon the completion of the program, a graduate is able to

S.No	Program Specific Outcomes (PSO)
PSO 1	Equip with theoretical knowledge in the fields of pharmaceutical sciences such as pharmaceutics, pharmaceutical chemistry, pharmacology, Pharmacognosy and biotechnology
PSO 2	Gain thorough knowledge on performing and implementing experimental skills on synthesis of compounds, formulation & analysis of drugs, screening of drugs, identification of microorganisms, diagnosis to different diseases and evaluation of crude drugs.
PSO 3	Evaluate statistical data and documentation of different practical aspects
PSO 4	Acquire communication skills, research & development activities and entrepreneurship skills

B. Pharmacy Program Educational Objectives (PEOs)

PEO 1	To encompass the students with profound knowledge in core subjects of pharmaceutical sciences as well as leadership skills in order to evolve as globally competent pharmacy professionals and develop innovative solutions in multidisciplinary domains.
PEO 2	To prepare the graduates with excellent practical attitude by the implementation of innovative teaching learning methodologies with visual aids / computer tools, handling of sophisticated equipment / instruments and their trouble shooting issues.
PEO 3	To ensure collaborative learning, knowledge sharing and knowledge transfer through their involvement in interdisciplinary research activities
PEO 4	To exhibit communication skills, team spirit, leadership qualities, effective project management skills, lifelong learning ability, professional ethics, empathy for the needs of society, environmental consciousness and human values in profession/career.
PEO 5	To pursue higher education, to progress professionally in pharmaceutical as well as health care industries/organizations and multidisciplinary fields with an inclination towards continuous learning



Kommareddy Venkata Sadasiva Rao Siddhartha College of Pharmaceutical Sciences

(AUTONOMOUS)

Pinnamaneni Polyclinic Road, Siddhartha Nagar, Vijayawada - 520010, AP, INDIA

(Sponsors : Siddhartha Academy of General & Technical Education)

ISO 14001:2015, ISO 50001:2018&ISO 21001:2018 CERTIFIED INSTITUTION

Approved by AICTE, PCI, New Delhi, Govt. of Andhra Pradesh & Accredited by NAAC with 'A' Grade

Affiliated to Krishna University, Machilipatnam & Recognized as 2(f) under UGC Act 1956

E-mail: kvsrsiddharthapharma@gmail.com

Web: www.kvsrsiddharthapharma.edu.in

1.	ANTI-RAGGING COMMITTEE
2.	ANTI-RAGGING SQUAD
3.	INTERNAL COMPLAINT COMMITTEE
4.	GPAT COMMITTEE
5.	SC/ST WELFARE COMMITTEE
6.	INSTITUTION-INDUSTRY CELL
7.	GRIEVANCE REDRESSAL COMMITTEE
8.	INTELLECTUAL PROPERTY RIGHTS CELL
9.	EXAMINATION COMMITTEE
10.	DISCIPLINARY COMMITTEE
11.	SEXUAL HARASSMENT MONITORING COMMITTEE
12.	ICT & AUTOMATION AND WEBSITE COMMITTEE
13.	STUDENT WELFARE AMENITIES COMMITTEE
14.	WOMEN EMPOWERMENT CELL
15.	HANDBOOK AND MAGAZINE COMMITTEE
16.	TRAINING & PLACEMENT COMMITTEE
17.	SPORTS & CULTURAL COMMITTEE
18.	NSS PROGRAMME COMMITTEE
19.	INDUSTRIAL RESEARCH AND CONSULTATION COMMITTEE
20.	ALUMNI COMMITTEE
21.	PUBLIC RELATION, PRESS & MEDIA COMMITTEE
22.	LIBRARY COMMITTEE
23.	E-CELL
24.	ATTENDANCE COMMITTEE
25.	TIME-TABLE COMMITTEE
26.	INTERNAL QUALITY ASSURANCE CELL
27.	ELECTORAL LITERACY CLUB
28.	PROJECT REVIEW COMMITTEE
29.	PROGRAM ASSESSMENT COMMITTEE (PAO)
30.	KAPILA TEAM
31.	MODERATION COMMITTEE
32.	ACADEMIC CALENDAR COMMITTEE
33.	SCHOLARSHIP AWARENESS COMMITTEE



