



पो. ग्रन्थालय नं. ८७

गोवा, नि. नंदुराम (गोवा) ०८३५४०९

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• Fax. No. 229740 Tel. No. 02565-229168 • E-mail: copshd@gmail.com

• Website : psgyppharmacy.ac.in

Bapusaheb Dipak Patil
(B.Com)
President

Smt. Kamalai P. Patil
Dr. Sunil P. Pawar

Hon. Secretary
(M.Pharm., Ph.D.)
Principal

COLLEGE OF PHARMACY

P. O. Box No.41

Shahada, Dist.: Nandurbar, (M.S.) 425 409

● Affiliated to KBC, NMU Jalgaon

● Website : psgyppharmacy.ac.in

Program Outcomes (PO) Pattern

Course code/Course title	Course outcomes	Program outcome									
		1	2	3	4	5	6	7	8	9	10
First Year B. Pharm (Semester I)	The student should able to										
	CO1: Explain various parts of human body, Structural and Functions of cell and classification of tissue.	3	-	3	3	-	-	3	-	2	-
	CO2: Understand the Structure and functions of skin, Various silent features and fuctions of bones as well as Structural and functional classification of joints.	3	-	2	2	-	-	3	-	2	-
	CO3: Describe composition and functions of blood & Lymphatic organs and functions of Lymphatic system.										
		3	-	2	2	-	-	3	-	2	-
	CO4: Acquire the knowledge regarding Structure and functions of sympathetic and parasympathetic nervous system as well as Structure and functions of sensory organs in human body.	3	-	2	2	-	-	3	-	2	-
	CO5: Explain anatomy of heart, Structure and functions of organs come under the CVS.	3	-	2	2	-	-	3	-	2	-
	Average course outcomes = 2.57 (max 3.00)	3	-	2.2	2.2	-	-	3	-	2	-


PRINCIPAL
Pooja Sane Guriji Vidya Prasarak Mandal's College of Pharmacy
Jalgaon - 425 409 (M.S.)

पुस्तकालय गुरुजी विद्या प्रसारक मंडळाचे
शोधविभाग संस्थान अभियान

पा. कांगडा नं. ५१

माहाराष्ट्र, भारत, (गोवाराड) ४१२५४०९



II वर्षात आणि उत्तराधिकारी

Poojya Sane Gurujii Vidyaprasarak Mandal's
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Hon. Secretary

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(M.Pharm., Ph. D.)
Principal

	The student should able to												
	CO1: Outline the method of expressing the concentration with preparation and standardization of various molar and normal solutions. Also explain the sources, type and method of minimizing the errors.	3	-	2	3	-	-	3	-	3	-	2	
	CO2: Understand theories of acid base indicators, acidimetric and alkalimetric titration as well as estimation of Sodium benzoate and Ephedrine HCl.	3	-	3	3	-	-	3	-	2	-	2	
	CO3: Explain the various methods like Mohr's method, Volhardt's, Modified Volhardt's, Fajans method, principle and steps involved in gravimetric analysis.	3	-	2	2	-	-	3	-	2	-	3	
	CO4: Explain the Concepts of oxidation and reduction, principle & applications involved in redox titrations.	3	-	2	1	-	-	3	-	2	-	3	
	CO5: Recall electrochemical methods of analysis like Conductometry, Potentiometry, Polarography and also understand their applications.	3	-	1	2	-	-	3	-	2	-	3	
	Average course outcomes = 2.63 (max 3.00)	3	-	2.2	2.6	-	-	3	-	2.3	-	2.6	

पुस्तक सामग्री दिल्ली प्रशासक विभाग
मोर्चाकान्तिक अधारिकार्यालय



पा. चैरमन् नं. ६१

गांधीजी, टिंके नवरात्रा, (मायांग) ४३४५०५

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Bapusaheb Dipak Patil **Smt. Kamalata P. Patil**

(B.Com)
President

Hon. Secretary

॥ अवकाश आवाज भारतीयावास ॥

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Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

The student should able to												
CO1: Outline the history of profession of pharmacy in India also understands the various dosage forms, prescriptions and there part as well as calculations of dose based on age, body weight and body surface area.	3	-	-	3	-	2	3	-	3	-	2	
CO2: Explain the definition, classification, advantages and disadvantages of powders and liquid dosage form.	3	-	-	2	-	2	3	-	3	-	3	
CO3: Understand definition, advantages and disadvantages, classifications & Preparation of monophasic and biphasic liquid dosage form.	3	-	-	2	-	2	3	-	3	-	3	
CO4: Describe the definition, types, advantages and disadvantages of suppositories and classifications of pharmaceutical incompatibilities.	3	-	-	2	-	2	3	-	3	-	3	
CO5: Prepare ointments, pastes, creams and gels.	3	-	-	3	-	2	3	-	3	-	3	
Average course outcomes = 2.7 (max 3.00)	3	-	-	2.4	-	2	3	-	3	-	2.8	

BP103T.
Pharmaceutics-I

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Mathematics in Medicine

ग्रन्थ सामने गए-तो विद्या प्रसारक बेदनामे
पाठ्य ग्रन्थ नं. ४५।

11 EQUILIBRIUM STATE

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Bapusaheb Dipak Patil

Smt. Karnaltai P. Patil Dr. Sunil P. Pawar

(B.Com.)

पुण्य साने पूजनी विधा प्रसारक अंगठी
मोर्योनि शारदाराम चाहवियाताम



पा. वरेस नं. ४३
लाला, बी. नगराराम (महाराष्ट्र) लाला ४०९

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(B.Com.)
President

(B.Com.)
Hon. Secretary

॥ अद्यता असामाजिक ॥

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(M.Pharm., Ph.D.)
Principal

The student should able to						
CO1: Explain need of communication skills, barriers to communicate effectively and perspectives of communication required to function effectively in areas of pharmaceutical operation	3	-	-	2	-	-
CO2: Apply various elements, styles of communications.	3	-	-	2	-	3
CO3: Understand basic listening skills, writing skills to communicate effectively and manage team as team player	3	-	-	2	-	3
CO4: Apply Interview	3	-	-	2	-	3
CO5: Do group discussions.	3	-	-	2	-	3
Average course outcomes = 2.75 (max 3.00)	3	-	-	2	-	3

KP
K.P.
PRINCIPAL -
PROFESSOR OF PHARMACY
COLLEGE OF PHARMACY

पुणे साने युवांनी विद्या प्रसारक अळकाळे
मोरासाहेब डिपाली अदालियातार



पा. अंकम. नं. ५७
गोवा, भा. गोवा, (गोवा) ४०३५०८

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The student should able to						
CO1:	Explain the definition and characters of living organisms & morphology of flowering plants.	3	-	2	-	3
CO2:	Describe the Body fluids and circulation, food digestion and absorption as well as breathing and respiration.	3	-	2	-	3
CO3:	Discuss the basic components of anatomy and physiology of animal with special reference to human & human reproductions.	3	-	2	-	3
CO4:	Explain photosynthesis.	3	-	2	-	3
CO5:	Understand plant respiration, plant growth and development as well as Cell the unit of life.	3	-	2	-	3
Average course outcomes = 2.75 (max 3.00)		3	-	2	-	3

[Signature]

PGDIPLOMA IN PHARMACY
NARROWBAR

पुस्तकालय गुरुजी विद्या प्रसारक संस्कारण
निष्पत्तिशास्त्र अधिवेशनालय

पो. चौमस नं. ५१
पश्चामा, जि. नवद्वारा, (महाराष्ट्र) ४१३५००५

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Principal

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The student should able to									
CO1: Know the theory and their application of Partial fraction, Logarithms,	3	-	2	3	-	2	3	-	3
CO2: Solve the different types of problems by applying theory of Matrices and Determinant,	3	-	3	3	-	2	3	-	2
CO3: Understand the different types of problems by applying theory of differentiation in Calculus,	3	-	3	3	-	2	3	-	3
CO4: Explain and solve the different types of problems of analytical geometry.	3	-	3	3	-	2	3	-	2
CO5: Describe the differential equations, application in solving pharmacokinetic equations, laplace transform & application in solving chemical kinetics and pharmacokinetics equations.	3	-	3	3	-	2	3	-	2
Average course outcomes = 2.64 (max 3.00)	3	-	2.5	3	-	2	3	-	2.5

BP106RMT.
Remedial Mathematics

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पुस्तकालय संस्कृत विद्या प्रसारक मंडळाचे



पा. वर्गमा. नं. ४३

आगांव, नि. नंदुरबाबा, (गोवा) ४०२५०२

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BP107P.	Human anatomy and physiology-I	The student should able to					
		CO1: Identify, compare and contrast between the microscopy of epithelial, connective, muscular, nervous tissue of human body. CO2: Explain the significance of bleeding time, clotting time, blood group detection, hemoglobin detection and measurement of blood pressure. CO3: Demonstrate procedure of white blood cell count and red blood cell count and red blood cell count of blood sample.	3	-	2	-	-
		Average course outcomes = 2.75 (max 3.00)	3	-	2	-	-
		The student should able to			3	-	-
		CO1: Perform limit test of Chloride, Sulphate, Iron, Arsenic	3	2	2	-	-
	BP108P. Pharmaceutical Analysis-I				2	-	-

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SHAHADA, DIST. NANDURBAR



पुरुष राजे गुरुजी फैशन प्रसारक संस्कारणे
पा. परिषद मं. १९
जलाला, फा. अंगराव, (महाराष्ट्र) ४२२५००९



॥ श्रीमद् भागवतम् ॥ ॥ पूज्या सने गुरुजी विद्या प्रसारक मंडळाचे
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Principal

	CO2: Prepare and standardize of Sodium hydroxide, Sulphuric acid, Sodium thiosulfate, Potassium permanganate, Ceric ammonium sulphate.	3	2	2	-	-	2	-	-	-	3
	CO3: Perform various ussays of the compounds along with standardization of titrant and determine the Normality.	3	2	2	-	-	2	-	-	-	3
	Average course outcomes = 2.4 (max 3.00)	3	2	2	-	-	2	-	-	-	3
	The student should able to										
	CO1: Formulate various conventional dosage forms in professional way.	3	-	-	3	-	2	3	-	3	-
	CO2: Emphasize on the concepts of prescription like translation, calculation and suitability.	3	-	-	2	-	2	3	-	3	-
	Average course outcomes = 2.75 (max 3.00)	3	-	-	2.5	-	2	3	-	3	-
	The student should able to										
	BP109P. Pharmaceutical inorganic chemistry	3	-	2	2	-	2	3	-	2	-
	CO2: Identify the Inorganic compounds through various chemical tests.										
	Average course outcomes = 2.42 (max 3.00)	3	-	2	2	-	2	3	-	2	-
	BP110P. Pharmaceutical inorganic chemistry										
	CO2: Identify the Inorganic compounds through various chemical tests.										
	Average course outcomes = 2.42 (max 3.00)	3	-	2	2	-	2	3	-	2	-

P. G. Department of Pharmacy
Sant Gadge Baba Amravati University



पुस्तक समाचार प्रसारक संघकालीन

Ch. 11, Part II, 1994
Volume 1, Number 1, Spring (1994), pp. 3-46.

