



Dr. K.V. Subba Reddy Institute of Pharmacy

(Approved by AICTE, P.C.I. New Delhi & Permanently Affiliated to JNTUA Anantapuramu,
MOU with Government General Hospital & KMC, Kurnool)
Recognized Under Section 2(f) and 12(B) of UGC Act 1956
Opp : Dupadu R.S., N.H - 44, KURNOOL - 518 218, A.P. INDIA.
E-mail : principalkvsrip@gmail.com www.drkvsrip.ac.in

2.6.1: Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

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DISPLAY OF INSTITUTE VISION & MISSION AT THE ENTRANCE

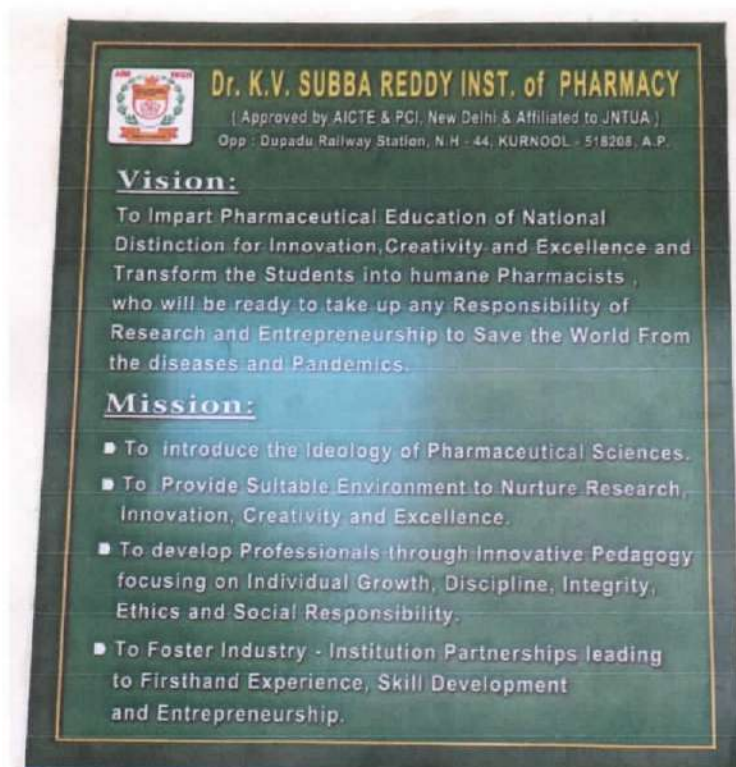


Fig 1: Entrance of College

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DISPLAY OF PHARM.D DEPARTMENT, POs & PSOs

Cell : 9704 333 789, 9177287508, 7660003344
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PROGRAMME OUTCOMES
PHARMA D

PO 1 **Pharmacy Knowledge:** Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences, pharmaceutical sciences, behavioral, social, and administrative pharmacy sciences, and manufacturing practices.

PO 2 **Planning Abilities:** Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.

PO 3 **Problem analysis:** Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.

PO 4 **Modern tool use:** Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.

PO 5 **Leadership skills:** Understand and consider the human reaction to change, motivation issues, leadership and team-building, when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.

PO 6 **Professional identity:** Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).

PO 7 **Pharmaceutical Ethics:** Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks, apply ethical principles while making decisions, and take responsibility for the outcomes associated with the decisions.

PO 8 **Communication:** Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.

PO 9 **The Pharmacist and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.

PO 10 **Environment and sustainability:** Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 11 **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

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PROGRAMME SPECIFIC OUTCOMES (PSO'S)
PHARM.D PROGRAMME

01 To understand various drug distribution methods, know the professional practice management skills in hospital pharmacies.

02 To provide unbiased and authentic informations to all the stakeholders of health, appreciate practice-based research methods, and appreciate stores management and inventory control.

03 To prepare personalized therapeutic strategies based on diagnosis, through identification of options, observing treatment, time-course of clinical and laboratory indices of therapeutic response and adverse effects.

04 To explicate patient care in performing medication history, interpretations of laboratory data, categorizing potential-medicine related impacts of Pharmacotherapy.

05 To understand the clinical aspects of drug development, such as phases, ethical issues, and roles and responsibilities of clinical trial personnel and able to design clinical study documents, data management and safety monitoring in clinical trials.

06 To render the services to the public by providing patient centric effective treatments to curb the therapeutic issues with the required medicines and explain the effects of the drugs by analyzing the scientific literature for improving their health and well-being.

DISPLAY OF B.PHARMACY DEPARTMENT, POs & PSOs

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PROGRAMME SPECIFIC OUTCOMES (PSO'S)
B PHARMACY

- 1. Scientific Thinking :** Enable student's knowledge in scientific perception to understand the concepts and to solve the problems positively while making pharmaceutical formulations.
- 2. Analytical Skills :** Assimilate and develop analytical skills using advanced equipment to design and evaluate pharmaceutical products, also to assess their quality.
- 3. Resource Management :** Utilize and manage resources from natural, semi synthetic and synthetic origin to develop real time products with utmost benefit and safety.
- 4. Public Health Care :** Promote and empower the healthy living in the community by various means of awareness and health strategies.
- 5. Entrepreneurship :** Acquire and develop entrepreneurship and administration skills to establish community pharmacy, learning and training centers for the long term well being of society.

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PROGRAMME OUTCOMES
B. PHARMACY

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DISPLAY OF CO'S IN LAB



Fig 3: Display Of Medicinal Chemistry-III CO'S in Chemistry lab

DISPLAY OF INSTITUTE VISION & MISSION (College Website)

← → ↻ 🏠 🔒 Not secure | drkvsri.ac.in/Vision%20and%20Mission.html

HOME ABOUT US ADMISSIONS DEPARTMENTS CAMPUS LIFE PLACEMENTS CONTACT 🔍

Vision and Mission

Our vision

To impart Pharmaceutical Education of National distinction for Innovation, Creation and Excellence and transform the Students into Humane Pharmacists who will be ready to take up any responsibility of Research and Entrepreneurship to save the world from the diseases and Pandemics.

