



Progressive Education Society's
MODERN COLLEGE OF PHARMACY

Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044.

(Accredited by NBA & NAAC)

URL : www.mcop.org.in , Email - mcopnigdi44@gmail.com



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PREAMBLE

1.2.2 & 1.2.3 Number of Add on/Certificate programs offered during the last five years.

- The institute has always prioritized students' overall growth based on their feedback and suggestions from both teachers and business experts. In the areas of Regulatory Affairs, Pharmacovigilance, Clinical Research, Medical Coding, Medical Writing, Clinical Data Management, Hands-on Trainings, etc., this institute is hosting a variety of advanced add-on/certificate courses.
- Circular/Brochure, List of Students, Notices, Attendance, Summary Reports, and Certificate are included as Documented Evidence for the Add/Certificate Courses Conducted.
- The table below provides a summary of the additional certificate programs offered, together with the number of students that benefited.

Academic Year	2023-24
No of Add on/Certificate programs offered	21
Total no of students enrolled in the certificate courses	498
Total no of students Completed the programs	498
Average percent of students enrolled in the Add on/Certificate program as against the total number of students during the last five years: 63.08%	



Guidelines for the implementation of Add on Courses



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Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Guidelines for the implementation of Add on courses

Purpose

This document's main purpose is to outline the institute's entire process for designing and implementing value-added courses, add-on courses, and certificate courses.

Scope

The value added/Add on courses, as well as the implementation and conducts of the course in the institute, is all described in this document.

Process of conduct Add on Courses

1. The following steps were taken in the design and implementation of these courses:
Identification of Courses needed with Curriculum.
2. Design of curriculum by HOD's, Course coordinators, Faculty members, and Industrial/subject experts.
3. Approval from Head of Institution
4. Design of brochure
5. Notice/Display/ Advertisement/ of the Value added courses brochure.
6. Enrolment process
7. Value added courses curricular delivery by subject experts.
8. Maintenance of Attendance record.
9. Assessment/Evaluation
10. Display of results
11. Certification to qualified students.

Impact

- The overall growth or progress of students throughout their undergraduate or graduate studies.
- Instrumentation training that is sophisticated or advanced.
- Career guidance/support.
- Soft skill development.



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Principal
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Assessment Process for Add on/Certificate Programs

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

1.2.3 Number of students enrolled in Certificate/Add-on programs as against the total number of students during the year.

2023-24		
Sr. No	Name of Add on/Certificate programs offered	Assessment process
01	Clinical Data Management	Oral Test
02	Health Economics and Pharmacoeconomics	Discussion + Interview
03	Clinical Research	Interview
04	Generative AI in Pharmacovigilance	Interview
05	Communication Skills for Pharmacists	Mock Interview
06	Medical Writing for Healthcare Professionals	Oral Test
07	The Complete Healthcare Artificial Intelligence Course	Interview
08	PGM GPAT Course	Examination
09	HPLC	Examination
10	Enhancing Soft Skills and Personality	Examination
11	Research Methodology	Examination
12	Medicinal Chemistry	Examination
13	Intellectual Property	Examination
14	German - I	Examination
15	One Health	Examination
16	Intellectual Property Rights And Competition Law	Examination
17	German - I	Examination
18	Principles Of Organic Synthesis	Examination
19	Reagents In Organic Synthesis	Examination
20	Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)	Examination
21	Health Research Fundamentals	Examination

Dr. A. R. Kumbhar
Course Co-ordinator

Dr. P. D. Chaudhari
Principal



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1.2.2 & 1.2.3 Details of add on/Certificate programs offered in Academic Year 2023-24.

Sr. No	Names of the Add on /Certificate Course Offered	Circular /Brochure	List of students enrolled	Curriculum	Summary	Attendance	Assessment	Certificates
01	Clinical Data Management	View Document	View Document	View Document	View Document	View Document	View Document	View Document
02	Health Economics and Pharmacoeconomics	View Document	View Document	View Document	View Document	View Document	View Document	View Document
03	Clinical Research	View Document	View Document	View Document	View Document	View Document	View Document	View Document
04	Generative AI in Pharmacovigilance	View Document	View Document	View Document	View Document	View Document	View Document	View Document
05	Communication Skills for Pharmacists	View Document	View Document	View Document	View Document	View Document	View Document	View Document
06	Medical Writing for Healthcare Professionals	View Document	View Document	View Document	View Document	View Document	View Document	View Document
07	The Complete Healthcare Artificial Intelligence Course	View Document	View Document	View Document	View Document	View Document	View Document	View Document
08	PGM GPAT Course	View Document	View Document	View Document	View Document	View Document	View Document	View Document
09	HPLC	View Document	View Document	View Document	View Document	View Document	View Document	View Document
10	Enhancing Soft Skills and Personality	View Document	View Document	View Document	View Document	View Document	View Document	View Document
11	Research Methodology	View Document	View Document	View Document	View Document	View Document	View Document	View Document
12	Medicinal Chemistry	View Document	View Document	View Document	View Document	View Document	View Document	View Document
13	Intellectual Property	View Document	View Document	View Document	View Document	View Document	View Document	View Document
14	German - I	View Document	View Document	View Document	View Document	View Document	View Document	View Document
15	One Health	View Document	View Document	View Document	View Document	View Document	View Document	View Document
16	Intellectual Property Rights And Competition Law	View Document	View Document	View Document	View Document	View Document	View Document	View Document



Criteria 1: Curriculum Aspects



Sr. No	Names of the Add on /Certificate Course Offered	Circular /Brochure	List of students enrolled	Curriculum	Summary	Attendance	Assessment	Certificates
17	German - I	View Document	View Document	View Document	View Document	View Document	View Document	View Document
18	Principles Of Organic Synthesis	View Document	View Document	View Document	View Document	View Document	View Document	View Document
19	Reagents In Organic Synthesis	View Document	View Document	View Document	View Document	View Document	View Document	View Document
20	Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)	View Document	View Document	View Document	View Document	View Document	View Document	View Document
21	Health Research Fundamentals	View Document	View Document	View Document	View Document	View Document	View Document	View Document



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Summary of Add on/Certificate Courses Academic Year 2023-24

Sr. No	Name of Add on /Certificate programs offered	Course Code (If any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
01	Clinical Data Management	NA	2023-24	1	42 Hrs	56	56
02	Health Economics and Pharmacoeconomics	NA	2023-24	1	40 Hrs	56	56
03	Clinical Research	NA	2023-24	1	38 Hrs	54	54
04	Generative AI in Pharmacovigilance	NA	2023-24	1	40 Hrs	55	55
05	Communication Skills for Pharmacists	NA	2023-24	1	35 Hrs	54	54
06	Medical Writing for Healthcare Professionals	NA	2023-24	1	42 Hrs	52	52
07	The Complete Healthcare Artificial Intelligence Course	NA	2023-24	1	40 Hrs	60	60
08	PGM GPAT Course	NA	2023-24	1	1 Year	17	17
09	HPLC	NA	2023-24	1	40 Hrs	26	26
10	Enhancing Soft Skills and Personality	noc24-hs26	2023-24	1	Jul-Sep 23 (8 week)	1	1
11	Research Methodology	noc24-ge21	2023-24	1	Aug-Oct 23 (8 week)	34	34



Criteria 1: Curriculum Aspects



Sr. No	Name of Add on /Certificate programs offered	Course Code (If any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
12	Medicinal Chemistry	noc24-cy17	2023-24	1	Jan-Apr 23 (12 week)	2	2
13	Intellectual Property	noc24-hs38	2023-24	1	Jan-Apr 24 (12 week)	1	1
14	German - I	noc24-hs29	2023-24	1	Jan-Apr 24 (12 week)	1	1
15	One Health	noc24-ge25	2023-24	1	Jan-Apr 24 (12 week)	1	1
16	Intellectual Property Rights And Competition Law	noc23-mg68	2023-24	1	Aug-Oct 23 (8 week)	7	7
17	German - I	noc24-hs29	2023-24	1	Jul-Oct 23 (12 week)	1	1
18	Principles Of Organic Synthesis	noc23-cy47	2023-24	1	Jul-Oct 23 (12 week)	1	1
19	Reagents In Organic Synthesis	noc23-cy48	2023-24	1	Jul-Oct 23 (12 week)	1	1
20	Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)	NA	2023-24	1	Jul-Sep 23 (8 week)	17	17
21	Health Research Fundamentals	NA	2023-24	1	Jul-Sep 23 (8 week)	1	1



Brochure Clinical Data Management



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YAMUNANAGAR, NIGDI- 44



MODERN COLLEGE OF PHARMACY, NIGDI

IN COLLABORATION WITH

RACE ACADEMY

Certificate Course On

CLINICAL DATA MANAGEMENT

11/09/2023 - 20/09/2023



modernpharmacynigdi



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List of Students

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 Chairman, Business Council
 P.E.Society, Pune

2023-24

Name of Course: Clinical Data Management
 Course Code: NA

Date: 11/09/2023 - 20/09/2023
 Course Duration: 42 hrs

List of Students

Sr. No	Name of Student	Sign
1	KADAM SHIVAM SURESH	<i>Shivam</i>
2	KAMBLE RAHUL DHANRAJ	<i>Rambls</i>
3	KATKADE SHRUSHTI ARUN	<i>Sr. amade</i>
4	KEDAR RUTVIK PRAKASH	<i>Rutvik</i>
5	KHANKARI VAISHNAVI YOGESH	<i>Varshnavi</i>
6	KHAWALE YASHVARDHAN DINESH	<i>Yash vardhan</i>
7	DISALE ATHARV AUDUMBAR	<i>ATHARV</i>
8	GADE SOHAM VISHAL	<i>sohamgde</i>
9	GAJARE SAHIL SUNIL	<i>sahil</i>
10	GEHLOT DURGA RAMESH	<i>Durga</i>
11	SHINDE DIVYANI SAHEBRAO	<i>D. shinde</i>
12	SHINDE GANESH SANJAY	<i>ganeshshinde</i>
13	SHINDE VISHAL BALU	<i>V. shinde</i>
14	SHIRSATH ATHARVA SHAM	<i>ATHARVA</i>
15	SHITOLE POOJA GAJANAN	<i>P. shitle</i>
16	MANKAR MOHINI ISHWARDAS	<i>Mohini - Mankar</i>
17	MARNE PAYAL SUNIL	<i>payal</i>
18	MASNE PRAJAKTA BHAGWAN	<i>prajakta</i>
19	MHASKE RUTUJA TANAJI	<i>Rutuja</i>
20	MORE BHAKTI RAJESH	<i>Bhaktimore</i>
21	VERULKAR SANCHAY SHALIGRAM	<i>Sanchay</i>
22	WADHAI GAURANG ANANT	<i>Gaurang</i>
23	AUSEKAR NUPUR RAMESHRAO	<i>Nupur</i>
24	BADHE SUMIT ARUN	<i>Sumitbadhe</i>
25	BAVANE REKHA SANJAY	<i>rekhabavane</i>
26	BHARAMBE BHAKTI CHANDRAKANT	<i>Bhakti</i>
27	BHARAMBE MIHIR SHIVAJI	<i>Mihir</i>
28	BHATANE CHAITANYA GOVIND	<i>Chaitanya</i>
29	BHOI NEERAJ KISHOR	<i>Neeraj Bhoi</i>
30	BHOPALE SANIKA RAJESH	<i>sanika bhopale</i>





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Sr. No	Name of Student	Sign
31	LOKHANDE PRIYA NAVNATH	
32	LONDHE NINAD RAJENDRA	
33	MADAKE NIKHIL BHAGWAN	
34	MAHAKE OMKESH VENKAT	
35	MAIND PRASAD PRAVIN	
36	ADHALRAO VAISHNAVI DNYANESHWAR	
37	ADHAV ATHARV RAJU	
38	ADSUL JIVAN KANTILAL	
39	AGLAVE AKANKSHA SANJAY	
40	AKOLKAR SHRUTIKA BHIMRAJ	
41	GADADE VAISHNAVI SURESH	
42	GADHAVE SHRUTI BHARAT	
43	GAIKWAD SUDHIR GIRIDHAR	
44	GANGAWANE VISHAL SACHIN	
45	BARANGULE SAKSHI ASHOK	
46	BHAGAWAT SAYALI NARAYAN	
47	BHANGARE TRUPTI SUDHIR	
48	BHARAMBE SOHAN NARENDRA	
49	PACHPHULE ANUJA HARIDAS	
50	PANDIT AISHWARYA SUNIL	
51	PHALAKE SATYAJIT RAM	
52	SALUNKE MUKUND APPASAHEB	
53	VALVI ROHIT VILAS	
54	MADAR PRATIKSHA	
55	MAKEY OMKAR DATTATRAY	
56	MALI VAIBHAV SHIVAJI	

Course Co-ordinator
Dr. A. R. Kumbhar



Principal
Dr. P. D. Chaudhari



Curriculum



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2023-24

Name of Course: Clinical Data Management
Course Code: NA

Date: 11/09/2023 - 20/09/2023
Course Duration: 42 hrs

Syllabus

Module 1: Introduction of Clinical Data Management

The Clinical Data Management Process
Objectives of CDM
Roles involved in CDM
Introduction to CDM Tools/Softwares

Module 2: Basics of Clinical Trials (Its Stakeholders: Roles and Responsibilities)

Investigator and Sponsor
Contract Research Organization (CRO)
Clinical Research Coordinator (CRC)
Clinical Research Associate (CRA)
Institutional Ethics Committee/IRB

Module 3: Guidelines for Clinical Data Management

Documentation Scenario for Data Collection and Management
International studies and data privacy
Electronic source data in Clinical Investigations
Guidance for Industry- ISO, ICH, HL7, CDISC, CDASH

Module 4: Data Management Plan (DMP)



Introduction and Need of DMP in Clinical Research
Framework for creating a DMP
Purpose of DMP

Module 5: Review and Finalization of study document

Essential Documents before, during and after the trial ICH GCP
Protocol
Informed Consent Documents
Investigator's Brochure
Case Report Form
Clinical Study Report







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Module 6: Electronic Data Capture
The Electronic Data Capture (EDC) system
Verification of EDC setup and implementation
User Acceptance Testing (UAT)

Module 7: Database designing (CRF and IXRS)
Purpose of CRF/IXRS
Regulatory requirements in designing the CRF
Techniques for Designing CRF/IXRS
Paper CRF vs. Electronic CRF


Module 8: Data Entry, Data collection & CRF Tracking
Data entry systems and Data entry methods
Data Entry Guidelines, Data Entry Errors
Remote Data Entry and its benefits

Module 9: CRF Processing & Inventory from site
CRF Development Process
Component of CRF, Data Entry Status
Discrepancy Status
Colour coded response fields



Module 10: Data Validation
CDM requirement in GCP
Data Validation Process during the conduct of a clinical trial
Validation steps performed by stakeholders (Investigator, Sponsor, Monitor, CDM team)

Module 11: Discrepancy Management
Tools for configuring discrepancy management
Reasons of discrepancies
Review status of discrepancies
Configuring the access status for discrepancies

Module 12: Database locking and Unlocking
Data management Procedure for database lock
Database lock process
Unlocking the database lock
Soft lock/Data cleaning
Hard lock







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Module 13: QA/QC checks in CDM

Quality Control as per GCP
Quality Assurance as per GCP
Audit

The Quality assurance Group
Source data Review
Source data Verification

Module 14: Data storage and Archival

What is data archiving
The benefit of data archival
Data archiving and data lifecycle management
Archiving for regulatory compliance

Module 15: Tools for CDM

CDMS- Clinical Data Management Systems
EDC- Electronic Data Capture
CTMS- Clinical Trial Management System
ePRO- Electronic Patient Reported Outcomes
RTSM- Randomization and Trial Supply Management

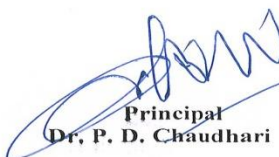
Module 16: Virtual Clinical Trial (Role of Artificial Intelligence (AI) and Machine Learning (ML))

E-Consent (Audio visual consent)
E-Patient Reported Outcomes (e-PRO)
IWRS
Telemedicine
Patient e Diaries
Remote Patient Monitoring

Module 17: Industry Based Case Studies


Course Co-ordinator
Dr. A. R. Kumbhar




Principal
Dr. P. D. Chaudhari



Summary

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2023-24

Name of Course: Clinical Data Management
 Course Code: NA

Date: 11/09/2023 - 20/09/2023
 Course Duration: 42 hrs

Summary Report

Type of Program	Certificate Course on Clinical Data Management
Period	11 th September 2023 - 20 th September 2023 (42 hrs)
Brief Report	<p>A certificate course in Clinical Data Management was conducted at the institute in Collaboration with Elite institute of Pharma skills, Pune. The course was held between 11th September 2023 - 20th September 2023 (42 hrs). The course covered varied topics like in Module I The curriculum introduces CDM as a critical function in clinical trials, outlining its processes, objectives, and roles. It highlights key software tools used to ensure data quality and compliance. It covers the roles and responsibilities of essential stakeholders like investigators, sponsors, Contract Research Organizations. The syllabus emphasizes international guidelines for clinical data management. The importance and framework of DMP in clinical research are explained. EDC systems are explored in The syllabus outlines data entry methods, guidelines, and error management. The database lock process, including soft and hard locks, and procedures for unlocking. This module focuses on QA/QC standards per GCP, audits, and source data verification, reinforcing the importance of maintaining quality in clinical data management. Real-world case studies provide practical insights into CDM applications, bridging theoretical knowledge with industry practices. 56 students at the institute enrolled for this course. The chief course conductors were Elite institute of Pharma skills.</p> <p>Overall, the Clinical Data Management course provided participants with a comprehensive understanding of the clinical data management lifecycle, from planning and execution to compliance and quality assurance, fostering competence in both traditional and emerging aspects of clinical trials.. The course was Coordinated by Dr. A.R. Kumbhar Assistant Professor Department of Pharm D and well supported by the administrative and non-teaching staff.</p>
POs attained	PO1 -PO11