11
Bragg et al.

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• 500

Bapuji's Dipak Patel

100

Smit, Kammann et al.

Dr. Sunil R. Patel
(M.Pharm., Ph.D.)

1

Hon. Secretary
(B. Com.)
President

BP111P
CommunicationSkills

		The student should able to						
BP111P CommunicationSkills	CO1:	Demonstrate and Apply basic communication skills and advance learning skills.	3	-	-	2	-	-
	CO2:	Practice skills of communication, medium and presentation.	3	-	-	2	-	-
	Average course outcomes = 2.75 (max 3.00)		3	-	-	2	-	-
BP112RBP Remedial biology	The student should able to							
	CO1:	Demonstration of different bone in human skeleton system, their location and significance.	3	-	-	2	-	-
	CO2:	Perform blood group detection, measurement of blood pressure and tidal volume.	3	-	-	2	-	-
	CO3:	Able to identify microscopy of tissues pertinent to stem, root, leaf, seed, fruit and flower.	3	-	-	2	-	-
Average course outcomes = 2.75 (max 3.00)		3	-	-	2	-	-	-

पुस्तकालय विद्या प्रसारक संकाय
गोप्यगतिशील विद्यालय



पा. अधिकारी नं. ४१
गांधीनगर, विहारीगढ़, महाराष्ट्र ४११००६

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Principal

First Year B. Pharm (Semester-II)		The student should able to					
BP 201T. Human anatomy and physiology-II	CO1:	Explain the organization of nervous system & structure and functions of brain.	3	-	2	-	3
	CO2:	Describe anatomy and functions of stomach, formation and role of ATP.	3	-	2	-	3
	CO3:	Discuss the anatomy of lungs and other parts of respiratory system, tidal volume, artificial respiration and resuscitation methods as well as anatomy of urinary system.	3	-	2	-	3
	CO4:	Understand structure and functions of pituitary gland, thyroid gland, parathyroid gland, adrenal gland.	3	-	2	-	3
	CO5:	Describe anatomy and functions of male and female reproductive system, sex hormones,	3	-	2	-	3
	Average course outcomes = 2.75 (max 3.00)						3

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गोपनीय नं. ४५
गोपनीय, नि. नं. ३२१४७, कोलाहला ४२४५००४



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BP202T. Pharmaceutical organic chemistry-I	The student should able to												
	CO1: Outline the structure, name and the type of isomerism of the organic compound.	3	-	2	2	-	-	3	-	2	-	3	
	CO2: Describe the reaction name of the reaction & hybridization of alkanes, alkenes and conjugated dienes.	3	-	2	2	-	-	3	-	2	-	3	
	CO3: Explain the mechanism of SN1 and SN2 reactions, alcohols and there quantitative test.	3	-	2	2	-	-	3	-	2	-	3	
	CO4: Understand the structure and uses of Formaldehyde, Paraldehyde, Acetone, Chloral hydrate, Hexamine, Benzaldehyde, Vanillin, Cinnamaldehyde.	2	-	2	2	-	-	3	-	2	-	3	
	CO5: Explain the structure and uses carboxylic acids, aliphatic amines.	2	-	2	2	-	-	3	-	2	-	3	
Average course outcomes = 2.50 (max 3.00)		2.5	-	2	2	-	-	3	-	2	-	3	



K
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SHAHADA 425409 MAHARASHTRA

पूर्ण साने युवा जी विद्या प्रसारक मंडळाचे
औषधिकलेश्वर वाहनविद्यालय

पर. विष्णु न. ४४
लाला, फि. अंतर्राष्ट्रीय (भारत) ४१२१४०९



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(M.Pharm., Ph. D.)
Principal

	The student should able to										
BP203 T. Biochemistry	CO1: Describe the chemistry, biological importance and metabolism pattern of Biomolecules.	3	2	3	-	-	2	-	2	-	3
	CO2: Summaries the concept of biological oxidation emphasizing on ETC and oxidative phosphorylation and identifying related inhibitors.	3	2	3	-	-	2	-	2	-	3
	CO3: Explain catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzyme.	3	2	3	-	-	2	-	2	-	3
	CO4: Explain the genetic organization of mammalian genome and functions of DNA in synthesis of RNAs and proteins.	3	2	3	-	-	2	-	2	-	3

b/f
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Shahada - 425409 (M.S.) India



पुण्य सनातन गृहांनी नियम चलाक घडवलाचे
प्रोफेशनल फार्मासिटी

पां. चारकरा नं. ४६

गांधीनगर, निवासनगर, मुंबई - ४०००५०



Poojya Sane Guruji Vaidya Prasarak Mandal's
COLLEGE OF PHARMACY

प. ओ. बॉक्स नं. ४१

प. ओ. बॉक्स नं. ४१

शहादा, दिल्ली, भारत (M.S.) 425 409

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Bapusaheb Dipak Patil
(B.Com)
President

Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

Smt. Kamalai P. Patil
Hon. Secretary

CO5: Understand the therapeutic and diagnostic applications of enzymes and isoenzymes.	3	2	3	-	-	2	-	2	-	3
Average course outcomes = 2.50 (max 3.00)	3	2	3	-	-	2	-	2	-	3

KV

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पुणे सारे गुरुजी विद्या प्रसारक महाकाळे
शोधविभाग अभियान
पा. एम्स नं. ४४
आरा, फि. नंदुरबा, (माहाराष्ट्र) ४११४५००९



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Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

Bapusaheb Dipak Patil

Smt. Kamalata P. Patil
Hon. Secretary

(B.Com.)
President

The student should able to	
CO1:	Explain the etiology and pathogenesis and complications of severe diseases and disorders.
CO2:	Discuss the signs and symptoms of different diseases related to CVS, renal and respiratory system and their diagnostic procedures.
CO3:	Explain the Iron deficiency, megaloblastic anemia, thyroid diseases, and disorders of sex hormones.
CO4:	Understand Classification, etiology signs, symptoms and complications as well as pathogenesis of Cancer
CO5:	Elaborate Infectious diseases & Sexually transmitted diseases
<i>KP</i>	
Average course outcomes = 2.75 (max 3.00)	

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पुस्तक सारणे यूनिवर्सिटी विभाग प्रशासक मंडळामध्ये
पा. घोरेस नं. १६

गावळ, झि. नंदुरबार, (महाराष्ट्र) ४२५५४००९



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(B. Com.)
President

Smt. Kamalata R. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

The student should able to	
CO1:	know the various types of application of computers in pharmacy.
CO2:	Understand Concept of Information Systems and Software, various types of databases like MySQL, MS ACCESS, Pharmacy Drug database, Number systems, Web technologies and Bioinformatics.
CO3:	Understand diagnostic System, Lab-diagnostic System, Patient Monitoring System, Pharma Information System.
CO4:	Know the various applications of databases in pharmacy
CO5:	Understand computers as data analysis in Preclinical development & Apply computer knowledge for Chromatographic data analysis (CDS), Laboratory Information management System (LIMS) and Text Information Management System (TMS).
Average course outcomes = 2.55 (max 3.00)	

Principal

2016-17



पुणे साने शूलकी विद्या प्रसारक मंडळाचे
पो. चर्चित नं. ४५
गांवा, फा. विहार, (भारत) ४११५४०२



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Rapusahab Dipak Patil

(B. Com.)
President

Smt. Kamalata P. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)
Principal

	The student should able to							
BP206T. Environmental sciences	CO1: Understand Multidisciplinary nature of environmental studies Natural Resources Renewable and non-renewable resources, associated problems.	3	-	2	2	-	-	3
	CO2: Understand, explain and Draw Structure and function of various ecosystem.	3	-	2	2	-	-	3
	CO3: Understand Environmental Pollution and its remedial methods to reduce.	3	-	2	2	-	-	3
	Average course outcomes = 2.43 (max 3.00)	3	-	2	2	-	-	3
BP207P. Human anatomy and physiology-II	The student should able to							
	CO1: Identify various tissues and organs of different systems of human body.	3	-	2	2	-	-	3
	CO2: Explain construction and working of spirometer for the measurement of lung volume and capacities.	3	-	-	2	-	-	3
	Average course outcomes = 2.75 (max 3.00)	3	-	2	2	-	-	3
	<i>Prachi Patel</i>							

पूर्ण शाने शुद्धी विद्या प्रसारक भवित्वाचे
पौज्या सने शुद्धी विद्या प्रसारक असाफाताचे



II संस्कृत विषयातील विषयातील

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(B.Com.)
President

Smt. Kamalata P. Patil
(B.Com.)
Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)
Principal

The student should able to							
BP208P. Pharmaceutical organic chemistry – I	CO1: Perform the systematic qualitative analysis of organic compounds.	3	-	2	2	-	3
	CO2: Prepare the suitable solid derivatives from organic compounds.	3	-	2	2	-	3
	Average course outcomes = 2.5 (max 3.00)	3	-	2	2	-	3
BP 209 P. Biochemistry	The student should able to						
	CO1: Identify and characterize carbohydrates, proteins by various qualitative chemical tests in a given sample.	3	2	3	-	-	2
	CO2: Determine blood creatinine, sugar, total cholesterol and action of salivary amylase.	3	2	3	-	-	2
	Average course outcomes = 2.5 (max 3.00)	3	2	3	-	-	3
	The student should able to						
BP210P. Computer applications in pharmacy	CO1: Use MS Word, MS Access for designing questionnaire, form to record patient information, creating patient database, mailing labels, invoice table, and generate reports.	3	-	2	3	-	3
		Dr. Sunil P. Pawar					2

पुस्तक आमंत्रण गुरुजी विद्या प्रसारक संङठनाचे

Smt. Kamaltai P. Patil

पा. वर्गस नं. ८१
गांधीनगर, निं. नंदुरवार, (महाराष्ट्र) ४१३५००



॥ असेहा काळ अवश्यकातच ॥

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(M.Pharm., Ph. D.)
Principal

Hon. Secretary

Bapusaheb Dipak Patil
(B.Com.)
President

CO2: Create HTML web page, Export Tables, Queries, Forms and Reports to web pages and XML Pages.	
Average course outcomes = 2.64 (max 3.00)	
Second Year B. Pharm (Semester- III)	
The student should able to	
CO1: Describe the reaction and mechanism of Benzene, Structure and uses of DDT.	
CO2: Explain the reaction and mechanism phenols, aromatic amines and aromatic acid.	
CO3: Summarize the chemistry of fats and oils.	
CO4: Demonstrate synthesis, reactions structure and medicinal uses of polynuclear hydrocarbons.	
CO5: Understand stabilities of cycloalkanes through different theories.	
Average course outcomes = 2.75 (max 3.00)	