Our Mission

To introduce the ideology of Pharmaceutical Sciences
To provide suitable environment to nurture Research, Innovation, Creativity Excellence and Knowledge simultaneously.
To develop professionals through innovative pedagogy focusing on individual growth, discipline, integrity, ethics and social responsibility.
To foster Industry-Institution partnership leading to firsthand experience, skill development and entrepreneurship.

Fig 4. Display of Institute Vision and Mission on College Website

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DISPLAY OF PO's and CO's (College Website)

The screenshot displays a web browser interface with the URL drkvsrb.ac.in/CO'S%20&%20PO'S.html. The navigation menu includes HOME, ABOUT US, ADMISSIONS, DEPARTMENTS, CAMPUS LIFE, PLACEMENTS, and CONTACT. The main content area features a blue pyramid graphic with two levels: 'UNDERSTAND' and 'REMEMBER'. To the right, under the heading 'SCHEDULE, SKETCH', there are two light blue boxes. The first box is titled 'Explain ideas or concepts' and lists actions: 'Classify, discribe, discuss, explain, identify, locate, recognize, report, select, translate'. The second box is titled 'Recall facts and basic concepts' and lists actions: 'define duplicate, list, memorise, repeat, state'. Below this, there are three orange buttons: 'Programme Out Comes', 'Programme Specific Out comes', and 'Programme Educational Out Comes'. Underneath these are three blue buttons: 'B.Pharm', 'M.Pharm', and 'Pharm D'.

Fig 5. Display of Institute PO's and CO's on College Website

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SAMPLE COURSE OUTCOMES (COs)

B.PHARMACY

I Year I Semester

Course Name: Pharmaceutics – I

Year of Study: 2019-20, 2020-21 & 2021-22

Course Code	Course Outcome
C103.1	Describe the history of pharmacy profession and its scope.
C103.2	Identify the prescription in a professional manner.
C103.3	Describe the basics of Pharmaceutical calculations & calculate the dose for a drug.
C103.4	Discuss about various dosage forms.
C103.5	Identify and suggest the correction methods in pharmaceutical incompatibilities in prescription.

I Year II Semester

Course Name: Human Anatomy and Physiology – II

Year of Study: 2019-20, 2020-21 & 2021-22

Course Code	Course Outcome
C201.1	Identify the basic knowledge about central nervous system including nervous tissue, brain and spinal cord.
C201.2	Understand the structure and functions of gastrointestinal tract and to learn about ATP/CTP/BMR..
C201.3	Understand structure and functions of respiratory system and various mechanisms involved in regulation of respiration.
C201.4	Analyse the anatomy of urinary system and physiology of urine formation/micturition..
C201.5	Analyse the essentiality of endocrine glands and their hormones.
C 201.6	Learn the physiology of male and female reproductive organs and concepts of genetics

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II Year I Semester

Course Name: Pharmaceutical Organic Chemistry – I

Year of Study: 2020-2021,2021-22

Course Code	Course Outcome
C301.1	Explain the concept of orbital picture, resonance, reactions and effects of substituent's of benzene.
C301.2	Understand on acidity, effect of substituent's, reaction and qualitative test of phenols.
C301.3	Demonstrate basicity, effect of substituent's, reaction of aromatic amines.
C301.4	Reproduce the concept of optical isomerism and geometrical isomerism of organic compounds. Including concept of resolution of racemic modifications.
C301.5	Describe the synthesis, reactions, structure and medicinal uses of some polynuclear hydrocarbons.

III Year I Semester

Course Name: Pharmacognosy and Phytochemistry – II

Year of Study: 21-22

Course Code	Course Outcome
C504.1	Know the basic metabolic pathways and formation of different secondary metabolites through various biosynthetic pathways.
C504.2	Understand the utilization of radioactive isotopes in the investigation of biogenetic studies.
C504.3	Understand the basic techniques like spectroscopy, chromatography and electrophoresis in the isolation, purification and identification of crude drugs.
C504.4	Learn the isolation, identification and analysis of phytoconstituents.
C504.5	Explain the source, chemistry, therapeutic uses and commercial applications of various secondary metabolites containing drugs.
C504.6	Discuss the method for industrial production, estimation and utilization of some therapeutically important phytoconstituents.

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IV Year I Semester

Course Name: Grid & Cloud Computing-C402

Year of Study: 2018-19

C704.1	List the Various Approaches for Development of Novel Drug Delivery Systems.
C704.2	Review Different Types of Oral Controlled Drug Delivery System.
C704.3	Recite Knowledge on Transdermal Drug Delivery Systems.
C704.4	Evaluate various approaches for the development of targeted drug delivery systems.
C704.5	Describe about Mucoadhesive Delivery Systems and Their Significance.

IV Year II Semester

COURSE NAME: Novel Drug Delivery Systems

Year of Study: 21-22

Course Code	Course Outcome
C409.1	Define the fundamentals of Mobile ad-hoc Networks.
C409.2	Understand and be able to use mobile computing more effectively.
C409.3	Apply different routing technologies for designing a routing protocol.
C409.4	Understand the MANETs and WSNs for industry and research point of views.
C409.5	Identify and describe various types of applications for MANETs and WANS.