Dr. A. R. Kumbhar
 Course Co-ordinator



Dr. P. D. Chaudhari
 Principal

Page 1 of 1



Attendance

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2023-24

Name of Course: Clinical Data Management
 Course Code: NA

Date: 11/09/2023 - 20/09/2023
 Course Duration: 42 hrs

Attendance

Sr. No	Name of Students	11/09/23	12/09/23	13/09/23	14/09/23	15/09/23	16/09/23	18/09/23	20/09/23
1	KADAM SHIVAM SURESH	P	A	P	P	P	P	P	P.
2	KAMBLE RAHUL DHANRAJ	P	P	P	P	A	P	P	P
3	KATKADE SHRUSHTI ARUN	P	P	A	P	P	P	P	A
4	KEDAR RUTVIK PRAKASH	A	P	P	P	A	P	P	P
5	KHANKARI VAISHNAVI YOGESH	P	A	P	A	P	P	P	P
6	KHAWALE YASHVARDHAN DINESH	P	P	P	P	P	A	P	P
7	DISALE ATHARV AUDUMBAR	P	P	P	A	P	P	P	P
8	GADE SOHAM VISHAL	P	A	P	P	P	P	P	P
9	GAJARE SAHIL SUNIL	P	P	P	P	P	P	P	P
10	GEHLOT DURGA RAMESH	P	P	P	A	P	P	P	P
11	SHINDE DIVYANI SAHEBRAO	P	A	P	P	P	A	P	P
12	SHINDE GANESH SANJAY	A	P	P	A	A	P	P	P
13	SHINDE VISHAL BALU	P	P	P	P	A	P	A	P
14	SHIRSATH ATHARVA SHAM	P	P	P	P	P	A	P	A
15	SHITOLE POOJA GAJANAN	P	A	P	P	P	A	P	P
16	MANKAR MOHINI ISHWARDAS	A	P	P	A	P	P	P	P
17	MARNE PAYAL SUNIL	P	A	P	P	P	A	P	P
18	MASNE PRAJAKTA BHAGWAN	P	P	P	P	A	P	A	P
19	MHASKE RUTUJA TANAJI	P	P	A	A	P	P	P	P
20	MORE BHAKTI RAJESH	A	P	P	P	P	P	A	P





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Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Students	11/09/23	12/09/23	13/09/23	14/09/23	15/09/23	16/09/23	18/09/23	20/09/23
21	VERULKAR SANCHAY	P	A	P	P	A	P	P	P
22	SHA LIGRAM	P	P	P	P	P	A	A	P
23	WADHAI GAURANG ANANT	P	A	P	A	A	P	P	P
24	AUSEKAR NUPUR	P	P	P	P	P	P	P	A
25	RAMESHRAO	P	P	P	A	P	P	P	A
26	BADHE SUMIT ARUN	P	P	P	P	P	P	P	P
27	BAVANE REKHA SANJAY	P	A	A	P	P	P	P	P
28	BHARAMBE BHAKTI	P	P	P	P	P	P	P	P
29	CHANDRAKANT	P	P	P	P	P	P	P	P
30	BHARAMBE MIHIR SHIVAJI	P	P	P	P	P	P	P	P
31	BHATANE CHAITANYA	P	P	P	P	P	P	P	P
32	GOVIND	P	P	P	P	P	P	P	P
33	BHOI NEERAJ KISHOR	P	P	P	P	P	P	P	P
34	BHOPALE SANIKA RAJESH	P	P	P	P	P	P	P	P
35	LOKHANDE PRIYA NAVNATH	P	P	P	P	P	P	P	P
36	LONDHE NINAD RAJENDRA	P	P	P	P	P	P	P	P
37	MADAKE NIKHIL BHAGWAN	P	P	P	P	P	P	P	P
38	MAHAKE OMKESH VENKAT	P	P	P	P	P	P	P	P
39	MAIND PRASAD PRAVIN	P	P	P	P	P	P	P	P
40	ADHALRAO VAISHNAVI	P	P	P	P	P	P	P	P
41	DNYANESHWAR	P	P	P	P	P	P	P	P
42	ADHAV ATHARV RAJU	P	P	P	P	P	P	P	P
43	ADSUL JIVAN KANTILAL	P	P	P	P	P	P	P	P
44	AGLAVE AKANKSHA SANJAY	P	P	P	P	P	P	P	P
45	AKOLKAR SHRUTIKA	P	P	P	P	P	P	P	P
46	BHIMRAJ	P	P	P	P	P	P	P	P
47	GADADE VAISHNAVI SURESH	P	P	P	P	P	P	P	P
48	GADHAVE SHRUTI BHARAT	P	P	P	P	P	P	P	P
49	GAIKWAD SUDHIR GIRIDHAR	P	P	P	P	P	P	P	P
50	GANGAWANE VISHAL	P	P	P	P	P	P	P	P
51	SACHIN	P	P	P	P	P	P	P	P
52	BARANGULE SAKSHI ASHOK	P	P	P	P	P	P	P	P





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Sr. No	Name of Students	11/09/23	12/09/23	13/09/23	14/09/23	15/09/23	16/09/23	18/09/23	20/09/23
46	BHAGAWAT SAYALI NARAYAN	P	P	P	A	P	P	A	P
47	BHANGARE TRUPTI SUDHIR	A	P	P	P	A	P	P	P
48	BHARAMBE SOHAN NARENDRA	A	P	P	P	P	P	P	P
49	PACHPHULE ANUJA HARIDAS	P	P	A	P	P	P	P	A
50	PANDIT AISHWARYA SUNIL	P	P	P	A	P	A	P	P
51	PHALAKE SATYAJIT RAM	A	A	P	P	P	P	P	P
52	SALUNKE MUKUND APPASAHEB	P	P	A	P	P	A	P	P
53	VALVI ROHIT VILAS	P	P	P	A	P	P	P	A
54	MADAR PRATIKSHA	A	P	A	P	P	P	P	P
55	MAKEY OMKAR DATTATRAY	P	P	A	A	P	P	P	P
56	MALI VAIBHAV SHIVAJI	P	P	P	A	P	P	P	P

Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal



Assessment

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P.E.Society, Pune

2023-24

Name of Course: **Clinical Data Management**
 Course Code: **NA**

Date: **11/09/2023 - 20/09/2023**
 Course Duration: **42 hrs**

Assessment

Sr. No	Name of Students	Marks 20
1	KADAM SHIVAM SURESH	17
2	KAMBLE RAHUL DHANRAJ	15
3	KATKADE SHRUSHTI ARUN	16
4	KEDAR RUTVIK PRAKASH	18
5	KHANKARI VAISHNAVI YOGESH	19
6	KHAWALE YASHVARDHAN DINESH	19
7	DISALE ATHARV AUDUMBAR	17
8	GADE SOHAM VISHAL	18
9	GAJARE SAHIL SUNIL	19
10	GEHLOT DURGA RAMESH	17
11	SHINDE DIVYANI SAHEBRAO	19
12	SHINDE GANESH SANJAY	18
13	SHINDE VISHAL BALU	19
14	SHIRSATH ATHARVA SHAM	19
15	SHITOLE POOJA GAJANAN	17
16	MANKAR MOHINI ISHWARDAS	19
17	MARNE PAYAL SUNIL	19
18	MASNE PRAJAKTA BHAGWAN	18
19	MHASKE RUTUJA TANAJI	19
20	MORE BHAKTI RAJESH	17
21	VERULKAR SANCHAY SHALIGRAM	18
22	WADHAI GAURANG ANANT	19
23	AUSEKAR NUPUR RAMESHRAO	19
24	BADHE SUMIT ARUN	17
25	BAVANE REKHA SANJAY	18
26	BHARAMBE BHAKTI CHANDRAKANT	19
27	BHARAMBE MIHIR SHIVAJI	17
28	BHATANE CHAITANYA GOVIND	19
29	BHOI NEERAJ KISHOR	18
30	BHOPALE SANIKA RAJESH	19





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Sr. No	Name of Students	Marks 20
31	LOKHANDE PRIYA NAVNATH	17
32	LONDHE NINAD RAJENDRA	19
33	MADAKE NIKHIL BHAGWAN	18
34	MAHAKE OMKESH VENKAT	19
35	MAIND PRASAD PRAVIN	19
36	ADHALRAO VAISHNAVI DNYANESHWAR	17
37	ADHAV ATHARV RAJU	19
38	ADSUL JIVAN KANTILAL	19
39	AGLAVE AKANKSHA SANJAY	18
40	AKOLKAR SHRUTIKA BHIMRAJ	19
41	GADADE VAISHNAVI SURESH	17
42	GADHAVE SHRUTI BHARAT	17
43	GAIKWAD SUDHIR GIRIDHAR	19
44	GANGAWANE VISHAL SACHIN	18
45	BARANGULE SAKSHI ASHOK	19
46	BHAGAWAT SAYALI NARAYAN	19
47	BHANGARE TRUPTI SUDHIR	17
48	BHARAMBE SOHAN NARENDRA	19
49	PACHPHULE ANUJA HARIDAS	19
50	PANDIT AISHWARYA SUNIL	18
51	PHALAKE SATYAJIT RAM	19
52	SALUNKE MUKUND APPASAHEB	17
53	VALVI ROHIT VILAS	18
54	MADAR PRATIKSHA	19
55	MAKEY OMKAR DATTATRAY	17
56	MALI VAIBHAV SHIVAJI	19

Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal



Certificate of Clinical Data Management







Brochure Health Economics and Pharmacoeconomics



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MODERN COLLEGE OF PHARMACY, NIGDI
IN COLLABORATION WITH
RACE ACADEMY

Certificate Course On
HEALTH ECONOMICS &
PHARMACOECONOMICS
29/09/2023 - 10/10/2023



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List of Students Health Economics and Pharmacoeconomics

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PrincipalProf. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: Health Economics and Pharmacoeconomics Date: 29/09/2023-10/10/2023
Course Code: NA Course Duration: 40 hrs

List of Students

Sr. No	Name of Student	Sign
1	HOLE SANIKA VILAS	
2	HUSE ATHARVA SACHIN	
3	JADHAV VARDHINI DHANAJI	
4	JAGTAP ANURAG SANTOSH	
5	KALE ADITI APPA	
6	GAIKWAD REVATI RAMESH	
7	HATE SHRUTI VIKAS	
8	INGLE SHRUTI RAJENDRA	
9	JADHAV KEREN WILSON	
10	KALE AYUSH PRAFUL	
11	RATHOD MONIKA VASANT	
12	SHINDE SHUBHANGI NAVNATH	
13	TIKATE SHARADHA SHIVAJI	
14	GAVHANE SHRAVANI BHAIRAVNATH	
15	GAWARI GAYATRI SHIVAJI	
16	GHODAKE SAVITRI VISHWANATH	
17	GHUGE POONAM SHARAD	
18	AUTADE SAKSHI SEETARAM	
19	BAGUL GURUPRIT DEVGIR	
20	BAMBALE ANKITA PANDURANG	
21	BHAGAT PRAGATI DHANANJAY	
22	GORE VIKAS MADHUKAR	
23	GOVARDHAN BHARGAVI GOVIND	
24	GUNJAL DEEPTI MACHINDRA	
25	GUTTE RAJESH MUNJA	
26	HATKAR POOJA SHANKAR	
27	DAGADE RANI DHONDIBA	
28	DEOSARKAR VASUNDHARA NAMDEVRAO	
29	DHAWADE SIDDHI SANTOSH	
30	DHEKANE SHARANYA CHANDRASHEKHAR	





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M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Sign
31	GAIKWAD AADITYA VINAYAK	<i>[Signature]</i>
32	GHUNDRE SAKSHI KISHOR	<i>[Signature]</i>
33	JADHAV SAYALI PRAKASH	<i>[Signature]</i>
34	JAGTAP PRATIK PARASRAM	<i>[Signature]</i>
35	JOSHI NIKHIL SUMANTRAO	<i>[Signature]</i>
36	KENDRE SHAILESH HARISHCHANDRA	<i>[Signature]</i>
37	JADHAV PRAPTI SURYAKANT	<i>[Signature]</i>
38	JAMADADE RANJIT ASHOK	<i>[Signature]</i>
39	KHICHADE PRATIMA MAHADEV	<i>[Signature]</i>
40	KORE ROHAN RAJKUMAR	<i>[Signature]</i>
41	PHALKE PRATIK KIRAN	<i>[Signature]</i>
42	RAI SHREYA RAJKUMAR	<i>[Signature]</i>
43	RAKSHASKAR BHAVESH VINAYAK	<i>[Signature]</i>
44	RANE MAYUR SANJAY	<i>[Signature]</i>
45	JAGTAP PRAJAKTA BAJRANG	<i>[Signature]</i>
46	KASTURE SNEHAL HANAMANT	<i>[Signature]</i>
47	PATIL ANIMESH RAMKRUSHNA	<i>[Signature]</i>
48	PAWAR SADHANA SANDEEP	<i>[Signature]</i>
49	BALURE SUKSHAMTA DIGAMBAR	<i>[Signature]</i>
50	BHOITE PRATIKSHA SURESH	<i>[Signature]</i>
51	CHAVAN VAISHNAVI VAJINATH	<i>[Signature]</i>
52	DESHMUKH VAISHNAVEE GANESHRAO	<i>[Signature]</i>
53	DEOKAR SAAKSHI SHRIKANT	<i>[Signature]</i>
54	DESAI SUMEDH SANJAY	<i>[Signature]</i>
55	DHADGE SAVATA SANJAY	<i>[Signature]</i>
56	DHAS VISHAL KHANDU	<i>[Signature]</i>



[Signature]
Dr. A. R. Kumbhar
Course Co-ordinator




[Signature]
Dr. P. D. Chaudhari
Principal





Curriculum of Health Economics and Pharmacoeconomics

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<p>Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal</p>		<p>Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune</p>
<p>2023-24</p>		
<p>Name of Course: Health Economics and Pharmacoeconomics Date: 29/09/2023-10/10/2023 Course Code: NA Course Duration: 40 hrs</p>		
<p>Syllabus</p>		
<p>Module 1: Introduction</p>		
<p>Module 2: Economic Evaluation Introduction to economic evaluation Health utilities Quality of life Quality Adjusted Life Years (QALY) In-Depth Resources</p>		
<p>Module 3: Technology Assessment Health technology assessment (HTA) In-Depth Resources</p>		
<p>Module 4: Drug Management in Healthcare System The Micro-Management Perspective In-Depth Resources</p>		
<p>Module 5: Patents and policies to promote competition in Pharmaceutical Market Patents and policies to promote competition In-Depth Resources</p>		
<p>Module 6: Major Healthcare Reforms in History: Impact and Evaluation Introduction and UK case study A Landmark US Healthcare Reform The Health Transformation Program in Turkey: A Case Study Universal Health Coverage in Thailand: A Landmark Reform Germany's Social Health Insurance</p>		
<p>Module 7: Health Economics: A Demand Perspective Health Economics from a Demand Perspective</p>		







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Module 8: Health Economic from supply Perspective
Economics and Its Applicability to Health
The Health Production Function and Health Expenditure Analysis
Markets for Health Goods and Services
Costs, Payment Systems, and Incentives in Health Services

Module 9: Real World Evidence (RWE)
Real World Evidence (RWE) Fundamentals
Delving Deeper into Real-World Evidence (RWE)

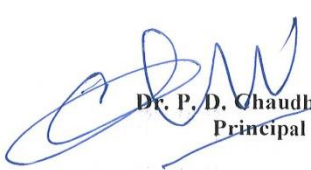
Module 10: Behavioral Economics and Health
Behavioral Economics and Health: Shaping Better Decisions

Module 11: Advance Topic in Health Economics
Global health economics, pandemics and cooperation
The Economics of Antimicrobial Resistance

Module 12: Modelling in Health Care
Introduction to Modelling in Health Care I
Introduction to Modelling in Health Care II
Example of Full Cost-effectiveness Model


Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal



Summary Health Economics and Pharmacoeconomics



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P.E.Society, Pune

2023-24

Name of Course: Health Economics and Pharmacoeconomics

Date: 29/09/2023-10/10/2023

Course Duration: 40 hrs

Course Code: NA

Summary Report

Type of Program	Certificate Course on Health Economics and Pharmacoeconomics
Period	29th September 2023 – 10th October 2023 (40 hrs)
Brief Report	<p>A certificate course in Health Economics and Pharmacoeconomics was conducted at the institute in Collaboration with Elite institute of Pharma skills, Pune. The course was held between 29th September 2023 – 10th October 2023 (40 hrs). The introductory module provides an overview of health economics and pharmacoeconomics, focusing on their role in optimizing healthcare systems. It highlights the principles of resource allocation, cost analysis, and economic decision-making in health interventions. Analyzes healthcare from the demand side, focusing on patient behaviors, access, and the factors influencing healthcare consumption. Explores how behavioral economics principles can be applied to healthcare to encourage better decision-making by patients, providers, and policymakers. This includes nudging healthier behaviors and optimizing healthcare delivery systems. 56 students at the institute enrolled for this course. The chief course conductors were Elite institute of Pharma skills.</p> <p>Overall, the Health Economics and Pharmacoeconomics course curriculum equips students with the foundational knowledge and practical tools needed to navigate the complexities of health economics and pharmacoeconomics. By integrating theoretical insights with real-world applications, it prepares students to contribute to the optimization of healthcare systems, policy-making, and pharmaceutical innovation. The course was Coordinated by Dr. A.R. Kumbhar Assistant Professor Department of Pharm D and well supported by the administrative and non – teaching staff.</p>
POs attained	PO1 –PO11

Dr. A. R. Kumbhar
Course Co-ordinator

Dr. P. D. Chaudhari
Principal

**Attendance of Health Economics and Pharmacoeconomics**

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 Principal

Prof. Dr. Gajanan R. Ekbote
 M.S., M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune

2022-23

Name of Course: Health Economics and Pharmacoeconomics Date: 29/09/2023-10/10/2023

Course Code: NA

Course Duration: 40 hrs

Attendance

Sr.	Name of Students	29/09/23	30/09/23	03/09/23	04/09/23	05/09/23	06/09/23	07/10/23	10/10/23
1	HOLE SANIKA VILAS	P	P	A	P	P	P	A	P
2	HUSE ATHARVA SACHIN	P	A	P	P	P	A	P	P
3	JADHAV VARDHINI DHANAJI	P	A	P	A	P	P	P	P
4	JAGTAP ANURAG SANTOSH	A	P	A	P	P	P	P	P
5	KALE ADITI APPA	P	A	P	P	A	P	P	P
6	GAIKWAD REVATI RAMESH	P	A	A	P	P	P	P	P
7	HATE SHRUTI VIKAS	A	A	P	P	P	P	P	P
8	INGLE SHRUTI RAJENDRA	P	P	A	P	P	A	A	P
9	JADHAV KEREN WILSON	P	A	P	P	A	P	P	P
10	KALE AYUSH PRAFUL	P	P	P	A	P	P	P	P
11	RATHOD MONIKA VASANT	A	P	A	P	P	P	P	P
12	SHINDE SHUBHANGI NAVNATH	P	P	A	P	P	P	A	P
13	TIKATE SHARADHA SHIVAJI	P	P	P	P	P	P	P	A
14	GAVHANE SHRAVANI BHAIKAVNATH	A	P	P	P	A	P	P	P
15	GAWARI GAYATRI SHIVAJI	P	P	A	P	P	P	A	P
16	GHODAKE SAVITRI VISHWANATH	P	A	P	P	A	P	P	P
17	GHUGE POONAM SHARAD	A	P	P	P	A	P	P	P
18	AUTADE SAKSHI SEETARAM	P	P	P	A	P	P	P	A
19	BAGUL GURUPRIT DEVGIR	A	P	P	P	A	P	P	P
20	BAMBALE ANKITA PANDURANG	P	P	A	P	P	P	A	P
21	BHAGAT PRAGATI DHANANJAY	P	A	P	P	A	P	P	P
22	GORE VIKAS MADHUKAR	P	P	A	P	P	P	P	A
23	GOVARDHAN BHARGAVI GOVIND	P	A	P	P	P	A	P	P
24	GUNJAL DEEPTI MACHINDRA	P	P	P	A	P	P	P	A
25	GUTTE RAJESH MUNJA	P	P	A	P	P	A	P	P
26	HATKAR POOJA SHANKAR	P	A	P	P	P	P	P	A
27	DAGADE RANI DHONDIBA	A	P	P	P	P	P	A	P
28	DEOSARKAR VASUNDHARA NAMDEVRAO	A	A	P	P	P	P	P	P
29	DHAWADE SIDDHI SANTOSH	A	P	P	P	P	P	P	A
30	DHEKANE SHARANYA CHANDRASHEKHAR	P	A	P	P	P	P	A	P





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E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in

Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S, M.N.A.M.S.
Chairman, Business Council
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Sr. No	Name of Students	29/09/23	30/09/23	03/09/23	04/09/23	05/09/23	06/09/23	07/10/23	10/10/23
31	GAIKWAD AADITYA VINAYAK	P	P	P	P	P	A	P	P
32	GHUNDRE SAKSHI KISHOR	P	P	A	P	P	P	P	P
33	JADHAV SAYALI PRAKASH	P	P	P	P	P	A	P	P
34	JAGTAP PRATIK PARASRAM	P	P	P	P	P	P	P	A
35	JOSHI NIKHIL SUMANTRAO	P	A	P	P	P	P	P	P
36	KENDRE SHAILESH	P	P	P	P	A	P	P	A
37	JADHAV PRAPTI SURYAKANT	P	P	P	P	P	P	P	A
38	JAMADADE RANJIT ASHOK	P	A	P	P	P	P	A	P
39	KHICHADE PRATIMA	P	P	P	P	P	P	P	P
40	MAHADEV	P	P	P	P	P	P	P	P
41	KORE ROHAN RAJKUMAR	P	P	P	P	A	P	P	P
42	PHALKE PRATIK KIRAN	P	P	P	P	P	P	A	P
43	RAI SHREYA RAJKUMAR	P	A	P	P	P	P	P	P
44	RAKSHASKAR BHAVESH	P	P	A	P	P	P	A	P
45	VINAYAK	P	P	P	P	P	P	P	P
46	RANE MAYUR SANJAY	P	P	P	A	P	P	P	P
47	JAGTAP PRAJAKTA BAJRANG	P	P	P	P	A	P	P	P
48	KASTURE SNEHAL	P	P	P	P	P	A	P	P
49	HANAMANT	P	P	P	P	P	P	P	P
50	PATIL ANIMESH	P	P	P	P	A	P	P	P
51	RAMKRUSHNA	P	P	P	P	P	P	P	P
52	PAWAR SADHANA SANDEEP	P	P	P	P	P	P	P	A
53	BALURE SUKSHAMTA	P	A	P	P	P	P	P	P
54	DIGAMBAR	P	A	P	P	P	P	P	P
55	BHOITE PRATIKSHA SURESH	P	A	P	P	P	P	P	P
56	CHAVAN VAISHNAVI	P	P	A	P	P	P	P	P
57	VAIJNATH	P	P	P	P	P	P	P	P
58	DESHMUKH VAISHNAVEE	P	P	P	A	P	P	P	P
59	GANESHRAO	P	P	P	P	P	P	P	P
60	DEOKAR SAAKSHI SHRIKANT	P	P	P	P	P	P	A	P
61	DESAI SUMEDH SANJAY	P	P	A	P	P	P	P	P
62	DHADGE SAVATA SANJAY	P	P	P	P	P	A	P	P
63	DHAS VISHAL KHANDU	P	P	A	P	P	P	P	P

Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal

Page 2 of 2



Assessment of Health Economics and Pharmacoeconomics



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Prof. Dr. P. D. Chaudhari
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Principal

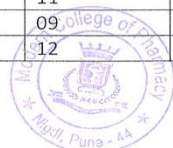
Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: Health Economics and Pharmacoeconomics Date: 29/09/2023-10/10/2023
Course Code: NA Course Duration: 40 hrs

Assessment

Sr. No	Name of Student	Discussion 15 Marks	Interview 15 Marks	Total 30 Marks
1	HOLE SANIKA VILAS	08	10	18
2	HUSE ATHARVA SACHIN	09	11	20
3	JADHAV VARDHINI DHANAJI	12	09	21
4	JAGTAP ANURAG SANTOSH	10	12	22
5	KALE ADITI APPA	11	08	19
6	GAIKWAD REVATI RAMESH	09	09	18
7	HATE SHRUTI VIKAS	12	10	22
8	INGLE SHRUTI RAJENDRA	08	09	17
9	JADHAV KEREN WILSON	09	13	22
10	KALE AYUSH PRAFUL	10	10	20
11	RATHOD MONIKA VASANT	09	13	22
12	SHINDE SHUBHANGI NAVNATH	13	09	22
13	TIKATE SHARADHA SHIVAJI	09	10	19
14	GAVHANE SHRAVANI BHAIKAVNATH	13	09	22
15	GAWARI GAYATRI SHIVAJI	10	13	23
16	GHODAKE SAVITRI VISHWANATH	13	09	22
17	GHUGE POONAM SHARAD	09	13	22
18	AUTADE SAKSHI SEETARAM	10	10	20
19	BAGUL GURUPRIT DEVGIR	13	13	26
20	BAMBALE ANKITA PANDURANG	12	09	21
21	BHAGAT PRAGATI DHANANJAY	10	12	22
22	GORE VIKAS MADHUKAR	13	08	21
23	GOVARDHAN BHARGAVI GOVIND	13	09	22
24	GUNJAL DEEPTI MACHINDRA	10	10	20
25	GUTTE RAJESH MUNJA	10	12	22
26	HATKAR POOJA SHANKAR	12	09	21
27	DAGADE RANI DHONDIBA	10	12	22
28	DEOSARKAR VASUNDHARA NAMDEVRAO	11	08	19
29	DHAWADE SIDDHI SANTOSH	09	09	18
30	DHEKANE SHARANYA CHANDRASHEKHAR	12	10	22





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Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Discussion 10 Marks	Interview 20 Marks	Total 30 Marks
31	GAIKWAD AADITYA VINAYAK	13	09	22
32	GHUNDRE SAKSHI KISHOR	10	13	23
33	JADHAV SAYALI PRAKASH	13	09	22
34	JAGTAP PRATIK PARASRAM	09	13	22
35	JOSHI NIKHIL SUMANTRAO	10	10	20
36	KENDRE SHAILESH HARISHCHANDRA	13	13	26
37	JADHAV PRAPTI SURYAKANT	12	09	21
38	JAMADADE RANJIT ASHOK	10	12	22
39	KHICHAD PRATIMA MAHADEV	13	08	21
40	KORE ROHAN RAJKUMAR	10	12	22
41	PHALKE PRATIK KIRAN	11	08	19
42	RAI SHREYA RAJKUMAR	09	09	18
43	RAKSHASKAR BHAVESH VINAYAK	12	10	22
44	RANE MAYUR SANJAY	08	09	17
45	JAGTAP PRAJAKTA BAJRANG	09	13	22
46	KASTURE SNEHAL HANAMANT	10	10	20
47	PATIL ANIMESH RAMKRUSHNA	09	13	22
48	PAWAR SADHANA SANDEEP	10	10	20
49	BALURE SUKSHAMTA DIGAMBAR	13	13	26
50	BHOITE PRATIKSHA SURESH	12	09	21
51	CHAVAN VAISHNAVI VAJINATH	10	12	22
52	DESHMUKH VAISHNAVEE GANESHRao	13	08	21
53	DEOKAR SAAKSHI SHRIKANT	10	12	22
54	DESAI SUMEDH SANJAY	12	10	22
55	DHADGE SAVATA SANJAY	08	09	17
56	DHAS VISHAL KHANDU	09	13	22

Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal



Certificate of Health Economics and Pharmacoeconomics







Brochure of Clinical Research



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MODERN COLLEGE OF PHARMACY, NIGDI
IN COLLABORATION WITH
RACE ACADEMY

Certificate Course On
CLINICAL RESEARCH
01/11/2023 - 08/11/2023



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List of Student of Clinical Research

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 Principal

Prof. Dr. Gajanan R. Ekbote
 M.S, M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune

Sr. No	Name of Student	Sign
31	PATIL UTKARSHA CHAITANYA	Utkarsha
32	THAKARE SAKSHI RAJENDRA	Sakshi
33	VHANAMANE ADITYA BHIMASHANKAR	Aditya
34	BODKHE KEDAR KAILAS	Kedar
35	GHOLAP NAMRATA AVINASH	Namrata
36	GORE AVINASH BHARAT	Avinash
37	GAIKWAD ANJALI SUNIL	Anjali
38	GANGURDE MADHURI ASHOK	Madhuri
39	HAKE PALLAVI SUDHAKAR	Pallavi
40	JADHAV MOHINI BHARAT	Mohini
41	MORE GEETANJALI PANDURANG	Geetanjali
42	MORE VAISHNAVI SURESH	ViVa
43	PATHAN ADIL MUKHTAR	Adil
44	PATIL HARSHAL RAJESH	Harshal
45	NALE PRATHMESH ASHOK	Prathmesh
46	NAVGHARE PAVAN BABURAO	Pavan
47	PATANGE AJAY PRAKASH	Ajay
48	PATIL MEGHANA NITIN	Meghana
49	BHATTACHARYA SHREEPARNA KAUSTAV	Shreeparna
50	BHOSALE SHRUTI RAMCHANDRA	Shruti
51	BHOYAR SHWETA SUKHDEO	Shweta
52	PARKHE TEJAS SANTOSH	Tejas
53	PATIL NINAD BHARAT	Ninad
54	PATIL PRADNYA PRAKASH	Pradnya



Dr. A. R. Kumbhar
 Course Co-ordinator



Dr. P. D. Chaudhari
 Principal





Curriculum of Clinical Research

			
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<p>Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal</p>		<p>Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune</p>	
<p>2023-24</p>			
<p>Name of Course: Clinical Research Course Code: NA</p>		<p>Date: 01/11/2023-08/11/2023 Course Duration: 38 hrs</p>	
<p>Syllabus</p>			
<p>Module 1: Introduction Historical background of US Drug Law and Regulations Drug Approval Process New Drug Development-Preclinical Steps Investigational New Drug Application (INDA) New Drug Application (NDA) Abbreviated New Drug Application (ANDA)-1 Abbreviated New Drug Application (ANDA)-2 Abbreviated New Drug Application (ANDA)-3 Generic Products Innovator-Generics-Common and Differentiating Points-1 Innovator-Generics-Common and Differentiating Points-2 NDA Vs ANDA Clinical Research-Inclusion-Exclusion Criteria</p>			
<p>Module 2: Definitions of key terms used in GCP GCP and Clinical Study Key stakeholders in a Clinical Study Key Processes in a Clinical Study Key Essential Documents Investigational Products (IPs) Definition</p>			
<p>Module 3: Principles of ICH-GCP Principles of GCPs and Practical Advices Apply the GCP Principles Apply the patient-centric Principles</p>			

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Module 4: Institutional Review Board (IRB)/ Independent Ethics Committee (IEC)
Responsibilities of the Investigators towards the IRB/IEC
Composition, Function and Operating Criteria of Ethics Committees
Procedures and Records
IRC / IEC Responsibilities

Module 5: Practical Exercises
CASE 1: GCP adherence from real site Inspection
CASE 2: GCP adherence from real site Inspection

Module 6: Major Players in Clinical Research
Major Players in Clinical Research
Sponsor-1
Sponsor-2
Sponsor-3
Investigator-1
Investigator-2
Investigator-3
Clinical Research Associate (CRA) and Clinical Research Coordinator (CRC)

Module 7: Important Documents in Clinical Research
Essential Documents-1
Essential Documents-2
Protocol
Source Documents
Preview
Informed Consent-1
Informed Consent-2
Investigator's Brochure
Patient Information Sheet-Patient Information Brochure
Case Report Form (CRF)
Clinical Research Multiple Choice Questions
Bonus Materials



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Module 8: Clinical Trial

The Essentials of Clinical Trial Monitoring and Design
Exploring Clinical Trials. From Pharmacovigilance to Precision Medicine
The Importance of Clinical and Academic Research
Exploring the Role of Regulatory Authorities in Clinical Research

Module 9: Glossary

Understanding Clinical Trials. A Guide to Key Terms
Understanding Clinical Trials. A guide to key terms 2
Understanding Clinical Trials. A guide to key terms 3




Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal

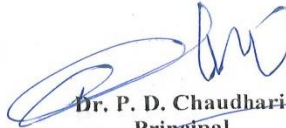


Summary of Clinical Research

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2023-24	
Name of Course: Clinical Research Course Code: NA	Date: 01/11/2023-08/11/2023 Course Duration: 38 hrs
Summary Report	
Type of Program	Certificate Course on Clinical Research
Period	1 st November 2023 – 8 th November 2023 (38 hrs).
Brief Report	<p>A certificate course in Clinical Research was conducted at the institute in Collaboration with Elite institute of Pharma skills, Pune. The course was held between 1st November 2023 – 8th November 2023 (38 hrs). The course covered varied topics like in Module I students were introduced to the stages of new drug development, including preclinical steps, Investigational New Drug Applications (INDA), and New Drug Applications (NDA). Module IV Students provided an This module describes the responsibilities of investigators towards IRBs/IECs, their composition, operational criteria, and procedural standards. An overview of essential documents required in clinical research is provided, including protocols, informed consent forms, investigator brochures, and patient information sheets. 54 students at the institute enrolled for this course. The chief course conductors were Elite institute of Pharma skills.</p> <p>Overall, the Clinical Research course provided participants with a comprehensive understanding of the key concepts, clinical research, GCP adherence, regulatory compliance, and the operational intricacies of drug development and clinical trials. The course was Coordinated by Dr. A.R. Kumbhar Assistant Professor Department of Pharm D and well supported by the administrative and non-teaching staff.</p>
POs attained	PO1 –PO11


