



KOMMAREDDY VENKATA SADASIVA RAO

SIDDHARTHA COLLEGE OF PHARMACEUTICAL SCIENCES

(AUTONOMOUS)

Siddhartha Nagar, Vijayawada - 520010, AP, INDIA

(Sponsors: Siddhartha Academy of General & Technical Education)

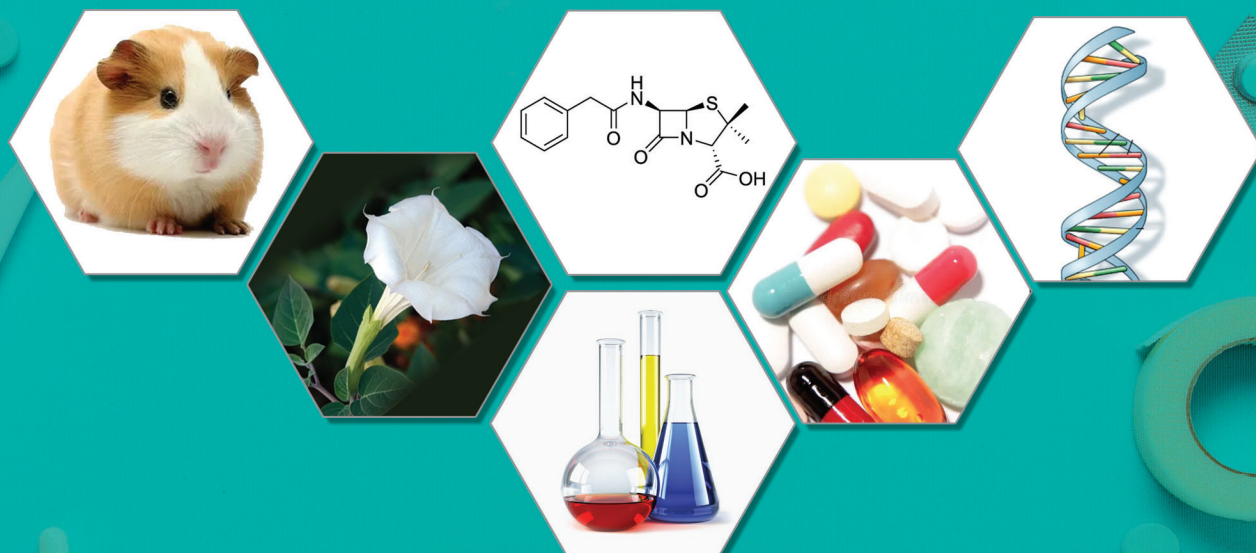
ISO 9001:2015, ISO14001:2015 & ISO50001:2011 CERTIFIED INSTITUTION

Affiliated to Krishna University, Machilipatnam

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

E-mail: kvrsiddharthapharma@gmail.com

PHARMACY COUNCIL OF INDIA
NEW DELHI



DOCTOR OF PHARMACY COURSE **ACADEMIC REGULATIONS AND SYLLABUS**



Web: www.kvrsiddharthapharma.edu.in



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

Tel: 0866- 2479775
0866- 2493347

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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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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.Nagamalliswa 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 /VI Pharma.D ACADEMIC CALENDAR 2024-25 (Y24 Batch)

Particulars/ Details	I YEAR	No of Working days
Induction	12.12.2024 to 15.12.2024	
Class work commencement	15.12.2024	77
I Internal examinations	17.02.2025	--
II spell of instructions	24.02.2025	70
II Internal examinations	9.06.2025	--
III spell of instructions	02.06.2025	60
III Internal examinations	18.08.2025	--
Closure of instructions	14.08.2025	
Submission of attendance particulars of ineligible candidates to the Controller of Examinations	16.08.2025	
Payment of examination fee	18.08.2025 to 20.08.2025	
University Theory Examinations	25.08.2025	--
University Practical Examinations	Immediately after theory Examinations	
Commencement of next year	03.09.2025	--



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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 Pharma.D Programme

(As Approved by the Academic Council of

KVSR Siddhartha College of Pharmaceutical Sciences)

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

[PUBLISHED IN THE GAZETTE OF INDIA, No.19, PART III, SECTION 4]

Ministry of Health and Family Welfare
(Pharmacy Council of India)

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

Regulations framed under section 10 of the Pharmacy Act, 1948 (8 of 1948).

(As approved by the Government of India, Ministry of Health vide, letter No.V.13013/1/2007-PMS, dated the 13th March, 2008 and notified by the Pharmacy Council of India).

No.14-126/2007-PCI.— In exercise of the powers conferred by section 10 of the Pharmacy Act, 1948 (8 of 1948), the Pharmacy Council of India, with the approval of the Central Government, hereby makes the following regulations, namely:-

CHAPTER-I

1. Short title and commencement. – (1) These regulations may be called the Pharm.D. Regulations 2008.

(2) They shall come into force from the date of their publication in the official Gazette.

2. Pharm.D. shall consist of a certificate, having passed the course of study and examination as prescribed in these regulations, for the purpose of registration as a pharmacist to practice the profession under the Pharmacy Act, 1948.

CHAPTER-II

3. Duration of the course. –

a) Pharm.D: The duration of the course shall be six academic years (five years of study and one year of internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of six years duration is divided into two phases –

Phase I – consisting of First, Second, Third, Fourth and Fifth academic year.

Phase II – consisting of internship or residency training during sixth year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or

clinical pharmacy services and acquires skill under supervision so that he or she may become capable of functioning independently.

b) Pharm.D. (Post Baccalaureate): The duration of the course shall be for three academic years (two years of study and one year internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of three years duration is divided into two phases –Phase I – consisting of First and Second academic year.

Phase II – consisting of Internship or residency training during third year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services, and acquires skill under supervision so that he or she may become capable of functioning independently.

4. Minimum qualification for admission to. –

a) Pharm.D. Part-I Course – A pass in any of the following examinations -

(1) 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the following subjects: Mathematics or Biology.

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

(3) Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

Provided that a student should complete the age of 17 years on or before 31st December of the year of admission to the course.

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.

b) Pharm.D. (Post Baccalaureate) Course -

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

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.

5. Number of admissions in the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below –

i) Pharm.D. Programme – 30 students.

ii) Pharm.D. (Post Baccalaureate) Programme – 10 students.

6. Institutions running B.Pharm programme approved under section 12 of the Pharmacy Act, will only be permitted to run Pharm.D. programme. Pharm.D. (Post Baccalaureate) programme will be permitted only in those institutions which are permitted to run Pharm.D. programme.

7. Course of study. – The course of study for Pharm.D. shall include the subjects as given in the Tables below. The number of hours in a week, devoted to each subject for its teaching in theory, practical and tutorial shall not be less than that noted against it in columns (3), (4) and (5) below.

TABLES

First Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
1.1	Human Anatomy and Physiology	3	3	1
1.2	Pharmaceutics	2	3	1
1.3	Medicinal Biochemistry	3	3	1
1.4	Pharmaceutical Organic Chemistry	3	3	1
1.5	Pharmaceutical Inorganic Chemistry	2	3	1
1.6	Remedial Mathematics/Biology	3	3*	1
1.7	Human values and Professional ethics	2	-	-
	Total hours	18	18	6= (42)

*For Biology

Second Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
2.1	Pathophysiology	3	-	1
2.2	Pharmaceutical Microbiology	3	3	1
2.3	Pharmacognosy & Phytopharmaceuticals	3	3	1
2.4	Pharmacology-I	3	-	1
2.5	Community Pharmacy	2	-	1
2.6	Pharmacotherapeutics-I	3	3	1
	Total hours	17	9	6 = (32)

Third Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
3.1	Pharmacology-II	3	3	1
3.2	Pharmaceutical Analysis	3	3	1
3.3	Pharmacotherapeutics-II	3	3	1
3.4	Pharmaceutical Jurisprudence	2	-	-
3.5	Medicinal Chemistry	3	3	1
3.6	Pharmaceutical Formulations	2	3	1
	Total hours	16	15	5 = (36)

Fourth Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical/ Hospital Posting	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
4.1	Pharmacotherapeutics-III	3	3	1
4.2	Hospital Pharmacy	2	3	1
4.3	Clinical Pharmacy	3	3	1
4.4	Biostatistics & Research Methodology	2	-	1
4.5	Biopharmaceutics & Pharmacokinetics	3	3	1
4.6	Clinical Toxicology	2	-	1
	Total hours	15	12	6 = (33)

Fifth Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical/ Hospital Posting*	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
5.1	Clinical Research	3	-	1
5.2	Pharmacoepidemiology and Pharmacoeconomics	3	-	1
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2		1
5.4	Clerkship *	-	-	1
5.5	Project work (Six Months)	-	20	-
	Total hours	8	20	4 = (32)

* Attending ward rounds on daily basis.