PSCVPPPHM
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महाराष्ट्रातील अधिविदात्य



पा. नं. ४१
नामा, फा. नवरात्र, (मार्गदर्शक) ४२५४०९

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(B.Com.)
President

Smt. Kamalata P. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

Pooja Same Guruji Vidyā Prasarak Mandali's
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● Website : pgyppharmacy.ac.in

	The student should able to								
	CO1: Understand solubility expressions, mechanisms of solute solvent interactions.	3	-	3	3	-	-	3	-
	CO2: Explain various state of matter, physicochemical properties of drug molecules applicable in the designing of dosageforms..	3	-	2	2	-	-	2	-
	CO3: Summarize surface and interfacial phenomenon.	3	-	2	3	-	-	2	-
	CO4: Describe classification of complexation, applications, methods of analysis.	3	-	3	2	-	-	2	-
	CO5: Understand applications of buffers, buffer equation, buffer capacity, buffers in pharmaceutical and biological systems.	3	-	2	2	-	-	3	-
	Average course outcomes = 2.58 (max 3.00)	3	-	2.5	2.5	-	-	2.5	-

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पुस्तकालय योगी विद्या प्रसारक मंडळाचे
प्रोफेशनल फार्मासिटीज अकादमी

पा. नं. ८९

शहादा, निं. नंदुरबार, (महाराष्ट्र) ४१३४०६



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(B.Com)
President

Dr. Sunil R. Pawar
(M.Pharm., Ph. D.)
Principal

BP303T. Pharmaceutical Microbiology						
The student should able to						
CO1: Explain history of microbiology, its branches, scope.	3	-	3	-	2	3 - 3 - 2
CO2: Understand the methods of identification, cultivation and preservation of various microorganisms.	3	-	3	-	3	3 - 3 - 3
CO3: Discuss importance and implementation of sterilization in pharmaceutical processing and industry.	3	-	2	-	3	3 - 3 - 3
CO4: Summarize the microbiological standardization of Pharmaceuticals.	3	-	2	-	3	3 - 3 - 3
CO5: Outline cell culture technology and its applications in pharmaceutical industries.						
Average course outcomes = 2.84 (max 3.00)	3	-	2.5	-	3	3 - 3 - 2.7



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P.G. Professional College of Pharmacy
SHAHADA-413409, Nandurbar

A handwritten signature of the Principal, Dr. Sunil R. Pawar, is placed here.

पूज्य माने श्रद्धादी फारा प्रसारक संघराम
मोर्चापत्रिवालन अवधारणा

पा. शंकर नं. ४९
गाराडा, तिं. करवार, (महाराष्ट्र) ४११४०६

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II संकाय | ३०४ | अप्रैल २०११

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(B.Corn.)
President

Smt. Kamalata P. Patil
(Hon. Secretary)

Dr. Sunil P. Pawar
(M.Pharm., Ph.D.)
Principal

The student should able to	
CO1: Explain use of various unit operations used in pharmaceutical industries.	3 - - - 3 - - 3 - - - 3
CO2: Describe the material handling techniques.	3 - - - 2 - - 3 - - - 3
CO3: Discuss various methods of hazards and safety management used in Pharmaceutical industry.	3 - - - 2 - - 3 - - - 3
CO4: Outline the significance of plant layout design for optimum use of resources.	3 - - - 2 - - 3 - - - 3
CO5: Enumerate the various preventive methods used for corrosion control in Pharmaceutical industry.	3 - - - 2 - - 3 - - - 3
Average course outcomes = 2.80 (max 3.00)	3 - - - 2.2 - - 3 - - - 3

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भोजपुरनियाशास्त्र अवलियाचार



पा. चैम्प नं. ५२

गाराडा, जि. नंदुरमार, (महाराष्ट्र) ४११५४०९;

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(B.Com)
President

Smt. Kamaltai R. Patil

Hon. Secretary

Hon. Secretary

॥ ऋतिक आरा भावाविनाश ॥

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Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)
Principal

BP30SP. Pharmaceutical organic chemistry-II	The student should able to							
	CO1: Determine the physical constants like acid value, saponification value and Iodine value of organic compounds.	3	-	2	2	-	-	3
	CO2: Synthesize certain organic compounds through acetylation, halogenation, nitration, oxidation, hydrolysis, Perkins and claisen condensation reactions.	3	-	2	2	-	-	3
	Average course outcomes = 2.50 (max 3.00)	3	-	2	2	-	-	3
BP306P. Physical Pharmaceutics-I	The student should able to							
	CO1: Determination of various physicochemical properties of drug molecules applicable in the designing of dosage forms.	3	-	3	2	-	-	2
	CO2: Analyze HLB number of a surfactant by saponification method.	3	-	2	3	-	-	2
	CO3: Compare and contrast between different method used in the determination of the same physicochemical parameters.	3	-	3	2	-	-	3
Average course outcomes = 2.48 (max 3.00)		3	-	2.6	2.3	-	-	2
		3	-	2.6	2.3	-	-	2
		3	-	2.6	2.3	-	-	2
		3	-	2.6	2.3	-	-	2

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महाराष्ट्रातील असेफामिसी
 नं. शाखा सं. #१
 आमा, फ्र. नववरात्र, (आमांग) ४२४४०४



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(B. Com.)
President

Smt. Kamalai P. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)
Principal

The student should able to							
BP 307P Pharmaceutical Microbiology	CO1: Select and utilize different equipment and processing in experimental microbiology	3	-	-	3	-	2
	CO2: Identify and isolate various Microorganisms.	3	-	-	2	-	3
	CO3: Perform sterility testing of pharmaceutical Products.	3	-	-	2	-	3
	CO4: Perform microbiological standardization of Pharmaceuticals.	3	-	-	2	-	3
	Average course outcomes = 2.6 (max 3.00)	3	-	-	2.2	-	2
BP308P - Pharmaceutical Engineering	The student should able to						
	CO1: Perform various unit operation process involved in pharmaceutical manufacturing.	3	-	-	2	-	3
	CO2: Perform numerical involved in calculating process related determinants.	3	-	-	2	-	3
	CO3: Create graphs and illustrate actions for data representation.	3	-	-	2	-	3
	CO4: Analyze and interpret the data generated from the experiments performed.	3	-	-	2	-	3
	Average course outcomes = 2.75 (max 3.00)	3	-	-	2	-	3

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प्रोफेशनल फार्मासिटीज अंड फार्मासियच

का. भारत ३, नं.
गांधी, निः. नवरात्र, (मालवाड) संदर्भ ४०१



॥ असावा आवा विद्यावाचन ॥

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President

Smt. Kamalai P. Patil

Hon. Secretary

Dr. Sunil R. Pawar

(M.Pharm., Ph. D.)
Principal

Second Year B. Pharm (Semester- IV)

The student should able to

BP401 T. Pharmaceutical organic chemistry- III	CO1: Explain the stereo chemical aspects of organic compounds and stereo chemical reactions.	3	-	3	3	-	3	-	3	-	3
	CO2: Understand the methods of determination of configuration of geometrical isomers.	3	-	2	2	-	-	3	-	2	-
	CO3: Know the medicinal uses and other applications of heterocyclic compounds	3	-	2	2	-	-	3	-	2	-
	CO4: Describe the medicinal uses and other applications of Pyrimidine, Purine, azepines and their derivatives.	3	-	2	2	-	-	3	-	2	-

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	CO5: Know the reactions like Clemmensen reduction, Oppenauer-oxidation and Dakin reaction. Average course outcomes = 2.6 (max 3.00)	3	-	2	2	-	-	3	-	2	-	3
	The student should able to			2.3	2.3	-	-	3	-	2	-	3
	CO1: Correlate the physicochemical properties and metabolism of drugs with biological activity.	2	-	2	2	-	-	2	-	2	-	3
BP402T Medicinal Chemistry-I	CO2: Explain the chemistry of drugs acting on central nervous system like adrenergic.	2	-	2	2	-	-	2	-	2	-	3
	CO3: Describe the chemistry of drugs acting on central nervous system like Cholinergic.	3	-	2	-	-	-	2	-	2	-	3
	CO4: Explain the chemistry of drugs Benzodiazepines, Barbiturates, Phenothiazine.	2	-	2	-	-	-	2	-	2	-	3
	CO5: Describe the chemistry of drugs narcotic and non-narcotic analgesics.	3	-	2	-	-	-	2	-	2	-	3
	Average course outcomes = 2 (max 3.00)	2.3	-	2	2	-	-	2	-	2	-	3
	The student should able to											



पूजा साने शुक्री विष्णु प्रसारक भवनारे
फा. चर्चस वे. नं ६५

आगांवा, फॅ. नंदुराशर, (महाराष्ट्र) ४११००८



Poojya Sane Gurujī Vidyā Prasarak Mandal's **COLLEGE OF PHARMACY**

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● Fax. No. 229740 Tel. No. 02565-229168 ● E-mail: copshd@gmail.com ● Website : psgvpppharmacy.ac.in

Bapusaheb Dipak Patil

(B.Com.)
President

Smt. Kamalai P. Patil

Hom. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)
Principal

BP403T. Physical pharmaceutics-II	CO1: Understand colloidal based on their general properties,principles of formulation and evaluation.	3	-	3	2	-	-	2	-	2	-	3
	CO2: Explain and comprehend the principles of preformulations like rheology, deformation of solid and micromeretics.	3	-	3	2	-	-	2	-	2	-	3
	CO3: Understand course dispersion based on their general properties,principles of formulation and evaluation.	3	-	3	2	-	-	2	-	2	-	3
	CO4: Explain methods for determining particle size by different methods.	3	-	2	3	-	-	2	-	2	-	3
	CO5: Explain with illustration the principles of chemical kinetics & to use them for stability testing and determination of expiry date of formulations.	3	-	2	3	-	-	2	-	2	-	3
	Average course outcomes = 2.48 (max 3.00)	3	-	2.7	2.2	-	-	2	-	2	-	3

PRINCIPAL
P.S.G.V.P.P. Pharmacy
NANDURBAR



पूर्ण सारने शुरू करे विद्या प्रसारक मंडळाचे
अधिनियमितीतारत अभियासात्मक



फा. अधिकारी नं. रा. ५
गांव, ई. कलंवार, (माराठा) ४४३४४००३

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Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph.D)
Principal