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1. Anti-Ragging Committee

S.No.	Name of the member	Designation	Committee	Phone No.
1	Dr.A.Suneetha	Principal	Chairperson	9949185566
2.	Dr.RamanaiahGangireddy	Prof.&HoD	Co-ordinator	9848121188
3	Sri. K. Anil Kumar	Assistant Professor	Member	9440419934
4	Sri. S. VeerabhadraRao	Warden (Boys Hostel)	Member	7382732126
5	Smt. U. Susheela	Warden (Girls Hostel)	Member	9030534024
6	Sri.Ch.Prakash	Sub- Inspector of Police	Member	8317626066
7	Mrs.T. Sowjanya	Parent	Member	9164019649
8	Mr.SuraganiPranavSai	2 nd Year student	Member	9392784314
9	Ms. GolajapuJyothirmayee	2 nd Year student	Member	7981363782
10	Sri.G.SubbaRao	Senior Reporter	Member	6303353573
11	Smt. Vijayasree Gupta	PDC, NGO	Member	9885033567
12	Smt. A.PavaniKumari	Non-Teaching	Member	9866070299

2) Anti-Ragging Squad

S.No.	Name of the member	Designation	Email id
1	Dr. CH. Nagabhushanam	Assistant Professor	nagabhushanam_137@yahoo.co.in
2	Sri .K. Anil Kumar	Assistant Professor	kvsrkutumbalu@gmail.com
3	Sri. S. VeerabhadraRao	Warden(Boys Hostel)	kvsrsiddharthapharma@gmail.com
4	Smt. U. Susheela	Warden(Girls Hostel)	kvsrsiddharthapharma@gmail.com
5	Sri. L.VinayShekhar	Physical Director	kvsrsiddharthapharma@gmail.com

3) Internal Complaint Committee (ICC)

S.No.	Name of the member	Committee	Phone No.
1.	Dr. V. Karunasree	Chair person	9866901088
2.	Dr. M. Vijaya Lakshmi	Member	8501011122
3.	Dr. Ch. Nagabhusanam	Member	9951067030
4.	Mrs. M. Srilakshmi	Member	9247898900
5.	Mrs. P. V. Krishnaveni	Member	8331921420
6.	Ms. KonagalaArudra	Student	9346239427
7.	Ms. SohithaMulupuri	Student	8985890011
8.	Mr. Mohammad SalarAhamad	Student	9248760642

4) GPAT Committee

S.No	Name of the member	Designation	Phone No.
1	Dr. T. P.Rao	Co-ordinator	9441902645
2	Dr.V.Karunasree	Member	9866901088
3	Dr.B.Anupama	Member	9441813652
4	Dr. Ch. Nagabhushnam	Member	9951067036
5	Dr.Ch.Supriya	Member	9440966090

5) SC/ST Welfare Committee

S.No	Name of the member	Designation	Phone No.
1.	Dr.TSarala Devi	Co-ordinator	9849483034
2.	Smt. K.Jyothi	Member	9398222732
3.	Ms. J.Sowmya	Student Member	9032784384
4.	Mr. B.RajuNaik	Student Member	6281336920
5.	Mr. V.JaswanthRaju	Student Member	9502140548

6) Institution-Industry Cell

S.No.	Name of the member	Designation	Committee	Phone No.
1.	Dr. T. P. Rao	Associate Professor	Chair person	9441902645
2.	Dr. A. Bharathi	Associate Professor	Member	9393043134
3.	Dr. V KarunaSree	Associate Professor &HoD	Member	9866901088
4.	Dr. B. Anupama	Associate Professor &HoD	Member	9441813652
5.	Mr.A.Murali	Student	Member	8309424488
6.	Ms.D.NagaRamya	Student	Member	