Sixth Year:

Internship or residency training including postings in speciality units. Student should independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other speciality departments

8. Syllabus. – The syllabus for each subject of study in the said Tables shall be as specified in Appendix -A to these regulations.

9. Approval of the authority conducting the course of study. – (1) No person, institution, society or university shall start and conduct Pharm.D or Pharm.D. (Post Baccalaureate) programme without the prior approval of the Pharmacy Council of India.

(2) Any person or pharmacy college for the purpose of obtaining permission under sub-section (1) of section 12 of the Pharmacy Act, shall submit a scheme as prescribed by the Pharmacy Council of India.

(3) The scheme referred to in sub-regulation (2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed:

Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs., equipments, teaching staff, nonteaching staff, etc., as specified in Appendix-B to these regulations.

10. Examination. – (1) Every year there shall be an examination to examine the students.

(2) Each examination may be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.

(3) The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part of a subject as indicated in Tables below:

TABLES

First Year Examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
1.1	Human Anatomy and Physiology	70	30	100	70	30	100
1.2	Pharmaceutics	70	30	100	70	30	100
1.3	Medicinal Biochemistry	70	30	100	70	30	100
1.4	Pharmaceutical Organic Chemistry	70	30	100	70	30	100
1.5	Pharmaceutical Inorganic Chemistry	70	30	100	70	30	100
1.6	Remedial Mathematics/ Biology	70	30	100	70*	30*	100*
1.7	Human values and Professional ethics	50	-	50	-	-	-
				650			600=1250

*for Biology.

Second Year Examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practical		
		Examination	Sessional	Total	Examination	Sessional	Total
2.1	Pathophysiology	70	30	100	-	-	-
2.2	Pharmaceutical Microbiology	70	30	100	70	30	100
2.3	Pharmacognosy & Phytopharmaceuticals	70	30	100	70	30	100
2.4	Pharmacology-I	70	30	100	-	-	-
2.5	Community Pharmacy	70	30	100	-	-	-
2.6	Pharmacotherapeutics-I	70	30	100	70	30	100
				600			300=900

Third Year Examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practical		
		Examination	Sessional	Total	Examination	Sessional	Total
3.1	Pharmacology-II	70	30	100	70	30	100
3.2	Pharmaceutical Analysis	70	30	100	70	30	100
3.3	Pharmacotherapeutics-II	70	30	100	70	30	100
3.4	Pharmaceutical Jurisprudence	70	30	100	-	-	-
3.5	Medicinal Chemistry	70	30	100	70	30	100
3.6	Pharmaceutical Formulations	70	30	100	70	30	100
				600			500= 1100

Fourth Year Examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practical		
		Examination	Sessional	Total	Examination	Sessional	Total
4.1	Pharmacotherapeutics-III	70	30	100	70	30	100
4.2	Hospital Pharmacy	70	30	100	70	30	100
4.3	Clinical Pharmacy	70	30	100	70	30	100
4.4	Biostatistics & Research Methodology	70	30	100	-	-	-
4.5	Biopharmaceutics & Pharmacokinetics	70	30	100	70	30	100
4.6	Clinical Toxicology	70	30	100	-	-	-
				600			400= 1000

Fifth Year Examination:

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practical		
		Examination	Sessional	Total	Examination	Sessional	Total
5.1	Clinical Research	70	30	100	-	-	-
5.2	Pharmacoepidemiology and Pharmacoeconomics	70	30	100	-	-	-
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	70	30	100	-	-	-
5.4	Clerkship *	-	-	-	70	30	100
5.5	Project work (Six Months)	-	-	-	100**	-	100
				300			200 = 500

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)
70 marks – Thesis work

11. Eligibility for appearing Examination.— Only such students who produce certificate from the Head of the Institution in which he or she has undergone the Pharm.D. or as the case may be, the Pharm.D. (Post Baccalaureate) course, in proof of his or her having regularly and satisfactorily undergone the course of study by attending not less than 80% of the classes held both in theory and in practical separately in each subject shall be eligible for appearing at examination.
12. Mode of examinations.— (1) Theory examination shall be of three hours and practical examination shall be of four hours duration.
(2) A Student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of the same subject.
(3) Practical examination shall also consist of a viva –voce (Oral) examination.
(4) Clerkship examination – Oral examination shall be conducted after the completion of clerkship of students. An external and an internal examiner will evaluate the student. Students may be asked to present the allotted medical cases followed by discussion. Students' capabilities in delivering clinical pharmacy services, pharmaceutical care planning and knowledge of therapeutics shall be assessed.
13. Award of sessional marks and maintenance of records.— (1) A regular record of both theory and practical class work and examinations conducted in an institution imparting training for Pharm.D. or as the case may be, Pharm.D. (Post Baccalaureate) course, shall be maintained for each student in the institution and 30 marks for each theory and 30 marks for each practical subject shall be allotted as sessional.
(2) There shall be at least two periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.
(3) The sessional marks in practicals shall be allotted on the following basis:-
 - (i) Actual performance in the sessional examination (20 marks);
 - (ii) Day to day assessment in the practical class work, promptness, viva-voce record maintenance, etc. (10 marks).
14. Minimum marks for passing examination.— A student shall not be declared to have passed examination unless he or she secures at least 50% marks in each of the subjects separately in the theory examinations, including sessional marks and at least 50% marks in each of the practical examinations including sessional marks. The students securing 60% marks or above in aggregate in all subjects in a single attempt at the Pharm.D. or as the case may be, Pharm. D. (Post Baccalaureate) course examination shall be declared to have passed in first class. Students securing 75% marks or above in any subject or subjects shall be declared to have passed with distinction in the subject or those subjects provided he or she passes in all the subjects in a single attempt.
15. Eligibility for promotion to next year.— All students who have appeared for all the subjects and passed the first year annual examination are eligible for promotion to the second year and, so on. However, failure in more than two subjects shall debar him or her from promotion to the next year classes.
16. Internship.— (1) Internship is a phase of training wherein a student is expected to conduct actual practice of pharmacy and health care and acquires skills under the supervision so that he or she may become capable of functioning independently.
(2) Every student has to undergo one year internship as per Appendix-C to these regulations.
17. Approval of examinations.— Examinations mentioned in regulations 10 to 12 and 14 shall be held by the examining authority hereinafter referred to as the university, which shall be approved by the Pharmacy Council of India under sub-section (2) of section 12 of the Pharmacy Act, 1948. Such approval shall be granted only if the examining authority concerned fulfills the conditions as specified in Appendix–D to these regulations.