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	The student should able to										
	CO1: Explain various terminologies used in pharmacology like synergism, agonist, antagonist, side effect, adverse effects etc.	3	-	1	-	2	1	-	3	-	2
	CO2: Describe the pharmacodynamics & therapeutic principles and mechanisms of drug action, receptor theories and classification of receptors.	3	-	1	-	2	1	-	2	-	2
	CO3: Discuss the mechanism of drug acting on peripheral nervous system.	3	-	1	-	1	1	-	3	-	2
	CO4: Classify various drugs used for the drug acting on central nervous system.	3	-	1	-	2	1	-	2	-	2
	CO5: Describe the pharmacological actions of different categories of drugs used in Parkinson's disease and Alzheimer's disease.	3	-	1	-	2	1	-	3	-	2
	Average course outcomes = 1.82 (max 3.00)	3	-	1	-	1.7	1	-	2.3	-	2
	The student should able to										
	CO1: Explain history, scope, development of pharmacognosy, sources of drugs and different classifications of drugs.	3	-	2	3	1	2	3	3	-	3

Dr. Sunil P. Pawar
Principal
P.G.V.P.P. College of Pharmacy



पूजा गुरुजी विद्या प्रसारक संसदीय
मोर्योपाधिकारी एवं अधिकारी कालाश



पूजा गुरुजी विद्या प्रसारक संसदीय
COLLEGE OF PHARMACY

पा. भौतक नं. ४४
गांधी, तिं. नंदुरबार, (महाराष्ट्र) ४१३५४०५

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(B.Com)
President

Smt. Kamalata P. Patil
(B.Com)
Hon. Secretary

Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

BP405T. Pharmacognosy & phytochemistry-I	CO2: Comprehend and understand cultivation, collection, processing, storage of drugs of natural origin, conservation of medicinal plants.	3	-	3	2	1	2	3	3	3	-	3
	CO3: Explain and understand plant tissue culture including its development, applications.	3	-	3	2	1	2	3	3	3	-	3
CO4: Understand morphology and anatomy of plant parts. Explain classification, properties, identification of Glycosides, Tannins, volatile oil, Flavonoids and Resins.	3	-	2	3	1	2	3	3	3	-	3	
CO5: Understand and explain Comprehend the biological source, chemical nature, uses of plant fibers, hallucinogens, Teratogens, Natural allergens.	3	-	3	2	1	2	3	3	3	-	3	
Average course outcomes = 2.50 (max 3.00)	3	-	2.6	2.3	1	2	3	2.6	3	-	3	
<i>[Signature]</i>	The student should able to											



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पौज्या साने गुरुजी विद्या प्रसारक मंडळ

पा. घोरम नं. ६९
शहदा, झि. संस्कृत, (भारतात) ४१३५४०९०



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Smt. Kamalai P. Patil
(B.Com.)
Hon. Secretary

Dr. Sunil P. Pawar
(M.Pharm., Ph.D.)
Principal

BP406P, Medicinal chemistry-I	CO1: Synthesize and explain reaction mechanism of medicinally important compounds by using conventional methods..	3	-	2	2	-	-	3	-	2	-	3
	CO2: Perform quantitative analysis of drugs such as Chlorpromazine, Phenobarbitone, Atropine, Ibuprofen, Aspirin and Furosemide.	3	-	2	2	-	-	3	-	2	-	3
	Average course outcomes = 2.5 (max 3.00)	3	-	2	2	-	-	3	-	2	-	3
	The student should able to											
	CO1: Determine physicochemical properties in the formulation development and evaluation of dosage forms.	3	-	3	2	-	-	2	-	2	-	3
	CO2: Make use of principles of chemical	3	-	2	3	-	-	2	-	2	-	3



[Signature]

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मोर्हेनिमित्तग्राहक विद्यालयाचे

पा. अधिकृत नं. ४४

गांवां, फा. नव्यां, (महाराष्ट्र) ४१२५५०५५



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(B.Com.)
President

Dr. Sunil R. Pawar

(M.Pharm., Ph. D.)
Principal

Hon. Secretary

	kinetics & to use them for stability testing.												
CO3: Compare and contrast between different Method used in the determination of the same physicochemical parameters.	3	-	2	2	-	-	2	-	2	-	2	-	3
CO4: Demonstrate and explain the effect of different excipients and their differing concentration on physicochemical determinants of dosage forms.	3	-	2	3	-	-	2	-	2	-	2	-	3
Average course outcomes = 2.45 (max 3.00)	3	-	2.2	2.5	-	-	2	-	2	-	2	-	3
The student should able to													
CO1: Handle the laboratory equipments and apply techniques used in experimental pharmacology. CO2: Identify various laboratory animals and describe CPCSEA guidelines for care and handling and care of laboratory animals.	3	3	2	1	-	1	2	-	-	1	1	2	
BP408P. Pharmacology¹													
CO3: Explain common laboratory techniques,	3	3	3	1	-	1	1	-	1	-	-	-	2
CO4: Describe the different routes of drug administration in mice/rats.	3	3	2	1	-	1	1	-	1	-	-	-	2

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पा. चारिस नं. ५६
शाहदा, रोड, नंदुरम, (महाराष्ट्र) ४११५०५



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President

Smt. Kamalata P. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)
Principal

CO5: Demonstrate the effect of drugs on animals by simulated experiments.	3	3	3	1	-	1	-	1	-	-	-	2
CO1: Handle the laboratory equipments and apply techniques used in experimental pharmacology. CO2: Identify various laboratory animals and describe CPCSEA guidelines for care and handling and care of laboratory animals.	3	3	2	1	-	1	2	-	-	1	2	
Average course outcomes = 1.81 (max 3.00)	3	3	2	1	-	1	1.5	-	1	1	2	



PGDCA
Syllabus
2013-14

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प्रगतिशील अनुदान

पा. चैकम नं. ५१

चाला, फै. नंदुरार, (महाराष्ट्र) ४२५४००५



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(M.Pharm., Ph. D.)
Principal

Hon. Secretary

Smt. Kamalai P. Patil

Bapusaheb Dipak Patil
(B.Com.)
President

The student should able to						
BP409P, Pharmacognosy & Phytochemistry-I	CO1: Perform analysis of crude drugs by chemical tests	3	3	3	-	2
	CO2: Determine and perform stomatal number, stomatal index, vein islet number, vein islet termination and palisade ratio of leaf drug.	3	3	3	-	2
	CO3: Understand and determine size of starch grains, calcium oxalate crystals, length and width of fiber by eye piece micrometer and number of starch grains by Lycopodium spore method.	3	3	3	-	2
	CO4: Perform Ash value, Extractive values, moisture content, swelling and foaming index of crude drug.	3	3	3	-	2
	Average course outcomes = 2.75 (max 3.00)	3	3	3	-	2
						3



Dr. Sunil P. Pawar
Principal
30/04/2017

[Signature]

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महाराष्ट्र अधिकारी अभियान



फौ. घोड़ाम नं. ४१
शाहदा, झ. काशीगढ़, (महाराष्ट्र) ४१३५०९

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Hon. Secretary

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Principal

	Student should able to	3	-	2	3	-	-	3	-	2	-	3
BP502T. Industrial Pharmacy-1	CO1: Know the various Preformulation studies of pharmaceutical dosage.											
	CO2: Formulate solid, liquid and semisolid dosage forms and evaluate them for their Quality.	3	-	2	2	-	-	3	-	2	-	3
	CO3: Know various considerations in development of pharmaceutical dosage forms like capsules, pellets.	3	-	3	3	-	-	3	-	2	-	3
	CO4: Formulate parenteral and ophthalmic dosage forms and evaluate them for their quality.	3	-	2	2	-	-	3	-	2	-	3
	CO5: Formulate and evaluations of cosmetics and aerosol dosage forms and evaluate them for their quality.	3	-	3	2	-	-	3	-	2	-	3
	Average course outcomes = 2.6 (max 3.00)	3	-	2.3	2.3	-	-	3	-	2	-	3
	The student should able to											
BP503T. Pharmacology II	CO1: Understand the mechanism of drug action and its relevance in the treatment of different diseases & hemodynamic and electrophysiology of heart.	3	-	1	2	-	-	2	-	2	-	2
	CO2: Pharmacology of drug acting on cardiovascular system.	3	-	1	2	-	-	1	-	2	-	2
	CO3: Explain the autocoids and related drugs.	3	-	1	2	-	-	2	-	2	-	2



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CO4: To Explain Pharmacology of drugs acting on Endocrine system.	3	-	1	2	-	-	2	-	2	-	2
CO5: Describe the bioassay and its role in drug discovery	3	-	1	2	-	-	2	-	2	-	2
Average course outcomes = 1.95 (max 3.00)	3	-	1	2	-	-	1.7	-	2	-	2
The student should able to											
CO1: Know the metabolic pathways in higher plants and their determination.	3	-	2	2	-	-	3	-	2	-	3
CO2: Understand the composition, chemistry & chemical classes, biosources, therapeutic uses and commercial applications of various different classes of the drugs.	3	-	2	3	-	-	3	-	2	-	3
CO3: Know the characterization and identification of the herbal drugs and phytoconstituents.	3	-	2	3	-	-	3	-	2	-	3
CO4: Establish the characterization and identification of the herbal drugs like Forskolin, Sennoside, Artemisinin, Diosgenin, Digoxin.	3	-	2	2	-	-	3	-	2	-	3
CO5: Understand Modern methods of extraction, application of latest techniques like Spectroscopy,	3	-	2	2	-	-	3	-	2	-	3
Average course outcomes = 2.58 (max 3.00)	3	-	2	2.5	-	-	3	-	2	-	3

[Signature]
Principal
Poojya Sane Guruji Vidyā Prasarak Mandal's College of Pharmacy



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पौज्यविजितिकारण अधिकारी

पा. अर्कम नं. ४१

गांधी, फै. नंदुरबाबा (मालाराट)८७५४४०९

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(B.Com)
President

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(M.Pharm., Ph.D.)
Principal

Smt. Kamalata P. Patil
Hon. Secretary

	The student should able to												
	CO1: Acquire knowledge on schedule rules, laws and regulations related to drugs and cosmetics.	3	-	2	3	-	-	3	-	3	-	2	
	CO2: Explain detailed study of Schedule G, H, M, N, P, T, U, V, X, Y, and General labeling requirements.	3	-	3	3	-	-	3	-	2	-	3	
	CO3: Describe the various acts pharmacy act, medicinal and toilet preparation act etc.	3	-	2	2	-	-	3	-	2	-	3	
	CO4: Explain other acts and rules associated with magic remedies and national pharmaceutical pricing authority.	3	-	2	2	-	-	3	-	2	-	3	
	CO5: Describe the various pharmaceutical legislations, code of pharmaceutical ethics and intellectual property rights.	3	-	2	2	-	-	3	-	2	-	3	
	Average course outcomes = 2.6 (max 3.00)	3	-	2.2	2.5	-	-	3	-	2.2	-	2.7	
	The student should able to												
	CO1: Correct use of various equipments in pharmaceutical laboratory relevant to tablets, capsules and tablet coating.	3	3	3	2	-	-	3	-	2	-	3	
	CO2: Inculcate the knowledge of formulation, evaluation and labeling of tablets & capsules,	3	-	3	3	-	-	2	-	-	3	2	
	BP506P, Industrial Pharmacy												