7) Grievance Redressal Committee

S.No	Name of the Member	Present Designation	Committee	Phone No.
1.	Dr. A. Suneetha	Principal	Chairperson	9949185566
2.	Dr. G. Vijaya Kumar	Professor	Member	9989921747
3.	Dr. T. Sarala Devi	Assistant Professor	Member	9849483034
4.	Sri. A.V.S. Ravi Sainadh	Assistant Professor	Member	9618352952
5.	Ms. D.Keerthi	Student	Member	9966933318
6.	Mr.S.Hemanth Krishna	Student	Member	8688957820

8) Intellectual Property Rights Cell

S.No.	Name	Designation	Committee	Phone No.
1.	Dr.JyothirmayeeDevineni	Associate Professor	Chairperson	9866175359
2.	Dr. G. Ramanaiah	Associate Professor	Member	9848121188
3.	Dr. A. Bharathi	Associate Professor	Member	9393043134
4.	Ms. MounikaBai	Student	Member	8142235428
5.	Ms. M.Cherishma	Student	Member	9440250011

9) Examination Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr.A.Suneetha	Principal & Professor	Chairperson	9949185566
2.	Dr. M. VijayaLakshmi	Associate Professor	Member	8501011122
3.	Dr. K.Durga Prasad	Assistant Professor	Member	7306775758
4.	Dr.V.Narendra	Assistant Professor	Member	9618171818
5.	Smt. IswaryaObilineni	Assistant Professor	Member	7989552803
6.	Smt. A.LakshmiPavani	Assistant Professor	Member	9100199577
7.	Mr. P.Srinivasu	Assistant Professor	Member	9989092806

10) Disciplinary Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr. T .P.Rao	Associate Professor	Chairperson	9441902645
2.	Dr. V.Karunasree	Associate Professor	Member	9866901088
3.	Smt. R. Anusha	Assistant Professor	Member	7288967999
4.	Ms.D. GowriPriya	Student	Member	8185929971
5.	Ms.K. Heemanvi	Student	Member	9949119757
6.	Mr.T.SaiPraneeth	Student	Member	9164019649

11) Sexual Harassment Monitoring Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr. T Sarala Devi	Assistant Professor	Chairperson	9849483034
2.	SK.Jareena	Assistant Professor	Member	9182798693
3.	Ms.S.L.S.MounicaPratyusha	Assistant Professor	Member	9100746956
4.	Ms..Ch.Abinaya	Student	Member	8374499523
5.	Ms.Ch. Jahnavi	Student	Member	9390875514
6.	Ms.S. Dattakshaya	Student	Member	7569812848

12) ICT & Automation and Website Committee

S.No.	Name of the Member	Committee	Designation	Phone No.
1.	Dr. K.Ravishankar	Assistant Professor	Chairperson	9492535524
2.	Smt. K.Pradeepthi	Assistant Professor	Member	7995851919
3.	Dr. P.Swetha	Assistant Professor	Member	9652141257
4.	Mr.J.Pransanth	Student	Member	9515423609
5.	Mr.P.SaiRohith	Student	Member	9166504870
6.	Ms. K. Himaja Rama Tulasi	Student	Member	9391461856

13) Student Welfare Amenities Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr.Ch.Nagabhushanam	Associate Professor	Chairperson	9951067030
2.	Ms. Jareena. Sk	Assistant Professor	Member	9182798693
3.	Smt. S.Pranathi	Assistant Professor	Member	9398541700
4.	Ms.Ch. Chaitanya Raj	Student	Member	7981134498
5.	Ms.P.RajaRasogna	Student	Member	6281492477
6.	Ms.Ch.Manogna	Student	Member	9908318199