18. Certificate of passing examination.— Every student who has passed the examinations for the Pharm.D. (Doctor of Pharmacy) or Pharm.D. (Post Baccalaureate) (Doctor of Pharmacy) as the case may be, shall be granted a certificate by the examining authority

CHAPTER-III

Practical training

19. Hospital posting.— Every student shall be posted in constituent hospital for a period of not less than fifty hours to be covered in not less than 200 working days in each of second, third & fourth year course. Each student shall submit report duly certified by the preceptor and duly attested by the Head of the Department or Institution as prescribed. In the fifth year, every student shall spend half a day in the morning hours attending ward rounds on daily basis as a part of clerkship. Theory teaching may be scheduled in the afternoon.
20. Project work.— (1) To allow the student to develop data collection and reporting skills in the area of community, hospital and clinical pharmacy, a project work shall be carried out under the supervision of a teacher. The project topic must be approved by the Head of the Department or Head of the Institution. The same shall be announced to students within one month of commencement of the fifth year classes. Project work shall be presented in a written report and as a seminar at the end of the year. External and the internal examiners shall do the assessment of the project work.
- (2) Project work shall comprise of objectives of the work, methodology, results, discussions and conclusions.
21. Objectives of project work.— The main objectives of the project work is to—
- (i) show the evidence of having made accurate description of published work of others and of having recorded the findings in an impartial manner; and
- (ii) develop the students in data collection, analysis and reporting and interpretation skills.
22. Methodology.— To complete the project work following methodology shall be adopted, namely:—
- (i) students shall work in groups of not less than two and not more than four under an authorised teacher;
- (ii) project topic shall be approved by the Head of the Department or Head of the Institution;
- (iii) project work chosen shall be related to the pharmacy practice in community, hospital and clinical setup. It shall be patient and treatment (Medicine) oriented, like drug utilisation reviews, pharmacoepidemiology, pharmacovigilance or pharmacoconomics;
- (iv) project work shall be approved by the institutional ethics committee;
- (v) student shall present at least three seminars, one in the beginning, one at middle and one at the end of the project work; and
- (vi) two-page write-up of the project indicating title, objectives, methodology anticipated benefits and references shall be submitted to the Head of the Department or Head of the Institution.
23. Reporting .— (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution
- (2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-titles in bold with font size 14 and the text with font

size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.

(3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.

24. Evaluation.— The following methodology shall be adopted for evaluating the project work

(i) Project work shall be evaluated by internal and external examiners.

(ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).

(iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.

(iv) Evaluation shall be done on the following items:

Marks

a) Write up of the seminar

(7.5)

b) Presentation of work

(7.5)

c) Communication skills

(7.5)

d) Question and answer skills

(7.5)

Total

(30 marks)

(v) Final evaluation of project work shall be done on the following items:

Marks

a) Write up of the seminar

(17.5)

b) Presentation of work

(17.5)

c) Communication skills

(17.5)

d) Question and answer skills

(17.5)

Total

(70 marks)

Explanation.— For the purposes of differentiation in the evaluation in case of topic being the same for the group of students, the same shall be done based on item numbers b, c and d mentioned above.

PHD1.1T HUMAN ANATOMY & PHYSIOLOGY (THEORY)

Theory: 3 Hrs. /Week

1.Scope and Objectives:

This course is designed to impart a fundamental knowledge on the structure and functions of the human body. It also helps in understanding both homeostasis mechanisms and homeostatic imbalances of various body systems. Since a medicament, which is produced by pharmacist, is used to correct the deviations in human body, it enhances the understanding of how the drugs act on the various body systems in correcting the disease state of the organs.

2.Course Outcomes:

1. To recall and explain the basic structure and functions of cells, tissues, and organ systems and their role in homeostasis.
2. To identify and describe the structure and function of bones, joints, and the skeletal system, including the processes of bone formation and repair.
3. To explain the types of muscles, their functions, and analyze the physiological mechanisms of muscle contraction.
4. To analyze the structure and function of the cardiovascular and respiratory systems, and evaluate their interrelationship in oxygen delivery and homeostasis.
5. To know about the structure and function of urinary and Genital system, and emphasizing their distinct feature.
6. To evaluate the physiological processes of the nervous system and special senses, and create a comprehensive understanding of their role in sensory perception and response coordination.

3.Course materials:

Text books

- a. Tortora Gerard J. and Nicholas, P. Principles of anatomy and physiology Publisher Harpercollins college New York.
- b. Wilson, K.J.W. Ross and Wilson's foundations of anatomy and physiology. Publisher: Churchill Livingstone, Edinburgh.

Reference books

- a. Guyton arthur, C. Physiology of human body. Publisher: Holtsaunders.
- b. Chatterjee, C.C. Human physiology. Volume 1 & 11. Publisher: medical allied agency, Calcutta.
- c. Peter L. Williams, Roger Warwick, Mary Dyson and Lawrence, H.
- d. Gray's anatomy. Publisher: Churchill Livingstone, London.

4.Lecture wise programme: Topics

Unit-I (15 Hrs)

1. Scope of anatomy and physiology, basic terminologies used in this subject
2. (Description of the body as such planes and terminologies)
3. Structure of cell – its components and their functions.
4. Elementary tissues of the human body: epithelial, connective, Muscular and nervous tissues- their sub-types and characteristics

Unit-II (20 Hrs)

1. Haemopoetic System
 - a) Composition and functions of blood
 - b) Haemopoiesis and disorders of blood components (definition of disorder)
 - c) Blood groups
 - d) Clotting factors and mechanism
 - e) Platelets and disorders of coagulation
2. Lymph
 - a) Lymph and lymphatic system, composition, formation and circulation.
 - b) Spleen: structure and functions, Disorders
 - c) Disorders of lymphatic system (definition only)
3. Cardiovascular system
 - a) Anatomy and functions of heart
 - b) Blood vessels and circulation (Pulmonary, coronary and systemic circulation)
 - c) Electrocardiogram (ECG)
 - d) Cardiac cycle and heart sounds
 - e) Blood pressure – its maintenance and regulation
 - f) Definition of the following disorders
Hypertension, Hypotension, Arteriosclerosis, Atherosclerosis, Angina,
Myocardial infarction, Congestive heart failure, Cardiac arrhythmias

Unit-III (20 Hrs)

1. Respiratory system
 - a) Anatomy of respiratory organs and functions
 - b) Mechanism / physiology of respiration and regulation of respiration
 - c) Transport of respiratory gases
 - d) Respiratory volumes and capacities, and Definition of: Hypoxia, Asphyxia, Dybarism, Oxygen therapy and resuscitation.
2. Digestive system
 - a) Anatomy and physiology of GIT
 - b) Anatomy and functions of accessory glands of GIT
 - c) Digestion and absorption
 - d) Disorders of GIT (definitions only)
3. Urinary system
 - a) Anatomy and physiology of urinary system
 - b) Formation of urine
 - c) Renin Angiotensin system – Juxtaglomerular apparatus - acid base Balance
 - d) Clearance tests and micturition
4. Reproductive system
 - a) Male and female reproductive system
 - b) Their hormones – Physiology of menstruation
 - c) Spermatogenesis & Oogenesis
 - d) Sex determination (genetic basis)
 - e) Pregnancy and maintenance and parturition
 - f) Contraceptive devices

Unit-IV (20 Hrs)

1. Nervous system
 - a) Definition and classification of nervous system
 - b) Anatomy, physiology and functional areas of cerebrum
 - c) Anatomy and physiology of cerebellum
 - d) Anatomy and physiology of mid brain
 - e) Thalamus, hypothalamus and Basal Ganglia
 - f) Spinal cord: Structure & reflexes – mono-poly-planter
 - g) Cranial nerves – names and functions
 - h) ANS – Anatomy & functions of sympathetic & parasympathetic N.S.
2. Endocrine system
 - a) Pituitary gland
 - b) Adrenal gland
 - c) Thyroid and Parathyroid glands
 - d) Pancreas and gonads
3. Sense organs
 - a) Eye
 - b) Ear
 - c) Skin
 - d) Tongue & Nose

Unit-V (15 Hrs)

1. Osseous system - structure, composition and functions of the Skeleton. (done in practical classes - 6hrs)
2. Classification of joints, Types of movements of joints and disorders of joints (Definitions only)
3. Skeletal muscles
 - a) Histology
 - b) Physiology of Muscle contraction
 - c) Physiological properties of skeletal muscle and their disorders (definitions)
4. Sports physiology
 - a) Muscles in exercise, Effect of athletic training on muscles and muscle performance,
 - b) Respiration in exercise, CVS in exercise, Body heat in exercise, Body fluids and salts in exercise,
 - c) Drugs and athletic

PHD1.1P HUMAN ANATOMY & PHYSIOLOGY (PRACTICAL)

Practical: 3Hrs./Week

General Requirements: Dissection box, Laboratory Napkin, muslin cloth, record, Observation book (100pages), Stationary items, Bloodlancet.