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गोपनीयतावान अद्वितीय



पा. गोपनीय नं. ५७
आमाश, जि. नंदुरवार, (महाराष्ट्र) ४११००९

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Hon. Secretary

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(M.Pharm., Ph. D.)
Principal

॥ विद्या आपा विजयाकारा ॥

Pojoya Same Guraji Vidyा Prasarak Mandal's
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1	CO3: Use the equipments and apparatus needed for the preparation as per SOP.	3	-	2	2	-	-	3	-	3	-	3
	CO4: Describe use of ingredients in formulation and category of formulation.	3	3	2	2	-	-	3	-	-	-	2
	Average course outcomes = 2.67 (max 3.00)	3	3	2.5	2.2	-	-	2.7	-	2.5	3	2.5
	The student should able to											
	CO1: Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments	3	2	1	-	-	2	3	2	2	-	2
	CO2: Demonstrate the effect of drugs on animals by simulated experiments.	3	-	1	-	-	2	1	-	2	-	2
	CO3: Concepts of bioassays, Simulated bioassays using suitable software for interpolation assay.	3	2	1	2	-	-	-	-	2	-	2
	Average course outcomes = 2.0 (max 3.00)	3	2	1	2	-	2	2	2	2	-	2
	<i>[Signature]</i>											

प्राप्ति क्रमांक
प्राप्ति क्रमांक
प्राप्ति क्रमांक
प्राप्ति क्रमांक



पुण्य समै शृंगारी विद्या प्रसारक मंडळाचे

पा. चौम्ह नं. ८९
चालाता, टीज. नंदुरापान, (महाराष्ट्र) ४१२५४००९



पूण्य समै शृंगारी विद्या प्रसारक मंडळाचे
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President

Smt. Kamalata P. Patil
Hon. Secretary

Dr. Sunil R. Pawar
(M.Pharm., Ph. D.)
Principal

BP602T, Pharmacology III	The student should able to						
	CO1:	Know pharmacology of drug acting on respiratory system.	3	2	1	-	-
	CO2:	Understand general principles of chemotherapy of different drugs.	3	-	1	-	2
	CO3:	Explain the chemotherapy of different drugs like antitubercular agents and antileprotic agents etc.	3	2	1	2	-
	CO4:	Learn the chemotherapy of urinary tract infections and sexually transmitted diseases as well as immunopharmacology.	3	2	1	-	2
	CO5:	Understand principles of toxicology and chronopharmacology.	3	-	1	-	2
	Average course outcomes = 1.96 (max 3.00)						

[Signature]

PROFESSOR
COLLEGE OF PHARMACY
SHAHADA, DIST. NANDURBAR



पूज्य समे शुद्धी विद्या प्रसारक संस्कारण
गोपनीयता अवधारणा



पा. नं. ४८, नं. ५५
शहादा, निज. संस्कारण, (माहात्म्य) ४२५४००९
पूज्य समे शुद्धी विद्या प्रसारक संस्कारण

COLLEGE OF PHARMACY

P. O. Box. No.41
Shahada, Dist.: Nandurbar. (M.S.) 425 409

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• Fax. No. 229740 Tel. No. 02565-229168 • E-mail: copshd@gmail.com • Website : psgpppharmacy.ac.in

Bapusaheb Dipak Patil

(B.Com.)
President

Smt. Kamalata P. Patil

Hon. Secretary

Dr. Sunil R. Pawar

(M.Pharm., Ph. D.)
Principal

BP602T. Pharmacology III

The student should able to

CO1: Know pharmacology of drug acting on respiratory system.	3	2	1	-	-	2	3	2	2	-	2
CO2: Understand general principles of chemotherapy of different drugs.	3	-	1	-	-	2	1	-	2	-	2
CO3: Explain the chemotherapy of different drugs like antitubercular agents and antileprotic agents etc.	3	2	1	2	-	-	-	-	2	-	2
CO4: Learn the chemotherapy of urinary tract infections and sexually transmitted diseases as well as immunopharmacology	3	2	1	-	-	2	3	2	2	-	2
CO5: Understand principles of toxicology and chronopharmacology.	3	-	1	-	-	2	1	-	2	-	2
Average course outcomes = 1.96 (max 3.00)	3	2	1	2	-	2	1.7	2	2	-	2

[Signature]

PRINCIPAL
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SHAHADA - 425409



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SHAHADA - 425409

पुस्तक सामग्री विद्या प्रसारक मंड़बाबाई

II अंतर्राष्ट्रीय प्राविधिकीय

गोप्य सामग्री विद्या प्रसारक मंड़बाबाई

COLLEGE OF PHARMACY

फॉ. घरेलू नं. ५५

शहादा, जिस नंदुरम, (महाराष्ट्र) ४२५४०५



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(B. Com.)
President

Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

Smt. Kamalai P. Patil

Hon. Secretary

The student should able to						
CO1:	Understand raw material as source of herbal drugs from cultivation to herbal drug Product.	3	-	2	2	-
CO2:	Know the nutraceutical & general introduction to interaction and classification.	3	2	3	3	-
CO3:	Summarized the conventional herbal formulations like syrups, mixtures and tablets	3	3	3	3	-
CO4:	Understand WHO & ICH guidelines, Farmers right, Breeder's right, Regulations in India (ASU DTAB, ASU DCC) etc.	3	3	3	2	-
CO5:	Learn Present scope and future of Herbal drugs industry and Schedule T.					
Average course outcomes = 2.85 (max 3.00)						
The student should able to						
CO1:	Understand the concepts of absorption and distribution of drug Products.	3	-	2	3	-
CO2:	Understand the concepts of bioavailability, bioequivalence and elimination of drug Products.	3	2	3	2	3
CO3:	Understand various pharmacokinetic parameters, their significance.	3	2	2	2	3
CO4:	Elaborate the multi compartment modeling.	3	2	2	2	3
BP604T. Biopharmaceutics and Pharmacokinetics						

P.S.G.V.P.P.P.H.M.D.
B.P.G.V.P.P.P.H.M.D.
S.M.U.J.L.

Dr. Sunil P. Pawar
Principal
Shahada, Dist. Nandurbar

पुरुष साने गुणी विद्या प्रसारक मंडळाचे
पो. चयम सं. ४७
शहादा, तिं. नंदुरवार, (महाराष्ट्र) ४२५४५०१
प्रमाणीनंतरात अभ्यास



॥ पौज्य शाने गुणी विद्या प्रसारक मंडळाचे ॥
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Saputareb Dipak Patil

(B.Com.)
President

Smt. Kamalai P. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

	CO5: Know Michaelis-Menten method of estimating parameters.	3	3	2	3	-	2	3	-	3	3
	Average course outcomes = 2.72 (max 3.00)	3	2.5	2	3	-	2	3	-	3	3
	The student should able to										
BP605T. Pharmaceutical Biotechnology	CO1: Understand and describe the basic concept in biotechnology with reference to pharmaceutical Sciences.	3	-	2	2	-	2	3	-	3	-
	CO2: Able to elaborate the application of genetic engineering in medicine.	3	-	2	2	-	2	3	-	3	-
	CO3: To know about Hybridoma technology, Structure and Function of MHC, Immunoglobulins.	3	-	2	2	-	2	3	-	2	-
	CO4: Understand the basic concept behind ELISA.	3	-	2	2	-	2	3	-	2	-
	CO5: Understand and describe the basic concept in Fermentation.	3	-	2	2	-	2	3	-	2	-
	Average course outcomes = 2.42 (max 3.00)	3	-	2	2	-	2	3	-	2	-

Dr. Sunil P. Pawar
Principal
P.G.V.P.W's College of Pharmacy
Shahada, Dist. Nandurbar



पूज्य माने पुस्तकी विद्या प्रसारक अंडलाचे

पा. शंखना. ४१
गोवा, भि. नंदराज, (भारत) ५८२४०६



Poojya Same Guruji Vidyaprasarak Mandal's
COLLEGE OF PHARMACY

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Shahada, Dist.: Nandurbar, (M.S.) 425 409

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Bapusaheb Dipak Patil
(B. Com.)
President

Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

Student should able to	
CO1: Understand the cGMP aspects in a pharmaceutical industry.	3 - 2 2 - - 2 - 2 - 3
CO2: Understand the scope of quality certifications applicable to pharmaceutical industries.	3 - 2 2 - - 2 - 2 - 3
CO3: Understand the responsibilities of QA & QC departments	3 - 2 2 - - 2 - 2 - 3
CO4: Understand the importance of documentation.	3 2 2 2 2 2 - 2 - 3
CO5: Understand the importance of calibration and validation.	3 2 2 2 2 2 - 2 - 3
Average course outcomes = 2.33 (max 3.00)	3 2 2 2 2 2 - 2 - 3
The student should able to	
CO1: Preparation of drugs and their intermediates.	3 3 2 3 - - 2 - - 2 3
CO2: Drawing structures and reactions using different softwares.	3 2 2 2 - - 2 - - 1 3
CO3: Determination of physicochemical properties of different drugs.	3 3 2 2 - - 2 - - 2 3
CO4: Assays of drugs	3 3 2 2 - - 2 - - 1 3
Average course outcomes = 2.35 (max 3.00)	3 2.7 2 2.2 - - 2 - - 1.5 3

BP606T, Quality Assurance
III

Dr. Sunil P. Pawar
Principal
P.G. Program in Pharmacy
Nandurbar

पुण्य साने गृहजी विद्या प्रसारक बोर्डकाचे
प्रीयोगिक फार्मासियत अवानिताराम

फॉ. नं. ४३७
आमारा, निं. नंदुरधार, (माहाराष्ट्र) ४१२४४०६



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Bapusaheb Dipak Patil

(B.Com)
President

Smt. Kamalata P. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

The student should able to							
BP608 P. Pharmacology III	COI: Dose calculation in pharmacological experiments.	3	2	2	2	-	3 - 2 - 3
	CO2: Demonstrate the effect of drugs on animals by simulated experiments.	3	2	2	2	-	2 - 1 - 3
	CO3: Determination of different toxicity study	3	2	2	2	-	2 - 1 - 3
	CO4: Different Biostatistics methods in experimental pharmacology.	3	1	1	1	-	2 - 1 - 3
	Average course outcomes = 2 (max 3.00)	3	1.7	1.7	1.7	-	2.2 - 1.2 - 3
The student should able to							
BP609P. Herbal Drug Technology	CO1: Perform preliminary phytochemical screening of crude drugs.	3	3	3	3	- 2	3 - 2 - 3
	CO2: Understanding the process behind extraction and isolation of alkaloids.	3	3	3	3	- 2	3 - 2 - 3
	CO3: To perform the TLC of herbal extract	3	3	3	3	- 2	3 - 2 - 3
	CO4: Analysis of herbal drugs.	3	3	3	3	- 2	3 - 2 - 3
	Average course outcomes = 2.75 (max 3.00)	3	3	3	3	- 2	3 - 2 - 3
	F.I.T.D.A.L.						