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Opp. Directorate of Pharmacy
Dupadu R.S. N.H.-44,
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PHARM.D

I Year

COURSE NAME: Medicinal Biochemistry

Year of Study:17-18,18-19,19-20,20-21,21-22

Course Code	Course Outcome
C103.1	Describes the cell organization, catalytic activity of enzymes and importance of isoenzymes in diagnosis of diseases.
C103.2	Illustrates the metabolic process of biomolecules in health and illness (metabolic disorders).
C103.3	Explains the genetic organization of mammalian genome; protein synthesis; replication; mutation and repair mech
C103.4	Describe the biochemical principles of organ function tests of kidney, liver and endocrine gland.
C103.5	Demonstrate the qualitative analysis and determination of biomolecules in the body fluids.

II Year

COURSE NAME: Pharmacology-I

Year of Study:18-19,19-20,20-21,21-22

Course Code	Course Outcome
C204.1	Demonstrate the basics of pharmacodynamics, adverse reaction, drug interaction and drug discovery.
C204.2	Explain the role of neurohumoral transmission and drugs acting on peripheral nervous system.
C204.3	Distinguish the function of neurotransmitters and drugs acting on central nervous system.
C204.4	Identify the role of autocooids and related drugs.
C204.5	Classify and explain the pharmacology of drugs acting on various systems.
C204.6	Explain the physiological role of sex hormones and to assess the effect of oral contraceptives.

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III Year

COURSE NAME: Pharmaceutical Analysis

Year of Study: 19-20,20-21,21-22

Course Code	Course Outcome
C302.1	Understand the importance of Regulatory authorities like GLP, ISO, TQM and Validation Guidelines involved in Pharmaceutical Analysis and various methods to ensure the Quality assurance of Drug and formulation.
C302.2	Discuss the Application of Chromatography technique like TLC, Paper Chromatography and Electrophoresis used in analysis of Pharmaceuticals.
C302.3	Examine the application of electrometric method utilized in analysis of drugs and Pharmaceuticals.
C302.4	Illustrate the Principle, Instrumentation and application of various spectroscopic techniques involved in Analysis of Drug and Pharmaceuticals.
C302.5	Instruct theoretical knowledge on various hyphenated instrumental techniques adopted for analysis of Pharmaceuticals.
C302.6	Describe the fundamental principles and applications of Flame photometry, X-ray diffraction, atomic emission and atomic absorption spectroscopy.

V Year

COURSE NAME: Clinical Pharmacy

Year of Study:21-22

Course Code	Course Outcome
C403.1	Explain the roles and responsibilities of clinical pharmacist.
C403.2	Analyze and interpret the laboratory test results for clinical diagnosis.
C403.3	Conduct interview to elicit medication history and perform patient counseling.
C403.4	Identify, monitor, assess, manage, prevent, document and report suspected adverse drug reactions.
C403.5	Provide drug and poison information through critical analysis.
C403.6	Recognize the potential sources of medication errors and act for its prevention.

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MAPPING OF COS AND POS

B.Pharmacy Program Outcomes

PO1 :	Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
PO2 :	Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines
PO3 :	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and elucidation of data and synthesis to provide valid conclusions.
PO4 :	Problem analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions
PO5 :	Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations
PO6 :	Leadership skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing
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PO11 :	Environment and sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
PO12 :	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis

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Course Name: Human Anatomy and Physiology - I (Theory); Course code: BP101T, Year of Study: 1st B.Pharmacy 1st Semester

S. No.	Course Outcomes (CO)	Knowledge Level (Blooms Level)
C101.1	Students would identify the gross morphology, structure and functions of cell, skeletal, muscular, cardiovascular system of the human body	L1: Remember L3: Apply
C101.2	They would understand the various homeostatic mechanisms and their imbalances	L2: Understand L3: Apply L4: Analyse
C101.3	Students would be able to identify the different types of bones and joints in human body	L2: Understand L3: Apply L4: Analyse
C101.4	Students would be able to analyse the various tissues of different systems of human body	L2: Understand L4: Analyse
C101.5	Student will able to analyze the Cardiovascular system	L2: Understand L4: Analyse
C101.6	They would have learnt various techniques like blood group determination, blood pressure measurement, blood cells counting	L2: Understand L4: Analyse

Bloom's Taxonomy: L1: Remember; L2: Understand; L3: Apply; L4: Analyse; L5: Evaluate; L6: Create



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How program outcomes are assessed:

LEVEL: 1- Slight (Low), 2- Moderate(Medium), 3- Substantial(High)

Program Outcome		Level	Proficiency assessed by
PO1:	Pharmacy Knowledge	2	Assignments/ Internals/Viva
PO2:	Planning Abilities	1	Assignments/ Internals
PO3:	Conduct Investigations of Complex Problems	1	Assignments/ Internals/ Practicals
PO4:	Problem Analysis	2	Assignments/ Internals
PO5:	Modern Tool Usage	2	Seminars/academic activities
PO6:	Leadership Skills	1	Group discussion / Role play
PO7:	Professional Identity	2	Group discussion
PO8:	Pharmaceutical Ethics	2	Personality development seminars
PO9:	Communication	3	Students' seminars/ student - teacher interaction
PO10:	Environment And Sustainability	2	Students' seminars
PO11:	Environment And Sustainability	2	Students' seminars
PO12:	Life-Long Learning	2	Assignments/ Internals

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Mapping of COs AND POs

Course Name: Human Anatomy and Physiology - I (Theory); Course code: BP101T, Year of Study: 1st B.Pharmacy 1st Semester

Th.	T	C
3	1	3

Course Designers: JNTUA University

Faculty Name: B Aruna

Step 1: Course Outcomes

	Course Outcome	POs	Class Sessions
C101.1	Students would identify the gross morphology, structure and functions of cell, skeletal, muscular, cardiovascular system of the human body	PO1	10
C101.2	They would understand the various homeostatic mechanisms and their imbalances and special senses.	PO3	08
C101.3	Students would be able to identify the different types of bones and joints in human body	PO4, PS03	12
C101.4	Students would be able to analyse the various tissues of different systems of human body	PO3	10
C101.5	Student will able to analyze the Cardiovascular system and lymphatic system.	PO1	12
C101.6	They would have learnt various techniques like blood group determination, blood pressure measurement, blood cells counting	PO3	14
	Total Hours of instruction		66

Step 2: CO – PO matrix

22 of 66 (33.33%) sessions are CONTRIBUTE to PO1, Course Level PO1 mapping strength is 2.
 32 of 66 (48.48%) sessions are CONTRIBUTE to PO3, Course Level PO3 mapping strength is 3.
 12 of 66 (18.18%) sessions are CONTRIBUTE to PO4, Course Level PO4 mapping strength is 1.