Course materials:

Text books

Goyal, R.K, Natvar M.P, and Shah S.A, Practical anatomy, physiology and biochemistry, latest edition, Publisher: B.SShahPrakashan, Ahmedabad.

Reference books

Ranade VG, Text book of practical physiology, Latest edition, Publisher: PVG, Pune
Anderson Experimental Physiology, Latest edition, Publisher : NA

List of Experiments :

1. Study of tissues of human body
 - (a) Epithelial tissue.
 - (b) Muscular tissue.
2. Study of tissues of human body
 - (a) Connective tissue.
 - (b) Nervous tissue.
3. Study of appliances used in hematological experiments.
4. Determination of W.B.C.count of blood.
5. Determination of R.B.C.count of blood.
6. Determination of differential count of blood.
7. Determination of
 - (a) Erythrocyte Sedimentation Rate.
 - (b) Hemoglobin content of Blood.
 - (c) Bleeding time & Clotting time.
8. Determination of
 - (a) Blood Pressure.
 - (b) Blood group.
9. Study of various systems with the help of charts, models & specimens
 - (a) Skeleton system partI - axial skeleton.
 - (b) Skeleton system partII - appendicular skeleton.
 - (c) Cardiovascular system.
 - (d) Respiratory system.
 - (e) Digestive system.
 - (f) Urinary system.
 - (g) Nervous system.
 - (h) Special senses.
 - (i) Reproductive system.

10. Study of different family planning appliances.
11. To perform pregnancy diagnosis test.
12. Study of appliances used in experimental physiology.
13. To record simple muscle curve using gastrocnemius sciatic nerve preparation.
14. To record simple summation curve using gastrocnemius sciatic nerve preparation.
15. To record simple effect of temperature using gastrocnemius sciatic nerve preparation.
16. To record simple effect of load & after load using gastrocnemius sciatic nerve preparation.
17. To record simple fatigue curve using gastrocnemius sciatic nerve preparation.

Scheme of Practical Examination:

	Sessionals	Annual
Identification	04	10
Synopsis	04	10
Major Experiment	07	20
Minor Experiment	03	15
Viva	02	15
Max Marks	20	70
Duration	03hrs	04hrs

Note: Total Sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

PHD1.2T PHARMACEUTICS (THEORY)

Theory: 2 Hrs. /Week

1. Scope and objectives: This course is designed to impart a fundamental knowledge on the art and science of formulating different dosage forms. It prepares the students for most basics of the applied field of pharmacy.

2. Course Outcomes:

1. To define dosage forms and tell the basic concepts of Prescription, Posology and Pharmacopoeias
2. To understand the calculations, formulation and preparation of different Powders
3. To have basic knowledge on Monophasic dosage forms with excipients
4. To have fundamentals on Biphasic dosage forms, effectiveness of preparations
5. To justify the use of Suppositories as alternative dosage forms and appreciate the use of Galenicals
6. To elaborate the types of Incompatibilities and Surgical aids for best health care

3. Course materials:

Text books

- a. Cooper and Gunns Dispensing for pharmacy students.
- b. A text book Professional Pharmacy by N.K.Jain and S.N.Sharma.

Reference books

- a. Introduction to Pharmaceutical dosage forms by Howard C. Ansel.
- b. Remington's Pharmaceutical Sciences.
- c. Register of General Pharmacy by Cooper and Gunn.
- d. General Pharmacy by M.L.Schroff.

4. Lecture wise programme: Topics

Unit I (12 Hrs)

Historical background and development of profession of pharmacy and pharmaceutical industry in brief.

Introduction to dosage forms –classification and definitions, Prescription: definition, parts and handling, Posology: Definition, Factors affecting dose selection.Calculation of children and infant doses.

Unit II(12 Hrs)

Development of Indian Pharmacopoeia and introduction to other Pharmacopoeias such as BP, USP, European Pharmacopoeia, Extra pharmacopoeia and Indian national formulary.

Weights and measures, Calculations involving percentage solutions, allegation, proof spirit, isotonic solutions etc.

Unit III(12 Hrs)

Powders and Granules:

Classification advantages and disadvantages, Preparation of simple, compound powders, Insufflations, Dusting powders, Eutectic and Explosive powders, Tooth powder and effervescent powders and granules.

Monophasic Dosage forms: Theoretical aspects of formulation including adjuvant like stabilizers, colorants, flavours with examples. Study of Monophasic liquids like gargles, mouthwashes, Throat paint, Eardrops, Nasal drops, Liniments and lotions, Enemas and collodions.

Unit IV (12 Hrs)

Biphasic dosage forms: Suspensions and emulsions, Definition, advantages and disadvantages, classification, test for the type of emulsion, formulation, stability and evaluation.

Suppositories and pessaries: Definition, advantages and disadvantages, types of base, Method of preparation, Displacement value and evaluation.

Galenicals: Definition, equipment for different extraction processes like infusion, Decoction, Maceration and Percolation, methods of preparation of spirits, tinctures and extracts.

Unit V(12 Hrs)

Pharmaceutical calculations.

Surgical aids : Surgical dressings, absorbable gelatin sponge, sutures, ligatures and Medicated bandages.

Incompatibilities: Introduction, classification and methods to overcome the Incompatibilities.

PHD1.2P PHARMACEUTICS (PRACTICAL)

Practical: 3hr/Week

List of Experiments:

1. Syrups

- a. Simple Syrup I.P
- b. Syrup of Ephedrine Hcl NF
- c. Syrup Vasaka IP
- d. Syrup of ferrous Phosphate IP
- e. Orange Syrup

2. Elixir

- a. Piperizine citrate elixir BP
- b. Cascara elixir BPC
- c. Paracetamol elixir BPC

3. Linctus

- a. Simple Linctus BPC
- b. Pediatric simple Linctus BPC

4. Solutions

- a. Solution of cresol with soap IP
- b. Strong solution of ferric chloride BPC
- c. Aqueous Iodine Solution IP
- d. Strong solution of Iodine IP
- e. Strong solution of ammonium acetate IP

5. Liniments

- a. Liniment of turpentine IP*
- b. Liniment of camphor IP

6. Suspensions*

- a. Calamine lotion
- b. Magnesium Hydroxide mixture BP

7. Emulsions*

- a. Cod liver oil emulsion
- b. Liquid paraffin emulsion

8. Powders*

- a. Eutectic powder
- b. Explosive powder
- c. Dusting powder
- d. Insufflations

9. Suppositories*

- a. Boric acid suppositories
- b. Chloral suppositories

10. Incompatibilities

- a. Mixtures with Physical
- b. Chemical & Therapeutic incompatibilities

*colourless bottles required for dispensing *Paper envelope (white), butter paper and white paper required for dispensing.

Scheme of Practical Examination:

	Sessionals	Annual
Synopsis	05	15
MajorExperiment	10	25
MinorExperiment	03	15
Viva	02	15
MaxMarks	20	70
Duration	03 hrs	04 hrs

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

PHD1.3T MEDICINAL BIOCHEMISTRY (THEORY)

Theory: 3 Hrs. /Week

1. Scope and Objectives: Applied biochemistry deals with complete understanding of the molecular level of the chemical process associated with living cells. Clinical chemistry deals with the study of chemical aspects of human life in health and illness and the application of chemical laboratory methods to diagnosis, control of treatment, and prevention of diseases.

