



Yashoda Shikshan Prasarak Mandal's

YASHODA TECHNICAL CAMPUS, SATARA
FACULTY OF PHARMACY

Autonomous Institute

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Approved by PCI New Delhi, Govt. of Maharashtra (DTE, Mumbai)

Affiliated to DBATU Lonere

Institute Code – 6757



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Academic Program Regulations 2026-27 (Pharm.D.)

The Doctor of Pharmacy (Pharm. D.) program being offered at Yashoda Technical Campus, Satara (An Autonomous Institute) under the title “Academic Program Regulations-2026” has been duly approved by the Academic Council of YSPM's Yashoda Technical Campus, Satara (An Autonomous Institute)


Dr. B. M. Shinde
Secretary Academic Council



YASHODA TECHNICAL CAMPUS

Since 2011

**Yashoda Shikshan Prasark Mandals
Yashoda Technical Campus, Satara
(An Autonomous Institute)**



Academic Program Regulations 2026

**[Framed under Regulation THE DOCTOR OF PHARMACY (PHARM.D.)
COURSE REGULATION 2008 (BASED ON NOTIFICATION IN THE
GAZETTE OF INDIA NO. 19, PART III, SECTION 4, DATED MAY 10.
2008)]**

DOCTOR OF PHARMACY

Academic Year 2026-27

[Revision Zero 0.0]

**Yashoda Shikshan Prasark Mandals
Yashoda Technical Campus, Satara
S. No. 242/1, V. N. Road, Wadhe, NH-4, Satara, Maharashtra 415015**



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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 4

[PART III—SECTION 4]

[सांविधिक निकायों द्वारा जारी की गई विविध अधिसूचनाएं जिसमें कि आदेश, विज्ञापन और सूचनाएं सम्मिलित हैं]
[Miscellaneous Notifications including Notifications, Orders, Advertisements and Notices issued by
Statutory Bodies]

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

संदर्भ : बैंपविवि. सं. आईबीडी.-14241/23.13.048/2007-08--भारतीय रिज़र्व बैंक अधिनियम, 1934 (1934 का 2) की धारा 42 की उप-धारा (6) के खण्ड (ग) के अनुसरण में भारतीय रिज़र्व बैंक इसके द्वारा निदेश देता है कि उक्त अधिनियम की दूसरी अनुसूची में निम्नलिखित परिवर्तन किये जाएं :--

“अरब बांग्लादेश बैंक लिमिटेड” शब्दों के स्थान पर “एबी बैंक लिमिटेड” शब्द होंगे।

आनन्द सिन्हा
कार्यपालक निदेशक

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Vision

To provide finest and growing environment of teaching, learning and research for the overall development of the students for the betterment of society.

Mission

M1: To provide quality education and facilities to the students for their holistic development.

M2: To prepare skilled pharmacists with intellectual and ethical development to cater the society.

M3: To become a center of excellence for professional workforce to heighten the industry and academics.

PEOs

PEO1: To develop an aptitude amongst the students to understand the basic aspects of pharmacy.

PEO2: To build skills and knowledge required for handling and understanding of laboratory equipment.

PEO3: To apply the knowledge of student in pharma sector.

PEO4: To generate sensibility amongst the graduating students towards their social responsibilities as a pharmacist.

PEO5: To accomplish holistic development of the students.

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. 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.

PO4. Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.

PO5. 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.

PO6. 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).

PO7. 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.

PO8. 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.

PO9. 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.

PO10. 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.

PO11. 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.

PO12. Research Orientation: Design, execute, and analyse independent research in core and applied areas of drug discovery, formulation, or patient care.

Program Specific Outcomes (PSOs)

PSO-1: Acquire knowledge in the field of synthetic and natural sources of drugs as well as their formulation and evaluation, including their regulatory requirements.

PSO-2: Student able to provide patient counselling, ADRs monitoring, therapeutic drug management and other clinical data reports.

PSO-3: Student able to assist physician in hospitals or clinics for improved pharmacotherapy and improved patient compliance.