Step 3: CO – PSO matrix

12 of 66 (18.18%) sessions are CONTRIBUTE to PSO3, Course Level PSO3 mapping strength is 1.

Mapping Strength Scale:

=>40%	=>20% & <40%	=>5% & <20%	<5%
3	2	1	0

COs and POs/PSOs mapping strengths table:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
COs	2	2	1				1	2		1		1	0	0	1

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Program level Course-PO matrix of all courses INCLUDING first year courses

R-19 REGULATIONS
(2019,2020,2021 Batch)

S.No	Type	Course Code	Course Name	Credits	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I																
1	Theory	C101	Human Anatomy and Physiology	4	2	2	1				1	2		1		1
2	Theory	C102	Pharmaceutical Analysis - I	4	2	3	2	1							1	1
3	Theory	C103	Pharmaceutics - I	4	2	2	1	1	2						2	2
4	Theory	C104	Pharmaceutical Inorganic Chemistry	4	2	3	1	2	2							1
5	Theory	C105	Communication Skills	2	2	2	1	1	1	1				1		1
6	Theory	C106	Remedial Biology	2	2	2	1		1		1	2		1		1
7	Theory	C106	Remedial Mathematics	2	2	3	1	1	2							1
8	Lab	C107	Human Anatomy and Physiology Lab	2	2	2	2	1	2						2	1
9	Lab	C108	Pharmaceutical Analysis - I Lab	2	2	3	1	1	2							1
10	Lab	C109	Pharmaceutics - I Lab	2	2	2	2	1	2						2	1
11	Lab	C110	Pharmaceutical Inorganic Chemistry Lab	2	2	2	1	2	1							1

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12	Lab	C111	Communication Skills Lab	1	2	2	2	2	2	1	1								1
13	Lab	C112	Remedial Biology Lab	1	2	2	2	1	1	1	2								1

II

14	Theory	C201	Human Anatomy and Physiology – II	4	2	2	2	1			1	2						1
15	Theory	C202	Pharmaceutical Organic Chemistry – I	4	2	2	2	1	1	1								1
16	Theory	C203	Biochemistry	4	2	2	2	1	1	1	2							1
17	Theory	C204	Pathophysiology	4	2	2	2	1	2	1								1
18	Theory	C205	Computer Application in Pharmacy	3	2	1	1	1		2	2	1						1
19	Theory	C206	Environmental Sciences	3	2	2	2	1	1	1	2							1
20	Lab	C207	Human Anatomy and Physiology – II	2	2	2	2	1	2	1								1
21	Lab	C208	Pharmaceutical Organic Chemistry – I	2	2	2	2	1	2	1	1	1						1
22	Lab	C209	Biochemistry	2	2	2	2	1	2	1								1
23	Lab	C210	Computer Application in Pharmacy	1	2	2	2	1	2	1								1

III

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24	Theory	C301	Pharmaceutical Organic Chemistry – II	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
25	Theory	C302	Physical Pharmaceutics – I	4	1	1	1	1	1	2									1
26	Theory	C303	Pharmaceutica I Microbiology	4	1	1	1				1	2	1	1	1	1			1
27	Theory	C304	Pharmaceutic al Engineering	4															1
28	Lab	C305	Pharmaceutical Organic Chemistry – II	2							1	1	2	1	1	1			1
29	Lab	C306	Physical Pharmaceutics – I	2	1	2	1	1	1		1	2	2	2	1	1	1	1	1
30	Lab	C307	Pharmaceutica I Microbiology	2	2	2	1	1	1	2			1	2	2	2			1
31	Lab	C308	Pharmaceutic al Engineering	2	2	1	1	1	1	1	1	1	2	2	1	1			1
IV																			
32	Theory	C401	Pharmaceutical Organic Chemistry – III	4	2	1	1	1	1	2	1		1	2	1				1
33	Theory	C402	Medicinal Chemistry – I	4	2	1	2	2	1										2
34	Theory	C403	Physical Pharmaceutics – II	4	2	1	1	1	1	1			2						
35	Theory	C404	Pharmacology – I	4	2	1	1	1	1	1			1	1	1				1
36	Theory	C405	Pharmacognosy and	4	2	2	1	1	1	2			2		2				2

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			Phytochemistry – I																
37	Theory	C406	Medicinal Chemistry – I	2	2	2	1	1											
38	Lab	C407	Physical Pharmaceutics – II	2	2	2	1	2	2									1	
39	Lab	C408	Pharmacology – I	2	2	2	2	2	2										2
		C409	Pharmacognosy and Phytochemistry – I																
40	Lab		Phytochemistry – I	2	2	2				1	2								1
V																			
41	Theory	C501	Medicinal Chemistry-II	4	2	1	2	1	2	1	2	2	1	2	2	1		2	2
42	Theory	C502	Industrial Pharmacy – I	4	2	2	1	1	1	1	1					1	2		2
43	Theory	C503	Pharmacology – II	4	2	2	2	2	2	1	2	1	2	1					2
		C504	Pharmacognosy and Phytochemistry – II																
44	Theory			4	2	1	1	1	2	1	1	2	2				2		1
45	Theory	C505	Pharmaceutical Jurisprudence	4	2	2	2	2	2							1	2		1
46	Lab	C506	Industrial Pharmacy – I	2	2	2	1	2	1										2
47	Lab	C507	Pharmacology – II	2	2	2	2	3	3	1	1	1	1						
		C508	Pharmacognosy and Phytochemistry – II																
48	Lab			2	2	2	3	1	2										2