2. Course Outcomes:

1. To understand the importance of metabolism of substrates.
2. Will acquire chemistry and biological importance of biological macromolecules.
3. To acquire knowledge in qualitative and quantitative estimation of the biological macromolecules.
4. To know the interpretation of data emanating from a Clinical Test Lab.
5. To know how physiological conditions influence the structures and reactivity's of biomolecules.
6. To understand the basic principles of protein and polysaccharide structure

3.Course materials:

Text books (Theory)

- a. Harpers review of biochemistry - Martin
- b. Text book of biochemistry – D.Satyanarayana
- c. Text book of clinical chemistry- Alex Kaplan &LaverveL.Szabo

Reference books (Theory)

- a. Principles of biochemistry -- Lehn Inger
- b. Text book of biochemistry – Rama Rao
- c. Practical Biochemistry-David T.Plummer.
- d. Practical Biochemistry-Pattabhiraman.

4. Lecture wise programme:

Topics

UNIT I (16 Hrs)

1. Introduction to biochemistry:

- a) Cell and its biochemical organization, transport process across the cell membranes.
- b) Energy rich compounds; ATP, Cyclic AMP and their biological significance.

2. Enzymes:

- a) Definition; Nomenclature; IUB classification
- b) Factor affecting enzyme activity; Enzyme action; enzyme inhibition.
- c) Isoenzymes and their therapeutic and diagnostic applications;
- d) Coenzymes and their biochemical role and deficiency diseases.

UNIT II (19 Hrs)

1. Carbohydrate metabolism:

- a) Glycolysis, Citric acid cycle (TCA cycle), HMP shunt, Glycogenolysis, gluconeogenesis, glycogenesis
- b) Metabolic disorders of carbohydrate metabolism (diabetes mellitus and glycogen storage diseases)
- c) Glucose, Galactose tolerance test and their significance; hormonal regulation of carbohydrate metabolism

2. Lipid metabolism:

- a) Oxidation of saturated (β -oxidation)
- b) Ketogenesis and ketolysis
- c) Biosynthesis of fatty acids, lipids ; metabolism of cholesterol
- d) Hormonal regulation of lipid metabolism
- e) Defective metabolism of lipids (Atherosclerosis, fatty liver, hypercholesterolemia).

UNIT III (19 Hrs)

- 1. **Biological Oxidation:** Coenzyme system involved in Biological oxidation. Electron transport chain (its mechanism in energy capture; regulation and inhibition); Uncouplers of ETC; Oxidative phosphorylation
- 2. **Protein and amino acid metabolism:** protein turn over; nitrogen balance; Catabolism of Amino acids (Transamination, deamination & decarboxylation) Urea cycle and its metabolic disorders; production of bile pigments; hyperbilirubinemia, porphoria, jaundice. Metabolic disorder of Amino acids.
- 3. **Nucleic acid metabolism:** Metabolism of purine and pyrimidine nucleotides; Protein synthesis; Genetic code; inhibition of protein synthesis; mutation and repair mechanism; DNA replication (semiconservative /onion peel models) and DNA repair mechanism

UNIT IV (19 Hrs)

- 1. **Introduction to clinical chemistry:** Cell; composition; malfunction; Role of the clinical chemistry laboratory.
- 2. **The kidney function tests:** Role of kidney; Laboratory tests for normal function includes
 - a) Urine analysis (macroscopic and physical examination, quantitative and semiquantitative tests.)
 - b) Test for NPN constituents. (Creatinine /urea clearance, determination of blood and urine creatinine, urea and uric acid)
 - c) Urine concentration test
 - d) Urinary tract calculi. (Stones)
- 3. **Liver function tests:** Physiological role of liver, metabolic, storage, excretory, protective, circulatory functions and function in blood coagulation.
 - a) Test for hepatic dysfunction-Bile pigments metabolism.
 - b) Test for hepatic function test- Serum bilirubin, urine bilirubin, and urine urobilinogen.
 - c) Dye tests of excretory function.
 - d) Tests based upon abnormalities of serum proteins.
 - e) Selected enzyme tests.

UNIT V (17 Hrs)

- 1. **Lipid profile tests:**
 - a) Lipoproteins, composition, functions.
 - b) Determination of serum lipids, total cholesterol, HDL cholesterol, LDL cholesterol and triglycerides
- 2. **Immunochemical techniques** for determination of hormone levels and protein levels in serum for endocrine diseases and infectious diseases. Radio immune assay (RIA) Enzyme Linked Immune Sorbent Assay (ELISA)
- 3. **Electrolytes:** Body water, compartments, water balance, and electrolyte distribution. Determination of sodium, calcium, potassium, chlorides, bicarbonates in the body fluids

PHD1.3P MEDICINAL BIOCHEMISTRY (PRACTICAL)

Practical : 3hrs/Week

1. Qualitative analysis of normal constituents of urine.
2. Qualitative analysis of abnormal constituents of urine.
3. Quantitative estimation of urine sugar by Benedict's reagent method.
4. Quantitative estimation of urine chlorides by Volhard's method.
5. Quantitative estimation of urine creatinine by Jaffe's method.
6. Quantitative estimation of urine calcium by precipitation method.
7. Quantitative estimation of serum cholesterol by Libermann Burchard's method.
8. Preparation of Folin Wu filtrate from blood.
9. Quantitative estimation of blood creatinine.
10. Quantitative estimation of blood sugar Folin-Wu tube method.
11. Estimation of SGOT in serum.
12. Estimation of SGPT in serum.
13. Estimation of Urea in Serum.
14. Estimation of Proteins in Serum.
15. Determination of serum bilirubin
16. Determination of Glucose by means of Glucoseoxidase.
17. Enzymatic hydrolysis of Glycogen/Starch by Amylases.
18. Study of factors affecting Enzyme activity. (pH & Temp.)
19. Preparation of standard buffer solutions and its pH measurements (any two)
20. Experiment on lipid profile tests
21. Determination of sodium,calcium and potassium in serum.

Assignments:

Format of the assignment

- 1.Minimum & Maximum number of pages.
- 2.It shall be computer draft copy.
- 3.Reference(s) shall be included at the end.
- 4.Name and signature of the student.
- 5.Assignment can be a combined presentation at the end of the academic year.
- 6.Time allocated for presentation may be 8+2 Min.

Scheme of Practical Examination:

	Sessionals	Annual
Synopsis	05	15
Major Experiment	10	25
Minor Experiment	03	15
Viva	02	15
Max Marks	20	70
Duration	03 hrs	04 hrs

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

PHD1.4T PHARMACEUTICAL ORGANIC CHEMISTRY (THEORY)

Theory: 3 Hrs. /Week

1. Scope and objectives:

- This course is designed to impart a very good knowledge about a. IUPAC/Common system of nomenclature of simple organic compounds belonging to different classes of organic compounds;
- Some important physical properties of organic compounds;
- Free radical/ nucleophilic [alkyl/ acyl/ aryl] /electrophilic substitution, free radical/ nucleophilic / electrophilic addition, elimination, oxidation and reduction reactions with mechanism, orientation of the reaction, order of reactivity, stability of compounds;
- Some named organic reactions with mechanisms; and
- Methods of preparation test for purity, principle involved in the assay, important medicinal uses of some important organic compounds.

2. Course Outcomes:

- To be able to give systematic names to simple organic compounds and poly functional group.
- To achieve an understanding of the behavior of organic compounds and to establish a foundation for studies into natural and synthetic products of pharmaceutical interest.
- To acquire the knowledge and understanding of the basic experimental principles of pharmaceutical organic chemistry.
- To draw the structures and synthesize simple pharmaceutically active organic compounds.
- To describe detailed mechanisms for common reactions.
- To be able to run experimental techniques, procedures and safe laboratory practices

3. Course materials:

Text books

- T.R.Morrison and R. Boyd - Organic chemistry,
- Bentley and Driver-Text book of Pharmaceutical chemistry
- I.L.Finer- Organic chemistry, the fundamentals of chemistry

Reference books

- Organic chemistry – J.M.Cram and D.J.Cram
- Organic chemistry- Brown
- Advanced organic chemistry- Jerry March, Wiley
- Organic chemistry- Cram and Hammered, Pine Hendrickson

4. Lecture wise programme: Topics

Unit-I (20 Hrs)

Structures and Physical properties:

- Polarity of bonds, polarity of molecules, M.P, Inter molecular forces, B.P, Solubility, non-ionic solutes and ionic solutes, protic and aprotic Solvents, ion pairs,
- i) Acids and bases, Lowry bronsted and Lewis theories isomerism

ii) Nomenclature of organic compound belonging to the following classes Alkanes, Alkenes, Dienes, Alkynes, Alcohols, Aldehydes, Ketones, Amides, Amines, Phenols, Alkyl Halides, Carboxylic Acid, Esters, Acid Chlorides And Cycloalkanes.

iii) Free radicals chain reactions of alkane : Mechanism, relative reactivity and stability iv) Alicyclic compounds : Preparations of cyclo alkanes, Bayer strain theory and orbital picture of angle strain.