 Dr. A. R. Kumbhar
 Course Co-ordinator




 Dr. P. D. Chaudhari
 Principal



Attendance of Clinical Research

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Chairman, Business Council
P.E.Society, Pune

2022-23

Name of Course: Clinical Research
Course Code: NADate: 01/11/2023-08/11/2023
Course Duration: 38 hrs

Attendance

Sr.	Name of Students	01/11/23	02/11/23	03/11/23	04/11/23	06/11/23	07/11/23	08/11/23
1	SANAP PUJA ASHOK	P	P	A	P	P	A	P
2	SARADE VAIBHAV SATISH	P	A	P	P	A	A	P
3	SHAIKH NUMAN SALIM	A	P	P	A	P	P	A
4	SHEWALE PURUSHOTTAM SATISH	P	P	A	P	P	A	P
5	JADHAV ANIKET ANAND	A	P	P	P	A	P	P
6	JADHAV ASHWINI DNYANESHWAR	P	P	P	A	P	A	A
7	JAIN SIDDHI PRATAP	P	P	P	A	P	A	P
8	AMRUTKAR SACHIN EKNATH	P	P	P	P	A	P	P
9	ANDRE DISHA YASHWANT	P	A	A	P	P	P	A
10	ATTARKAR YASH GANESH	P	P	P	A	P	A	P
11	THOMBARE SANIKA DNYANESHWAR	P	A	A	P	P	P	A
12	THORAT KIRTI BABULAL	A	P	P	A	P	P	P
13	VAIRAT UDDHAV BHANUDAS	P	A	P	A	P	P	P
14	VAYAL SHREYA SANDEEP	P	P	P	P	P	A	P
15	FUNDE GIRISH PRAMOD	A	P	P	P	P	P	P
16	GAIKWAD ANISH ARUN	P	A	P	P	P	P	P
17	GALANDE SHUBHAM VIJAY	A	P	P	P	P	P	P
18	GAMBHIR SUYASH DEEPAK	P	P	A	P	P	A	P
19	SOLANKE OMKAR SHIVAJI	A	P	P	P	A	P	P
20	SOMWANSHI YOGESH DHONDIRAM	P	A	P	A	P	P	P
21	SONAWANE SWEETY ASHOK	A	P	A	P	A	P	P
22	SONTAKKE RUTUJA KIRAN	P	P	P	P	A	P	P
23	GARKAL ASHISH VISHNU	P	P	P	P	P	A	P
24	GHUIKAR SHREYASH ARUN	P	P	P	P	P	P	P
25	GONDE DIPAK PANDURANG	P	P	P	P	P	P	P
26	PAWAR RUTWIK CHANDRAKANT	P	P	P	P	P	P	P
27	PAWAR SANDESH BHAUSAHEB	P	P	P	P	P	A	P
28	DHAMAL SAKSHI SANJAY	P	P	P	P	P	A	A
29	DIGHE YOGITA GANPAT	P	A	P	P	P	P	P
30	DOIFODE KOMAL JOTIRAM	P	P	P	A	P	A	P



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Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Students	01/11/23	02/11/23	03/11/23	04/11/23	06/11/23	07/11/23	08/11/23
31	PATIL UTKARSHA CHAITANYA	P	P	A	P	P	P	P
32	THAKARE SAKSHI RAJENDRA	P	P	P	A	P	A	P
33	VHANAMANE ADITYA BHIMASHANKAR	P	P	P	P	P	P	A
34	BODKHE KEDAR KAILAS	P	P	P	P	P	P	P
35	GHOLAP NAMRATA AVINASH	A	P	P	P	P	P	P
36	GORE AVINASH BHARAT	P	A	P	P	A	P	P
37	GAIKWAD ANJALI SUNIL	P	P	P	P	P	A	P
38	GANGURDE MADHURI ASHOK	P	P	P	P	A	P	A
39	HAKH PALLAVI SUDHAKAR	A	P	A	P	A	P	P
40	JADHAV MOHINI BHARAT	P	P	P	P	A	A	P
41	MORE GEETANJALI PANDURANG	A	P	P	P	P	P	A
42	MORE VAISHNAVI SURESH	P	P	A	P	P	P	P
43	PATHAN ADIL MUKHTAR	P	P	P	P	A	P	P
44	PATIL HARSHAL RAJESH	P	P	P	P	A	P	P
45	NALE PRATHMESH ASHOK	A	P	A	P	P	P	P
46	NAVGHARE PAVAN BABURAO	P	P	P	P	A	P	P
47	PATANGE AJAY PRAKASH	P	P	A	P	P	A	P
48	PATIL MEGHANA NITIN	A	P	A	P	P	A	P
49	BHATTACHARYA SHREEPARNA KAUSTAV	P	P	P	P	A	A	P
50	BHOSALE SHRUTI RAMCHANDRA	A	P	P	P	P	A	A
51	BHOYAR SHWETA SUKHDEO	P	P	P	P	A	P	P
52	PARKHE TEJAS SANTOSH	P	P	P	P	P	A	P
53	PATIL NINAD BHARAT	A	P	P	P	P	P	A
54	PATIL PRADNYA PRAKASH	P	P	P	P	A	P	P

Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal



Assessment of Clinical Research

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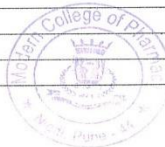
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M.Pharm., Ph.D.
PrincipalProf. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: Clinical Research
Course Code: NADate: 01/11/2023-08/11/2023
Course Duration: 38 hrs

Assessment

Sr. No	Name of Student	Panel Interview 20 Marks
1	SANAP PUJA ASHOK	18
2	SARADE VAIBHAV SATISH	17
3	SHAIKH NUMAN SALIM	19
4	SHEWALE PURUSHOTTAM SATISH	16
5	JADHAV ANIKET ANAND	15
6	JADHAV ASHWINI DNYANESHWAR	17
7	JAIN SIDDHI PRATAP	19
8	AMRUTKAR SACHIN EKNATH	16
9	ANDRE DISHA YASHWANT	18
10	ATTARKAR YASH GANESH	16
11	THOMBARE SANIKA DNYANESHWAR	15
12	THORAT KIRTI BABULAL	17
13	VAIRAT UDDHAV BHANUDAS	19
14	VAYAL SHREYA SANDEEP	16
15	FUNDE GIRISH PRAMOD	16
16	GAIKWAD ANISH ARUN	15
17	GALANDE SHUBHAM VIJAY	17
18	GAMBHIR SUYASH DEEPAK	19
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21	SONAWANE SWEETY ASHOK	16
22	SONTAKKE RUTUJA KIRAN	16
23	GARKAL ASHISH VISHNU	15
24	GHUIKAR SHREYASH ARUN	19
25	GONDE DIPAK PANDURANG	16
26	PAWAR RUTWIK CHANDRAKANT	19
27	PAWAR SANDESH BHAUSAHEB	16
28	DHAMAL SAKSHI SANJAY	15
29	DIGHE YOGITA GANPAT	17
30	DOIFODE KOMAL JOTIRAM	19





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P.E.Society, Pune

Sr. No	Name of Student	Panel Interview 20 Marks
31	PATIL UTKARSHA CHAITANYA	15
32	THAKARE SAKSHI RAJENDRA	17
33	VHANAMANE ADITYA BHIMASHANKAR	19
34	BODKHE KEDAR KAILAS	19
35	GHOLAP NAMRATA AVINASH	16
36	GORE AVINASH BHARAT	18
37	GAIKWAD ANJALI SUNIL	16
38	GANGURDE MADHURI ASHOK	15
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45	NALE PRATHMESH ASHOK	19
46	NAVGHARE PAVAN BABURAO	16
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48	PATIL MEGHANA NITIN	15
49	BHATTACHARYA SHREEPARNA KAUSTAV	17
50	BHOSALE SHRUTI RAMCHANDRA	19
51	BHOYAR SHWETA SUKHDEO	19
52	PARKHE TEJAS SANTOSH	16
53	PATIL NINAD BHARAT	18
54	PATIL PRADNYA PRAKASH	16
55	PATIL UTKARSHA CHAITANYA	19
56	THAKARE SAKSHI RAJENDRA	16

Dr. A. R. Kumbhar
Course Co-ordinator

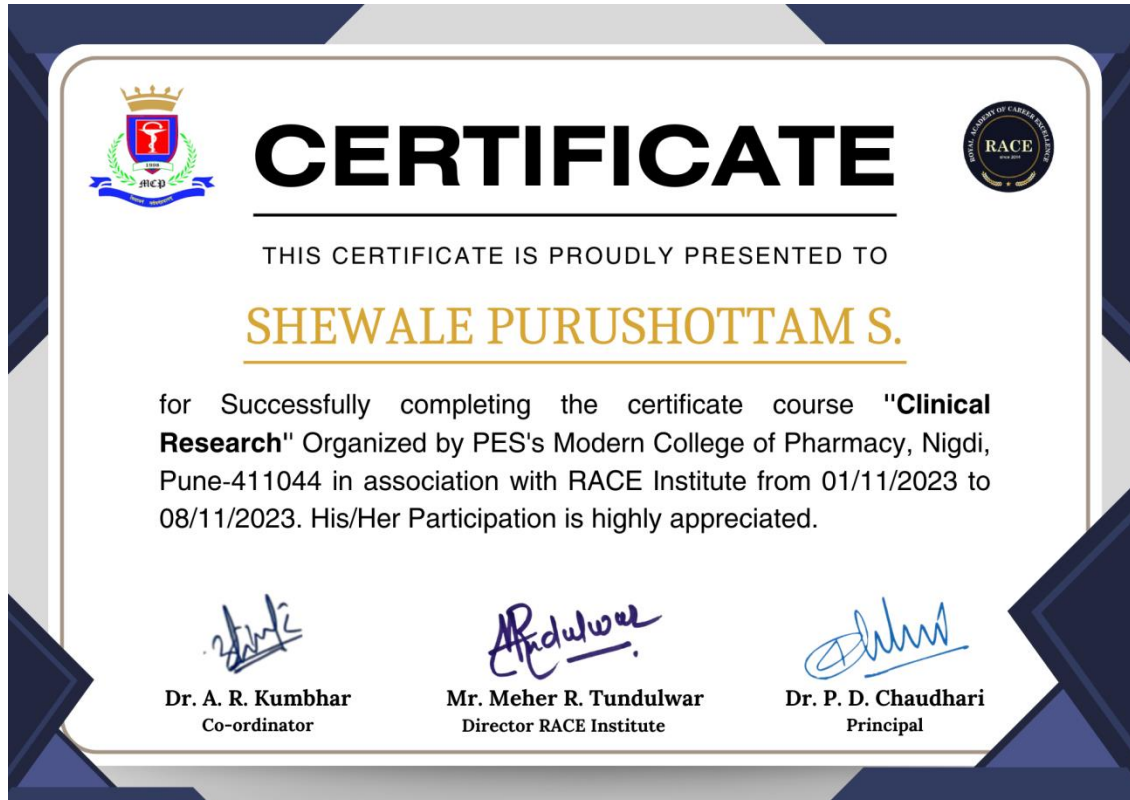


Dr. P. D. Chaudhari
Principal



Certificate of Clinical Research







Brochure of Generative AI in Pharmacovigilance



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MODERN COLLEGE OF PHARMACY , NIGDI

IN COLLABORATION WITH

RACE ACADEMY

Certificate Course On
GENERATIVE AI IN
PHARMACOVIGILANCE

21/11/2023 - 30/11/2023



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List of Students Generative AI in Pharmacovigilance

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Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: Generative AI in Pharmacovigilance
Course Code: NADate: 21/11/2023-30/11/2023
Course Duration: 40 hrs

List of Students

Sr. No	Name of Student	Sign
1	AANDIALKAR PRATIKSHA DHANANJAY	
2	ALSUNDKAR ATHARV SHRIKANT	
3	GURAV VIGHNESH SHAIENDRA	
4	HANDE RUSHIKESH KAMALAKAR	
5	SUDKE VEDANTI RAJESH	
6	TAMBOLI KHATIJA KONDAJI	
7	JAGTAP VAIBHAV ANNASAHEB	
8	JAMADAR YASHPAL MANSING	
9	JANE ACHAL SUDHIR	
10	BOBADE DURGA MANOJ	
11	BODKHE SHRINATH BALAJI	
12	JAGTAP BHARGAV BAPU	
13	JAGTAP SAYALI SUNIL	
14	JAMADADE DHANASHRI SANTOSH	
15	JOSHI ATHARVA PRAFUL	
16	KAMBLE ANUSHKA ANIL	
17	DHERE SWAMINI SANTOSH	
18	DOSHI SOHAM SHEKHAR	
19	ATTARDE HITESH YASHWANT	
20	AUTADE PRADNYA KALLYAN	
21	BABHALKAR ADITYA LAXMAN	
22	BAGADE SNEHAL SANJAY	
23	BHAWARE PRIYA REKYA	
24	BENKE SAMIKSHA CHANDRASHEKHAR	
25	SURYAWANSHI MONIKA LAXMANRAO	
26	ULMULE ANIKET SHIVAJI	
27	WAGHMARE SRUSHTI SURESH	
28	SHINDE GAUREE SANJAY	
29	WAGHMODE DARSHANA DEVIDAS	
30	WARADE SMITA MADHAV	





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Sr. No	Name of Student	Sign
31	DAPHALE NAMRATA JAYWANT	
32	GAMBHIRE RAHUL RAMDAS	
33	MORE ABHIJEET PRABHAKAR	
34	SHAIKH FIZA VAHED	
35	VERNEKAR PURVA VIGHNESHWAR	
36	BARDE NEHA AMOL	
37	BIRADAR ALFIYA MAHIBUB	
38	GHOTEKAR KALYANI SHANTARAM	
39	HALNE KRISHNA GANGADHAR	
40	JADHAV SNEHA SATISH	
41	BAKALE SAYALI SHIVRAJ	
42	BENDGA TUSHAR SANTYA	
43	BHANGE SHARDUL SANTOSHRAO	
44	DESHMUKH RITESH SANTOSHRAO	
45	DONGARE AVANI RAVINDRA	
46	GITE MANASVI SHARAD	
47	CHAVAN VAISHNAVI SANTOSH	
48	CHEKE VAISHNAVI VITTHAL	
49	NAGARE SHWETA SHIRISH	
50	PAGADALA LAASYARATNA DURGAPRASAD	
51	SANAP NIKITA BABASAHEB	
52	SAVALI KIRTI SUBHASH	
53	PANCHABHAI PUSHKAR KISHOR	
54	PATIL SWAPNIL VIJAYKUMAR	
55	SAYYED AJMAT SAMEER	



Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal



Curriculum of Generative AI in Pharmacovigilance



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P.E. Society, Pune

2023-24

Name of Course: **Generative AI in Pharmacovigilance** Date: **21/11/2023-30/11/2023**
Course Code: **NA** Course Duration: **40 hrs**

Syllabus


Module 1: Generative AI – An Introduction
What is Generative AI
AI Vs Generative AI : What's the Difference?
Technology that Powers Generative AI
History and Evolution of Generative AI
Generative AI Capabilities in Pharmacovigilance – 1&2
Industry Insights - How Pharma Companies leverage Generative AI

Module 2: Choose the right product: All about Gen AI Product
Generative AI Products on the Market
Chat GPT and Chat GPT Plus - Personal Productivity Version
Chat GPT Teams and Enterprise - Business Use Version
Open AI Developer Platform - Developer Version
Generative AI Product to use in this tutorial
Enterprise Level Expectations - Pharmacovigilance Context

Module 3: Prompt Engineering
Basics of Prompt Engineering - Context, Persona and Tone
Zero Shot and Few Shot Prompting
Chain of Thought - Prompting Technique



Module 4: Personal Productivity of business analyst – MedDRA Implementation
Responsibilities of a Business Analyst
Document Smart User Stories for End User Requirements
Create Step-By-Step Test Scripts for Validation Testing Preview
Section Conclusion and a Question for you

Module 5: Summarize Literature Research and GVP Module
Text Summarization with Good Pharmacovigilance Practices (Theory)
Text Summarisation for GVP Audits and Inspections (Lab)
Lab on Text Summarization - Literature on Solifenacin Drug
Conclusion and Other Use Cases of Text Summarization
Text Summarization Assignment



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Module 6: Write Narrative Summary with Generative AI – Is a Value Add Use Case
What is Narrative Writing?
Narrative Writing with Generative AI - The Benefits?
Narrative Writing with Generative AI - Lab
Conclusion and a Gartner Report - Narrative Writing using Generative AI
Establish Yourself as a Thought Leader - Publish a White Paper

Module 7: Data Analysis in PV Operations: A Transformation with Generative AI
Data Analysis - The Significance
Source and Types of Data in Pharmacovigilance Operations
Pharmacovigilance Operational Data Analysis - Theory
Operational Data Analysis with Generative AI - Lab
Visualisation of Product Data with ChatGPT
Demonstration of Data Visualisation with Generative AI
Can you Transform Drug Safety Operations in your Organization

Module 8: Language Translation: The Possibilities and Limitations
Language Translation in Pharmacovigilance - Theory
Is Machine Translation a New Thing?
Current Landscape of Machine Translation
Language Translation using ChatGPT and Google Gemini - Lab
Language Translation - Evaluation Approaches
Language Translation using Generative AI - The Conclusion
Selection of Generative AI Based Translation System

