



Shreesakti Shaikshanik Sanstha's

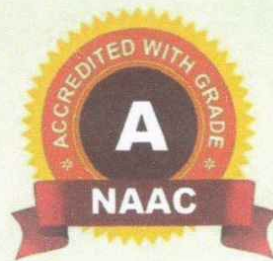
# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: divinecop15@gmail.com

Web: www.divinepharmacy.in



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).

Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

## 1.2.2 - Number of Add on /Certificate programs offered during the year

Academic Year 2023-2024

Sr. no	Name of Course	Course Year	No of Enrollment Student /Total Student
<b>Add on Courses 2023-2024</b>			
1	<b>Gender sensitization: Society culture and change</b> By Course Coordinator: Ms. Madhuri D. Davange Subject Expert: M.S. K.V. Pansare Examiner: Mr. Indradkumar K. Sonawane Principal: Dr. D. M. Patil IQAC: Dr. C.D. Patil	F. Y. B. Pharm	59
2	<b>Photochemistry of Natural Drugs</b> By Course Coordinator & HOD of Pharmacognosy: Vijay V. Shewale Subject Expert: Ms. Mayuri P. Pol Examiner: Ms. Prerana S. Pawar Principal: Dr. D. M. Patil IQAC: Dr. C.D. Patil	S.Y. B. Pharm	74
3	<b>Drug Regulatory Affairs</b> By Course Coordinator & HOD of Pharmaceutics: Ms. Shivraj P. jadhav Subject Expert: Mr. Sushant M. Ahire Examiner: Vijay V. Shewale Principal: Dr. D. M. Patil IQAC: Dr. C.D. Patil	T. Y. B. Pharm	38



  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

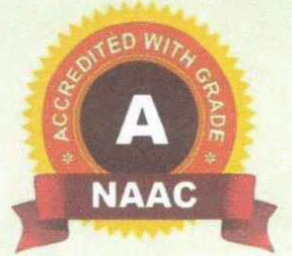
# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: divinecop15@gmail.com

Web: www.divinepharmacy.in




Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).

Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

4	<b>Intellectual Property Rights</b> By Course Coordinator: Prof. Yogesh Sharma Subject Expert: Mr. Vijayraj N. sonawane Examiner: Mr. Yashwant S. Chaudhari Principal: Dr. D. M. Patil IQAC: Dr. C.D. Patil	T. Y. B. Pharm	36
5	<b>Clinical Research and Statistical Analysis</b> By Course Coordinator: Mr. Jubershaha S. Fakir Subject Expert: Ms. Kajal Pansare Examiner: Mr. Abdul Kalam Principal: Dr. D. M. Patil IQAC & HOD of Pharmacology: Dr. C.D. Patil	Final Y. B. Pharm	36
6	<b>Hands on training of analytical Instruments</b> By HOD of Pharmaceutical Chemistry: Mr. Vijayraj N. Sonawane Course Coordinator: Mr. Khemchand R. Surana Subject Expert: Mr. Ganesh B. Sonawane Examiner: Mr. Ayaz A. Shah Principal: Dr. D. M. Patil IQAC: Dr. C.D. Patil	Final Y. B. Pharm	36
<b>SWAYAM/NPTEL CERTIFIED ONLINE COURSES A.Y. 2023-24 JULY -DEC 2023</b>			
7	<b>Personality Development and Communication Skills</b> By Dr Sachin Sadashiv Surve   <b>Savitribai Phule Pune University, Pune CEC</b>	S.Y. B.Pharm (Total Student 66)	31 (Roll 1 to 33)



  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

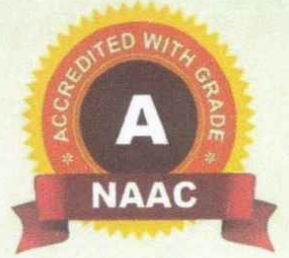
# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: divinecop15@gmail.com

Web: www.divinepharmacy.in



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).

Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

8	<b>Introductory Organic Chemistry II</b> By Prof. Harinath Chakrapani, Prof. Neeraja Dashaputre   <b>IISER Pune NPTEL</b>		30 (Roll no 34 to 66)
9	<b>Industrial Biotechnology</b> By Prof. Debabrata Das   <b>IIT Kharagpu NPTEL</b>	T.Y. B.Pharm	47 (70)
10	<b>Analytical Chemistry</b> By Prof. Debashis Ray   <b>IIT Kharagpur NPTEL</b>	Final. Year. B.Pharm Total Student 77  M. pharm	25 (Roll no 01 to 25)
11	<b>Development Research Methods</b> By Prof. Rajshree Bedamatta   <b>IIT Guwahati NPTEL</b>		25 (Roll no 26 to 50)
12	<b>Computer Aided Drug Design</b> By Prof. Mukesh Doble   <b>IIT Madras NPTEL</b>		27 (Roll no 51 to 77)  19 Pharm
13	<b>Research Methodology</b> By Prof. Edamana Prasad, Prof. Prathap Haridoss   <b>IIT Madras NPTEL</b>	M.Pharm	19
<b>SWAYAM/ NPTEL ONLINE LEARNING COURSES REPORT</b> <b>January –April 2024</b>			
14	<b>Basics in Inorganic Chemistry</b> By Prof. D. Maiti IIT Bombay	F.Y.B. Pharm.	59
15	<b>Biochemistry</b> By Swagata Dasgupta IIT Kharagpur	S.Y.B. Pharm.	69
16	<b>Enhancing Soft Skills and Personality</b>	S.Y.B. Pharm.	06
17	<b>Biochemistry – IITM</b> IIT Kharagpur	T.Y.B. Pharm.	42
18	<b>Medicinal Chemistry</b> By Prof. Harinath Chakrapani IISER Pune	T.Y.B. Pharm.	59
19	<b>Fundamentals of Spectroscopy</b> By Sayan Bagchi, & Anirban Hazra NCL Pune, IISER Pune	Final Year B. Pharm.	64



  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

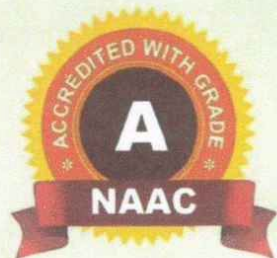
# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: divinecop15@gmail.com

Web: www.divinepharmacy.in



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).

Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

20	<b>Research Methodology</b> By Prof. Edamana Prasad, Prof. Prathap Haridoss IIT Madras	Final Year B Pharm.	21
21	<b>Research Methodology</b> By Prof. Edamana Prasad, Prof. Prathap Haridoss   IIT Madras	M.PH	24
22	<b>Basics of Nutrition's</b> ICMR National Institute of Nutrition	F.Y. B. Pharmacy	62
23	<b>Scientific Writing in Health Research</b> ICMR-National Institute of Epidemiology	Final Year B. Pharm.	75

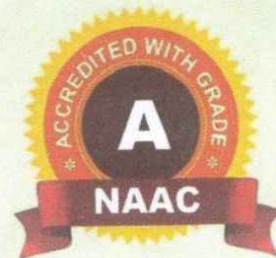


  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's  
**DIVINE COLLEGE OF PHARMACY**

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)  
Phone: (02555) 226009 E-mail: divinecop15@gmail.com Web: www.divinepharmacy.in



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).  
Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

# Add on/swayam NPTEL Courses Brochure



  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: [divinecop15@gmail.com](mailto:divinecop15@gmail.com)

Web: [www.divinepharmacy.in](http://www.divinepharmacy.in)



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).  
Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

Date: 10/01/2024

## Notice

All first year B. pharmacy students, are hereby informed that that regular lecture on add on course of "Gender Sensitisation: Society Culture And Change" are going to start from 23/01/2024, sharp at 8:00 am to 9:00 am. Hence, be present on time and attendance is compulsory to all.

**IQAC Coordinator**

**IQAC CO-ORDINATOR**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik - 423301

**Course Coordinator**

**Principal**  
**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301

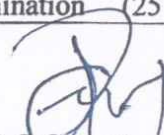



**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Course code: BPH-23-GSSC

Shreeshakti Shaikshanik Sanstha's  
**Divine College of Pharmacy,**  
Nampur Road, Satana.  
Brochure of add on course  
**Academic Year: 2023-2024**