Unit-II (25 Hrs)

2. i) Nucleophilic aliphatic substitution mechanism: Nucleophiles and leaving groups, kinetics of second and first order reaction, mechanism and kinetics of SN 2 reactions. Stereochemistry and steric hindrance, role of solvents, phase transfer catalysis, mechanism and kinetics of SN1 reactions, stereochemistry, carbocation and their stability, rearrangement of carbocation, role of solvents in SN1 reaction, Ion dipole bonds, SN2 versus SN1 solvolyses, nucleophilic assistance by the solvents.

ii) Dehydro halogenation of alkyl halides: 1,2 elimination, kinetics, E2 and E1 mechanism, elimination via carbocation, evidence for E2 mechanism, absence of rearrangement isotope effect, absence hydrogen exchange, the element effect, orientation and reactivity, E2 versus E1, elimination versus substitution, dehydration of alcohol, ease of dehydration, acid catalysis, reversibility, orientation.

iii) Electrophilic and free radicals addition: Reactions at carbon-carbon, double bond, electrophile, hydrogenation, heat of hydrogenation and stability of alkenes, Markownikoff rule, addition of hydrogen halides, addition of hydrogen bromides, peroxide effect, electrophilic addition, mechanism, rearrangement, absence of hydrogen exchange, orientation and reactivity, addition of halogen, mechanism, halohydrin formation, mechanism of free radicals addition, mechanism of peroxide initiated addition of hydrogen bromide, orientation of free addition, additions of carbene to alkene, cyclo addition reactions.

iv) Carbon-carbon double bond as substituents: Free radical halogenations of alkenes, comparison of free radical substitution with free radical addition, free radical substitution in alkenes, orientation and reactivity, allylic rearrangements.

Unit-III (15 Hrs)

3. i) Theory of resonance:

Allyl radical as a resonance hybrid, stability, orbital picture, resonance stabilization of allyl radicals, hyper conjugation, allyl cation as a resonance hybrid, nucleophilic substitution in allylic substrate, SN1 reactivity, allylic rearrangement, resonance stabilization of allyl cation, hyper conjugation, nucleophilic substitution in allylic substrate, SN2 nucleophilic substitution in vinyl substrate, vinyl cation, stability of conjugated dienes, resonance in alkenes, hyper conjugation, ease of formation of conjugated dienes, orientation of elimination, electrophilic addition to conjugated dienes, 1,4- addition, 1,2-versus 1,4-addition, rate versus equilibrium, orientation and reactivity of free radical addition to conjugated dienes. ii) Electrophilic aromatic substitution: Effect of substituent groups, determination of orientation, determination of relative reactivity, classification of substituent group, mechanism of nitration, sulphonation, halogenation, Friedel Craft alkylation, Friedel Craft acylation, reactivity and orientation, activating and deactivating O,P,M directing groups, electron release via resonance, effect of halogen on electrophilic aromatic substitution in alkyl benzene, side chain halogenation of alkyl benzene, resonance stabilization of benzyl radical.

Unit-IV (15 Hrs)

4. i) Nucleophilic addition reaction: Mechanism, ionization of carboxylic acids, acidity constants, acidity of acids, structure of carboxylate ions, effect of substituent on acidity, nucleophilic acyl substitution reaction, conversion of acid to acid chloride, esters, amide and anhydride. Role of carboxyl group, comparison of alkyl nucleophilic substitution with acyl nucleophilic substitution.

ii) Mechanism of aldol condensation, Claisen condensation, Cannizzaro reaction, crossed aldol condensation, crossed Cannizzaro reaction, benzoin condensation, Perkin condensation. Knoevenagel, Reformatsky reaction, Wittig reaction, Michael addition.

iii) Hoffman rearrangement: Migration to electron deficient nitrogen, Sandmeyer's reaction, basicity of amines, diazotization and coupling, acidity of phenols, Williamson synthesis, Fries rearrangement, Kolbe reaction, Reimer-Tiemann's reactions.

Unit-V (15 Hrs)

5. i) Nucleophilic aromatic substitution: Bimolecular displacement mechanisms, orientation, comparison of aliphatic nucleophilic substitution with that of aromatic

ii) Oxidation reduction reaction.

iii) Study of the following official compounds- preparation, test for purity, assay and medicinal uses of Chlorbutol, Dimercaprol, Glyceryl trinitrate, Urea, Ethylene diamine dihydrate, Vanillin, Paraldehyde, Ethylene chloride, Lactic acid, Tartaric acid, citric acid, salicylic acid, aspirin, methyl salicylate, ethyl benzoate, benzyl benzoate, dimethyl citric acid, salicylic acid, aspirin, methyl salicylate, ethyl benzoate, benzyl benzoate, dimethyl phthalate, sodium lauryl sulphate, saccharin sodium, mephensin.

PHD1.4P PHARMACEUTICAL ORGANIC CHEMISTRY (PRACTICAL)

Practical : 3 Hrs./Week

I. Introduction to the various laboratory techniques through demonstration involving synthesis of the following compounds (at least 8 compounds to be synthesised):

1. Acetanilide / aspirin (Acetylation)
2. Benzanilide / Phenyl benzoate (Benzoylation)
3. P-bromo acetanilide / 2,4,6 – tribromo aniline (Bromination)
4. Dibenzylidene acetone (Condensation)
5. 1-Phenylazo-2-naphthol (Diazotisation and coupling)
6. Benzoic acid / salicylic acid (Hydrolysis of ester)
7. M-dinitro benzene (Nitration)
8. 9, 10 – Anthraquinone (Oxidation of anthracene) / preparation of benzoic acid from toluene or benzaldehyde
9. M-phenylene diamine (Reduction of M-dinitrobenzene)/ Aniline from nitrobenzene
10. Benzophenone oxime
11. Nitration of salicylic acid
12. Preparation of picric acid
13. Preparation of O-chlorobenzoic acid from O-chlorotoluene
14. Preparation of cyclohexanone from cyclohexanol

II. Identification of organic compounds belonging to the following classes by :

Systematic qualitative organic analysis including preparation of derivatives Phenols, amides, carbohydrates, amines, carboxylic acids, aldehyde and ketones,
Alcohols, esters, hydrocarbons, anilides, nitrocompounds.

III. Introduction to the use of stereo models:

Methane, Ethane, Ethylene, Acetylene, Cis alkene, Trans alkene, inversion of configuration.

Scheme of Practical Examination:

	Sessionals	Annual
Synopsis	05	15
Major Experiment	10	25
Minor Experiment	03	15
Viva	02	15
Max Marks	20	70
Duration	03 hrs	04 hrs

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

PHD1.5T PHARMACEUTICAL INORGANIC CHEMISTRY (THEORY)

Theory: 2 Hrs. /Week

1. Scope and objectives: This course mainly deals with fundamentals of Analytical chemistry and also the study of inorganic pharmaceuticals regarding their monographs and also the course deals with basic knowledge of analysis of various pharmaceuticals.

2. Course outcomes:

1. To be able to give systematic names to simple organic compounds and poly functional group.
2. To achieve an understanding of the behavior of organic compounds and to establish a foundation for studies into natural and synthetic products of pharmaceutical interest.
3. Describe To acquire the knowledge and understanding of the basic experimental principles of pharmaceutical organic chemistry.
4. To draw the structures and synthesize simple pharmaceutically active organic compounds.
5. To describe detailed mechanisms for common reactions.
6. To be able to run experimental techniques, procedures and safe laboratory practices.