INTRODUCTION

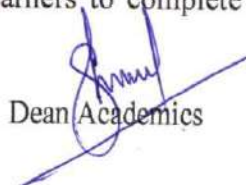
RECOMMENDATIONS OF NATIONAL REGULATORY AUTHORITIES

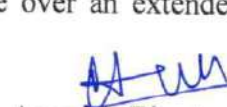
The University Grants Commission (UGC), the National Assessment and Accreditation Council (NAAC), the Distance Education Council (DEC) and the Indian Knowledge System (IKS), have time and again come out with recommendations for improving the quality and effectiveness of Higher education provisions in the country. The ministry of Human Resource Development at the Central level and the Ministry of Higher & Technical Education, Government of Maharashtra have also repeatedly stressed on the need for universities to pay prompt attention to improve the quality of education. The NEP 2020 incorporates IKS principles to enhance interdisciplinary learning, integrate traditional wisdom with modern knowledge, and foster a more inclusive and holistic educational experience. An important concern voiced more strongly in recent times, is the need to develop a Choice-Based Credit System (CBCS) in tune with global trends and the adoption of a sound grading system for reflecting learner performance. This is in line with the recommendation of the UGC in its Action Plan for Academic and Administrative Reforms (Ref. UGC letters January 2008; March 2009) "Curricular flexibility and learners' mobility are issues that warrant our urgent attention. These can be addressed by introducing credit based courses and credit accumulation. In order to provide with some degree of flexibility to learners, we need to provide flexibility in course selection and also a minimum as well as a maximum permissible span of time in which a course can be completed by a learner... The Choice- Based Credit System (CBCS) imminently fits into the emerging socioeconomic milieu and could effectively respond to the educational and occupational aspirations of the upcoming generations. In view of this, institutions of higher education in India would do well to invest thought and resources into introducing CBCS. Aided by modern communication and information technology, CBCS has a high probability to be operationalized efficiently and effectively — elevating learners, institutions and higher education system in the country to newer height".

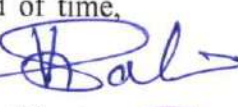
RATIONALE FOR INTRODUCTION OF CREDIT AND GRADING SYSTEM

The UGC while outlining the several unique features of the Choice-Based Credit System (CBCS) has, in fact, given in a nutshell, the rationale for its introduction. Among the features highlighted by the UGC are: Enhanced learning opportunities, ability to match learners' scholastic needs and aspirations, inter- institution transferability of learners (following the completion of a semester), part-completion of an academic programme in the institution of enrolment and part-completion in a specialized (and recognized) institution, improvement in educational quality and excellence, flexibility for working learners to complete the programme over an extended period of time,


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standardization and comparability of educational programmes across the country, etc. This Choice Based Credit System enables a much- required shift in focus from teacher-centric to learner-centric education since the workload estimated is based on the investment of time in learning, not in teaching. It also focuses on continuous evaluation which will enhance the quality of education. It can be concluded from the above discussion that it is very much essential to implement the Choice Based Credit System in higher education in India. Course credit structure, examination/assessment and grading are mainly focused aspects of this manual and discussed in subsequent chapters.

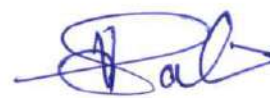
DIRECTIVES OF PHARMACY COUNCIL OF INDIA

The Pharmacy Council of India (PCI) in exercise of the powers conferred to Doctor of Pharmacy under the sections Regulations framed under section 10 of the Pharmacy Act, 1948 (8 of 1948), Gazette of India no. 19, part iii, section 4, dated May 10. 2008. It is thus mandatory to implement the directives of PCI with regard to the Rules/Regulations/Syllabus for recognition and extension of approval of Doctor of Pharmacy of institutes/Universities by the PCI


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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.


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(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 –

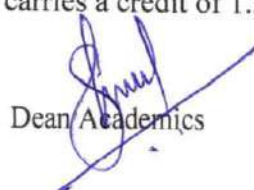
i) Pharm.D. Programme – 30 students.