<b>Name-of add on course:</b>	Add on course on: Gender Sensitisation: Society Culture and Change
<b>Name of coordinator:</b>	Ms. M. D. Davange Assistant Professor , Shreeshakti Shaikshanik Sanstha's, Divine College of Pharmacy, Satana.
<b>Duration of activity:</b>	23-01-2024 to 28-02-2024
<b>Class:</b>	First Year B. Pharm
<b>Hours:</b>	30 hours
<b>Aim/Objectives:</b>	After completion of this course pupil will be able to <ul style="list-style-type: none"><li>• Thoroughly understand important concepts in Gender Sensitisation: Society Culture and Change</li><li>• Understand the role of Gender Sensitisation and in Society Culture and Change in Pharmacy.</li></ul>
<b>Course content/curriculum:</b>	<ul style="list-style-type: none"><li>• Unit 1: Understanding Gender and Related Concepts</li><li>• Unit 2: Gender in Everyday Life</li><li>• Unit 3: Gender and Sexualities</li><li>• Unit 4: Marriage</li><li>• Unit 5: Motherhood</li><li>• Unit 6: Gendering Work</li><li>• Unit 7: Gender and Employment</li><li>• Unit 8: Gender Issues in Work</li><li>• Unit 9: Gender- Based Violence</li><li>• Unit 10: Conclusion: Towards Gender Equality</li></ul>
<b>Assessment procedure:</b>	MCQ based Examination (25 Questions × 2 M= 50 Marks)
	 IQAC Coordinator
	 Course Coordinator

**IQAC CO-ORDINATOR**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik- 423301

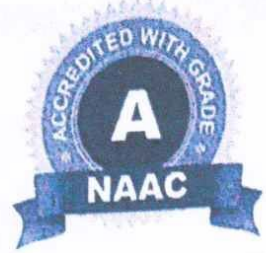


  
**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik - 423301

  
**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's  
**DIVINE COLLEGE OF PHARMACY**



Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)  
Phone: (02555) 226009 E-mail: [divin cop15@gmail.com](mailto:divin cop15@gmail.com) Web: [www.divinepharmacy.in](http://www.divinepharmacy.in)

Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).  
Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

Date: 26/02/2024

Notice

All Second year B. pharmacy students, are hereby informed that that regular lecture on add on course of "Phytochemistry of Natural Drugs" are going to start from 01/03/2024, sharp at 3:30 am to 4:30 pm. Hence, be present on time and attendance is compulsory to all.

**IQAC Coordinator**  
**IQAC CO-ORDINATOR**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik - 423301

Course Coordinator

**Principal**  
**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



**PRINCIPAL**  
**DIVINE COLLEGE OF PHARMACY**  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

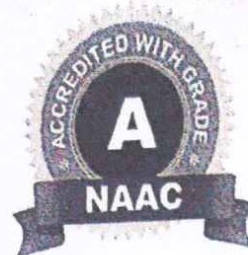
# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: divinecop15@gmail.com

Web: www.divinepharmacy.in



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).  
Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952), AISHE: C-55802.

## Brochure of add on course Academic Year: 2023-2024

Name of add on course	Phytochemistry of Natural Drugs BPH-24-PND
Name of coordinator	Mr. Vijay Shewale
Duration of activity	01/03/2024 to 8/04/2024
Class	Second Year B. Pharm
Hours conducted/schedule	30 Hrs.
<b>Aim/Objectives:</b> <ul style="list-style-type: none"> <li>To make the learner understand a. Extraction of Phytoconstituents, concept of adulteration and substitution.</li> <li>Utility of natural products as excipients utilized in pharmaceutical preparations c. Applications of plant tissue culture techniques for production of secondary metabolites and edible vaccines.</li> </ul>	
<b>Course content/curriculum</b> <ul style="list-style-type: none"> <li>Explain the concept of adulteration and substitution in crude drugs, extraction process for phyto-constituents using different methods and principles</li> <li>Write the source, composition, general methods of extraction, evaluation, chemical tests, therapeutic uses of crude drugs containing volatile oils, resins and tannins</li> <li>Write the biosynthesis of monoterpenoids and phenylpropanoid constituents of volatiles • Understand the chemistry of phytoconstituents belonging to the classes of terpenoids, sulfur containing constituents and quinones and write source composition and structures of phytoconstituents of crude drugs belonging to these classes</li> <li>Write the significance of excipients of natural origin, used in pharmaceutical formulations and describe various classes of excipients like binders, colours, sweetners and flavorants along with the examples of their utility.</li> <li>Describe the applications of plant tissue culture techniques with respect to production of secondary metabolites and edible vaccines.</li> </ul>	
Assessment procedure	MCQ based Examination (25 Questions × 2 M= 50 M )

Principal

IQAC COORDINATOR

Course Coordinator

DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301

DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik- 423301

Principal

DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

## DIVINE COLLEGE OF PHARMACY

(Approved by AICTE, New Delhi, DTE and Govt. of Maharashtra and Affiliated Savitribai Phule Pune University)



Address: Nampur Road, Satana, Dist-Nashik-423301 Phone: (02555) 226009

Email: [divinecop15@gmail.com](mailto:divinecop15@gmail.com) Web: [divinepharmacy.in](http://divinepharmacy.in)

Date: 30/09/2023

### Notice

All final year B. pharmacy student, are hereby informed that that regular lecture on add on course of "Drug Regulatory Affairs" is going to start from 03/10/2023, sharp at 8:00 am to 9:00 am. Hence, be present on time and attendance is compulsory to all.