Module 9: Build a Custom GPT
Build a Custom GPT (Theory)
Build a Custom GPT (Lab)



Module 10: Drug Safety Documentation with Generative AI
Make Right Decision with Generative AI : Build a Solid Project Charter
Practice Test - Compare Project Charter creating using ChatGPT and Co-Pilot
Develop Project Charter Interactively with ChatGPT
Flow Diagrams With Generative AI: Let's Test the Reality
GDP Based Document Review: Produce Compliant Documentation

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Module 11: Implement Generative AI Realtime: Approach, Issues and Resolution
Integrating Generative AI into Drug Safety Systems Workflow
ChatGPT with Custom Data
Issues with Generative AI - Hallucination
Consistency Vs Creativity - What is Important in Pharmacovigilance
Prompt Engineering for Pharmacovigilance Professionals
Content Grounding - Feed your data to Generative AI

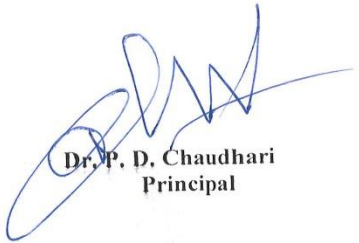
Module 12: Remain Compliment: Global AI Regulations for Generative AI Solutions
Section Introduction by Instructor
Impact of New EU Law for Generative AI Applications
FDA's Expectations on Implementing AI/ML Systems
How to Implement the Regulations in Generative AI Solutions

Module 13: AI Horizons: Recent Trends and Cutting-Edge Research
What is Latest - GPT 4o model
What is Latest - Open AI SORA Text to Video Model
Generative AI Products - Microsoft Copilot
Generative AI Products - Google Gemini Your Research Area

Module 14: The AI Advantages: Wrapping up Your Learning Journey


Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal

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Summary of Generative AI in Pharmacovigilance



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2023-24

Name of Course: Generative AI in Pharmacovigilance

Date: 21/11/23 - 30/11/23

Course Code: NA

Course Duration: 40 hrs

Summary Report

Type of Program	Certificate Course on Generative AI in Pharmacovigilance
Period	21 st November 2023 – 30 th November 2023 (40 hrs)
Brief Report	<p>A certificate course in Generative AI in Pharmacovigilance was conducted at the institute in Collaboration with Elite institute of Pharma skills, Pune. The course was held between 21st November 2023 – 30th November 2023 (40 hrs). This course provides a comprehensive overview of Generative AI and its transformative role in pharmacovigilance. It begins with foundational knowledge, including the evolution, technology, and capabilities of Generative AI, with insights into its application by pharmaceutical companies. Learners explore how to select and implement Generative AI products tailored to business and enterprise needs. Key skills in prompt engineering are covered, introducing techniques like zero-shot and chain-of-thought prompting. The course also addresses language translation, custom GPT development, and drug safety documentation. Advanced topics include real-time integration of Generative AI into workflows, handling challenges like hallucination, and ensuring compliance with global AI regulations (e.g., EU laws, FDA expectations). Cutting-edge developments, such as GPT-4o and SORA models, are highlighted. 55 students at the institute enrolled for this course. The chief course conductors were Elite institute of Pharma skills.</p> <p>Overall, Generative AI in Pharmacovigilance Course provided participants with focus on applying these tools to enhance drug safety operations and remaining at the forefront of AI innovations in pharmacovigilance. This course explores the transformative role of Generative AI in pharmacovigilance, covering its evolution, applications, and integration into drug safety workflows. The course was Coordinated by Dr. A.R. Kumbhar Assistant Professor Department of PharmD and well supported by the administrative and non-teaching staff.</p>
POs attained	PO1 –PO11


Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal



Attendance of Generative AI in Pharmacovigilance



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2022-23

Name of Course: Generative AI in Pharmacovigilance
Course Code: NA

Date: 21/11/2023-30/11/2023
Course Duration: 40 hrs

Attendance

No	Name of Students	21/11/23	22/11/23	23/11/23	24/11/23	25/11/23	28/11/23	29/11/23	30/11/23
1	AANDHALKAR PRATIKSHA DHANANJAY	P	P	P	P	P	A	P	A
2	ALSUNDKAR ATHARV SHRIKANT	A	P	P	P	P	P	P	P
3	GURAV VIGHNESH SHAILENDRA	P	P	A	P	P	A	P	P
4	HANDERUSHIKESH KAMALAKAR	P	A	P	P	P	P	P	P
5	SUDKEVEDANTI RAJESH	A	P	P	P	P	P	P	P
6	TAMBOLI KHATUJA KONDAJI	P	P	P	A	P	P	A	P
7	JAGTAP VAIBHAV ANNASAHEB	A	P	P	P	A	P	P	P
8	JAMADAR YASHPAL MANSING	A	A	P	P	P	P	P	P
9	JANE ACHAL SUDHIR	P	P	A	P	P	P	P	A
10	BOBADE DURGA MANOJ	P	A	P	P	P	P	P	P
11	BODKHE SHRINATH BALAJI	P	P	P	A	P	P	P	P
12	JAGTAP BHARGAV BAPU	P	P	P	P	A	P	P	P
13	JAGTAP SAYALI SUNIL	A	P	A	P	P	P	P	P
14	JAMADADE DHANASHRI SANTOSH	P	P	A	P	P	P	P	P
15	JOSHI ATHARVA PRAFUL	P	P	P	P	P	P	A	A
16	KAMBLE ANUSHKA ANIL	P	P	A	A	P	P	P	P
17	DHERE SWAMINI SANTOSH	A	P	P	A	P	P	P	P
18	DOSHI SOHAM SHEKHAR	P	P	P	P	P	P	A	P
19	ATTARDE HITESH YASHWANT	P	P	P	A	P	P	P	P
20	AUTADE PRADNYA KALLYAN	P	P	P	P	A	A	P	P
21	BABHALKAR ADITYA LAXMAN	P	P	A	P	P	P	A	P
22	BAGADE SNEHAL SANJAY	P	P	P	P	P	P	A	A
23	BHAWARE PRIYA REKYA	A	P	P	A	P	P	P	P
24	BENKE SAMIKSHA CHANDRASHEKHAR	P	P	A	P	P	P	P	A
25	SURYA WANSHI MONIKA LAXMANRAO	A	A	P	P	P	P	P	P



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Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Students	21/11/23	22/11/23	23/11/23	24/11/23	25/11/23	28/11/23	29/11/23	30/11/23
26	ULMULE ANIKET SHIVAJI	P	P	A	P	P	P	A	P
27	WAGHMARE SRUSHTI SURESH	A	P	P	P	A	P	P	P
28	SHINDE GAUREE SANJAY	A	A	P	P	P	P	P	P
29	WAGHMARE DARSHANA DEVIDAS	P	P	A	P	P	A	P	P
30	WARADE SMITA MADHAV	P	A	P	P	P	P	A	P
31	DAPHALE NAMRATA JAYWANT	P	P	P	A	P	P	P	A
32	GAMBHIRE RAHUL RAMDAS	A	P	P	P	P	P	P	A
33	MORE ABHIJEET PRABHAKAR	P	A	P	P	A	P	P	P
34	SHAIKH FIZA VAHED	P	P	A	P	A	P	P	P
35	VERNEKAR PURVA VIGHNESHVAR	P	P	P	A	P	P	P	P
36	BARDE NEHA AMOL	P	P	A	P	P	P	P	P
37	BIRADAR ALFIYA MAHIBUB	P	A	P	P	A	P	P	P
38	GHOTEKAR KALYANI SHANTARAM	A	P	P	P	P	P	P	P
39	HALNE KRISHNA GANGADHAR	P	P	A	P	P	P	P	P
40	JADHAV SNEHA SATISH	P	A	P	P	A	P	P	P
41	BAKALE SAYALI SHIVRAJ	P	P	P	A	P	P	P	A
42	BENDGA TUSHAR SANTYA	P	A	P	P	A	P	P	P
43	BHANGE SHARDUL SANTOSHRAO	A	P	A	P	P	P	P	P
44	DESHMUKH RITESH SANTOSHRAO	A	P	P	P	P	A	P	P
45	DONGARE AVANI RAVINDRA	P	P	A	P	A	P	P	P
46	GITE MANASVI SHARAD	P	A	P	P	P	A	P	P
47	CHAVAN VAISHNAVI SANTOSH	P	P	P	P	A	P	P	A
48	CHEKE VAISHNAVI VITTHAL	P	P	P	P	P	P	P	A
49	NAGARE SHWETA SHIRISH	A	P	P	P	P	P	P	P
50	PAGADALA LAASYARATNA DURGAPRASAD	P	A	P	P	P	P	P	P





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 M.Pharm., Ph.D.
 Principal

Prof. Dr. Gajanan R. Ekbote
 M.S., M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune

Sr. No	Name of Students	21/11/23	22/11/23	23/11/23	24/11/23	25/11/23	28/11/23	29/11/23	30/11/22
51	SANA PNIKITA BABASAHEB	P	P	P	P	P	P	A	P
	SAVALI KIRTI SUBHASH	A	P	P	P	P	P	P	P
	PANCHABHAI PUSHKAR	P	P	A	P	P	P	A	P
53	KISHOR								
54	PATIL SWARNIL VIJAYKUMAR	P	P	P	A	A	P	P	P
55	SAYYED AJMAT SAMEER	P	A	P	P	P	P	P	P

Dr. A. R. Kumbhar
 Course Co-ordinator

Dr. P. D. Chaudhari
 Principal





Assessment of Generative AI in Pharmacovigilance



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Principal

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M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: Generative AI in Pharmacovigilance
Course Code: NA

Date: 21/11/2023-30/11/2023
Course Duration: 40 hrs

Assessment

Sr. No	Name of Student	Interview 20 Marks
1	AANDHALKAR PRATIKSHA DHANANJAY	19
2	ALSUNDKAR ATHARV SHRIKANT	17
3	GURAV VIGHNESH SHAILENDRA	19
4	HANDE RUSHIKESH KAMALAKAR	18
5	SUDKE VEDANTI RAJESH	15
6	TAMBOLI KHATIJA KONDAJI	18
7	JAGTAP VAIBHAV ANNASAHEB	19
8	JAMADAR YASHPAL MANSING	19
9	JANE ACHAL SUDHIR	15
10	BOBADE DURGA MANOJ	18
11	BODKHE SHRINATH BALAJI	15
12	JAGTAP BHARGAV BAPU	16
13	JAGTAP SAYALI SUNIL	19
14	JAMADADE DHANASHRI SANTOSH	15
15	JOSHI ATHARVA PRAFUL	17
16	KAMBLE ANUSHKA ANIL	19
17	DHERE SWAMINI SANTOSH	19
18	DOSHI SOHAM SHEKHAR	19
19	ATTARDE HITESH YASHWANT	15
20	AUTADE PRADNYA KALLYAN	17
21	BABHALKAR ADITYA LAXMAN	18
22	BAGADE SNEHAL SANJAY	17
23	BHAWARE PRIYA REKYA	15
24	BENKE SAMIKSHA CHANDRASHEKHAR	15
25	SURYAWANSHI MONIKA LAXMANRAO	17
26	ULMULE ANIKET SHIVAJI	19
27	WAGHMARE SRUSHTI SURESH	15
28	SHINDE GAUREE SANJAY	19
29	WAGHMODE DARSHANA DEVIDAS	18
30	WARADE SMITA MADHAV	17



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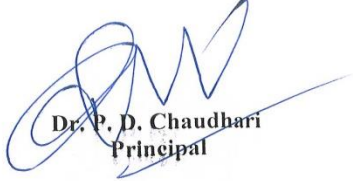
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M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S, M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Interview 20 Marks
31	DAPHALE NAMRATA JAYWANT	15
32	GAMBHIRE RAHUL RAMDAS	17
33	MORE ABHIJEET PRABHAKAR	19
34	SHAIKH FIZA VAHED	15
35	VERNEKAR PURVA VIGHNESHVAR	19
36	BARDE NEHA AMOL	18
37	BIRADAR ALFIYA MAHIBUB	17
38	GHOTEKAR KALYANI SHANTARAM	15
39	HALNE KRISHNA GANGADHAR	17
40	JADHAV SNEHA SATISH	19
41	BAKALE SAYALI SHIVRAJ	18
42	BENDGA TUSHAR SANTYA	15
43	BHANGE SHARDUL SANTOSHRAO	19
44	DESHMUKH RITESH SANTOSHRAO	17
45	DONGARE AVANI RAVINDRA	19
46	GITE MANASVI SHARAD	17
47	CHAVAN VAISHNAVI SANTOSH	19
48	CHEKE VAISHNAVI VITTHAL	19
49	NAGARE SHWETA SHIRISH	18
50	PAGADALA LAASYARATNA DURGAPRASAD	15
51	SANAP NIKITA BABASAHEB	19
52	SAVALI KIRTI SUBHASH	17
53	PANCHABHAI PUSHKAR KISHOR	19
54	PATIL SWAPNIL VIJAYKUMAR	17
55	SAYYED AJMAT SAMEER	19


Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal



Certificate of Generative AI in Pharmacovigilance







Brochure of Communication Skills for Pharmacists



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MODERN COLLEGE OF PHARMACY, NIGDI

IN COLLABORATION WITH

RACE ACADEMY

Certificate Course On
COMMUNICATION SKILLS FOR
PHARMACIST

05/12/2023 - 13/12/2023



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List of students of Communication Skills for Pharmacists

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E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.inProf. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
PrincipalProf. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: Communication Skills for Pharmacists
Course Code: NADate: 05/12/2023-13/12/2023
Course Duration: 35 hrs

List of Students

Sr. No	Name of Student	Sign
1	WANKHEDE ARADHYA ANKUSH	Aradhyawankhede
2	WARTALE VAISHNAVI DATTA	Varshnavi
3	JADAR TRUPTI ASHOK	Trupti Jadhav
4	JADHAV ANUSHKA	Anushka
5	JADHAV MANIK SOMDEV	Manik
6	JADHAV PRACHI EKNATH	Prachi
7	SHINDE DNYANESHWAR JAGANNATH	Dnyaneshwar Shinde
8	SHINDE TEJAS ZUMBARRAO	Tejas Shinde
9	TAUR DIPAK DADASAHEB	Dipak
10	WAGHAMARE DHANASHRI BHAGVAN	Dhanashri
11	WATPALWAD SACHIN SHANKAR	Sachin
12	CHAUKATE PRERANA ADINATH	Prerana
13	CHAVAN ARATI SANTOSH	Arati Chavan
14	CHORGHADE VIJAY NAMDEV	Vijay
15	VARAT TUSHAR RAJABHAU	Tushar Varat
16	WAKUDE SHRIKRUSHNA SANTOSH	Krushna Wakude
17	WANKHADE YASH PRAMOD	Yash
18	WANKHEDE KHUSHI KAILAS	Khushi
19	SAMBARE DATTATRAY SHRIKRUSHNA	Dattatray
20	SAPKAL TUSHAR SHRIMANT	Tushar
21	SAWANT GANESH RAGHUNATH	Ganesh Sawant
22	SAWANT OMKAR RAVINDRA	Omkar
23	BHOI HEMANT VIJAY	Hemant
24	BORA SANKET RAJENDRA	Sanket
25	JADHAV KISHORI NANDKUMAR	Kishori
26	MORKHADE SHIVANI	Shivani
27	SALAME VEDIKA NARENDRASINGH	Vedika Salame
28	SALUNKE NIKITA SATYAWAN	Nikita
29	SALUNKHE RUPALI BHAGVAN	Rupali Salunkhe
30	SARGAR LALIT RAJARAM	Lalit





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M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Sign
31	BORUDE SNEHAL TUKARAM	
32	DEULKAR ANUSHRI ASHOK	
33	INGLE SAMRUDDHI GANESH	
34	JAGDALE GAYATRI BHAGWAN	
35	BABHULKAR RASIKA PRAKASH	
36	DISHWARE HARSHALI DURGADAS	
37	GADHAVE TRUPTI BHAUSAHEB	
38	SAWANT POOJA NANA	
39	YALSANGI ARPITA VITTHAL	
40	SABALE SONAL DATTATRAYA	
41	SALGAR POOJA BHARAT	
42	SONAWANESAKSHI RAJENDRA	
43	SURWASE ONKAR VISHNU	
44	SHEGOKAR NEHA PRABHAKAR	
45	SHINDE DAMINI PRADEEP	
46	SONAWANE RUTUJA SATISH	
47	WAGHMARE SHIVSHANKAR RAMRAO	
48	LATEY SAKSHI REMESH	
49	MADANE TANVI SUNIL	
50	MAINKAR KARISHMA VIJAY	
51	CHINDARKAR SHRAVANI BALKRISHNA	
52	DARVESH DARSHAN SHIVAJI	
53	DHONGADE SHRUTIKA YESHWANT	
54	AUNDHAKAR KEEYYA NITIN	



Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal





Curriculum of Communication Skills for Pharmacists

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<p>Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal</p>		<p>Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune</p>
<p>2023-24</p>		
<p>Name of Course: Communication Skills for Pharmacists Course Code: NA</p>	<p>Date: 05/12/2023-13/12/2023 Course Duration: 35 hrs</p>	
<p>Syllabus</p>		
<p>Module 1: Interpersonal Communication for Pharmacists Study the importance of communication, Skills for professionalism in communication, Interpersonal relationship theories, Collaboration in healthcare, Interprofessional communication, How to build trust in relationships, Basics of pharmacist-patient relationships How to be an empathic communicator.</p>		
<p>Module 2: Influences on Interpersonal Communication Examine the importance of ethics and cultural competency in communication, The role culture plays in nonverbal communication How communication is impacted by influences on emotional expression.</p>		
<p>Module 3: Types & Components of Communication for Pharmacists Review types of communication, Theories and techniques of persuasive communication, The concept of immediacy in communication, The five stages of change model Strategies for gaining compliance and managing resistance.</p>		







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M.S, M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Module 4: Conflict Management for Pharmacists
Examine styles and strategies of conflict management,
Behaviour associated with assertive communication skills,
Verbal aggressiveness vs. Argumentativeness
Ways that different cultures respond to conflict.