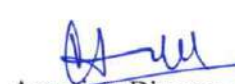
ii) Pharm.D. (Post Baccalaureate) Programme – 10 students.

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 below. Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and/or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for Practical (laboratory) hours. Thus, for example, a Theory course having three lectures and one tutorial per week throughout the year carries a credit of 4. Similarly, a Practical having three laboratory hours per week throughout year carries a credit of 1.5. The minimum credit points required for award of


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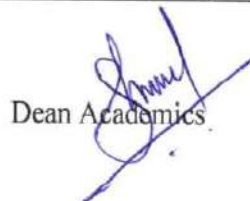
a Pharm.D degree is 130.5. These credits are divided into Theory courses, Tutorials, Practical, Clerkship and Project over the duration of six years. The credits are distributed year-wise as shown in Table no 1 given below.

Table no 1: Course structure

First Year Doctor of Pharmacy

Course Code	Course Domain	Course Name	Teaching Scheme				Evaluation Scheme					TOTAL
			L	T	P	Credit	Scheme	Theory		Practical		
								Max .	Min. Passing	Max .	Min. Passing	
PD101T	F	Human Anatomy and Physiology	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD102T	F	Pharmaceutics	2	1	0	3	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD103T	F	Medicinal Biochemistry	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD104T	F	Pharmaceutical Organic Chemistry	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD105T	F	Pharmaceutical Inorganic Chemistry	2	1	0	3	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD106T	F	Remedial Mathematics*	3	1	0	4*	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD107T	F	Remedial Biology#	3	1	0	4#	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD108P	F	Human Anatomy and Physiology	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA			10		
							EYE			70		
PD109P	F	Pharmaceutics	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA			10		
							EYE			70		


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PD110P	F	Medicinal Biochemistry	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA					
							EYE					
PD111P	F	Pharmaceutical Organic Chemistry	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA					
							EYE					
PD112P	F	Pharmaceutical Inorganic Chemistry	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA					
							EYE					
PD113P	F	Remedial Biology	0	0	3	1.5#	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA					
							EYE					
TOTAL			13/16*	5/6*	15/18#	25.5/29.5*	TOTAL MARKS					1000/1100*/1200#
Total Contact Hours Per Week			33/37*/40#			/31#						

Course Category	Programme Core Course	Multi disciplinary Minor	Vocational and Skill Enhancement Course	Ability Enhancement Course	Indian Knowledge System	Co – curricular Courses	Total
	PC	OE	VS	AE	IK	CC	
Credit	25.5	00	00	00	00	00	25.5/29.5*/31#

L:- Lecture, T:- Tutorial, P:- Practical, SE:-Sessional Examination, CIA:- Continuous Internal Assessment, EYE:- End Year Examination

Note

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

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

Second Year Doctor of Pharmacy

Course Code	Course Domain	Course Name	Teaching Scheme				Evaluation Scheme					TOTAL
			L	T	P	Credit	Scheme	Theory		Practical		
								Ma x.	Min. Passi ng	Ma x.	Min. Passi ng	
PD201T	F	Pathophysiology	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD202T	F	Pharmaceutical Microbiology	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					

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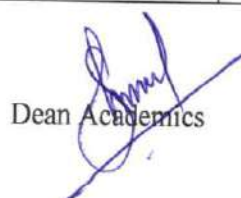
							EYE	70				
PD203T	F	Pharmacognosy & Phytopharmaceuticals	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD204T	F	Pharmacology-I	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD205T	F	Community Pharmacy	2	1	0	3	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD206T	F	Pharmacotherapeutics-I	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD207P	F	Pharmaceutical Microbiology	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA			10		
							EYE			70		
PD208P	F	Pharmacognosy & Phytopharmaceuticals	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA			10		
							EYE			70		
PD209P	F	Pharmacotherapeutics-I	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA			10		
							EYE			70		
Total			17	6	9	27.5	TOTAL MARKS					900
Total Contact Hours Per Week			32									