पुर्ण साने युक्ती विद्या प्रसारक मंडळारे
Shahada Pharmacy अधिकारात्मक
 पो. शहाडा, नांदूरमार्ग, भारत ४११५०७
 आवास. नं. ८३६३४४४४०७



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Bapusaheb Dipak Patil **Smt. Kamalata P. Patil**

(B.Com.)
 President Hon. Secretary
 (M.Pharm., Ph.D.)
 Principal

Final Year B. Pharm (Semester-VII)

The student should able to	1	2	3	4	5	6	7	8	9	10	11
	BP701 T. Instrumental Methods of Analysis	BP702 T. Quantitative & Qualitative analysis of drugs using various analytical instruments.	BP703 T. Elaborate quantitative & qualitative analysis of drugs using IR, flame photometry, atomic absorption spectroscopy.	BP704 T. Understand the chromatographic separation and analysis of drugs like TLC, Paper chromatography etc.	BP705 T. Understand the chromatographic separation and analysis of drugs like HPLC, Gas chromatography etc.	BP706 T. Understand the chromatographic separation and analysis of drugs like Ion exchange chromatography, Gel chromatography and Affinity chromatography etc.	BP707 T. Project	BP708 T. Internship	BP709 T. Seminar	BP710 T. Industrial Visit	BP711 T. Industrial Visit
The student should able to	3	—	—	3	—	2	3	—	3	—	2
CO1: Perform quantitative & qualitative analysis of drugs using various analytical instruments.	3	—	—	3	—	2	3	—	3	—	2
CO2: Elaborate quantitative & qualitative analysis of drugs using IR, flame photometry, atomic absorption spectroscopy.	3	—	—	3	—	2	3	—	3	—	3
CO3: Understand the chromatographic separation and analysis of drugs like TLC, Paper chromatography etc.	3	—	—	2	—	2	3	—	3	—	3
CO4: Understand the chromatographic separation and analysis of drugs like HPLC, Gas chromatography etc.	3	—	—	2	—	2	3	—	3	—	3
CO5: Understand the chromatographic separation and analysis of drugs like Ion exchange chromatography, Gel chromatography and Affinity chromatography etc.	3	—	—	2	—	2	3	—	3	—	3
Average course outcomes = 2.7 (max 3.00)	3	—	—	2.4	—	2	3	—	3	—	2.8

Dr. Sunil P. Pawar
 Principal
 P.G. College of Pharmacy
 Shahada, Dist. Nandurbar



पुस्तक संग्रह युनिवर्सिटी विद्या प्रसारक मंड़कार्य
मोर्चाकारी कॉलेज ऑफ़ फार्मासी



पो. नं. ४१,
आगांवा, फॉ. नं. ४१, असाराम (असाराम) ४११४०७

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Bapusaheb Dipak Patil
(B.Com.)
President

Smt. Kamalai P. Patil
Hon. Secretary

Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

The student should able to						
CO1:	Know the process of pilot plant and scale up of pharmaceutical dosage forms	3	-	2	3	1
CO2:	Understand the process of technology transfer from lab scale to commercial batch.	3	-	2	3	1
CO3:	Know different Laws and Acts that regulate pharmaceutical industry.	3	-	3	2	1
CO4:	Understand quality management systems.	3	-	3	2	1
CO5:	Understand the approval process and regulatory requirements for drug products.	3	-	2	2	1
Average course outcomes = 2.41 (max 3.00)						

Student should able to						
CO1:	Know hospital and its organization.	3	-	2	3	-
CO2:	Know various drug distribution methods in a hospital.	3	-	3	3	-



Pimpri Chinchwad Education Trust
Pimpri Chinchwad Education Trust



Bapusaheb Dipak Patil

(B.Com)
 President

Smt. Kamaltai P. Patil

(B.Com)
 HOD, Secretary
 (M.Pharm., Ph.D.)
 Principal

Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
 Principal

BP 703T. Pharmacy Practice	CO3: Know pharmacy and therapeutic committee and Role of pharmacist in the education and training program.	3	-	2	2	-	2	3	-	2	-	3
	CO4: Understand Clinical Pharmacy and Over the counter (OTC) drugs.	3	-	2	2	-	2	3	-	2	-	3
	CO5: Understand the investigational use of drugs.	3	-	2	2	-	2	3	-	2	-	3
	Average course outcomes = 2.51 (max 3.00)	3	-	2.2	2.4	-	2	3	-	2.2	-	2.8
	The students should be able to:											
	CO1: Understand various approaches for development of novel drug delivery systems.	3	-	2	3	-	2	3	-	3	-	2
	CO2: Know various novel drug delivery like transdermal drug delivery systems, nasopulmonary drug delivery system.	3	-	3	3	-	2	3	-	2	-	3
	CO3: Know various approaches of mucosal drug delivery system.	3	-	2	2	-	2	3	-	2	-	3
	BP 704T: Novel Drug Delivery Systems	3	-	2	2	-	2	3	-	2	-	3
	CO4: Understand various approaches for targeted drug delivery.	3	-	2	2	-	2	3	-	2	-	3
	CO5: Elaborate the ocular drug delivery systems.	3	-	2	3	-	2	3	-	3	-	2
	Average course outcomes = 2.51 (max 3.00)	3	-	2.2	2.4	-	2	3	-	2.2	-	2.8

TOTAL
 Department of Pharmacy
 SHRI M. B. SHRI, M. B. SHRI



पुस्तक कानूने शुल्की नियम प्रकारक संदर्भात्मे
प्रोफेशनल फार्मासिटीज एवं फार्मासियल

पा. वर्गन स. नं. ८

गाहारा, जि. नांदुरबार, (गाहारा) ४२५४०१



ii) राज्यीय और अंतर्राष्ट्रीयीय नियमों का विवरण
iii) प्राचीन और अनुचित विद्यालयों का विवरण

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Bapusaheb Dipak Patil
(B.Com)
President

Smt. Kamalata P. Patil
Hons. Secretary

Dr. Sunit P. Pawar
(M.Pharm., Ph. D.)
Principal

	The students should be able to:								
	CO1: Perform absorption maxima and effect of solvents on absorption maxima of organic compounds.	3	-	2	3	-	2	3	-
	CO2: Understand various Assay by using UV-Spectrophotometry.	3	-	3	3	-	2	3	-
	CO3: Elaborate the demonstration experiment on HPLC, Gas Chromatography etc.	3	-	2	2	-	2	3	-
BP705P, Instrumental Methods of Analysis	Average course outcomes = 2.51 (max 3.00)	3	-	2.2	2.4	-	2	3	-
							2.2	-	2.8



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PG COLLEGE OF PHARMACY
SHAHADA - 425409, MULHERBAR

प्रूष सांगे शुल्की विद्या प्राप्तकर्ता संकाय



प्रा. शंकर नं. ८१
आहारा, पंज. नंदुरम, (भारत) ४२५४०९

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Bapusaheb Dipak Patil
(B.Com.)
President

Smt. Kamalata P. Patil
(Hon. Secretary)

Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

Final Year B. Pharm (Semester-VIII)

The students should be able to

BP801 T. Biostatistics and Research Methodology	CO1: Understand various approaches in Biostatistics & Mean, Median, Mode used in pharmaceutical field.	3	-	-	3	-	-	3
	CO2: Know Definition of probability, Binomial distribution, Standard, error of mean (SEM), ANOVA, Least Significance difference.	3	-	-	2	-	-	3
	CO3: Know the various statistical techniques to solve statistical problems.	3	-	-	2	-	-	3
	CO4: Learn the operation of M.S. Excel, SPSS, R and MINITAB®, DoE (Design of Experiment)	3	-	-	2	-	-	3
	CO5: Elaborate statistical techniques in solving the problems.	3	-	-	2	-	-	3

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P.G. College of Pharmacy
Shahada, Dist. Nandurbar



॥ अस्मि आपा प्राप्तवाचिष्ठोऽम ॥ Pooja Same Guruji Vidyaprasarak Mandal's

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Shahada, Dist.: Nandurbar. (M.S.) 425 409

पुस्तक यांत्रे एवं वृक्षीय विद्या प्रशारक मंडळाचे
पा. योग्यमा नं. ४१

आहार, नियंत्रण, (नियंत्रण) संख्या ५८०९



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(B.Corn.)
President

Smt. Kamalai P. Patil
Hon. Secretary

Dr. Sunil P. Pawar
(M.Pharm., Ph.D.)
Principal

Average course outcomes = 2.81 (max 3.00)						
The students should be able to						
CO1: Understand the current issues related to health and pharmaceutical problems in the country.	3	-	2	-	3	-
CO2: Understand the medicine which is used to prevent & cure the various diseases such as cholera, SARS, Ebola virus etc.	3	-	3	-	3	-
CO3: Know different National health programs, its objectives and there functioning.	3	-	2	-	3	-
CO4: Do various National health intervention programme for mother and child education in school.	3	-	3	-	3	-
Average course outcomes = 2.76 (max 3.00)	3	-	2.6	-	3	-
The students should be able to						
CO1: Understand the various strategies in pharmaceutical market.	3	-	2	-	3	-
CO2: Know the classification, product line and product mix decisions.	3	-	2	-	3	-

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Shahada, Dist. Nandurbar



पुस्तकालय शुल्कमें विद्या प्रशासन कंट्रोलर से



पा. अधिकारी नं. ८१

गाहाडा, फै. नांदुरबार, (गढ़वाल) ४२५४०१७

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Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

BP803ET, Pharma Marketing Management	CO3: Know different online promotional techniques for OTC Products.	3	-	2	-	3	-	-	-
	CO4: Learn the duties of professional sales representative.	3	-	2	-	3	-	-	3
	CO5: Understand the meaning, importance, objectives of pricing and overview of DPCO, NPPA.	3	-	2	-	3	-	-	3
	Average course outcomes = 2.75 (max 3.00)	3	-	2.1	-	3	-	-	3
	The students should be able to								
	CO1: Understand the classification and definition of cosmetic and cosmetic excipients as per Indian and EU regulations	3	-	3	2	-	-	3	-
	CO2: Know the principles of formulation and building blocks of skin care products and hair care products.	3	-	2	2	-	-	3	-
	CO3: Understand the role of various herbs in cosmetics.	3	-	2	2	-	-	3	-
	CO4: Learn the principles of cosmetic evaluation.	3	-	2	2	-	-	3	-
	CO5: Understand the mechanism of action of antiperspirants and deodorants.	3	-	2	2	-	-	3	-
	Average course outcomes = 2.75 (max 3.00)	3	-	-	2.1	-	-	3	-