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VI													
49	Theory	C601	Medicinal Chemistry – III	4	2	2	2	2	1	2	2	2	
50	Theory	C602	Pharmacology – III	4	2	2	1	2	2	1		2	
51	Theory	C603	Herbal Drug Technology	4	2	2	2	2	1		1	2	
52	Theory	C604	Biopharmaceutics and Pharmacokinetics	4	2	1	1	2	2	1		1	
53	Theory	C605	Pharmaceutical Biotechnology	4	2	2	1	2	2			2	
54	Theory	C606	Quality Assurance	4	2	2	1			1	2	1	
55	Lab	C607	Medicinal Chemistry – III	2	2	3	2	2	3			3	
56	Lab	C608	Pharmacology – III	2	2	2	2	2	3			3	
57	Lab	C609	Herbal Drug Technology	2	2	1	2	1	2		1	1	
VII													
58	Theory	C701	Instrumental Method of Analysis	4		2	1			2	2	2	1
59	Theory	C702	Industrial Pharmacy – II	4	1	1	2	1	2		1		1
60	Theory	C703	Pharmacy Practice	4	2	1	2	2	2	2	1		1

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61	Theory	C704	Novel Drug Delivery System	4	1	2	2	1	2	1		1	1		1
	Lab	C705	Instrumental Method of Analysis	2	2	2	2	1	2	2	1	1	1	2	2

IV-II

63	Theory	C801	Biostatistics and Research Methodology	4	2	3	3	2	2	1	2	2	2	3	3	
64	Theory	C802	Social and Preventive Pharmacy	4	2	2	3	2	2	2	2	2	3	2	3	
Contribution of the program(all courses)					1.77	1.81	1.52	1.42	1.71	1.50	1.41	1.69	1.92	1.31	1.64	1.45
% Contribution of the program(all courses)					59.14	60.22	50.54	47.17	57.14	50.00	47.06	56.41	63.89	43.75	54.55	48.21

Note:*

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) *If there is no correlation, put "-"*

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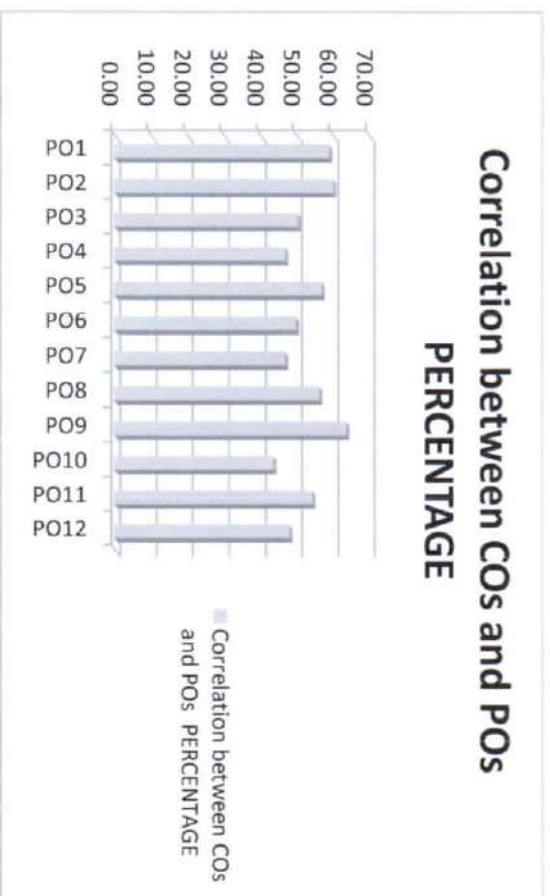


Fig 2.1 : Correlation between COs and POs (R19 Regulations)

R-17 REGULATIONS
(2017 Batch)

Sno	Type	Course Code	Course Name	I YEAR													
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
1	THEORY	C101	Human Anatomy and Physiology	2	3				2						3		2
2	THEORY	C102	Pharmaceutics	2	2	2	2	2			2	1			2		2
3	THEORY	C103	Medicinal Biochemistry	2	3	2	2	2			2	1			2		2
4	THEORY	C104	Pharmaceutical Organic Chemistry	2	2	2	2	2									2
5	THEORY	C105	Pharmaceutical Inorganic Chemistry	2	2	2	2	2	3	1			2				2
6	THEORY	C106 A	Remedial Mathematics	2	2	2	2	2									2
7	THEORY	C106 B	Remedial Biology	2	2	2	2	1	2								2
8	LAB	C107	Human Anatomy and Physiology	2	3	2	2	2	3	2					2		2
9	LAB	C108	Pharmaceutics	2	3	2	2	2	2		2	1			2		2
10	LAB	C109	Medicinal Biochemistry	2	3	2	2	2	3	2					2		2

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11	LAB	C110	Pharmaceutical OrganicChemistry	2	2			2						2					2
	LAB	C111	Pharmaceutical InorganicChemistry	2	3	2	2	3	2				2	2	2				2
12																			
13	LAB	C112	Remedial Biology	2	2	2		2		2	1			2					2
II YEAR																			
12	THEORY	C201	Pathophysiology	1	2	1	1	2						1					1
13	THEORY	C202	Pharmaceutical Microbiology	2	2	2	1												2
			Pharmacognosy & Phytopharmaceutica ls	2	1		2	1	2	1		2	1						1
14	THEORY	C203																	
15	THEORY	C204	Pharmacology-I	1	1	2	1	2					1						1
16	THEORY	C205	Community Pharmacy	2	2	2	1	1	1										2
17	THEORY	C206	Pharmacotheapeuti cs-I	2	2	2	1	2			2								2
18	LAB	C207	Pharmaceutical Microbiology	2	2	2	2	2					1						2
			Pharmacognosy & Phytopharmaceutica ls	2	2	2	2	2					2						2
19	LAB	C208																	
20	LAB	C209	Pharmacotheapeuti cs-I	2	2	1	1	1	1		1								2
III YEAR																			
21	THEORY	C301	Pharmacology-II	2	2	1	1												2
22	THEORY	C302	Pharmaceutical Analysis	2	2	1	1	2	1										2
23	THEORY	C303	Pharmacotheapeuti	2	2	2	2	2	2	1				1					2