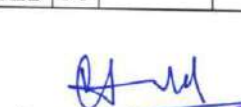
Course Category	Programme Core Course	Multi disciplinary Minor	Vocational and Skill Enhancement Course	Ability Enhancement Course	Indian Knowledge System	Co – curricular Courses	Total
Credit	PC	OE	VS	AE	IK	CC	
	27.5	00	00	00	00	00	27.5

Third Year Doctor of Pharmacy

Course Code	Course Domain	Course Name	Teaching Scheme				Evaluation Scheme					TOTAL
			L	T	P	Credit	Sch eme	Theory		Practical		
								Max	Min. Passing	Max	Min. Passing	
PD301T	F	Pharmacology-II	3	1	0	4	SE1 SE2	30	50	-	-	100


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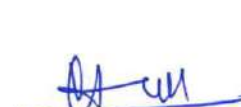

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							SE3						
							EYE	70					
PD302T	F	Pharmaceutical Analysis	3	1	0	4	SE1	30	50	-	-	100	
							SE2						
							SE3						
							EYE						
							70						
PD303T	F	Pharmacotherapeutics-II	3	1	0	4	SE1	30	50	-	-	100	
							SE2						
							SE3						
							EYE						
							70						
PD304T	F	Pharmaceutical Jurisprudence	2	0	0	2	SE1	30	50	-	-	100	
							SE2						
							SE3						
							EYE						
							70						
PD305T	F	Medicinal Chemistry	3	1	0	4	SE1	30	50	-	-	100	
							SE2						
							SE3						
							EYE						
							70						
PD306T	F	Pharmaceutical Formulations	2	1	0	3	SE1	30	50	-	-	100	
							SE2						
							SE3						
							EYE						
							70						
PD307P	F	Pharmacology-II	0	0	3	1.5	SE1	-	-	20	50	100	
							SE2						
							SE3						
							CIA						
							EYE						
										10			
										70			
PD308P	F	Pharmaceutical Analysis	0	0	3	1.5	SE1	-	-	20	50	100	
							SE2						
							SE3						
							CIA						
							EYE						
										10			
										70			
PD309P	F	Pharmacotherapeutics-II	0	0	3	1.5	SE1	-	-	20	50	100	
							SE2						
							SE3						
							CIA						
							EYE						
										10			
										70			
PD310P	F	Medicinal Chemistry	0	0	3	1.5	SE1	-	-	20	50	100	
							SE2						
							SE3						
							CIA						
							EYE						
										10			
										70			
PD311P	F	Pharmaceutical Formulations	0	0	3	1.5	SE1	-	-	20	50	100	
							SE2						
							SE3						
							CIA						
							EYE						
										10			
										70			
TOTAL			16	5	15	28.5	TOTAL MARKS						1100
Total Contact Hours Per Week			36										


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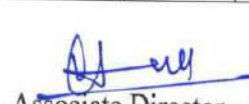
Course Category	Programme Core Course	Multi disciplinary Minor	Vocational and Skill Enhancement Course	Ability Enhancement Course	Indian Knowledge System	Co – curricular Courses	Total
	PC	OE	VS	AE	IK	CC	
Credit	28.5	00	00	00	00	00	28.5

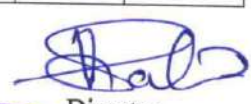
Fourth Year Doctor of Pharmacy

Course Code	Course Domain	Course Name	Teaching Scheme				Evaluation Scheme				TOTAL	
			L	T	P	Credit	Scheme	Theory		Practical		
								Max .	Min. Passing	Ma x.		Min. Passing
PD401T	F	Pharmacotherapeutics-III	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD402T	F	Hospital Pharmacy	2	1	0	3	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD403T	F	Clinical Pharmacy	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD404T	F,R	Biostatistics & Research Methodology	2	1	0	3	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD405T	F	Biopharmaceutics & Pharmacokinetics	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD406T	F	Clinical Toxicology	2	1	0	3	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD407P	F	Pharmacotherapeutics-III	0	0	3	1.5	SE1	-	-	20	50	100
							SE2			10		
							SE3					
							CIA					
							EYE					
PD408P	F	Hospital Pharmacy	0	0	3	1.5	SE1	-	-	20	50	100
							SE2			10		
							SE3					
							CIA					
							EYE					
PD409P	F	Clinical Pharmacy	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					