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 P.G. College of Pharmacy
 Shahada, Dist. Nandurbar

पुस्तक सारणी शूल की विद्या प्रसारक मंड़कार्य
पो. एम्पिस नं. ८१

गावास, नि. नंदुरबार, (महाराष्ट्र) संचयनालय



Poojya Sane Guruji Vidya Prasarak Mandal's
COLLEGE OF PHARMACY

P. O. Box. No.41
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Bapusaheb Dipak Patil **Smt. Kamalata P. Patil**
(B.Com.)
President

Hon. Secretary
Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

Program Outcomes M.Pharm Pharmaceutics 2017 (PCI) Pattern

Course code/Course title	Course outcomes	Program outcome									
		1	2	3	4	5	6	7	8	9	10
First Year M. Pharm (Semester I)	The student should able to										
	CO1: Understand the basic knowledge on assay of single and multiple component pharmaceuticals by using various analytical instruments such as UV-Visible, IR, and Spectroflourimetry etc.	2	2	1	-	-	2	3	-	1	1
	CO2: To develop basic practical skills using instrumentation techniques	3	1	1	-	-	1	3	-	2	1
MPH101T	CO3: Expand the theoretical knowledge on principle, theory and Instrumentation of Mass Spectroscopy	3	-	2	-	-	1	3	-	2	1
Modern Pharmaceutical Analytical Techniques	CO4: Developed the skills in selecting the suitable chromatographic techniques for separations of drugs and pharmaceuticals.	3	-	2	-	-	1	3	-	2	2
	CO5: Apply the knowledge learnt in developing new procedures of their own design.	2	2	1	-	-	2	2	-	2	2

[Signature]

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पुस्तक शासी भूमिकी विद्या प्रसारक संकायानी



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Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)

Principal

CO6: Comparing various methods of analysis and their outcomes such as RIA (Radio Immuno Assay), ELISA, Bioluminescence assays.	2	2	1	-	2	2	-	2	2	2	2
Average course outcomes = 1.85 (max 3.00)	2.5	1.7	1.3	-	1.5	2.6	-	1.7	1.5	2	
The student should able to											
CO1: Study the various approaches for development of novel drug delivery systems.	2	-	2	2	-	-	2	-	3	-	2
MPHI02T											
Drug Delivery System	2	-	2	2	-	-	2	-	2	-	2
CO2: Understand about the criteria for selection of drugs and polymers for the development of delivery systems.	2	-	2	2	-	-	2	-	2	-	2
CO3: Study the formulation and evaluation of novel drug delivery systems such as Gastro-Retentive, Transdermal etc.	3	-	2	2	-	-	2	-	2	-	3

Dr. Sunil P. Pawar
Principal
P.G. Department of Pharmacy
Shahada, 425409, Dist. Nandurbar



पूज्य राजे गुरुजी विज्ञा प्रसारक बङ्काने
नेपाली विद्यालय

पा. घोष सं. ८१
नारायण नगर, काठमाडौं ३८७०५९



०१ नारायण नगर, काठमाडौं ३८७०५९

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(B.Com.)
President

Smt. Kamaltai P. Patil
(Hon. Secretary)

Dr. Sunil R. Pawar

(M.Pharm., Ph. D.)
Principal

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	CO4: Study the various approaches in novel drug delivery systems. Average course outcomes = 2.18 (max 3.00)	3 - 2 2 - - 2 - 2 - 2 - 3
	The student should able to	
	CO1: Learn the elements of preformulation studies.	3 - - 2 - 2 - 2 - 2 - 2 - 2
	CO2: Have an idea about the active pharmaceutical ingredients and generic drug product development.	3 - - 2 - 2 - 2 - 2 - 2 - 2
	CO3: Learn various Optimization techniques and pilot plant scale up techniques.	3 - - 2 - 2 - 2 - 2 - 2 - 3
	CO4: Study of various Stability testing, sterilization process and packaging of dosage forms.	3 - - 2 - 2 - 2 - 2 - 2 - 3
	CO5: Study the Industrial Management and GMP considerations.	3 - - 2 - 2 - 2 - 2 - 2 - 3
	Average course outcomes = 2.26 (max 3.00)	3 - - 2 - 2 - 2 - 2 - 2 - 2.6
	The student should able to	
	CO1: Understand the concepts of innovator and generic drugs, drug development process.	3 - - 2 - - 3 - - 3 - 3
	CO2: Study the regulatory guidance's and guidelines for filing and approval process.	3 - - 2 - - 3 - - 3 - 3

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प्रमुख छांसे शृङ्खली विद्या प्रशासक बोर्डकाम्य
प्रौद्योगिकीय विद्यालय

पा. चार्कम नं. ४१
नानदा, तिं. नानदार, (भारत) ४२५४०९



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Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)
Principal

MPH 104T Regulatory Affairs	CO3: Preparation of dossiers and their submission to regulatory agencies in different countries.	3	-	-	2	-	-	3	-	-	-	3
	CO4: Study documentation of Post approval regulatory requirements for actives and drug products.	3	2	2	-	-	2	2	-	-	2	2
	CO5: Learn the submission of global documents in CTD/eCTD formats.	2	2	2	-	-	2	2	-	-	2	2
	CO6: Study what are the different clinical trials requirements for approvals for conducting clinical trials.	3	2	2	-	-	2	2	-	-	2	2

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(M.Pharm., Ph. D.)
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	CO7: Learn the brief knowledge about pharmacovigilance and process of monitoring in clinical trials. Average course outcomes = 2.18 (max 3.00)	2	2	2	-	-	2	2
	The student should able to							
MPH 105P Pharmaceutics Practicals - I	CO1: Perform In-vitro dissolution profile of CR/ SR marketed formulation	3	-	2	-	3	-	-
	CO2: Explain experiments based on Gas Chromatography	3	-	2	-	3	-	-
	CO3: Understand simultaneous estimation of multi component containing formulations by UV spectrophotometry	2	2	1	1	2	-	2
	CO4: Study the effect of particle size on dissolution of a tablet.	3	-	2	-	3	-	-
	CO5: Study the effect of compressional force on tablets disintegration time.	2	2	-	1	1	-	2
	Average course outcomes = 1.94 (max 3.00)	2.8	2	2	1.7	1	2.4	-
	M. Pharm First Year (Semester-II)							
	<i>//</i> The student should able to							



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PSGPPH
Shahada, Dist. Nandurbar

पुस्तकालय शूलकी विद्या प्रसारक संकाय
पं. गोप्ता नं. ४१
शहदा, जि. नंदुरबा, (महाराष्ट्र) ४११५०९



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(B.Com.)
President

Smt. Kamalata P. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph. D.)
Principal

CO1: Study the various approaches for development of novel drug delivery systems.	3	2	-	2	-	-	3	-	-	-	3
CO2: Learn the brief knowledge about the criteria for selection of drugs and polymers for the development of NIDS	3	2	-	2	-	-	3	-	-	-	3
CO3: Study the formulation and evaluation of novel drug delivery systems.	3	2	-	2	-	-	3	-	-	-	3
Average course outcomes = 2.60 (max 3.00)											3

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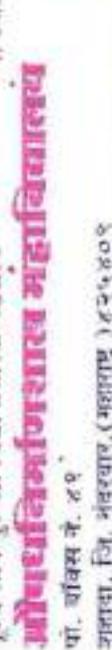
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II संस्कृत अनुवादालय II

Poojya Sane Guruji Vidyā Prasarak Mandal's

प्रयोगी शिक्षा के सिवाय प्रशासक भेदभाव से



पर्याप्त नं. ८७

नांदुराबाद, महाराष्ट्र ४१३५४००९

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Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

The student should able to						
CO1: Understand basic concepts in biopharmaceutics and pharmacokinetics.	3	2	2	-	2	2
CO2: Learn the use raw data and derive the pharmacokinetic models and parameters the best describe the process of drug absorption, distribution, metabolism and elimination.	2	2	2	-	2	2
CO3: Study the critical evaluation of biopharmaceutical studies involving drug product equivalency.	3	2	2	-	2	2
CO4: Study the design and evaluation of dosage regimens of the drugs using pharmacokinetic and biopharmaceutic parameters.	2	2	2	-	2	2
CO5: Understand the potential clinical pharmacokinetic problems and application of basics of	3	2	2	-	2	2
Average course outcomes = 2.11 (max 3.00)	2.6	2	2.2	-	2	2
The student should able to						

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पूज्य साने शुल्की विद्या विज्ञान एवं विज्ञान
Information Technology



पा. नं. ४१

नालाडा, पर. नालाडा, (गोवा) ४०३८०६

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Smt. Kamalai P. Patil
(B.Com.)
Hon. Secretary

Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

MPH203T	CO1: Explain history of Computers in Pharmaceutical Research and Development	3	2	-	2	-	-	3	-	-	-	3
Computer Aided Drug Delivery System	CO2: Understand computational Modeling of Drug Disposition	3	2	-	2	-	-	3	-	-	-	3
	CO3: Express computers in Preclinical Development	3	2	-	2	-	-	3	-	-	-	3

[Signature]
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PSGPP Pharmacy College of Pharmacy
SHAHADA, 403806, MULHERNAR

प्रत्यक्ष समाज गुरुजी विद्या प्रसारक मंडळाचे



फो. नं. ४७

आगरा, जि. नंदेश्वर, (महाराष्ट्र) ४१३५००५

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(Hon. Secretary)

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(M. Pharm., Ph. D.)
Principal

CO4: Understand the optimization Techniques in Pharmaceutical Formulation	3	2	-	2	-	3	-	-	-	3
CO5: Explain computers in Market Analysis	3	2	-	2	-	3	-	-	-	3
CO6: Know computers in Clinical Development	3	2	-	2	-	3	-	-	-	3
CO7: Know Artificial Intelligence (AI) and Robotics and Computational fluid dynamics (CFD).	3	2	-	2	-	3	-	-	-	3
Average course outcomes = 2.60 (max 3.00)	3	2	-	2	-	3	-	-	-	3
The student should able to										
CO1: Know about the key ingredients used in cosmetics and cosmeceuticals.	3	2	2	-	-	2	-	-	-	3
CO2: Discussed in brief about key building blocks for various formulations	3	2	2	-	-	2	-	-	-	3
MPH204T Cosmetics and Cosmeceuticals										
CO3: Study various key ingredients and basic science to develop cosmetics and cosmeceuticals	3	2	2	-	-	2	-	-	-	3
CO4: Have scientific knowledge to develop cosmetics and with desired Safety, stability, and efficacy.	3	2	2	-	-	2	-	-	-	3
Average course outcomes = 2.4 (max 3.00)	3	2	2	-	-	2	-	-	-	3
The student should able to										