3. Course materials:

Text books:

- a. A text book Inorganic medicinal chemistry by Surendra N. Pandeya
- b. A. H. Beckett and J. B. Stanlake's Practical Pharmaceutical chemistry Vol-I & Vol-II
- c. Inorganic Pharmaceutical Chemistry III-Edition P.Gundu Rao

Reference books

- a. Inorganic Pharmaceutical Chemistry by Anand & Chetwal
- b. Pharmaceutical Inorganic chemistry by Dr. B. G. Nagavi
- c. Analytical chemistry principles by John H. Kennedy
- d. I.P. 1985 and 1996, Govt. of India, Ministry of health

4. Lecture wise programme: Topics:

Unit 1 (10 Hrs)

- A. Errors
- B. Volumetric analysis
- C. Acid-base titrations
- D. Redox titrations

Unit 2 (15 Hrs)

- A. Non aqueous titrations
- B. Precipitation titrations
- C. Complexometric titrations
- D. Theory of indicators

Unit 3 (12 Hrs)

- A. Gravimetry
- B. Limit tests
- C. Medicinal gases
- D. Acidifiers

Unit 4 (13 Hrs)

- A. Antacids
- B. Cathartics
- C. Electrolyte replenishers
- D. Essential Trace elements

Unit 5 (10 Hrs)

- A. Antimicrobials
- B. Pharmaceutical aids
- C. Dental Products
- D .Miscellaneous compounds
- E. Radio Pharmaceuticals

PHD1.5P PHARMACEUTICAL INORGANIC CHEMISTRY (PRACTICAL)

Practical: 3 Hrs./ Week

1) Limit test (6 exercises)

- a) Limit test for chlorides
- b) Limit test for sulphates
- c) Limit test for iron
- d) Limit test for heavy metals
- e) Limit test for arsenic
- f) Modified limit tests for chlorides and sulphates

2) Assays (10 exercises)

- a) a. Ammonium chloride- Acid-base titration
- b) Ferrous sulphate- Cerimetry
- c) Copper sulphate- Iodometry
- d) Calcilugluconate- Complexometry
- e) Hydrogen peroxide – Permanganometry
- f) Sodium benzoate – Nonaqueous titration
- g) Sodium chloride – Modified volhard's method
- h) Assay of KI – KIO₃ titration
- i) Gravimetric estimation of barium as barium sulphate
- j) Sodium antimony gluconate or antimony potassium tartarate

3) Estimation of mixture (Any two exercises)

- a) Sodium hydroxide and sodium carbonate
- b) Boric acid and Borax
- c) Oxalic acid and sodium oxalate

4) Test for identity (Any three exercises)

- a) Sodium bicarbonate
- b) Barium sulphate
- c) Ferrous sulphate
- d) Potassium chloride

5) Test for purity (Any two exercises)

- a) Swelling power in Bentonite
- b) Acid neutralising capacity in aluminium hydroxide gel
- c) Ammonium salts in potash alum
- d) Adsorption power heavy Kaolin
- e) Presence of Iodates in KI

6) Preparations (Any two exercises)

- a) Boric acids
- b) Potash alum
- c) Calcium lactate
- d) Magnesium sulphate

Scheme of Practical Examination:

	Sessionals	Annual
Synopsis	05	15
Major Experiment	10	25
Minor Experiment1&2	03	15
Viva	02	15
Max Marks	20	70
Duration	03 hrs	04 hrs

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

PHD1.6BBT BIOLOGY (THEORY)

Theory: 3 Hrs. /Week

1. Scope and objectives: This is an introductory course in Biology, which gives detailed study of natural sources such as plant and animal origin. This subject has been introduced to the pharmacy course in order to make the student aware of various naturally occurring drugs and its history, sources, classification, distribution and the characters of the plants and animals. This subject gives basic foundation to Pharmacognosy.

2.Course Outcomes:

1. To explain the general organization of plants, including their inclusions, tissues, and classification within the plant kingdom.
2. To analyze the morphology and modifications of plant structures such as roots, stems, leaves, flowers, fruits, and seeds.
3. To compare and classify plant families (Leguminosae, Umbelliferae, Solanaceae, Liliaceae, Zingiberaceae, Rubiaceae) and study microbial organisms like fungi, yeast, and bacteria.
4. To describe the structure and function of animal cells and tissues, emphasizing their role in overall physiology.
5. To assess the anatomical features and adaptations of frogs, fish, reptiles in relation to their ecological niches.
6. To analyze, compare, and evaluate the anatomical features and adaptations of birds, mammals, and poisonous animals, and assess how these traits contribute to their survival and functioning within their ecological functions.

3.Course materials:

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.

4. Lecture wise programme: Topics

Unit-I (15 Hrs)

- Introduction
- General organization of plants and its inclusions
- Plant tissues
- Plant kingdom and its classification

Unit-II (20 Hrs)

- Morphology of plants
- Root, Stem, Leaf and Its modifications
- Inflorescence and Pollination of flowers
- Morphology of fruits and seeds

Unit-III (15 Hrs)

- Plant physiology
- Taxonomy of Leguminosae, umbelliferae, Solanaceae, Lilliacae, Zinziberaceae, Rubiaceae
- Study of Fungi, Yeast, Penicillin and Bacteria

Unit-IV (15 Hrs)

- Study of Animal cell
- Study animal tissues

Unit-V (25 Hrs)

- Detailed study of frog
- Study of Pisces, Reptiles, Aves
- General organization of mammals
- Study of poisonous animals

PHD1.6BBP BIOLOGY (PRACTICAL)

Practical: 3 Hrs./ Week

1. Introduction of biology experiments
2. Study of cell wall constituents and cell inclusions
3. Study of Stem modifications
4. Study of Root modifications
5. Study of Leaf modifications
6. Identification of Fruits and seeds
7. Preparation of Permanent slides
8. T.S. of Senna, Cassia, Ephedra, Podophyllum.
9. Simple plant physiological experiments
10. Identification of animals
11. Detailed study of Frog
12. Computer based tutorials

Scheme of Practical Examination:

	Sessionals	Annual
Identification	04	10
Synopsis	04	10
Major Experiment	07	20
Minor Experiment	03	15
Viva	02	15
Max Marks	20	70
Duration	03hrs	04hrs

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

PHD1.6AMT REMEDIAL MATHEMATICS (THEORY)

Theory: 3 Hrs. /Week

1. Scope and objectives: This is an introductory course in mathematics. This subject deals with the introduction to matrices, determinants, trigonometry, analytical geometry, differential calculus, integral calculus, differential equations, laplace transform.

2. Course Outcomes : –

- a. Know Trigonometry, Analytical geometry, Matrices, Determinant, Integration, Differential equation, Laplace transform and their applications;
- b. solve the problems of different types by applying theory; and
- c. appreciate the important applications of mathematics in pharmacy.

3. Course materials:

Text books

- a. Differential calculus By Shantinakaran
- b. Text book of Mathematics for second year pre-university by Prof.B.M.Sreenivas

Reference books

- a. Integral calculus By Shanthinarayan
- b. Engineering mathematics By B.S.Grewal
- c. Trigonometry Part-I By S.L.Loney

Lecture wise programme : Topics

- 1 **Algebra :** Determinants, Matrices (10hrs)
- 2 **Trigonometry:** Sides and angles of a triangle, solution of triangles(15hrs)
- 3 **Analytical Geometry:**Points, Straight line, circle, parabola(10hrs)
- 4 **Differential calculus:** Limit of a function, Differential calculus, Differentiation of a sum, Product, Quotient Composite, Parametric, exponential, trigonometric and Logarithmic function. Successive differentiation, Leibnitz's theorem, Partial differentiation, Euler's theorem on homogeneous functions of two variables(25hrs)
- 5 **Integral Calculus:** Definite integrals, integration by substitution and by parts, Properties of definite integrals.
Differential equations: Definition, order, degree, variable separable, homogeneous, Linear, heterogeneous, linear, differential equation with constant coefficient, simultaneous linear equation of second order.
Laplace transform: Definition, Laplace transform of elementary functions, Properties of linearity and shifting(30hrs)

PHD1.7T HUMAN VALUES AND PROFESSIONAL ETHICS (THEORY)

Theory: 2 Hrs. /Week

1. **Scope & Objectives:** To gain knowledge on human values and ethics. To facilitate the development of a Holistic perspective among students towards safety risk management, rights and responsibilities. To appreciate Holistic understanding of human conduct on professional ethics

2. Course Outcomes : –

Conceptual understanding:

1. Define and explain key human values like truth, non-violence, justice, and empathy.
2. Differentiate between personal values, societal values, and professional ethics.
3. Analyze the historical and philosophical context of human values.