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							CIA			10		
							EYE			70		
PD410P	F	Biopharmaceutics & Pharmacokinetics	0	0	3	1.5	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA					
							EYE					
TOTAL			15	6	12	27	TOTAL MARKS				1000	
Total Contact Hours Per Week			33									

Course Category	Programme Core Course	Entrepreneurship Management Courses	Value Education Course	Ability Enhancement Course	Indian Knowledge System	Mini Project	Total
	PC	EM	VE	AE	IK	PR	
Credit	27	00	00	00	00	00	27

Fifth Year Doctor of Pharmacy

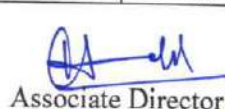
Course Code	Course Domain	Course Name	Teaching Scheme				Evaluation Scheme				TOTAL	
			L	T	P	Credit	Scheme	Theory		Practical		
								Max.	Min. Passing	Max.		Min. Pass
PD501T	F,R	Clinical Research	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD502T	F	Pharmacoepidemiology and Pharmacoeconomics	3	1	0	4	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD503T	F	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	1	0	3	SE1	30	50	-	-	100
							SE2					
							SE3					
							EYE	70				
PD504P	F	Clerkship *	0	1	0	1	SE1	-	-	20	50	100
							SE2					
							SE3					
							CIA					
							EYE					
PD505PR	F,R	Project work (Six Months)	0	0	20	10	EYE	-	-	100	50	100**
TOTAL			8	4	20	22	TOTAL MARKS					500
Total Contact Hours Per Week			32									

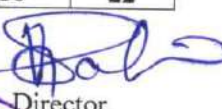
Note: * Attending ward rounds on daily basis. ** 30 marks – viva-voce (oral) 70 marks – Thesis work

Course Category	Programme Core Course	Entrepreneurship Management Courses	Value Education Course	Ability Enhancement Course	Indian Knowledge System	Mini Project	Total
	PC	EM	VE	AE	IK	PR	
Credit	11	00	00	01	00	10	22


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Sixth Year Doctor of Pharmacy

Course Code	Course Domain	Course Name	Teaching Scheme				Evaluation Scheme				TOTAL	
			L	T	P	Credit	Scheme	Theory		Practical		
								Max.	Min. Passing	Max.		Min. Passing
PD601IR	F	Internship	0	0	0	0	-	-	-	-	-	
TOTAL						0	TOTAL MARKS					
Total Contact Hours Per Week												

Course Category	Programme Core Course	Entrepreneurship Management Courses	Value Education Course	Ability Enhancement Course	Indian Knowledge System	Internship	Total
	PC	EM	VE	AE	IK	IR	
Credit	00	00	00	00	00	0	0

Sixth Year:

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

- Six months in General Medicine department, and
- 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.

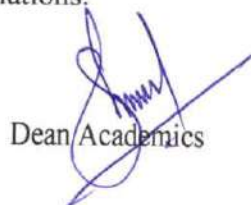
9. Approval of the authority conducting the course of study. – (1) No person, institution, society or university shall start and conduct Pharm.D or Pharm.D. (Post Baccalaureate) programme without the prior approval of the Pharmacy Council of India.

(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.

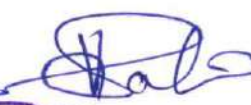
(3) The scheme referred to in sub-regulation (2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed:

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, non-teaching staff, etc., as specified in Appendix-B to these regulations.


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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 no 1 :

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.

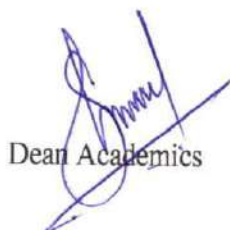
(3) The sessional marks in practicals shall be allotted on the following basis:-

(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).

(4) Sessional Examination


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The scheme of question paper for theory and practical sessional examinations is given in the table. The average marks of two sessional exams shall be computed for internal assessment as per the requirements given in tables.