Module 5: Written Communication for Pharmacists
Learn about written communication in business,
How to determine the purpose of a written message,
Ways to adapt the message by analyzing the audience,
How to interpret the voice and tone of the message,
Ways to proofread the message
The importance of using non discriminatory language in business communication.




Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal



Summary of Communication Skills for Pharmacists

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Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal	Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24	
Name of Course: Communication Skills for Pharmacists Date: 05/12/2023 - 13/12/2023 Course Code: NA	
Course Duration: 35 hrs	
Summary Report	
Type of Program	Certificate Course on Communication Skills for Pharmacists
Period	5 th December 2023 – 13 th December 2023 (35 hrs)
Brief Report	<p>A certificate course in Communication Skills for Pharmacists was conducted at the institute in Collaboration with Elite institute of Pharma skills, Pune. The course was held between 5th December 2023 – 13th December 2023 (35 hrs). The course covered varied topics like in Module I Focuses on the importance of communication, professionalism, interpersonal relationship theories, and collaboration in healthcare. Module II Explores ethics and cultural competency, the role of culture in nonverbal communication, and how emotional expression influences communication. Module III and IV Covers types of communication, persuasive techniques Examines conflict management styles, assertive communication, differences between verbal aggressiveness and argumentativeness, and cultural responses to conflict Module V Highlights effective business writing, audience analysis, voice and tone interpretation, proofreading techniques, and the use of non-discriminatory language. 54 students at the institute enrolled for this course. The chief course conductors were Elite institute of Pharma skills.</p> <p>Overall, the Communication Skills for Pharmacists course equips pharmacists with essential communication skills to excel in patient care, collaborate effectively, manage conflicts, and deliver professional written communication. The course was Coordinated by Dr. A.R. Kumbhar Assistant Professor Department of PharmD and well supported by the administrative and non-teaching staff.</p>
POs attained	PO1 –PO11

Dr. A. R. Kumbhar
Course Co-ordinator

Dr. P. D. Chaudhari
Principal





Attendance of Communication Skills for Pharmacists

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Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: Communication Skills for Pharmacists
Course Code: NADate: 05/12/2023-13/12/2023
Course Duration: 35 hrs

Attendance

Sr. No	Name of Students	05/12/23	06/12/23	07/12/23	08/12/23	09/12/23	11/12/23	12/12/23	13/12/23
1	WAN KHEDE ARADHYA ANKUSH	P	P	P	A	P	P	P	P
2	WARTALE VAISHNAVI DATTA	P	A	P	P	P	P	P	P
3	JADAR TRUPTI ASHOK	P	P	P	P	A	P	P	P
4	JADHAV ANUSHKA	P	P	P	P	P	P	A	P
5	JADHAV MANIK SOMDEV	P	P	A	P	P	P	P	P
6	JADHAV PRACHI EKNATH	A	P	P	P	P	P	P	P
7	SHINDE DNYANESHWAR JAGANNATH	P	A	P	P	A	P	P	A
8	SHINDE TEJAS ZUMBARRAO	P	P	P	P	P	A	P	P
9	TAUR DIPAK DADASAHEB	P	P	P	A	P	P	P	P
10	WAGHAMARE DHANASHRI BHAGVAN	P	P	A	P	P	P	P	P
11	WATPALWAD SACHIN SHANKAR	P	A	P	P	A	P	P	P
12	CHAUKATE PRERANA ADINATH	P	P	P	P	P	A	P	P
13	CHAVAN ARATI SANTOSH	P	P	P	P	A	P	P	A
14	CHORGHARE VIJAY NAMDEV	P	P	P	P	P	P	A	P
15	VARAT TUSHAR RAJABHAU	P	P	A	P	P	P	P	P
16	WAKUDE SHRIKRUSHNA SANTOSH	P	P	P	P	P	P	P	P
17	WANKHADE YASH PRAMOD	P	A	P	P	P	P	P	P
18	WANKHEDE KHUSHI KAILAS	P	P	P	A	P	P	P	P
19	SAMBARE DATTATRAY SHRIKRUSHNA	A	P	P	P	P	P	P	A
20	SAPKAL TUSHAR SHRIMANT	P	P	P	P	P	A	P	P
21	SAWANT GANESH RAGHUNATH	A	P	P	P	P	P	P	P
22	SAWANT OMKAR RAVINDRA	P	P	P	P	P	P	A	P
23	BHOI HEMANT VIJAY	P	P	P	P	A	P	P	P
24	BORA SANKET RAJENDRA	P	P	P	A	P	P	P	P
25	JADHAV KISHORI NANDKUMAR	P	A	P	P	P	P	P	P
26	MORKHADE SHIVANI	A	P	P	P	P	P	P	P
27	SALAME VEDIKA NARENDRASINGH	P	P	A	P	P	P	P	P
28	SALUNKE NIKITA SATYAWAN	P	P	P	A	P	P	P	P
29	SALUNKHE RUPALI BHAGVAN	P	P	P	P	P	P	P	P
30	SARGAR LALIT RAJARAM	P	P	P	P	P	P	P	P



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Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Students	05/12/23	06/12/23	07/12/23	08/12/23	09/12/23	11/12/23	12/12/23	13/12/23
31	BORUDE SNEHAL TUKARAM	P	P	A	P	P	P	P	P
32	DEULKAR ANUSHRI ASHOK	P	A	P	A	P	P	P	P
33	INGLE SAMRUDDHI GANESH	P	P	P	A	P	P	P	P
34	JAGDALE GAYATRI BHAGWAN	P	P	P	P	P	P	P	P
35	BABHULKAR RASIKA PRAKASH	A	P	P	P	A	P	P	P
36	DISHWARE HARSHALI DURGADAS	P	P	P	P	P	P	P	P
37	GADHAVE TRUPTI BHAUSAHEB	P	P	P	P	P	P	A	P
38	SAWANT POOJA NANA	P	P	P	P	P	P	P	P
39	YALSANGI ARPITA VITTHAL	P	A	P	P	P	P	P	P
40	SABALE SONAL DATTATRAYA	A	P	P	P	P	P	P	P
41	SALGAR POOJA BHARAT	P	P	P	P	P	P	P	P
42	SONAWANESAKSHI RAJENDRA	P	P	P	A	P	P	P	P
43	SURWASE ONKAR VISHNU	P	P	P	P	P	P	P	P
44	SHEGOKAR NEHA PRABHAKAR	P	P	P	P	P	P	P	P
45	SHINDE DAMINI PRADEEP	P	P	P	P	P	P	P	P
46	SONAWANE RUTUJA SATISH	P	P	P	P	P	P	P	P
47	WAGHMARE SHIVSHANKAR RAMRAO	P	P	P	P	P	P	P	P
48	LATEY SAKSHI REMESH	P	P	P	P	A	P	P	P
49	MADANE TANVI SUNIL	P	P	P	P	P	P	P	P
50	MAINKAR KARISHMA VIJAY	P	A	P	P	P	P	P	P
51	CHINDARKAR SHRAVANI BALKRISHNA	P	P	P	A	P	P	P	P
52	DARVESH DARSHAN SHIVAJI	P	P	P	P	P	P	A	P
53	DHONGADE SHRUTIKA YESHWANT	P	P	P	P	P	P	P	P
54	AUNDHAKAR KEEYYA NITIN	P	P	P	P	P	P	P	P

Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal



Assessment of Communication Skills for Pharmacists

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 Principal

Prof. Dr. Gajanan R. Ekbote
 M.S., M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune

2023-24

Name of Course: Communication Skills for Pharmacists
 Course Code: NA

Date: 05/12/2023-13/12/2023
 Course Duration: 35 hrs

Assessment

Sr. No	Name of Student	Discussion 15 Marks	Mock Interview 15 Marks	Total 30 Marks
1	WANKHEDE ARADHYA ANKUSH	13	13	26
2	WARTALE VAISHNAVI DATTA	12	10	22
3	JADAR TRUPTI ASHOK	10	12	22
4	JADHAV ANUSHKA	13	08	21
5	JADHAV MANIK SOMDEV	13	09	22
6	JADHAV PRACHI EKNATH	10	10	20
7	SHINDE DNYANESHWAR JAGANNATH	12	09	21
8	SHINDE TEJAS ZUMBARAO	10	12	22
9	TAUR DIPAK DADASAHEB	13	08	21
10	WAGHAMARE DHANASHRI BHAGVAN	09	09	18
11	WATPALWAD SACHIN SHANKAR	12	10	22
12	CHAUKATE PRERANA ADINATH	08	09	17
13	CHAVAN ARATI SANTOSH	10	10	20
14	CHORGHAD VIJAY NAMDEV	08	09	17
15	VARAT TUSHAR RAJABHAU	10	10	20
16	WAKUDE SHRIKRUSHNA SANTOSH	13	13	26
17	WANKHADE YASH PRAMOD	12	09	21
18	WANKHEDE KHUSHI KAILAS	10	12	22
19	SAMBARE DATTATRAY SHRIKRUSHNA	13	08	21
20	SAPKAL TUSHAR SHRIMANT	13	09	22
21	SAWANT GANESH RAGHUNATH	10	10	20
22	SAWANT OMKAR RAVINDRA	10	12	22
23	BHOI HEMANT VIJAY	08	10	18
24	BORA SANKET RAJENDRA	09	11	20
25	JADHAV KISHORI NANDKUMAR	13	13	26
26	MORKHADE SHIVANI	12	10	22
27	SALAME VEDIKA NARENDRASINGH	08	10	18
28	SALUNKE NIKITA SATYAWAN	09	11	20
29	SALUNKHE RUPALI BHAGVAN	13	13	26
30	SARGAR LALIT RAJARAM	11	08	19



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M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Discussion 10 Marks	Interview 20 Marks	Total 30 Marks
31	BORUDE SNEHAL TUKARAM	08	10	18
32	DEULKAR ANUSHRI ASHOK	09	11	20
33	INGLE SAMRUDDHI GANESH	12	09	21
34	JAGDALE GAYATRI BHAGWAN	13	13	26
35	BABHULKAR RASIKA PRAKASH	11	08	19
36	DISHWARE HARSHALI DURGADAS	13	13	26
37	GADHAVE TRUPTI BHAUSAHEB	12	10	22
38	SAWANT POOJA NANA	08	10	18
39	YALSANGI ARPITA VITTHAL	09	11	20
40	SABALE SONAL DATTATRAYA	12	09	21
41	SALGAR POOJA BHARAT	10	12	22
42	SONAWANESAKSHI RAJENDRA	13	08	21
43	SURWASE ONKAR VISHNU	13	09	22
44	SHEGOKAR NEHA PRABHAKAR	10	10	20
45	SHINDE DAMINI PRADEEP	10	12	22
46	SONAWANE RUTUJA SATISH	13	13	26
47	WAGHMARE SHIVSHANKAR RAMRAO	12	10	22
48	LATEY SAKSHI REMESH	08	10	18
49	MADANE TANVI SUNIL	09	11	20
50	MAINKAR KARISHMA VIJAY	12	09	21
51	CHINDARKAR SHRAVANI BALKRISHNA	10	12	22
52	DARVESH DARSHAN SHIVAJI	13	08	21
53	DHONGADE SHRUTIKA YESHWANT	13	08	21
54	AUNDHAKAR KEEYYA NITIN	13	09	22

Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal



Certificate of Communication Skills for Pharmacists







Brochure of Medical Writing with Artificial Intelligence



PES'S MODERN COLLEGE OF PHARMACY
YAMUNANAGAR, NIGDI- 44



MODERN COLLEGE OF PHARMACY, NIGDI
IN COLLABORATION WITH
RACE ACADEMY

Certificate Course On
MEDICAL WRITING WITH
ARTIFICIAL INTELLIGENCE
19/12/2023 - 28/12/2023



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List of student of Medical Writing with Artificial Intelligence



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M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: Medical Writing with Artificial Intelligence Date: 19/12/2023-28/12/2023

Course Code: NA

Course Duration: 42 hrs

List of Students

Sr. No	Name of Student	Sign
1	RATHOD KAJAL JITENDRA	Kajal
2	RAUT ATHARVA NANDKISHOR	Atharva
3	ROHIDA YASHIKA	Yashika
4	SABNE KUNAL SURESH	Kunal
5	SHARMA HARISH DWARKAPRASAD	Harish
6	SHEIKH ARSHIYA NAVED	Arshiya
7	BADHALE UNMESA CHANDRAKANT	Unmesha
8	BAGALKOT PRITI MOHAN	Priti
9	BARGE KUNAL GAJANAN	Kunal
10	BARHATE JAY JITENDRA	Jay
11	BHAGWAT DNYANOBA BOCHARE	Dnyanoba
12	BHALE GEETANJALI NARAYAN	Geetanjali
13	BHANDARE AKANKSHA ABHIJIT	Akanksha
14	BHOSALE SANKET DATTATRAY	Sanket
15	BHUMKAR PANKAJ VIJAYKUMAR	Pankaj
16	BORASTE ANUSHKA DILIP	Anushka
17	CHAUDHARI VIDYA DILIP	Vidya
18	CHAVAN CHINMAYEE YUVRAJ	Chavan
19	CHAVAN PRATIK ARUN	Pratik
20	KAMBLE SIDDHI SIDDHARTH	Siddhi
21	KAMTHE HARSHDA BHOLESANKAR	Harshda
22	KARANDE GAURI PRADIP	Gauri
23	PISAL PRANAV SHASHIKANT	Pranav
24	PITALE GAURANG RAVINDRA	Gaurang
25	RATHOD PRIYANKA RAMESH	Priyanka
26	RAUT PRAJAKTA NAGNATH	Prajakta
27	SABLE ASHISH DAGADU	Ashish
28	POLE RUTUJA DASHRATH	Rutuja
29	POTDAR CHINMAYEE RAHUL	Chinmayee
30	RANE MANISH GAJANAN	Manish



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Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Sign
31	CHENDKE VAISHNAVEE ANAND	<i>Chendke</i>
32	CHOUGULE RAJWARDHAN DIGAMBAR	<i>Raj</i>
33	DAHIPHALE ADITYA ADINATH	<i>Aditya</i>
34	DALAVI SNEHA SANTOSH	<i>Sneha</i>
35	DALVI SAKSHI AMAR	<i>Sakshi</i>
36	DATE SNEHAL KHANDU	<i>Snehal</i>
37	DATIR SARTHAK DEEPAK	<i>Sarthak</i>
38	LOKHANDE VAISHNAVI SUNIL	<i>Vaishnavi</i>
39	MAGADE SRUSHTI DINESH	<i>Srushti</i>
40	MALI CHAITANYA MADHUKAR	<i>Chaitanya</i>
41	MASRAM ISHWARI SHALIKRAM	<i>Ishwari</i>
42	MOHITE SHREYAS RAGHUNATH	<i>Shreyas</i>
43	MORE VAISHNAVI DADARAO	<i>Vaishnavi</i>
44	NAGLE ADITI SADANAND	<i>Aditi</i>
45	NAGRE SAYALI MADHUKAR	<i>Sayali</i>
46	RAJGOR JAY DASHARATH	<i>Jay</i>
47	RAJURWAR ANJALI SANTOSH	<i>Anjali</i>
48	RUKARE SNEHA BASWRAJ	<i>Sneha</i>
49	SAINI AJIT VISHWANATH	<i>Ajit</i>
50	SARODE VISHAL SHRIPATI	<i>Vishal</i>
51	LOKHANDE KHANDU ASHOK	<i>Khandu</i>
52	MAHAJAN MOHAK	<i>Mohak</i>




Dr. A. R. Kumbhar
Dr. A. R. Kumbhar
Course Co-ordinator





Dr. P. D. Chaudhari
Dr. P. D. Chaudhari
Principal



Curriculum of Medical Writing with Artificial Intelligence

 <div style="text-align: center;">Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by 'NAAC' 'Best College Award' by Savitribai Phule Pune University</div>	
<div style="background-color: #cccccc; padding: 5px; border: 1px solid black;">Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi, Directorate of Technical Education, Mumbai (MS), Permanently affiliated to Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)</div> <p>Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314 E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in</p>	
Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal	Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
<hr/> 2023-24 <hr/>	
<div style="display: flex; justify-content: space-between;"><div>Name of Course: Medical Writing with Artificial Intelligence</div><div>Date: 19/12/2023-28/12/2023</div></div> <div style="display: flex; justify-content: space-between;"><div>Course Code: NA</div><div>Course Duration: 42 hrs</div></div>	
Syllabus	
Module 1: Introduction Medical Writing What is medical writing? How much can I make? What does the day-to-day schedule of a writer look like? What types of work are available? Where do medical writers work?	
Module 2: Role of Medical Writer, Process Workflow and Training Role of a Medical writer Medical writing - Process workflow How to write a Scientific document Training and resources for Medical writers Medical writing in Social media Medical writing in Freelance market	
Module 3: Finding the work Maximizing the use of job boards Maximizing your current clinical role Finding writing work in the life sciences fields Using LinkedIn Using company career and contributor pages AI Course SNEAK PEEK: Using AI Chat Writers to Find Work Master the Job Search and Land Your Dream Job SNEAK PEEK: Finding Jobs With Professional Societies Finding Jobs With Professional Societies - for non-US Medical Writers	
Module 4: Examples of Medical writing documents PBRER - Periodic Benefit-Risk Evaluation Report CSR - Clinical Study Report, Clinical trial Protocol IB - Investigator's Brochure	
	





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Module 5: Getting the Work
Pitching to clients
The Open Notebook
Building and presenting your portfolio
How do I get experience if I don't have experience?