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			cs-II															
24	THEORY	C304	Pharmaceutical Jurisprudence	2	2	2	2	2	2	2	2	1		1				2
25	THEORY	C305	Medicinal Chemistry	2	2	1	1	1	1									2
26	THEORY	C306	Pharmaceutical Formulations	2	2	2	2	2	2		1		1					2
27	LAB	C307	Pharmacology-II	3	2	2	2	2	2	2	2			2				2
28	LAB	C308	Pharmaceutical Analysis Lab	2	3	2	2	2	3	2							2	2
29	LAB	C309	Pharmacootherapeuti cs-II	2	2	1	2	2			2		2					2
30	LAB	C310	Medicinal Chemistry	1	1	2	1	2	2		1							1
31	LAB	C311	Pharmaceutical Formulations	2	2	3	2	2	2			1	1					2

IV SEMESTER

32	THEORY	C401	Pharmacootherapeuti cs-III	1	1	2	1	2	2		1							2
33	THEORY	C402	Hospital Pharmacy	1	2	2	2	2	2									2
34	THEORY	C403	Clinical Pharmacy	1	2	2	2	2	2	2	1			1				1
		C404	Biostatistics & Research															
35	THEORY		Biostatistics & Research Methodology	2	2	2	2	2	1	2	2	2					2	2
36	THEORY	C405	Biopharmaceutics & Pharmacokinetics	1	1	2	1	2	2	1			1					1
37	THEORY	C406	Clinical Toxicology	1	1	2	1			2			1				2	2
38	LAB	C407	Pharmacootherapeuti cs-III	1	1	2	1	2	2		1							1
39	LAB	C408	Hospital Pharmacy	2	2	3	2	2	2									2

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		V YEAR													
40	LAB	C409	Clinical Pharmacy	2	2	2	1	2						2	1
41	LAB	C410	Biopharmaceutics & Pharmacokinetics	2	2	2	2	2	2				2	2	3
42	THEORY	C411	Pharmacotherapeutics I & II	1	1	2	1	1	1	1			1	1	2
43	LAB	C412	Pharmacotherapeutics I & II	1	2	1	1	2					1		2
38	THEORY	C501	Clinical Research Pharmacoeconomics and Pharmacoeconomics	1	1	1	2	1						1	2
39	THEORY	C502	Clinical Pharmacokinetics & Pharmacotherapeutics Drug Monitoring	1	2	1	1	2				1			2
40	THEORY	C503		1	1	2	1	1							1
Contribution of the program(all courses)				1.64	1.82	1.81	1.70	1.84	1.60	1.69	1.50	1.44	1.80	1.64	1.78
% Contribution of the program(all courses)				54.6	60.7	60.4	56.8	61.3	53.3	56.4	50.0	48.0	60.0	54.8	59.2

Note:*

2. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) If there is no correlation, put "-"

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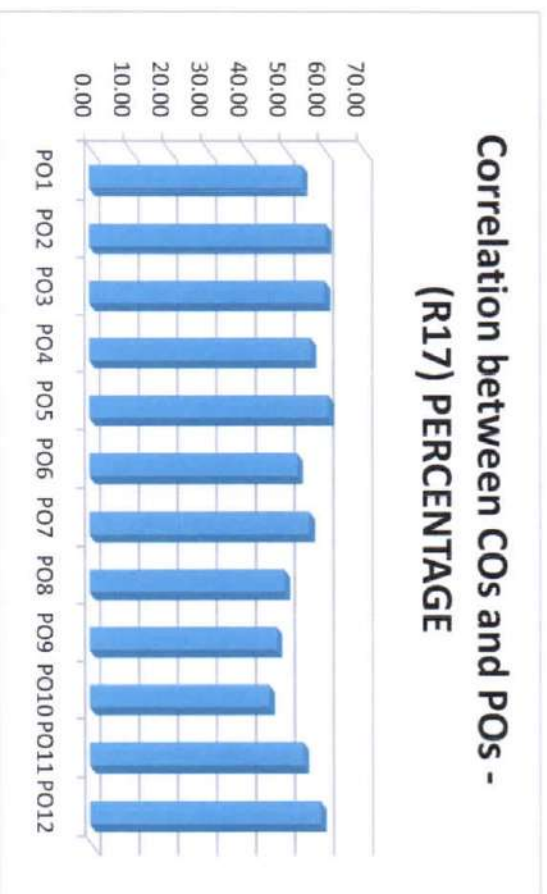


Fig 2.2: Correlation between COs and POs (R17 Regulations)

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**R-19 REGULATIONS
(2019 Batch)**