Table 2: Scheme for theory Sessional examination

Question	Marks
I. Objective Type Questions (Answer 5 out of 7)	05Q x 2M= 10 M
II. Short Answers (Answer 2 out of 3)	2Q x 5M = 10 M
III. Long Answers (Answer 1 out of 2)	1Q x 10M = 10 M
Total	30 marks

Table 3: Scheme for Practical Sessional examination

Question	Marks
I. Synopsis	05/08* M
II. Major Experiment	10/07* M
III. Minor Experiment	03 M
IV. Viva voce	02 M
Total	20 M

* for PD108P and PD208P

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.


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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.

a) Grading of performances

17.1. Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table 4

Table 4: Letter grades and grade points equivalent to Percentage of marks and performances

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

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

b) The Semester grade point average (SGPA):

The performance of a student in a semester is indicated by a number called 'Semester Grade Point


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Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester.

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

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester.

c) Cumulative Grade Point Average (CGPA):

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses.

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

d) CGPA To Percentage Conversion

It is mandatory for Examining Authority to mention both, marks and SGPA and/or CGPA scores, in the marksheets. The conversion factor for calculation of CGPA into percentage should be 10.0 uniformly.

e) Credit Record and Transfer Mechanism

The Examining Authority shall be responsible for creation and verification of Academic Bank of Credits ID, uploading and maintenance of semester wise credits/grades and award in the ABC and National Academic Depository (NAD) to facilitate the credit transfer and redemption as per guidelines of statutory bodies.

f) Declaration of class:

The class shall be awarded on the basis of CGPA as follows: First Class with Distinction = CGPA of. 7.50 and above

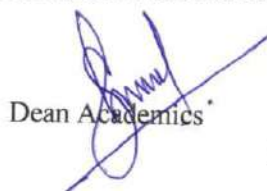
First Class = CGPA of 6.00 to 7.49

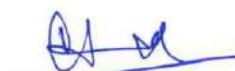
Second Class = CGPA of 5.00 to 5.99

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.


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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 pharmacoeconomics;

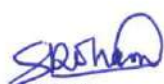
(iv) Project work shall be approved by the institutional ethics committee;

(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.

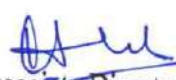
23. Reporting. — (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution

(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


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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

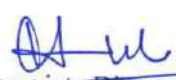
a)	Write up of the seminar	(17.5)
b)	Presentation of work	(17.5)
c)	Communication skills	(17.5)
d)	Question and answer skills	(17.5)

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.


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APPENDIX-C
(See regulation 16)
INTERNSHIP

1) SPECIFIC OBJECTIVES :

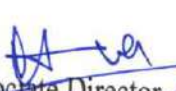
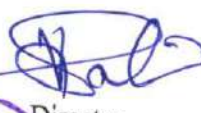
- i) To provide patient care in cooperation with patients, prescribers, and other members of an interprofessional health care team based upon sound therapeutic principles and evidence-based data, taking into account relevant legal, ethical, social cultural, economic, and professional issues, emerging technologies, and evolving biomedical, pharmaceutical, social or behavioral or administrative, and clinical sciences that may impact therapeutic outcomes.
- ii) to manage and use resources of the health care system, in cooperation with patients, prescribers, other health care providers, and administrative and supportive personnel, to promote health; to provide, assess, and coordinate safe, accurate, and time-sensitive medication distribution; and to improve therapeutic outcomes of medication use.
- iii) to promote health improvement, wellness, and disease prevention in co-operation with patients, communities, at-risk population, and other members of an interprofessional team of health care providers.
- iv) To demonstrate skills in monitoring of the National Health Programmes and schemes, oriented to provide preventive and promotive health care services to the community.
- v) To develop leadership qualities to function effectively as a member of the health care team organised to deliver the health and family welfare services in existing socio-economic, political and cultural environment.
- vi) To communicate effectively with patients and the community.