Module 6: Using the Tool
Google Docs, Google Slides and Microsoft Power point
Finding and Using Images

Module 5: Writing the work
Working with editors
Writing for the web
Web Writing Practice Assignment
Search Engine Optimization (SEO)
Writing CE/CME needs assessments
Creating CE presentations
Writing CE monographs
Medical, Legal, and Regulatory Review Annotations
Medical editing
Finishing References
What about AI Writers? Write web articles with Chat Writers
AI Writing Demonstration and Webinar

Module 6: The Business of writing
Legal considerations
Taxes and financial considerations



Dr. A. R. Kumbhar
Course Co-ordinator




Dr. R. D. Chaudhari
Principal



Summary of Medical Writing with Artificial Intelligence



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2023-24

Name of Course: Medical Writing with Artificial Intelligence
 Date: 19/12/23 - 28/12/23
 Course Code: NA

Course Duration: 42 hrs

Summary Report

Type of Program	Certificate Course on Medical Writing with Artificial Intelligence
Period	19 th December 2023 – 28 th December 2023 (42 hrs)
Brief Report	<p>A certificate course in Medical Writing with Artificial Intelligence was conducted at the institute in Collaboration with Elite institute of Pharma skills, Pune. The course was held between 19th December 2023 – 28th December 2023 (42 hrs). This course introduces the fundamentals of medical writing and integrates artificial intelligence tools to enhance productivity. It begins with an overview of medical writing as a career, covering roles, income potential, daily routines, and workplace opportunities. Participants learn about workflows, scientific document preparation, and leveraging social media and freelancing platforms. Learners are introduced to essential tools like Google Docs and presentation software, alongside skills in web writing, SEO, CE/CME content creation, and medical editing. The course also addresses business aspects, including legal and financial considerations. AI-powered writing demonstrations and assignments provide hands-on experience, preparing participants to excel in medical writing with cutting-edge technology. 52 students at the institute enrolled for this course. The chief course conductors were Elite institute of Pharma skills.</p> <p>Overall, Medical Writing with Artificial Intelligence Course provided participants with strategies for finding work through job boards, LinkedIn, and professional societies, with a focus on using AI-driven tools for job searching and content creation. Practical modules cover the creation of key medical documents such as PBRERs, CSRs, and IBs, along with portfolio building, pitching to clients, and gaining writing experience. The course was Coordinated by Dr. A.R. Kumbhar Assistant Professor Department of PharmD and well supported by the administrative and non-teaching staff.</p>
POs attained	PO1 –PO11


 Dr. A. R. Kumbhar
 Course Co-ordinator


 Dr. P. D. Chaudhari
 Principal





Attendance of Medical Writing with Artificial Intelligence



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P.E.Society, Pune

2022-23

Name of Course: Medical Writing with Artificial Intelligence Date: 19/12/2023-28/12/2023
Course Code: NA Course Duration: 42 hrs

Attendance

No	Name of Students	19/12/23	20/12/23	21/12/23	23/12/23	24/12/23	25/12/23	27/12/23	28/12/23
1	RATHOD KAJAL JITENDRA	P	A	P	P	P	A	P	P
2	RAUT ATHARVA NANDKISHOR	P	P	A	P	P	P	A	P
3	ROHIDA YASHIKA	P	P	P	A	P	P	P	A
4	SABNE KUNAL SURESH	P	P	P	P	A	P	A	P
5	SHARMA HARISH DWARKAPRASAD	P	A	P	P	P	A	P	P
6	SHEIKH ARSHIYA NAVED	A	P	P	P	P	P	A	P
7	BADHALE UNMESHA CHANDRAKANT	P	P	A	P	P	P	P	A
8	BAGALKOT PRITI MOHAN	P	P	P	A	P	P	P	A
	BARGE KUNAL GAJANAN	P	P	P	P	A	P	P	P
10	BARHATE JAY JITENDRA	P	P	A	P	P	P	A	P
11	BHAGWAT DNYANOBA BOCHARE	P	P	P	A	P	P	A	P
12	BHALE GEETANJALI NARAYAN	P	P	P	P	A	P	A	P
13	BHANDARE AKANKSHA ABHIJIT	A	P	P	P	P	A	P	A
14	BHOSALE SANKET DATTATRAY	P	P	P	A	P	P	P	P
15	BHUMKAR PANKAJ VIJAYKUMAR	P	P	P	P	A	P	A	P
16	BORASTE ANUSHKA DILIP	P	P	P	A	P	P	P	A
17	CHAUDHARI VIDYA DILIP	P	P	A	P	P	A	P	P



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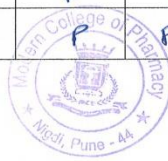
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Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Students	19/12/23	20/12/23	21/12/23	23/12/23	24/12/23	25/12/23	27/12/23	28/12/23
18	CHAVAN CHINMAYEE YUVRAJ	P	P	A	P	P	A	P	P
19	CHAVAN PRATIK ARUN	P	P	P	A	P	P	A	P
	KAMBLE SIDDHI SIDDHARTH	P	A	P	A	P	P	P	P
21	KAMTHE HARSHDA BHOLESANKAR	P	P	A	P	A	P	P	P
22	KARANDE GAURI PRADIP	A	P	P	P	P	A	P	P
23	PISAL PRANAV SHASHIKANT	P	A	P	A	P	P	P	P
24	PITALE GAURANG RAVINDRA	P	P	A	P	P	P	A	P
25	RATHOD PRIYANKA RAMESH	P	P	P	P	A	P	P	A
26	RAUT PRAJAKTA NAGNATH	P	P	P	A	A	P	P	P
27	SABLE ASHISH DAGADU	P	A	A	P	P	P	P	P
28	POLE RUTUJA DASHRATH	P	P	P	A	A	P	P	P
29	POTDAR CHINMAYEE RAHUL	P	P	P	A	P	P	P	A
30	RANE MANISH GAJANAN	A	P	P	P	P	P	A	P
31	CHENDKE VAISHNAVEE ANAND	P	A	P	A	P	P	P	P
32	CHOUGULE RAJWARDHAN DIGAMBAR	P	A	P	P	P	A	P	P
33	DAHIPHALE ADITYA ADINATH	P	P	A	P	P	P	P	A
34	DALAVI SNEHA SANTOSH	P	P	P	A	P	A	P	P
35	DALVI SAKSHI AMAR	P	P	A	P	A	P	P	P
36	DATE SNEHAL KHANDU	A	P	P	P	P	P	P	A





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37	DATIR SARTHAK DEE PAK	P	A	P	P	P	A	P	P
38	LOK HANDE VAISHNAVI SUNIL	P	P	P	P	A	P	P	P
	MAGADE SRUSHTI DIN ESH	P	P	A	P	A	P	P	P
40	MALI CHAITANYA MADHUKAR	A	P	P	P	P	A	P	P
41	MASRAM ISHWARI SHALIKRAM	P	P	P	A	P	P	P	P
42	MOHITE SHREYAS RAGHUNATH	P	A	P	P	P	A	P	P
43	MORE VAISHNAVI DADARAO	P	P	A	P	P	P	A	P
44	NAGLE ADITI SADANAND	P	P	P	P	A	P	P	P
45	NAGRE SAYALI MADHUKAR	A	P	P	A	P	P	P	P
46	RAJGOR JAY DASHARATH	P	P	A	P	P	A	P	A
47	RAJURWAR ANJALI SANTOSH	P	P	P	P	A	P	A	P
48	RUKARE SNEHA BASWRAJ	P	A	P	P	P	A	P	P
49	SAINI AJIT VISHWANATH	P	P	P	A	P	P	P	P
50	SARODE VISHAL SHRIPATI	P	P	A	P	P	A	P	P
51	LOKHANDE KHANDU ASHOK	P	P	P	A	P	P	P	P
52	MAHAJAN MOHAK	P	P	A	P	P	P	P	P

Dr. A. R. Kumbhar
Course Co-ordinator



Dr. P. D. Chaudhari
Principal



Assessment of Medical Writing with Artificial Intelligence



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P.E.Society, Pune

2023-24

Name of Course: Medical Writing with Artificial Intelligence Date: 19/12/2023-28/12/2023
Course Code: NA Course Duration: 42 hrs

Assessment

Sr. No	Name of Student	Assessment 30 Marks
1	RATHOD KAJAL JITENDRA	22
2	RAUT ATHARVA NANDKISHOR	24
3	ROHIDA YASHIKA	23
4	SABNE KUNAL SURESH	21
5	SHARMA HARISH DWARKAPRASAD	20
6	SHEIKH ARSHIYA NAVED	25
7	BADHALE UNMESHA CHANDRAKANT	24
8	BAGALKOT PRITI MOHAN	25
9	BARGE KUNAL GAJANAN	24
10	BARHATE JAY JITENDRA	24
11	BHAGWAT DNYANOBA BOCHARE	26
12	BHALE GEETANJALI NARAYAN	24
13	BHANDARE AKANKSHA ABHIJIT	25
14	BHOSALE SANKET DATTATRAY	24
15	BHUMKAR PANKAJ VIJAYKUMAR	24
16	BORASTE ANUSHKA DILIP	25
17	CHAUDHARI VIDYA DILIP	24
18	CHAVAN CHINMAYEE YUVRAJ	25
19	CHAVAN PRATIK ARUN	26
20	KAMBLE SIDDHI SIDDHARTH	25
21	KAMTHE HARSHDA BHOLESANKAR	25
22	KARANDE GAURI PRADIP	24
23	PISAL PRANAV SHASHIKANT	25
24	PITALE GAURANG RAVINDRA	24
25	RATHOD PRIYANKA RAMESH	26





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26	RAUT PRAJAKTA NAGNATH	24
27	SABLE ASHISH DAGADU	26
28	POLE RUTUJA DASHRATH	24
29	POTDAR CHINMAYEE RAHUL	25
30	RANE MANISH GAJANAN	24
31	CHENDKE VAISHNAVEE ANAND	23
32	CHOUGULE RAJWARDHAN DIGAMBAR	21
33	DAHIPHALE ADITYA ADINATH	20
34	DALAVI SNEHA SANTOSH	25
35	DALVI SAKSHI AMAR	25
36	DATE SNEHAL KHANDU	22
37	DATIR SARTHAK DEEPAK	24
38	LOKHANDE VAISHNAVI SUNIL	20
39	MAGADE SRUSHTI DINESH	25
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50	SARODE VISHAL SHRIPATI	26
51	LOKHANDE KHANDU ASHOK	24
52	MAHAJAN MOHAK	25


Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal

Page 2 of 2



Certificate of Medical Writing with Artificial Intelligence





Brochure of The Complete Healthcare Artificial Intelligence Course



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MODERN COLLEGE OF PHARMACY, NIGDI

IN COLLABORATION WITH
RACE ACADEMY

Certificate Course On
THE COMPLETE HEALTHCARE
ARTIFICIAL INTELLIGENCE COURSE

18/01/2024 - 25/01/2024



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List of student of The Complete Healthcare Artificial Intelligence Course

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P.E.Society, Pune

2023-24

Name of Course: The Complete Healthcare Artificial Intelligence Course

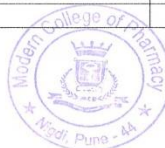
Date: 18/01/2024-25/01/2024

Course Code: NA

Course Duration: 40 hrs

List of Students

Sr. No	Name of Student	Sign
1	JAGTAP SHWETA RAJENDRA	Jagtap
2	JAMBHALE VAISHNAVI MOHAN	Vaishnavi
3	KSHIRSAGAR TUSHAR HARIBHAU	Tushar
4	KAMBLE ANURADHA KAKA	Anuradha
5	HATEKAR JYOTI DADASAHEB	Jyoti H.
6	HIREMATH NIRAJ SHARANAYYA	Niramat
7	ISHTE KIRTI DATTATRAY	Kirti
8	JADHAV PRATIKSHA VILAS	Vilas
9	SHINGADE VAISHNAVI MACHINDRA	Vaishnavi
10	SHIRKE RIYA SHIVAJI	Shirke
11	SONAWANE SHREYA TUKARAM	Shreya
12	SURVASE GANESH PANDURANG	Gurvas
13	TANDALE HARSHADA SUNIL	H. Tandale
14	PAWAR PRATIKSHA MAHADEV	Pratiksha
15	TAPSALE AARYAN ARUN	Aaryan
16	MULLA TAUFIK USMAN	Taufik
17	NAGE KALYAN BABASAHEB	Nage
18	NAMADE ATHARV AJAY	Tanmay
19	JAGDALE TANMAY BHARAT	Tanmay
20	DANGLE NEHA NAVNATH	Neha
21	DESAI ADITI ANIL	Aditi D.
22	DESHMUKH GAURI VINOD	G. Deshmukh
23	DHAMAL SHRUSTI BALASAHEB	Dhamal
24	VIBHUTE SOMESH RAMRAO	Somesh
25	WAKTE TEJAS VIJAY	Tejas
26	KUTE SAKSHI DINKAR	Sakshi Kute
27	BANERJEE SHREYASI	Shreyasi
28	CHAVAN DEEKSHA PRAKASH	Deeksha
29	DERE SHRUTI HANUMANT	Shruti Dere
30	BOTRE SHIVAI SUNIL	Bshivani





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Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Sign
31	BURUKALE VAISHNAVI SANTOSH	Burukale
32	CHAVAN SHREYAN YOGESH	Chavan
33	SOLANKE SAGAR SANDIPAN	Solanke
34	MATHE ADITYA AJAY	Mathe
35	MOKASHI SHARVARI BABURAO	Mokashi
36	MULE PRASANNA GANESH	Mule
37	NAIKADE SIDDHI DATTATRAY	Naikade
38	NALGE JANHAVI SIDDHIVINAYAK	Nalge
39	DONGARE SAKSHI LAXMAN	Dongare
40	GAVHANE SAYALI SANTOSH	Gavhane
41	JADHAV VAISHALI SUBHASH	Jadhav
42	KAMBLE SHRUTI NILESH	Kamble
43	KHAMKAR VAISHNAVI RAJENDRA	Khamkar
44	KAMBLE SAINATH PANDURANG	Kamble
45	KARALE VAISHNAVI TARUN	Karale
46	KARANDE SNEHAL RAMCHANDRA	Karande
47	KASHID PRATIKSHA PRADIP	Kashid
48	KATE VAISHNAVI SHANKAR	Kate
49	BHOSALE PAYAL RAJESH	Bhosale
50	BOBADE SHIVAM DEEPAK	Bobade
51	CHAUDHARY MANDAR MAHENDRA	Chaudhary
52	CHAVAN PRASAD ANIL	Chavan
53	CHOUDHARY KISHAN JAGDISH	Choudhary
54	CHOWKIDAR ADAVAITA MUKUNDRAO	Chowkidar
55	GOPNAR KESHAV RANJEETRAO	Gopnar
56	GORE VIKAS AJINATHI	Gore
57	GOSAVI DEEPALI SHRIKRUSHNA	Gosavi
58	GOYAKAR ATHARVA SIDDHESHVAR	Goyakar
59	JADHAV RUPESH RAMRAO	Jadhav
60	JADHAV SOHAM SANJAY	Jadhav

Dr. A. R. Kumbhar
Course Co-ordinator






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Principal

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Curriculum of The Complete Healthcare Artificial Intelligence Course

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<p>Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal</p>		<p>Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune</p>
<p>2023-24</p>		
<p>Name of Course: The Complete Healthcare Artificial Intelligence Course Date: 18/01/2024-25/01/2024 Course Code: NA</p>		
<p>Course Duration: 40 hrs</p>		
<p>Syllabus</p>		
<p>Module 1: Introduction Introduction to AI in healthcare Basic concept of machine learning Basic of supervised learning, unsupervised and reinforcement learning What is sklearn? What is pandas What is matplotlib? What is standardization</p>		
<p>Module 2: Implementation of Breast Cancer detection What is breast cancer? What is classification report? What is logistic regression What is confusion matrix what is mplot3d what is mpatches what is train test split? Implementation of breast cancer detection Part 1 Implementation of breast cancer detection Final Part</p>		
<p>Module 3: Implementation of diabetes detection What is diabetes What is artificial neural network? What is perceptron? What does pre-processing mean? How to handle missing values What is seaborn? Implementation of diabetes detection Part 1 Implementation of diabetes detection Part 2 Implementation of diabetes detection Part 3 Implementation of diabetes detection Part 4 Implementation of diabetes detection Part 5</p>		
		
<p>Page 1 of 5</p>		



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Implementation of diabetes detection Part 6
Implementation of diabetes detection final Part

Module 4: Implementation of DNA classification and Heart disease detection

Introduction to DNA sequences and classification

What is Decision Tree?