  
IQAC Coordinator

**IQAC CO-ORDINATOR**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik- 423301

  
Course Coordinator

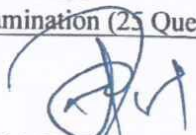

  
Principal  
**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



  
**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301

Shreesakti Shaikshanik Sanstha's  
**Divine College of Pharmacy,**  
Nampur Road, Satana.  
Brochure of add on course

**Academic Year: 2023-24**

<b>Name of add on course:</b>	Add on course on Drug Regulatory Affairs
<b>Name of coordinator:</b>	Mr. Shivraj Popat Jadhav, Mr. Sushant Mothabhau Ahire Mr. Vijay Vithoba Shewale Assistant Professor, Shreesakti Shaikshanik Sanstha's, Divine College of Pharmacy, Satana.
<b>Duration of activity:</b>	03-10-2023 to 07-11-2023
<b>Class:</b>	Third Year B. Pharm
<b>Hours:</b>	30 hours
<b>Aim/Objectives:</b>	After completion of this course pupil will be able to <ul style="list-style-type: none"><li>• Thoroughly understand important concepts in regulatory affairs</li><li>• Understand the role of regulatory affairs in pharma companies.</li></ul>
<b>Course content/curriculum:</b>	<ul style="list-style-type: none"><li>• Basic Understanding and Terminologies.</li><li>• Why Regulatory Affairs?</li><li>• Historical overview of Regulatory Affairs,</li><li>• Regulatory authorities,</li><li>• Role of Regulatory affairs department,</li><li>• Responsibility of Regulatory Affairs Professionals</li><li>• Regulatory requirements for drug approval</li><li>• Regulatory requirements for drug approval process in India</li><li>• Drug Development Teams,</li><li>• Non-Clinical Drug Development,</li><li>• General considerations of Investigational New Drug (IND) Application,</li><li>• Investigator's Brochure (IB) and New Drug Application (NDA),</li><li>• Clinical research</li><li>• Bioequivalence studies,</li><li>• Clinical Research Protocols,</li><li>• Biostatistics in Pharmaceutical Product Development,</li><li>• Data Presentation for FDA Submissions,</li><li>• Management of Clinical Studies.</li></ul>
<b>Assessment procedure:</b>	MCQ based Examination (25 Questions × 2 M= 50 Marks)
	<p style="text-align: center;"> IQAC Coordinator</p> <p style="text-align: center;"> Course Coordinator</p>

**IQAC CO-ORDINATOR**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik- 423301



  
**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

## DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: [divinecop15@gmail.com](mailto:divinecop15@gmail.com)

Web: [www.divinepharmacy.in](http://www.divinepharmacy.in)



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).  
Affiliated to Savitribal Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

Date: 25/02/2024

### Notice

All final year B. pharmacy students, are hereby informed that that regular lecture on add on course of "Intellectual Property Rights (IPR)" are going to start from 01/03/2024, sharp at 4:00 pm to 5:00 pm. Hence, be present on time and attendance is compulsory to all.

**IQAC CO-ORDINATOR**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik - 423301

**Course Coordinator**  
Sharma T.P.

**Principal**  
**PRINCIPAL**  
Divine College of Pharmacy  
Nampur Road Satana Dist. Nashik-423 01



**PRINCIPAL**  
**DIVINE COLLEGE OF PHARMACY**  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

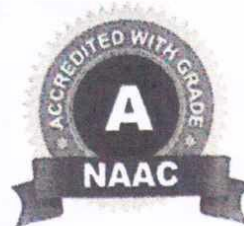
# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: divinecop15@gmail.com

Web: www.divinepharmacy.in



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).

Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

## Brochure of add on course

Academic Year: 2023-2024

<b>Name of add on course:</b>	<b>Add on course on Intellectual Property Rights (IPR)</b>
<b>Name of coordinator:</b>	Prof. Sharma. Y.P. Assistant Professor, Shreeshakti Shaikshanik Sanstha's, Divine College of Pharmacy, Satana.
<b>Duration of activity:</b>	01-03-2024 to 31-03-2024 Every day (Evening) Sessions For 30 Days : 01:00 Hours each
<b>Class:</b>	Third Year B. Pharm
<b>Hours:</b>	30 hours
<b>Aim/Objectives:</b>	After completion of this course pupil will be able to <ul style="list-style-type: none"><li>• Thoroughly understand important concepts in Intellectual Property Rights (IPR)</li><li>• Understand the role of Intellectual Property Rights (IPR) in pharma companies.</li></ul>
<b>Course content/curriculum:</b>	Introduction of IPR & Overview of Patents, Design, Trademarks, Copyrights, Geographical Indications etc. Criteria for obtaining patent (Novel, Non-obvious Applications) Filing and Processing of Patents. Salient features of Indian Patents Act 1970 with latest amendments. Product & Process Patents, Patent offices in India. Provision of compulsory license, Exclusive Marketing Right, Patent infringement and its case study. Salient features of US patents. The Hatch Waxman Act with reference to generic Drugs. The Orange book, Patent Certification (Para-I, Para-II, Para-III and Para-IV) An Introduction to Standard Institutions and Regulatory Authorities such as ICH, WHO, USFDA, MHRA, TGA, BIS, ASTM, ISO, CDSO
<b>Assessment procedure:</b>	MCQ based Examination (25 Questions × 2 M= 50 Marks)
<b>IQAS COORDINATOR</b> DIVINE COLLEGE OF PHARMACY Nampur Road Satana, Dist. Nashik- 423301	<b>Course Coordinator</b> Sharma Y.P.



**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301

Shreeshakti Shaikshanik Sanstha's

## DIVINE COLLEGE OF PHARMACY

(Approved by AICTE, New Delhi, DTE and Govt. of Maharashtra and Affiliated SPPU University)

Address: Nampur Road, Satana, Dist-Nashik-423301 Phone: (02555) 226009

Email: [divinecop15@gmail.com](mailto:divinecop15@gmail.com) Web: [divinepharmacy.in](http://divinepharmacy.in)



Date: 30/06/2023

### Notice

All final year B. pharmacy students, are hereby informed that that regular lecture on add on course of "Clinical Research Design & statistical Analysis" are going to start from 05/07/2023, sharp at 8:00 am to 9:00 am. Hence, be present on time and attendance is compulsory to all.




IQAC Coordinator

IQAC CO-ORDINATOR  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik- 423301



Course Coordinator



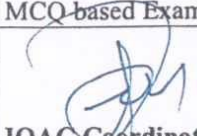
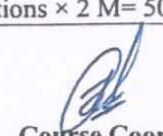
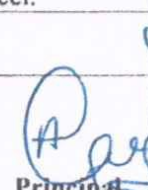
Principal

PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301

Shreeshakti Shaikshanik Sanstha's  
**Divine College of Pharmacy,**  
 Nampur Road, Satana.  
 Brochure of add on course  
**Academic Year: 2023-2024**

<b>Name of add on course:</b>	Add on course on Clinical Research Design & Statistical Analysis (BPH-23-CRDSA)
<b>Name of coordinator:</b>	Mr. Jubershaha S. Fakir, Assistant Professor, Shreeshakti Shaikshanik Sanstha's, Divine College of Pharmacy, Satana.
<b>Duration of activity:</b>	05-07-2023 to 09-08-2023
<b>Class:</b>	Final Year B. Pharm
<b>Hours:</b>	30 hours
<b>Aim/Objectives:</b>	After completion of this course pupil will be able to <ul style="list-style-type: none"> <li>• Thoroughly understand important concepts in clinical research and statistics</li> <li>• Understand the role of clinical research and statistics in pharm companies.</li> </ul>
<b>Course content/curriculum:</b>	<ul style="list-style-type: none"> <li>• Basic Concepts in Clinical Research. Observational studies, descriptive studies, experimental studies, Ecological studies , cross sectional studies, cohort studies, case control studies, cross sectional studies, cohort studies, case control studies, incidence.</li> <li>• Basics of Clinical Trials: Who can be in clinical trials? need clinical trials, Brief History of Clinical Trials, Glossary of Common Terms in clinical.</li> <li>• Randomized Controlled Trial (RCT), Clinical Trials Metrics Collection, Clinical Data Management, Data Processing</li> <li>• Missing data , Submitting data , Metadata: Metadata standards , submitting Data , File formats , Preserve.</li> <li>• Comparison Structure: Parallel, Crossover, and Group Allocation Designs</li> <li>• Extensions of the Parallel Design: Factorial and Large Simple Designs</li> <li>• Superiority, Equivalency and Non-Inferiority Designs.</li> <li>• Adaptive Design.</li> <li>• Statistical Methods: Definition and scope of Statistics, concepts of statistical population and sample. Data: quantitative and qualitative.</li> <li>• Measures of Central Tendency: arithmetic mean, geometric mean, harmonic mean, median, mode, weighted mean. Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation, Moments, absolute moments, factorial moments, skewness and kurtosis, Sheppard's corrections.</li> <li>• Probability: Introduction, random experiments, sample space, events and algebra of events. Definitions of Probability</li> <li>• Excel for data management, Basic data analysis and visualization in Excel.</li> </ul>
<b>Assessment procedure:</b>	MCQ based Examination (25 Questions × 2 M= 50 Marks)
	