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NANDURBAR, MAHARASHTRA



पुस्तक सारने गृह-जी विद्या प्रसारक मंड़काली

फॉ. जर्सी नं. ८१
शहदा, जिस. शहदा, (माहाराष्ट्र) ४२५४०११

Information Assurance



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(M. Pharm., Ph. D.)
Principal

MPH205P Pharmaceutics Practical II	CO1: Study the effect of temperature change , non-solvent addition, incompatible polymer addition in microcapsules preparation	3	2	-	3	-	2	3	-	3	-	3
	CO2: Understand protein binding studies of a highly protein bound drug & poorly protein bound drug.	3	2	-	2	-	2	3	-	3	-	3
	CO3: Explain computational Modeling Of Drug Disposition	2	2	-	2	-	2	2	-	1	-	2
	CO4: Develop Clinical Data Collection manual.	2	2	-	2	-	2	2	-	1	-	2
	Average course outcomes = 2.34 (max 3.00)	2.6	2	-	2.3	-	2	2.6	-	2.3	-	2.6

Course Outcome M. Pharm PHARMACEUTICAL QUALITY ASSURANCE 2017 (PCI)

Pattern

Course code/Course title	Course outcomes	Program outcome
First Year M. Pharm (Semester I)		1 2 3 4 5 6 7 8 9 10 11
Modern Pharmaceutical Analytical Techniques (MQA101T)	<p>The student should able to</p> <p>CO1: Understand the basic knowledge on assay of single and multiple component pharmaceuticals by using various analytical instruments such as UV, Visible, IR, and Spectrofluorimetry etc.</p>	<p>2 2 1 - - 2 3 - 1 1 2</p>



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CO2: Develop basic practical skills using instrumentation techniques	3	1	1	-	-	1	3	-	2	1	2
CO3: Expand the theoretical knowledge on principle, theory and Instrumentation of Mass Spectroscopy.	3	-	2	-	-	1	3	-	2	1	2
CO5: To apply the knowledge learnt in developing new procedures of their own design											
CO4: Skills in selecting the suitable chromatographic techniques for separations of drugs and pharmaceuticals	3	-	2	-	-	1	3	-	2	2	2
CO6: To apply the knowledge learnt in developing new procedures of their own design	2	2	1	-	-	2	2	-	-	2	2
CO6: Comparing various methods of analysis and their outcomes such as RIA (Radio Immuno Assay), ELISA, Bioluminescence assays.	2	2	1	-	-	2	2	-	-	2	2
Average course outcomes = 1.85 (max 3.00)	2.5	1.7	1.3	-	-	1.5	2.6	-	1.7	1.5	2
The student should able to											
Quality Management Systems (MQA 102T)											
CO1: Study the various approaches for the importance of quality as a strategic decision.	2	-	2	2	-	-	2	-	3	-	2



पूजा साने गुरुजी विद्या प्रसारक, मंड़दाराजे
वा. फॉर्म नं. ६२

महाराष्ट्र, फॉ. अस्त्राचार, (महाराष्ट्र) ४११४०९



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Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

CO2: Understand about the Tools for quality improvement.	2	-	2	2	-	-	2	-	2	-	2
CO3: To study the various statistical approaches for quality.	3	-	2	2	-	-	2	-	2	-	3
CO4: To study the ISO management systems.	3	-	2	2	-	-	2	-	2	-	3
Average course outcomes = 1.85 (max 3.00)	2.5	-	1.3	2	-	-	2	-	2.3	-	2.5

The student should able to											
CO1: Understand the cGMP aspects in a pharmaceutical industry.	2	2	1	-	-	2	3	-	1	1	2
CO2: Understand the scope of quality certifications applicable to Pharmaceutical industries	3	1	1	-	-	1	3	-	2	1	2
CO3: Understand the responsibilities of QA & QC departments.	3	-	2	-	-	1	3	-	2	1	2
CO4: Appreciate the importance of documentation.											
CO1: Understand the cGMP aspects in a pharmaceutical industry.	3	-	2	-	-	1	3	-	2	2	2
CO2: Understand the scope of quality certifications applicable to Pharmaceutical industries											

Quality Control and Quality Assurance
(MQA 103T)

AB/

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COLLEGE OF PHARMACY

फा. अर्जन सं. ४१
गोवा, फा. नंदुरार, (महाराष्ट्र) ४२५५०५



॥ संस्कृत भाषा कामगारातीलकडे ॥

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Smt. Kamalata P. Patil
(Hon. Secretary)

Dr. Sunil P. Pawar
(M.Pharm., Ph. D.)
Principal

	CO3: Understand the responsibilities of QA & QC departments,	2	2	1	-	-	2	2	-	-	2	2
	Average course outcomes = 1.85 (max 3.00)	2.5	1.7	1.3	-	-	1.5	2.6	-	-	1.7	1.5
	The student should able to											
	CO1: Understand the necessary information to transfer technology from R&D to actual manufacturing by sorting out various information obtained during R&D	2	-	2	2	-	-	2	-	3	-	2
	CO2: Understand the new product development process	2	-	2	2	-	-	2	-	2	-	2
	Product Development and Technology Transfer (MQA 104T)	3	-	2	2	-	-	2	-	2	-	3
	CO3: Elucidate necessary information to transfer technology of existing products between various manufacturing places	2.5	-	2	2	-	-	2	-	2.3	-	2.3
	Average course outcomes = 1.85 (max 3.00)	2.5	-	2	2	-	-	2	-	2.3	-	2.3

PRINCIPAL
Poojya Sane Guruji College of Pharmacy
Shahada, Dist. Nandurbar, (M.S.) 425 409



पुस्तक साले शुद्धीनि विद्या प्रसारक मंडळाचे
पो. चौकम नं. ४९
शाहाडा, जिं. नवरात्रा, (महाराष्ट्र) ४११५०९



POOJYA SAME GURUJI VIDYAPRASARAK MANDAL'S

COLLEGE OF PHARMACY

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Bapusaheb Dipak Patil

(B.Com.)
President

Smt. Kamalata P. Patil

Hon. Secretary

Dr. Sunil P. Pawar

(M.Pharm., Ph.D.)
Principal

Course code/Course title	Course outcomes	Program outcome								
		1	2	3	4	5	6	7	8	9
M.Pharm First Year (Semester-II)	The student should able to									
	CO1: Ensure safety standards in pharmaceutical industry.	2	2	1	-	-	2	3	-	1
Hazards and Safety Management (MQA 2017)	CO2: Understand Impart basic knowledge about the environment and its allied problems.	3	1	1	-	-	1	3	-	2
	CO3: Teach the method of Hazard assessment, procedure, methodology for provide safe industrial	3	-	2	2	1	3	-	2	1

पूज्य साने गुरुजी विद्या प्रसारक, मंडलार्य
गोपनीयतावाला अभियान



पर्याप्ति नं. ५१

शासन, फा. नंगराज, भोपाल (मध्य प्रदेश) ४६२००५

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	atmosphere.										
	Average course outcomes = 1.85 (max 3.00)	2.5	1.7	1.3	-	-	1.5	2.6	-	1.7	1.5
	The student should able to										
Pharmaceutical Validation (MQA 2021)	CO1: Understand qualification of various equipment's and instruments	2	-	2	2	-	-	2	-	3	-
	CO2: Explain Validation of analytical method for estimation of drugs	2	-	2	2	-	-	2	-	2	-
	CO3: Know Process validation of different dosage forms.	3	-	2	2	-	-	2	-	2	-
	Average course outcomes = 1.85 (max 3.00)	2.5	-	1.3	2	-	-	2	-	2.3	-
	The student should able to										
Audits and Regulatory Compliance (MPA 203T)	CO1: Understand the importance of auditing	2	-	2	2	-	-	2	-	3	-
	CO2: Understand the methodology of auditing.	2	-	2	2	-	-	2	-	2	-
	CO3: Carry out the audit process.	3	-	2	2	-	-	2	-	2	-
	CO4: Prepare the auditing report	3	-	2	2	-	-	2	-	2	-
	Average course outcomes = 1.85 (max 3.00)	2.5	-	2	2	-	-	2	-	2.3	-

[Signature]
Dr. Sunil P. Pawar
Principal
College of Pharmacy
Nandurbar

पुस्तक साले युवा जीवन प्रशासक मंडळाचे

ओमेश्वरिनिधि अध्यारोपण असाहाय्य



पा. गांधी ने. ८९
गाहाचा, जि. नंवरपाटा, माहाराष्ट्र ४११०५९

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(M.Pharm., Ph.D.)
Principal

The student should able to	
Pharmaceutical Manufacturing Technology (MQA 2041)	CO1: Understand the common practice in the pharmaceutical industry developments, plant layout and production planning.
	CO2: Explain principles and practices of aseptic process technology, non sterile manufacturing technology and packaging technology. Average course outcomes = 1.85 (max 3.00)
	2.5 2.1 2 2 = 2 = 2.3 = 2.3

The student should able to	
Quality Assurance Practical – II (MQA 205P)	CO1: Perform Organic contaminants residue analysis by HPLC.
	CO2: Analyse Validation of an analytical method for a drug.
	CO3: Understand Cleaning validation of one equipment.
	CO4: Explain Case study on application of QbD.
	Average course outcomes = 1.85 (max 3.00)
Course code/Course title	Course outcomes
	Program outcome

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आहारा, निं. नवव्यापा, गोवारांग ४४५४०७



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Principal

Dr. Sunil P. Pawar
(M.Pharm., Ph.D.)

M.Pharm First Year (Semester-III)

The student should able to

	1	2	3	4	5	6	7	8	9	10	11
CO1: Understand General Research Methodology Its objective, requirements, practical difficulties, review of literature, study design.	2	2	1	-	-	1	3	-	1	1	2
CO2: Understand Biostatistics its Definition, application, sample size, importance of sample size, factors influencing sample size, dropouts.	3	1	1	-	-	1	3	-	2	1	2
CO3: Know about Medical Research its History, values in medical ethics, autonomy, beneficence, on-maleficence, double effect, conflicts between autonomy and beneficence/non-maleficence.	3	1	1	-	-	1	3	-	2	1	2
Research Methodology & Biostatistics (MRM 301T)	3	1	1	-	-	1	3	-	2	1	2
CO4: Know about CPCSEA guidelines for laboratory animal facility its Goals, veterinary care, quarantine, surveillance.	3	-	2	-	-	1	3	-	2	1	2
CO5: Understand Declaration of Helsinki its History, introduction, basic principles for all medical research.	3	-	2	-	-	1	3	-	2	1	2
Average course outcomes = 1.85 (max 3.00)	3	1.2	1.3	-	-	1	3	-	1.8	1.5	2

Dr. Sunil P. Pawar
Professor of Pharmacy
Shahada-Nandurbar



(i) उत्तमतम अवलम्बनात्मक ॥

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