S.No	Type	Course Code	Course Name	Credits	PSO1	PSO2	PSO3
I-I							
1	Theory	C101	Human Anatomy and Physiology	4	1		
2	Theory	C102	Pharmaceutical Analysis – I	4			1
3	Theory	C103	Pharmaceutics – I	4	2	2	1
4	Theory	C104	Pharmaceutical Inorganic Chemistry	4	2		
5	Theory	C105	Communication Skills	2	1		
6	Theory	C106	Remedial Biology	2	1		
7	Theory	C107	Remedial Mathematics	2	2		
8	Lab	C108	Human Anatomy and Physiology	2	2	2	1
9	Lab	C108	Pharmaceutical Analysis – I Lab	2	2	2	
10	Lab	C109	Pharmaceutics – I Lab	2	1	2	1
11	Lab	C110	Pharmaceutical Inorganic Chemistry Lab	2	2		
12	Lab	C111	Communication Skills Lab	1	2		
13	Lab	C112	Remedial Biology Lab	1	1		
II							
14	Theory	C201	Human Anatomy and Physiology – II	4			1
15	Theory	C202	Pharmaceutical Organic Chemistry – I	4	2	2	1
16	Theory	C203	Biochemistry	4	2		
17	Theory	C204	Pathophysiology	4		1	
18	Theory	C205	Computer Application in Pharmacy	3	2	2	1
19	Theory	C206	Environmental Sciences	3	1		
20	Lab	C207	Human Anatomy and Physiology – II	2	2		2
21	Lab	C208	Pharmaceutical Organic Chemistry – I	2	2	2	1
22	Lab	C209	Biochemistry	2	2	2	1
23	Lab	C210	Computer Application in Pharmacy	1	2		

III

24	Theory	C301	Pharmaceutical Organic Chemistry – II	4	2			1
25	Theory	C302	Physical Pharmaceutics – I	4	1	1		1
26	Theory	C303	Pharmaceutical Microbiology	4	1			1
27	Theory	C304	Pharmaceutical Engineering	4	1			2
28	Lab	C305	Pharmaceutical Organic Chemistry – II	2	2			1
29	Lab	C306	Physical Pharmaceutics – I	2	2	1		2
30	Lab	C307	Pharmaceutical Microbiology	2	2	2		1
31	Lab	C308	Pharmaceutical Engineering	2	1			

IV

32	Theory	C401	Pharmaceutical Organic Chemistry – III	4				1
33	Theory	C402	Medicinal Chemistry – I	4	2	1		1
34	Theory	C403	Physical Pharmaceutics – II	4	1	1		1
35	Theory	C404	Pharmacology – I	4				2
36	Theory	C405	Pharmacognosy and Phytochemistry – I	4	2	2		1
37	Lab	C406	Medicinal Chemistry – I	2	2			1
38	Lab	C407	Physical Pharmaceutics – II	2	1	1		
39	Lab	C408	Pharmacology – I	2				2
40	Lab	C409	Pharmacognosy and Phytochemistry – I	2	2	2		1

V

41	Theory	C501	Medicinal Chemistry-II	4				1
42	Theory	C502	Industrial Pharmacy – I	4	1	1		2
43	Theory	C503	Pharmacology – II	4	2			2
44	Theory	C504	Pharmacognosy and Phytochemistry – II	4	2			1
45	Theory	C505	Pharmaceutical Jurisprudence	4	2	1		1
46	Lab	C506	Industrial Pharmacy – I	2	1			1

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47	Lab	C507	Pharmacology – II	2	3	1	1
48	Lab	C508	Pharmacognosy and Phytochemistry – II	2			2
VI							
49	Theory	C601	Medicinal Chemistry – III	4	1		
50	Theory	C602	Pharmacology – III	4	2	1	2
51	Theory	C603	Herbal Drug Technology	4	2	1	1
52	Theory	C604	Biopharmaceutics and Pharmacokinetics	4	2	1	2
53	Theory	C605	Pharmaceutical Biotechnology	4	2	1	1
54	Theory	C606	Quality Assurance	4	1		
55	Lab	C607	Medicinal Chemistry – III	2	3	3	2
56	Lab	C608	Pharmacology – III	2	2	2	1
57	Lab	C609	Herbal Drug Technology	2	2		2
VII							
58	Theory	C701	Instrumental Method of Analysis	4	1		
59	Theory	C702	Industrial Pharmacy – II	4	1	1	2
60	Theory	C703	Pharmacy Practice	4	1	1	2
61	Theory	C704	Novel Drug Delivery System	4	2	2	2
62	Lab	C705	Instrumental Method of Analysis	2	2		1
VIII							
63	Theory	C801	Biostatistics and Research Methodology	4	1	1	1
64	Theory	C802	Social and Preventive Pharmacy Project Work	4	1	1	1
65				12	2	2	2
Contribution of the program(all courses)					1.74	1.56	1.43
% Contribution of the program(all courses)					58.16	51.85	47.52

Note:*

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “-”

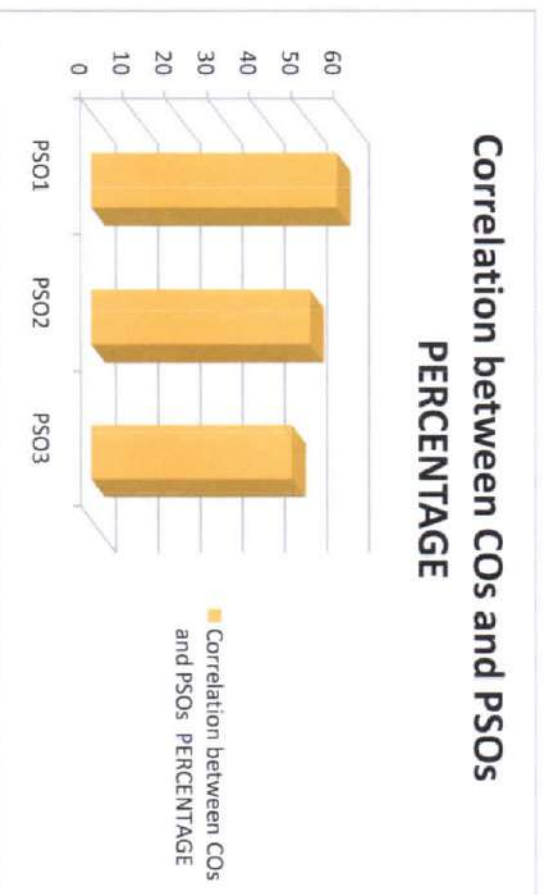


Fig: 3.3 Correlation between COs and PSOs(R19 Regulations)

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KURNDOOL-518218 (A.P.)