14) Women Empowerment Cell

S.No	Name of the Member	Designation	Committee	Phone No.
1.	Dr. A. Suneetha	Principal	Chairperson	9949185566
2.	Dr. M.Vijayalakshmi	Associate Professor	Member	8501011122
3.	Smt. A. Lakshmi Pavani	Assistant Professor	Member	9100199577
4.	Ms. T .S.Mrinalini	Assistant Professor	Member	8977216085
5.	Smt. K.Sirisha	Assistant Professor	Member	9948438068
6.	Ms.A.Sowjanya	Assistant Professor	Member	7095237196
7.	Ms. P.Chaarishma	Student	Member	9966281111
8.	Ms.K.RenukaChowdary	Student	Member	8125885678

15) Handbook and Magazine Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr.N.Kanakadurga Devi	Associate Professor	Chairperson	9392418336
2.	Dr.D.Jyotirmayee	Associate Professor	Member	9866175359
3.	Dr. T.Sarala Devi	Assistant Professor	Member	9849483034
4.	Smt. P.LakshmiPrasanna	Assistant Professor	Member	7075667386
5.	Mr.Jonus Evangel Nakka	Student	Member	8688962081
6.	Ms.I.Pallavi	Student	Member	9642804888

16) Training & Placement Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr. Ch.Nagabhushanam	Associate Professor	Chairperson	9951067030
2.	Dr. T. P. Rao	Associate Professor	Member	9441902645
3.	Dr.Arifa Begum	Assistant Professor	Member	7013053774
4.	Smt. P.LakshmiPrasanna	Assistant Professor	Member	7075667386
5.	Ms. Sri RamyaRvs	Student	Member	9246629988
6.	Mr. K.Sai Praveen	Student	Member	9848053599

17) Sports & Cultural Committee

S.No.	Name of the Member	Committee	Designation	Phone No.
1.	Sri.L.VinaySekhar	Physical Trainer	Sports Coordinator	9966344779
2.	Ms T.S. Mrinalini	Assistant Professor	Chairperson	8977216085
3.	MsR.Triveni	Assistant Professor	Member	8897514894
4.	Ms. A.Sowjanya	Assistant Professor	Member	7095237196
5.	Mr.J. David Stephen Roy	Student	Member	8897989510
6.	Ms. S.Dattakshaya	Student	Member	7569812848

18) NSS Programmme Committee

S.No.	Name of the Member	Committee	Designation	Phone No.
1.	Sri.L.VinaySekhar	Physical Trainer	Chairperson	9966344779
2.	Dr.P.Swetha	Assistant Professor	Member	9652141257
3.	Ms.Jareena.sk	Assistant Professor	Member	9182798693
4.	Smt. S.Pranathi	Assistant Professor	Member	9398541700
5.	Mr. T.DurgaVeeraManikantaSathish	Student	Member	9618481115
6.	Mr. B.JithendraNath	Student	Member	9441624219

19) Industrial Research and Consultation Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr. A.Bharathi	Associate Professor	Chairperson	9393043134
2.	Dr. G. Vijaya Kumar	Professor	Member	9989921747
3.	Dr. M Vijayalakshmi	Associate Professor	Member	8501011122
4.	Dr. B. Anupama	Associate Professor	Member	9441813652
5.	Sri. A.V.S. Ravi Sainadh	Assistant Professor	Member	9618352952
6.	Dr.Arifa Begum	Assistant Professor	Member	9441822796

20) Alumni Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr.D. Jyothirmayee	Associate Professor	President	9866175359
2.	Mr.K.Vijaya Kishore	Assistant Professor	Vice President	9948442452
3.	Dr. B. Anupama	Associate Professor	Secretary	9441813652
4.	Dr. Ch. Nagabhushanam	Assistant Professor	Joint Secretary	9951067030
5.	Dr. K.Ravishankar	Assistant Professor	Treasurer	9492535524
6.	Smt.R.Anusha	Assistant Professor	Joint Secretary	7288967999
7.	Ms. S.L.S.MounicaPratyusha	Assistant Professor	Vice President	9100746956
8.	Ms. R.Manimala	Student	Member	9490062031
9.	Ms. D.GowriPriya	Student	Member	7207168919
10.	Mr. K. RevanthSrinadh	Student	Member	8883121999