3. Course Material:

Reference books:

1. R.R Gaur, R Sangal, G P Bagaria, A foundation course in Human Values and professional Ethics, Excel books, New Delhi, 2010, ISBN 978-8-174-46781-2
2. B L Bajpai, 2004, Indian Ethos and Modern Management, New Royal Book Co., Lucknow. Reprinted 2008.
3. PL Dhar, RR Gaur, 1990, Science and Humanism, Commonwealth Publishers.
4. Susan George, 1976, How the Other Half Dies, Penguin Press. Reprinted 1986, 1991
5. Ivan Illich, 1974, Energy & Equity, The Trinity Press, Worcester, and HarperCollins, USA

Relevant websites

6. Value Education websites, <http://uhv.ac.in>, <http://www.uptu.ac.in>
7. IIT Delhi, Modern Technology – the Untold Story
8. Gandhi A., *Right Here Right Now*, Cyclewala Productions.
9. Value Education websites, <http://uhv.ac.in>, <http://www.uptu.ac.in>
10. Gandhi A., *Right Here Right Now*, Cyclewala Productions

4. Lecture wise programme: Topics

UNIT 1: 7 Hrs

Introduction - Need, Basic Guidelines, Content and Process for Value Education

Need, basic guidelines, content and process for Value Education, Self-Exploration, Experiential Validation- as the mechanism for self-exploration, Continuous Happiness and Prosperity, A critical appraisal of the current scenario, Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

UNIT 2: 8 Hrs

Understanding Harmony in the Human Being - Harmony in Myself!

Understanding human being as a co-existence of the sentient 'I' and the material 'Body', Understanding the needs of Self ('I') and 'Body', Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer), Understanding the characteristics and activities of 'I' and harmony in 'I', Understanding the harmony of I with the Body: *Sanyam* and *Swasthya*; correct appraisal of Physical needs, meaning of Prosperity in detail.

UNIT 3: 5 Hrs**Understanding Harmony in the Family and Society- Harmony in Human- Human Relationship**

Understanding Harmony in the family – the basic unit of human interaction, Visualizing a universal harmonious order in society- Undivided Society (*AkhandSamaj*), Universal Order (Sarvabhaum Vyawastha)- from family to world family!

UNIT 4: 5 Hrs**Understanding Harmony in the Nature and Existence - Whole existence as Co-existence**

Understanding the harmony in the Nature, Interconnectedness and mutual fulfillment among the four orders of nature-recyclability and self-regulation in nature, Understanding Existence as Co-existence (*Sah-astitva*) of mutually interacting units in all-pervasive space, Holistic perception of harmony at all levels of existence.

UNIT 5: 5 Hrs**Implications of the above Holistic Understanding of Harmony on Professional Ethics**

Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order, Competence in professional ethics, Strategy for transition from the present state to Universal Human Order



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Pharm D Program Outcomes (POs)

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

PO 1	Pharmaceutical and clinical Knowledge: Demonstrate proficiency and application of fundamental knowledge and skills with regard to advancing pharmaceutical, pharmacotherapeutic, biomedical, epidemiological, clinical and social-administrative sciences which embraces competence in the fields of pharmacy practice.
PO 2	Drug Development and Research (Planning abilities and Leadership skills): Achieve thorough knowledge in principles of drug development, drug approval, data management skills, research methodology by application of appropriate resources and modern pharmacy-related computing tools.
PO 3	Problem solving and decision making: Develop problem-based learning approach and demonstrate the ability to utilize observational, analytical and critical thinking skills to foster, implement and evaluate solutions that solve pharmacotherapy problems and render the ability to make defensible decisions centred on evidenced based practice.
PO 4	Social and cultural competence in health care: To identify social determinants of health and respect patients' cultural and religious perceptions, create awareness in society about effective and safe use of medicines and thereby improve pharmaceutical care
PO 5	Professionalism: Understand, analyse and communicate the value of their professional roles in society through demonstration of professional behavior, ethical behavior, integrity and values while interacting with patients, healthcare providers and society.
PO 6	Innovation and entrepreneurship: Develop innovative technologies and pharmaceuticals by using creative thinking to optimize patient's health-related quality of life and achieve positive clinical outcomes, within realistic economic expenditures
PO 7	Confidentiality and professional ethics: Honor personal values and apply ethical principles in professional and social contexts. Practice ethically, safeguarding patient confidentiality, function in response to errors in care and professional misconduct, and appreciate principles of ethical research
PO 8	Interpersonal and communication skills: Achieve excellence in interpersonal education demonstrated through effective communication 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	Clinical pharmacist and society: Apply reasoning informed by the contextual knowledge to assess societal health care needs and demonstrate effective planning abilities in order to solve problems related to quality assured healthcare practice.
PO 10	Environment and sustainability: Understand the impact of professional pharmacy solution in societal and environmental context and demonstrate the knowledge and need of sustainable development.
PO 11	Continuing professional development: Self-assess, practice, maintain and broaden competence in one's own patient care and pharmacy services being aware of the fast evolution of knowledge and the professional responsibilities needed to provide high quality pharmaceutical care.

Pharm D Program Specific
Outcomes (PSOs) Upon the completion of
the program, a graduate is able to

S.No	Program Specific Outcomes (PSO)
PSO 1	To comprehend different drug distribution procedures, know the professional practice management skills in hospital pharmacies.
PSO 2	To impart unbiased and reliable information to all the stakeholders of health, apply the acquired knowledge of drug administration, dispensing and distribution of molecules using appropriate practice-based research methods, and appreciate stores management as well as inventory control
PSO 3	To design personalized therapeutic strategies based upon the diagnosis, thorough identification of options, observing treatment, final laboratory and clinical indices of therapeutic response as well as adverse effects.
PSO 4	To render the services to the community by providing patient-centric effective therapies in order to curtail the therapeutic issues with the evidence based medicines and explicate the drug effects by review and analysis of scientific literature for improving their health and well-being

Pharm D Program Educational Objectives (PEOs)

PEO 1	To provide a comprehensive pharmaceutical education in core subjects of pharmaceuticals, pharmaceutical chemistry, epidemiological, clinical and social-administrative sciences which embrace competence pharmacotherapeutics, biomedical, in the fields of pharmacy practice.
PEO 2	To train students through state of art infrastructure to meet challenges of patient- centered care and provide hands on training to integrate knowledge and skills with clinical research to promote health care.
PEO 3	To have effective written and verbal communication skills, develop better interaction with other health care professionals, appreciate the role of health care education in the development of society and on mankind's welfare.
PEO 4	To inculcate innovation and research, critical thinking, scientific temperament, ensure proficiency in formulation, analysis, testing and validation of drugs and pharmaceuticals.
PEO 5	To develop managerial skills, leadership skills, professional ethics, ethics of research, socio-environmental consciousness and be responsible to serve the society as a pharmacist, employer, entrepreneur and achieve excellence in all spheres of life-long 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



Kommareddy Venkata Sadasiva Rao

Siddhartha College of Pharmaceutical Sciences

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Web: www.kvsrsiddharthapharma.edu.in

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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VRSP**