<b>IQAC Coordinator</b>	<b>Course Coordinator</b>
	
	<b>Principal</b>

**IQAC CO-ORDINATOR**  
 DIVINE COLLEGE OF PHARMACY  
 Nampur Road Satana, Dist. Nashik- 423301



**PRINCIPAL**  
 DIVINE COLLEGE OF PHARMACY  
 Nampur Road, Satana, Dist. Nashik 423301



  
**PRINCIPAL**  
 DIVINE COLLEGE OF PHARMACY  
 Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: [divinecop15@gmail.com](mailto:divinecop15@gmail.com)

Web: [www.divinepharmacy.in](http://www.divinepharmacy.in)



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).  
Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

Date: 26/02/2024

## Notice

All final year B. pharmacy students, are hereby informed that that regular lecture on add on course of "Hands on Training of Analytical Instruments" are going to start from 01/03/2024, sharp at 3:00 Pm to 5:00 Pm. Hence, be present on time and attendance is compulsory to all.

  
IQAC Coordinator  
IQAC CO-ORDINATOR  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik- 423301

  
R.R. Suryam  
Course Coordinator

  
Principal  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



  
Principal  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's  
**Divine College of Pharmacy,**  
Nampur Road, Satana

**BROCHURE OF ADD ON COURSE**

Academic Year: 2023-24

<b>Name of add on course:</b>	Add on course on Hands on Training of Analytical Instruments
<b>Name of coordinator:</b>	Mr. Khemchand R. Surana, Assistant Professor, Shreeshakti Shaikshanik Sanstha's, Divine College of Pharmacy, Satana.
<b>Duration of activity:</b>	01-03-2024 to 31-03-2024
<b>Class:</b>	Final Year B. Pharm
<b>Hours:</b>	30 hours
<b>Aim/Objectives:</b>	After completion of this course pupil will be able to <ul style="list-style-type: none"><li>• Thoroughly understand important concepts in Analytical Instruments</li><li>• Understand the Handling of Analytical Instruments in Pharma companies.</li></ul>
<b>Course content/curriculum:</b>	<b>UNIT- I: High performance liquid chromatography (HPLC) 02 Hours</b> <ul style="list-style-type: none"><li>• : Introduction, Theory, Instrumentation, Advantages and Applications.</li></ul> <b>UNIT – II: UV Visible spectroscopy 07 Hours</b> <ul style="list-style-type: none"><li>• :Introduction to spectroscopy, Electronic transitions, chromophores, auxochromes, spectral shifts, solvent effect on absorption spectra,</li><li>• Beer and Lambert's law, Derivation and deviations.</li><li>• Instrumentation - Sources of radiation, wavelength selectors, sample cells, detectors- Photo tube, Photomultiplier tube, Photo voltaic cell, Silicon Photodiode.</li><li>• Applications - Spectrophotometric titrations, Single component and multicomponent Analysis</li></ul>



  
**PRINCIPAL**  
**DIVINE COLLEGE OF PHARMACY**  
Nampur Road, Satana, Dist. Nashik 423301

**UNIT- III: FTIR spectroscopy****05 Hours**

- Introduction, fundamental modes of vibrations in poly atomic molecules, sample handling, factors affecting vibrations
- Instrumentation - Sources of radiation, wavelength selectors, detectors - Golay cell, Bolometer, Thermocouple, Thermister, Pyroelectric detector,
- FTIR instrument, sample handling attachments –DRS and ATR and applications

**UNIT – IV: Gas chromatography****03 Hours**

- Introduction, theory, instrumentation, temperature programming,
- Advantages, Disadvantages and Applications

**UNIT – V: High Performance Thin Layer Chromatography (HPTLC):****04 Hours**

- Theory, Instrumentation, types of HPTLC plates, types of development chambers and development techniques, HPTLC scanning and evaluation
- Automated Multiple Development, Horizontal TLC and applications.