21) Public Relation, Press& Media Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr. Ch. Nagabhushanam	Assistant Professor	Chairperson	9951067030
2.	Ms. R.Triveni	Assistant Professor	Member	8897514894
3.	Smt. AmaniPrasanna	Assistant Professor	Member	81254 38987
4.	Mrs.V.Indumathi	Lab Assistant	Member	8519930230
5.	Mrs.P.V.KrishnaVeni	Data Entry Opertor	Member	7013159045
6.	Ms. B.BhavyaThanusri	Student	Member	9885292999

22) Library Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1	Dr.A.Suneetha	Principal	Chairperson	9949185566
2	Dr.G.Vijay Kumar	Professor	Member	9989921747
3	Dr.RamaniahGangireddy	Professor	Member	9848121188
4	Dr. V.Karunasree	Associate Professor	Member	9866901088
5	Dr. B. Anupama	Associate Professor	Member	9441813652
6	Mrs.K.Saileela	Assistant Librarian	Member	9491346697

23)E-Cell

S.No.	Name of the Member	Designation	Committee	Phone No.
1	Mrs.IswaryaObilineni	Assistant Professor	Chair person	7989552803
2	Mr.K.Anil Kumar	Assistant Professor	Member	9440419934
3	Smt. K. Pradeepthi	Assistant Professor	Member	7995851919
4	Mr. P.Srinivasu	Assistant Professor	Member	9989092806
5	Ms. M.KeerthiPriya	Student	Member	6301212587
6	Ms. Ch.Sahithi	Student	Member	8074222488

24)Attendance Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr. A. Bharathi	Associate Professor	Chairperson	9393043134
2.	Dr. N.KanakaDurga Devi	Associate Professor	Member	9392418336
3.	Mrs. K.Jyothi	Assistant Professor	Member	9398222732
4.	Smt. R. Anusha	Assistant Professor	Member	7288967999
5.	Smt. K.Sirisha	Assistant Professor	Member	9948438068
6.	Ms. S.L.S. MounicaPratyusha	Assistant Professor	Member	9100746956

25) Time Table Committee

S.No.	Name of the Member	Designation	Committee	Phone No.
1.	Dr. M Vijayalakshmi	Associate Professor	Chairperson	8501011122
2.	Dr.V.Narendra	Assistant Professor	Member	9618171818
3.	Smt. A.LakshmiPavani	Assistant Professor	Member	9100199577
4.	Smt.R.Anusha	Assistant Professor	Member	7288967999
5.	Smt. S.Pranathi	Assistant Professor	Member	9398541700
6.	Smt. AmaniPrasanna	Assistant Professor	Member	81254 38987

26) IQAC Committee

1.	Chairman	Dr. A. Suneetha, Principal KVSR Siddhartha College of Pharmaceutical Sciences, Vijayawada.
2.	Coordinator	Dr. G. Vijayakumar, HoD Dept of Pharmacy Practice
3.	Members from Teaching Staff	Dr. K. Ravi Shankar, Asst. Professor Dr.P.Swetha, Asst. Professor Sri. A. V.S. Ravi Sainadh, Asst. Professor Smt. O.Iswarya, Asst. Professor
4.	Members from Administrative Staff	Mr. K. VenkataRao, Senior Asst Smt. P. V. Krishnaveni, Data Entry Operator
5.	Management Representatives	Sri. Ch.Arunkumar, Convenor Sri. P.Syama Krishna, Convenor Committee member
6.	Nominees from Local Society	Dr. Samaram, Member Smt. Kumari, Member
7.	Nominee from Student	Mr. T.SaiPraneeth, Student
8.	Nominee from Alumni	Mr.ChittineniManoj, MS
9.	Nominee from Industrialist	Mr.K.Manohar, Accurate Labs
10.	Nominees from Stakeholder	Mr.DanduVenkataSita Rama Rao, Parent