2) OTHER DETAILS :

- i) All parts of the internship shall be done, as far as possible, in institutions in India. In case of any difficulties, the matter may be referred to the Pharmacy Council of India to be considered on merits.
- ii) Where an intern is posted to district hospital for training, there shall be a committee consisting of representatives of the college or university, and the district hospital administration, who shall regulate the training of such trainee. For such trainee a certificate of satisfactory completion of training shall be obtained from the relevant administrative authorities which shall be countersigned by the Principal or Dean of College.
- iii) Every candidate shall be required, after passing the final Pharm.D. or Pharm.D. (Post Baccalaureate) examination as the case may be to undergo compulsory rotational internship to the satisfaction of the College authorities and University concerned for a period of twelve months so


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as to be eligible for the award of the degree of Pharm.D. or Pharm.D. (Post Baccalaureate) as the case may be.

1. ASSESSMENT OF INTERNSHIP :

i) The intern shall maintain a record of work which is to be verified and certified by the preceptor (teacher practitioner) under whom he works. Apart from scrutiny of the record of work, assessment and evaluation of training shall be undertaken by an objective approach using situation tests in knowledge, skills and attitude during and at the end of the training. Based on the record of work and date of evaluation, the Dean or Principal shall issue certificate of satisfactory completion of training, following which the university shall award the degree or declare him eligible for it.

ii) Satisfactory completion of internship shall be determined on the basis of the following:-

- | | |
|---|-----------|
| (1) Proficiency of knowledge required for each case management | SCORE 0-5 |
| (2) The competency in skills expected for providing Clinical Pharmacy Services | SCORE 0-5 |
| (3) Responsibility, punctuality, work up of case, involvement in patient care | SCORE 0-5 |
| (4) Ability to work in a team (Behavior with other healthcare professionals including medical doctors, nursing staff and colleagues). | SCORE 0-5 |
| (5) Initiative, participation in discussions, research aptitude. | SCORE 0-5 |

Poor	Fair	Below Average	Average	Above Average	Excellent
0	1	2	3	4	5

A Score of less than 3 in any of above items will represent unsatisfactory completion of internship.


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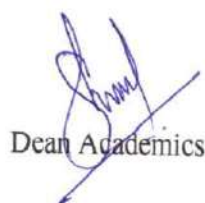

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APPENDIX-D
(See regulation 17)
CONDITIONS TO BE FULFILLED BY THE EXAMINING AUTHORITY

1. The Examining Authority shall be a statutory Indian University constituted by the Central Government/State Government/Union Territory Administration. It shall ensure that discipline and decorum of the examinations are strictly observed at the examination centers.
2. It shall permit the Inspector or Inspectors of the Pharmacy Council of India to visit and inspect the examinations.
3. It shall provide:-
 - (a) adequate rooms with necessary furniture for holding written examinations;
 - (b) well-equipped laboratories for holding practical examinations;
 - (c) an adequate number of qualified and responsible examiners and staff to conduct and invigilate the examinations; and
 - (d) such other facilities as may be necessary for efficient and proper conduct of examinations.
4. It shall, if so required by a candidate, furnish the statement of marks secured by a candidate in the examinations after payment of prescribed fee, if any, to the Examining Authority.
5. It shall appoint examiners whose qualifications should be similar to those of the teachers in the respective subjects as shown in Appendix-B.
6. In pursuance of sub-section (3) of section 12 of the Pharmacy Act, 1948, the Examining Authority shall communicate to the Secretary, Pharmacy Council of India, not less than six weeks in advance the dates fixed for examinations, the time-table for such examinations, so as to enable the Council to arrange for inspection of the examinations.
7. The Examining Authority shall ensure that examiners for conducting examination for Pharm.D. and Pharm.D. (Post Baccalaureate) programmes shall be persons possessing pharmacy qualification and are actually involved in the teaching of the Pharm.D. and Pharm.D. (Post Baccalaureate) programmes in an approved institution.


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(ARCHNA MUDGAL)
Registrar-cum-Secretary
Pharmacy Council of India
New Delhi - 110002


Associate Director


Director