**UNIT – VI: Formulation of Tablet and Capsule****09 Hours****Tablets:**

- Introduction, ideal characteristics of tablets, classification of tablets. Excipients,
- preformulation and Formulation of tablets, granulation methods, compression and processing problems,
- Equipments and tablet tooling.
- Tablet coating: Types of coating, coating materials, formulation of coating composition, methods of coating, equipment employed and defects in coating.
- Quality control tests: In process and finished product tests

**Capsules:**

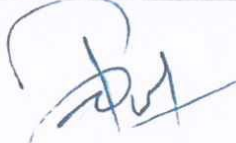
- Hard gelatin capsules: Introduction, Production of hard gelatin capsule shells. Size of capsules,
- Filling, finishing and special techniques of formulation of hard gelatin capsules, manufacturing defects. In process and final product quality control tests for capsules.
- Soft gelatin capsules: Nature of shell and capsule content, size of capsules, importance of base adsorption and minim/gram factors, production, in process and final product quality control tests.
- Packing, storage and stability testing of soft gelatin capsules and their applications.



  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301

**Assessment procedure:**

MCQ based Examination (25 Questions × 2 M= 50 Marks)



**IQAC Coordinator**  
**IQAC CO-ORDINATOR**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road Satana, Dist. Nashik- 423301



**Course Coordinator**



**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik- 423301



**PRINCIPAL**  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



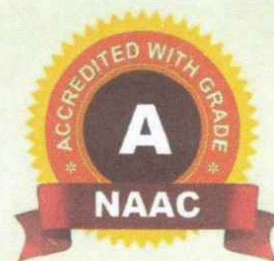
Shreeshakti Shaikshanik Sanstha's  
**DIVINE COLLEGE OF PHARMACY**

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: divinecop15@gmail.com

Web: www.divinepharmacy.in



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).  
Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

## Swayam/NPTLE/E-Learning online Certificates Courses

### Data



Shrishakti Shaikshanik Sanstha'S

### **Divine College of Pharmacy**

Nampur Road, Satana, Tal-Baglan Dist-Nashik Dist. Nashik -423301

#### SWAYAM Online Learning Courses 2023 -24

Date: July -Dec 2023

Sr. No.	Name of Course	Start of course / Regi. Date	Enrollment Ends	End Date	Duration	Date of Exam. Form Registration	Level	Credit Point	Date of Exam.	Course Exam Fee	
1	Introductory Organic Chemistry II By Prof. Harinath Chakrapani, Prof. Neeraja Dashaputre   IISER Pune NPTEL	21-Aug-23	21-Aug-23	13-Oct-23	8week	15-Sep-23	Undergraduate /Postgraduate	2	29 Oct 2023 IST	1000	SY.Ph
2	Industrial Biotechnology By Prof. Debabrata Das   IIT Kharagpu NPTEL	24-Jul-23	31-Jul-23		12week	18-Aug-23	Undergraduate/	2	28 Oct 2023 IST	1000	T.Y
3	Analytical Chemistry By Prof. Debashis Ray   IIT Kharagpur NPTEL	24-Jul-23	31-Jul-23	13-Oct-23	12 weeks	18-Aug-23	Undergraduate	3	Oct 2023	1000	Final Year
4	Development Research Methods By Prof. Rajshree Bedamatta   IIT Guwahati NPTEL	21-Aug-23	21-Aug-23	13-Oct-23	8 weeks	15-Sep-23	Postgraduate	2	29 Oct 2023 IST	1000	Final Year
5	Computer Aided Drug Design By Prof. Mukesh Doble   IIT Madras NPTEL	24-Jul-23	31-Jul-23	15-Sep-23	8 weeks	18-Aug-23	Undergraduate / Postgraduate	2	24 Sep 2023 IST	1000	Final Year /M.Ph
6	Research Methodology By Prof. Edamana Prasad, Prof. Prathap Haridoss   IIT Madras NPTEL	8/21/2023	21-Aug-23	10/13/2023	8 weeks	9/15/2023	Postgraduate	2	28 Oct 2023 IST	1000	M.Pharm,