R-17 REGULATIONS
(2017 Batch)

S. No	Type	Course Code	Course Name	PSO1	PSO2	PSO3
1 YEAR						
1	THEORY	C101	Human Anatomy and Physiology	2		2
2	THEORY	C102	Pharmaceutics	2	1	2
3	THEORY	C103	Medicinal Biochemistry	2	2	1
4	THEORY	C104	Pharmaceutical Organic Chemistry	1	2	2
5	THEORY	C105	Pharmaceutical Inorganic Chemistry	2	2	2
6	THEORY	C106A	Remedial Mathematics	1		1
7	THEORY	C106B	Remedial Biology	2		1
8	LAB	C107	Human Anatomy and Physiology	2	2	2
9	LAB	C108	Pharmaceutics	2		
10	LAB	C109	Medicinal Biochemistry	2	2	
11	LAB	C110	Pharmaceutical Organic Chemistry	2		1
12	LAB	C111	Pharmaceutical Inorganic	1	1	1

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			Chemistry				
13	LAB	C112	Remedial Biology	1			1
II YEAR							
12	THEORY	C201	Pathophysiology	2	1		1
13	THEORY	C202	Pharmaceutical Microbiology	2	2		
14	THEORY	C203	Pharmacognosy & Phytopharmaceuticals	1			2
15	THEORY	C204	Pharmacology-I	2	1		2
16	THEORY	C205	Community Pharmacy	2			1
17	THEORY	C206	Pharmacotherapeutics-I	2			2
18	LAB	C207	Pharmaceutical Microbiology	2			1
19	LAB	C208	Pharmacognosy & Phytopharmaceuticals	2	2		2
20	LAB	C209	Pharmacoherapeutics-I	2	1		
III YEAR							
21	THEORY	C301	Pharmacology-II	1			1
22	THEORY	C302	Pharmaceutical Analysis	1	2		1
23	THEORY	C303	Pharmacoherapeutics-II	2	2		2
24	THEORY	C304	Pharmaceutical Jurisprudence	2	1		2
25	THEORY	C305	Medicinal Chemistry	2			1
26	THEORY	C306	Pharmaceutical Formulations	2			2

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27	LAB	C307	Pharmacology-II	2	3	3
28	LAB	C308	Pharmaceutical Analysis Lab	2	2	2
29	LAB	C309	Pharmacotherapeutics-II	2	1	
30	LAB	C310	Medicinal Chemistry	2		1
31	LAB	C311	Pharmaceutical Formulations	2	2	2

IV YEAR

32	THEORY	C401	Pharmacotherapeutics-III	1	1	2
33	THEORY	C402	Hospital Pharmacy	2	1	2
34	THEORY	C403	Clinical Pharmacy	1	1	1
35	THEORY	C404	Biostatistics & Research Methodology	2	2	2
36	THEORY	C405	Biopharmaceutics & Pharmacokinetics	2		
37	THEORY	C406	Clinical Toxicology	1		
38	LAB	C407	Pharmacotherapeutics-III	1	1	2
39	LAB	C408	Hospital Pharmacy	2	2	2
40	LAB	C409	Clinical Pharmacy	2	1	1
41	LAB	C410	Biopharmaceutics & Pharmacokinetics	2	2	1
42	THEORY	C411	Pharmacotherapeutics I & II	2	1	1
43	LAB	C412	Pharmacotherapeutics I & II	2	2	1

V Year

38	THEORY	C501	Clinical Research	2	2	1
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39	THEORY	C502	Pharmacoepidemiology and Pharmacoeconomics	2	1	2
40	THEORY	C503	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	1	2	1
Contribution of the program(all courses)				1.7	1.6	1.6
% Contribution of the program(all courses)				55.17	51.75	54.47

Note:*

2. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation, put “-”

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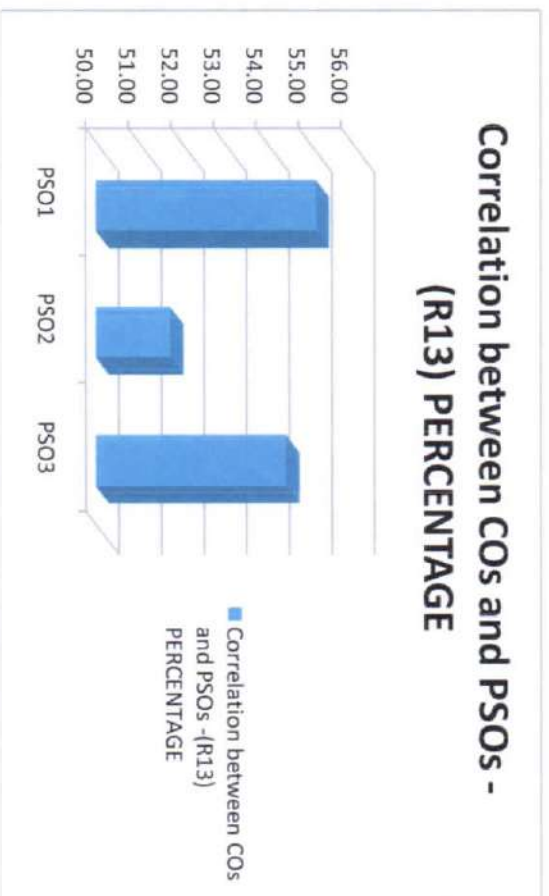


Fig: 3.3 Correlation between COs and PSOs (R17 Regulations)

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