27) Electoral Literacy Club

S.No.	Name	Designation	Committee	Phone No.
1.	Dr. A. Bharathi	Professor	Coordinator	9393043134
2.	Dr. Ch. Nagabhushanam	Assistant Professor	Additional Coordinator	9951067030
3.	Smt.M. Sailaja	Lab Assistant	Assistant Co-ordinator	9440680379
4.	Mr. D. Vamsi Krishna	II Pharm D	Student Representative	9550260931
5.	Mr.V. BhanuVyshnavSai	II B. Pharmacy	Student Representative	9490823439

28) Project Review Committee

S.No.	Name of Members	Designation	Committee
1.	Dr. A. Suneetha	Principal	Chairperson
2.	Dr.G.Vijaya Kumar	Professor & HOD	Member
3.	Dr G. Ramanaiah	Professor & HOD	Member
4.	Dr.V. KarunaSree	Associate Professor & HOD	Member
5.	Dr. B. Anupama	Associate Professor & HOD	Member
6.	Dr.M.Vijaya Lakshmi	Associate Professor	Member
7.	Dr.Ch.Supriya	Associate Professor	Member

29) Program Assessment Committee

S.No.	Name of Members	Designation	Committee
1.	Dr. A. Suneetha	Principal	Chairperson
2.	Dr.M.Vijaya Lakshmi	Associate Professor	Member
3.	Dr.Ch.Supriya	Associate Professor	Member
4.	Dr. K.Ravishankar	Assistant Professor	Member
5.	Smt. A.LakshmiPavani	Assistant Professor	Member
6.	Dr. K.Durga Prasad	Assistant Professor	Member

30) KAPILA Team

S.No.	Name	Designation	Institute/Comp any	Contact No.
1.	Prof. SuneethaAchanti	Chairperson - Faculty Member(Principal/Director/Dean/ Vice Chancellor/SeniorFaculty member) having IP background knowledge	KVSRSCOPS	9949185566
2.	Dr.Ch. Nagabhushanam	Institute alumni/Industry expert	KVSRSCOPS	9951067030
3.	Venkateswara raoYarlagadda	Institutealumni/Industryexpert/IncubationHead/Technology transfer officerepresentative	Accurate labs	9100074414
4.	Dr. Ch. Divakarbabu	Legal Advisor/IPR expert	Siddhartha law college	7013539373
5.	Dr.Ch.Supriya	Faculty Member (Senior Faculty Member – Convenor Single Point of Contact)	KVSRSCOPS	9985969634

31) Moderation Committee

S.No.	Name of Members	Designation	Committee
1.	Dr. A. Bharathi	Professor	Chairperson
2.	Dr.T.Sarala Devi	Assistant Professor	Member
3.	Dr.Ch.Nagabhushanam	Assistant Professor	Member
4.	Smt. K.Pradeepthi	Assistant Professor	Member

32) Academic Calendar Committee

S.No.	Name of Members	Designation	Committee
1.	Dr. G. Ramana	Professor	Chairperson
2.	Dr.M.Vijaya Lakshmi	Associate Professor	Member
3.	Smt. R. Anusha	Assistant Professor	Member
4.	Dr.P.Swetha	Assistant Professor	Member
5.	Smt. A.LakshmiPavani	Assistant Professor	Member
6.	Smt. K. Pradeepthi	Assistant Professor	Member

33) Scholarship Awareness Committee

S.No.	Name of Members	Committee
1.	Dr. CH. Nagabhushanam	Chairperson
2.	Dr. M. VijayaLakshmi	Member
3.	Mrs. P. V. Krishnaveni	Member
4.	Ms. SohithaMulupuri	Student
5.	Ms. GolajapuJyothirmayee	Student

COURSES OFFERED

- PHARM D
- B.PHARMACY
- M.PHARM
- PHARMACEUTICAL ANALYSIS
- PHARMACEUTICS



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