  
PRINCIPAL  
DIVINE COLLEGE OF PHARMACY  
Nampur Road, Satana, Dist. Nashik 423301



Shreeshakti Shaikshanik Sanstha's

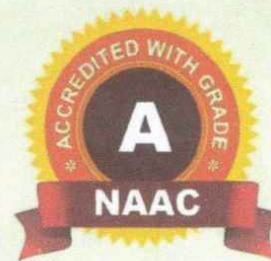
# DIVINE COLLEGE OF PHARMACY

Nampur Road, Satana, Tal. Baglan, Dist. Nashik-423301 (M.S.)

Phone: (02555) 226009

E-mail: divinecop15@gmail.com

Web: www.divinepharmacy.in



Approved by PCI - New Delhi (531), Govt. of Maharashtra & DTE - Mumbai (5443).

Affiliated to Savitribai Phule Pune University - Pune (CPHN020560) & MSBTE - Mumbai (1952). AISHE: C-55802.

## SWAYAM/NPTLE/E-learning Online Learning Courses 2023 -24

January-April 2024

Sr. No.	Name of Course	Start of course / Regl. Date	Enrollme nt Ends	End Date	Durati on	Date of Exam. Form Registration	Level	Credit Point	Date of Exam.	Course Exam Fee	Class
1	Basics in Inorganic Chemistry By Prof. D. Maiti   IIT Bombay (NPTEL)	22-Jan-24	29-Jan-24	16-02-2024	4 Week	16-Feb-24	Undergraduate	1	23 Mar 2024 IST	1000	F.Y.B. Pharm
2	Biochemistry By Prof. Swagata Dasgupta IIT Kharagpur (NPTEL)	22-Jan-24	29-Jan-24	12-Apr-24	12 Week	16-Feb-24	Undergraduate / Postgraduate	3	21 Apr 2024 IST	1000	S.Y.B. Pharm
3	Enhancing Soft Skills and Personality Prof. T. Ravichandran	19-Feb-24	1Feb-24	12-Apr-24	8 Week	15-Mar-24	Undergraduate / Postgraduate	-	20 Apr 2024	1000	S.Y.B. Pharm
4	Biochemistry IITM Prof. SubramaniamK	22-Jan-24	29-Jan-24	12-Apr-24	12 Week	16-Feb-24	Undergraduate / Postgraduate	-	21-Apr-24	1000	T.Y. B. Pharm
5	Medicinal Chemistry By Prof. Harinath Chakrapani IISER Pune (NPTEL)	22-Jan-24	29-Jan-24	12-Apr-24	12 Week	16-Feb-24	Undergraduate / Postgraduate	3	27 Apr 2024 IST	1000	T.Y.B. Pharm
6	Fundamentals of Spectroscopy By Sayan Bagchi, Prof. Anuban Hazra NCL Pune, IISER Pune (NPTEL)	22-Jan-24	29-Jan-24	12-Apr-24	12 Week	16-Feb-24	Undergraduate / Postgraduate	3	27 Apr 2024 IST	1000	Final Year
7	Research Methodology By Prof. Edamana Prasad, Prof. Prathap Haridoss   IIT Madras (NPTEL)	19-02-24	19-Feb-24	12-04-24	8 Week	15-Mar-24	Undergraduate / Postgraduate	2	21 Apr 2024 IST	1000	Final Year

8.	Research Methodology By Prof. Edamana Prasad, Prof. Prathap Haridoss   IIT Madras (NPTEL)	19-02-24	19-Feb-24	12-04-24	8 Week	15-Mar-24	Undergraduat	2	21 Apr 2024 IST	1000	M.Pharm
9.	Basics Of Nutrition's ICMR National Institute of Nutrition	-	-	-	5 week	-	Undergraduate	-	-	No fees	F.Y.B. Pharm
10	Scientific Writing in Health Research (self-paced) ICMR-National Institute of Epidemiology	-	-	-	5 week	-	Undergraduate E-learning course	-	-	No Fees	Final Y. B. Pharm



  
**PRINCIPAL**  
**DIVINE COLLEGE OF PHARMACY**  
 Nampur Road, Satana, Dist. Nashik 423301