What is support vector machine?

What is Random Forest Classifier

What is Radial Basis Function

What is K-nearest Neighbors

What is AdaBoostClassifier

What is MLP Classifier?

Implementation of DNA classification Part 1&2

Implementation of DNA classification Final Part

What is Heart disease?

Implementation of Heart disease detection Part 1

Implementation of Heart Disease Final Part

Module 5: Discharge statuses detection for emergency department patients

What is ED (Emergency department) patients?

What is discharge statuses for ED patients?

What is one-hot-encoding

Discharge statuses detection for ED patients implementation Part 1

Discharge statuses detection for ED patients implementation Part 2

Discharge statuses detection for ED patients implementation Part 3

Discharge statuses detection for ED patients implementation Part 4

Discharge statuses detection for ED patients implementation Part 5

Discharge statuses detection for ED patients implementation Part 6

Discharge statuses detection for ED patients implementation Part 7

Module 6: Introduction OLD Content

AI in Healthcare

What is Neuron

What is Deep Learning

What is ANN

What is keras





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Introduction to Pandas Part 1
Introduction to Pandas Part 2
Data Visualization with Pandas
Data Preprocessing by Pandas
How to install Anaconda
Important terms in Neural Network

Module 7: Activation function OLD Content

What is activation function
What is sigmoid function
What is tanh function
What is Rectified Linear Unit function
What is Leaky ReLU function
What is The Exponential Linear Unit Function
What is The Swish function
What is The softmax function
Time to code all the activation functions

Module 8: DNA Classification Project OLD Content


Introduction to DNA classifier
Importing library and data
Showing data
Generating a DNA sequence
Splitting the dataset into training test and test set
Scoring method and results
Summary of the project

Module 9: Heart disease classification process OLD Content

Important Parameters
Objective of this project
Importing library and data
Exploratory analysis
Handling missing data in Python
Data scaling
Data visualization
Splitting training set into test set and Evaluating the model








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Module 10: Diagnosing CAD Project

Importing data and Analysing data
Fixing missing data
Splitting the dataset into training test and test set
Training Neural Network
A comparison of categorical and binary problem
Summary of the project

Module 10: Breast Cancer Detection Project OLD Content

Importing library and data and Preprocessing data
Data visualization
Understanding Machine Learning Algorithm
Training model
Make a Prediction
Summary of the project

Module 10: Predicting diabetes with multilayer Perceptrons Project OLD Content

Importing datas and libraries
Visualizing data
Handling missing values
Data standardization
Splitting the data into training, testing, and validation sets
Model building
Model compilation
Model training
Testing accuracy
Confusion matrix
ROC curve
Further improvement
Summary of the project

Module 10: Medical Treatment Project OLD Content

Problem Analysis
Importing library and data
Analysing Data
Preprocessing data
Removing missing data





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Creating training, test and validation data
Visualizing data
Building a random model
Confusion, Precision and Recall Matrix
One-hot Encoding
Response Encoding- Theory
Response Encoding- Implementation Part 1
Response Encoding- Implementation Part 2
Response Encoding- Implementation Part 3
Evaluating variation column Part 1
Evaluating variation column Part 2
Evaluating text column Part 1
Evaluating text column Part 2
Data Preparation for machine learning model
Combine all 3 feature together
Naive Bayes- Implementation Part 1
Naive Bayes- Implementation Part 2
K Nearest Neighbour Classification Implementation
Logistic Regression Implementation
Logistic Regression Implementation without balancing data Part 1
Logistic Regression Implementation without balancing data Part 2
Linear Support Vector Machines
Fixing mistakes (Please watch)
RF with Response Coding Implementation Part 1
RF with Response Coding Implementation Part 2
Random Forest Classifier Implementation
Stacking model Implementation
Maximum voting Classifier




Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal



Summary of The Complete Healthcare Artificial Intelligence Course



Progressive Education Society's
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M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: The Complete Healthcare Artificial Intelligence Course

Date: 18/01/24 - 25/01/24

Course Code: NA

Course Duration: 40 hrs

Summary Report

Type of Program	Certificate Course on The Complete Healthcare Artificial Intelligence
Period	18 th January 2024 – 25 th January 2024 (40 hrs)
Brief Report	<p>A certificate course in The Complete Healthcare Artificial Intelligence Course was conducted at the institute in Collaboration with Elite institute of Pharma skills, Pune. The course was held between 18th January 2024 – 25th January 2024 (40 hrs). This course comprehensively explores the application of AI in healthcare, starting with foundational concepts in AI, machine learning, and essential tools (e.g., sklearn, pandas, matplotlib). It progresses through practical implementations of disease detection and classification, including projects on breast cancer, diabetes, DNA sequences, heart disease, and discharge status prediction for emergency department patients. Advanced modules delve into activation functions, neural networks, and deep learning techniques, focusing on project-based learning for real-world healthcare problems. Topics such as data preprocessing, visualization, model building, and evaluation are emphasized. The course concludes with complex machine learning techniques like response encoding, ensemble models, and optimization strategies for improving predictive accuracy. 60 students at the institute enrolled for this course. The chief course conductors were Elite institute of Pharma skills.</p> <p>Overall, The Complete Healthcare Artificial Intelligence Course provided participants with a both theoretical knowledge and hands-on experience, enabling learners to develop AI models tailored to healthcare challenges. The course was Coordinated by Dr. A.R. Kumbhar Assistant Professor Department of PharmD and well supported by the administrative and non-teaching staff.</p>
POs attained	PO1 –PO11


Dr. A. R. Kumbhar
Course Co-ordinator


Dr. P. D. Chaudhari
Principal





Attendance of The Complete Healthcare Artificial Intelligence Course



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 Principal

Prof. Dr. Gajanan R. Ekbot
 M.S., M.N.A.M.S
 Chairman, Business Council
 P.E.Society, Pune

2022-23

Name of Course: The Complete Healthcare Artificial Intelligence Course

Date: 18/01/2024-25/01/2024

Course Code: NA

Course Duration: 40 hrs

Attendance

Sr. No	Name of Students	18/01/24	19/01/24	20/01/24	22/01/24	23/01/24	24/01/24	25/01/24
1	JAGTAP SHWETA RAJENDRA	P	P	A	P	P	P	P
2	JAMBHALE VAISHNAVI MOHAN	P	A	P	P	P	P	P
3	K SHIRSAGAR TUSHAR	P	P	P	A	P	P	P
4	HARIBHAU	P	P	P	P	P	P	P
5	KAMBLE ANURADHA KAKA	A	P	P	P	P	A	P
6	HATEKAR JYOTI DADASAHEB	P	P	A	P	P	P	P
7	HIREMATH NIRAJ SHARANAYYA	P	P	P	P	P	P	P
8	ISHTE KIRTI DATTATRAY	P	A	P	P	P	P	P
9	JADHAV PRATIKSHA VILAS	P	P	A	P	P	P	P
10	SHINGADE VAISHNAVI	P	P	P	P	P	P	P
11	MACHINDRA	A	P	P	P	P	P	P
12	SHIRKE RIYA SHIVAJI	P	P	A	P	P	P	P
13	SONAWANE SHREYA TUKARAM	P	P	P	P	P	P	P
14	SURVASE GANESH PANDURANG	P	A	P	P	P	P	P
15	TANDALE HARSHADA SUNIL	P	P	P	P	P	A	P
16	PAWAR PRATIKSHA MAHADEV	P	P	P	P	P	P	P
17	TAPSALE AARYAN ARUN	P	P	P	P	P	P	P
18	MULLA TAUFIK USMAN	P	P	P	P	A	P	P
19	NAGE KALYAN BABASAHEB	P	P	P	P	P	P	P
20	NAMADE ATHARV AJAY	P	P	P	P	P	P	P
21	JAGDALE TANMAY BHARAT	P	P	P	A	P	P	P
22	DANGLE NEHA NAVNATH	P	P	P	P	P	A	P
23	DESAI ADITI ANIL	P	P	P	P	P	P	A
24	DESHMUKH GAURI VINOD	P	P	P	A	P	P	P
25	DHAMAL SHRUSTI BALASAHEB	P	P	P	P	P	P	A
26	VIBHUTE SOMESH RAMRAO	A	P	P	P	P	A	P
27	WAKTE TEJAS VIJAY	P	P	P	P	A	P	A





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P.E.Society, Pune

Sr. No	Name of Students	18/01/24	19/01/24	20/01/24	22/01/24	23/01/24	24/01/24	25/01/24
26	KUTE SAKSHI DINKAR	P	P	A	A	P	P	P
27	BANERJEE SHREYASI	P	P	P	A	P	A	P
28	CHAVAN DEEKSHA PRAKASH	P	P	P	P	A	P	A
29	DERE SHRUTI HANUMANT	P	P	A	P	P	P	P
30	BOTRE SHIVAI SUNIL	P	P	P	P	P	P	P
	BURUKALE VAISHNAVI							
31	SANTOSH	P	P	A	P	P	A	P
32	CHAVAN SHREYAN YOGESH	A	P	P	A	P	P	P
33	SOLANKE SAGAR SANDIPAN	P	P	A	P	P	A	P
34	MATHE ADITYA AJAY	A	P	P	P	A	A	P
35	MOKASHI SHARVARI BABURAO	P	P	A	A	P	P	P
36	MULE PRASANNA GANESH	P	P	P	P	P	P	A
37	NAIKADE SIDDHI DATTATRAY	P	P	P	P	P	P	P
	NALGE JANHAVI							
38	SIDDHIVINAYAK	P	P	P	P	A	P	P
39	DONGARE SAKSHI LAXMAN	A	P	P	P	P	P	P
40	GAVHANE SAYALI SANTOSH	P	P	P	P	P	A	A
41	JADHAV VAISHALI SUBHASH	P	P	P	P	P	P	A
42	KAMBLE SHRUTI NILESH	P	P	P	P	P	A	A
	KHAMKAR VAISHNAVI							
	RAJENDRA	P	P	A	P	P	P	P
44	KAMBLE SAINATH PANDURANG	P	P	P	P	A	P	P
45	KARALE VAISHNAVI TARUN	A	P	P	P	P	P	P
	KARANDE SNEHAL							
46	RAMCHANDRA	P	P	P	A	P	P	P
47	KASHID PRATIKSHA PRADIP	A	P	P	P	P	A	P
48	KATE VAISHNAVI SHANKAR	A	P	P	P	P	P	A
49	BHOSALE PAYAL RAJESH	A	P	P	P	P	P	P
50	BOBADE SHIVAM DEEPAK	A	P	P	P	P	P	P





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M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Students	18/01/24	19/01/24	20/01/24	22/01/24	23/01/24	24/01/24	25/01/24
51	CHAUDHARY MANDAR MAHENDRA	A	P	P	P	A	P	P
52	CHAVAN PRASAD ANIL	P	P	A	P	P	A	P
53	CHOUHARY KISHAN JAGDISH	P	P	A	A	P	P	P
54	CHOWKIDAR ADAVAITA MUKUNDRAO	P	P	P	P	A	P	A
55	GOPNAR KESHAV RANJEETRAO	A	P	P	A	P	P	P
56	GORE VIKAS AJINATH	P	A	P	P	P	A	P
57	GOSAVI DEEPALI SHRIKRUSHNA	P	P	P	A	P	P	A
58	GOYAKAR ATHARVA SIDDHESHWAR	P	P	A	P	P	P	P
59	JADHAV RUPESH RAMRAO	P	A	P	P	A	P	P
60	JADHAV SOHAM SANJAY	P	P	P	P	P	P	A

Dr. A. R. Kumbhar
Course Co-ordinator

Dr. P. D. Chaudhari
Principal





Assessment of The Complete Healthcare Artificial Intelligence Course

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Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: The Complete Healthcare Artificial Intelligence Course

Date: 18/01/2024-25/01/2024

Course Code: NA

Course Duration: 40 hrs

Assessment

Sr. No	Name of Student	Interview 30 Marks
1	JAGTAP SHWETA RAJENDRA	22
2	JAMBHALE VAISHNAVI MOHAN	24
3	KSHIRSAGAR TUSHAR HARIBHAU	23
4	KAMBLE ANURADHA KAKA	21
5	HATEKAR JYOTI DADASAHEB	20
6	HIEMATH NIRAJ SHARANAYYA	25
7	ISHTE KIRTI DATTATRAY	24
8	JADHAV PRATIKSHA VILAS	25
9	SHINGADE VAISHNAVI MACHINDRA	24
10	SHIRKE RIYA SHIVAJI	24
11	SONAWANE SHREYA TUKARAM	24
12	SURVASE GANESH PANDURANG	25
13	TANDALE HARSHADA SUNIL	24
14	PAWAR PRATIKSHA MAHADEV	24
15	TAPSALE AARYAN ARUN	20
16	MULLA TAUFIK USMAN	20
17	NAGE KALYAN BABASAHEB	25
18	NAMADE ATHARV AJAY	24
19	JAGDALE TANMAY BHARAT	24
20	DANGLE NEHA NAVNATH	25
21	DESAI ADITI ANIL	24
22	DESHMUKH GAURI VINOD	24
23	DHAMAL SHRUSTI BALASAHEB	20
24	VIBHUTE SOMESH RAMRAO	20
25	WAKTE TEJAS VIJAY	25
26	KUTE SAKSHI DINKAR	25
27	BANERJEE SHREYASI	24
28	CHAVAN DEEKSHA PRAKASH	20
29	DERE SHRUTI HANUMANT	25
30	BOTRE SHIVAI SUNIL	24



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M.S, M.N.A.M.S
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Interview 30 Marks
31	BURUKALE VAISHNAVI SANTOSH	25
32	CHAVAN SHREYAN YOGESH	24
33	SOLANKE SAGAR SANDIPAN	24
34	MATHE ADITYA AJAY	20
35	MOKASHI SHARVARI BABURAO	25
36	MULE PRASANNA GANESH	24
37	NAIKADE SIDDHI DATTATRAY	24
38	NALGE JANHAVI SIDDHIVINAYAK	25
39	DONGARE SAKSHI LAXMAN	24
40	GAVHANE SAYALI SANTOSH	24
41	JADHAV VAISHALI SUBHASH	25
42	KAMBLE SHRUTI NILESH	24
43	KHAMKAR VAISHNAVI RAJENDRA	24
44	KAMBLE SAINATH PANDURANG	20
45	KARALE VAISHNAVI TARUN	20
46	KARANDE SNEHAL RAMCHANDRA	24
47	KASHID PRATIKSHA PRADIP	24
48	KATE VAISHNAVI SHANKAR	20
49	BHOSALE PAYAL RAJESH	20
50	BOBADE SHIVAM DEEPAK	25
51	CHAUDHARY MANDAR MAHENDRA	25
52	CHAVAN PRASAD ANIL	24
53	CHOUDHARY KISHAN JAGDISH	20
54	CHOWKIDAR ADAVAITA MUKUNDRAO	25
55	GOPNAR KESHAV RANJEETRAO	24
56	GORE VIKAS AJINATH	24
57	GOSAVI DEEPALI SHRIKRUSHNA	20
58	GOYAKAR ATHARVA SIDDHESHWAR	20
59	JADHAV RUPESH RAMRAO	25
60	JADHAV SOHAM SANJAY	24


Dr. A. R. Kumbhar
Course Co-ordinator




Dr. P. D. Chaudhari
Principal



Certificate of The Complete Healthcare Artificial Intelligence Course







Brochure of PGM GPAT Course



PGM GPAT CLASSES

In association with
Modern College of Pharmacy, Nigdi Pune

Guest session

On
GPAT & NIPER JEE

- How to prepare for GPAT ?
 - Subjects to be focused ?
 - Time management
 - Questions to be attempt



Mr. Amey Gavaskar
(GPAT 2023 AIR 1
NIPER JEE 2023 AIR 1)



Dr. M.T. Harde
Competitive Exam
Incharge

Date – 11th August 2023
Time – 10:30 – 11:30 AM
Venue – MCOP, Pune



Dr. P.D. Chaudhari
Principal

Organized By

PES's Modern College of Pharmacy

& PGM Faculty

- | | |
|-------------------|------------------|
| ▪ Tushar Phalke | ▪ Namrata Shinde |
| ▪ Yogish Garhwani | ▪ Shilpa Biradar |
| ▪ Gaurav Mahajan | ▪ Yashoda Tidake |

Contact – 7038806395/ 8847791920/ 7768053933



List of students of PGM GPAT Course

P. E. Society's
Modern College of Pharmacy, Nigdi, Pune.
Academic Year 2022-23

Sr. No.	Name	Class	Sign
1	Tanpure Ajinkya	Final year	
2	Shinde Aditya	Final year	
3	Riya Shirke	Final year	
4	Shinde Sayali	Final year	
5	Thete Kaja	Final year	
6	Siddhi. S. Waghule	Final Year	
7	Shweta Mahan Mhetre	T.Y.B. Pharm	
8	Chirish Sudeep Paul	T.Y.B. Pharm	
9	Digvijay Bharat Marne	T.Y.B. Pharm	
10	Amit Rajbali Yadav	T.Y.B. Pharm	
11	Aditi - A - Pathe	T.Y.B. Pharm	
12	Rutuja K. Sontakke	T.Y.B. Pharm	
13	Shruti Vaishnavi Vishnu	T.Y.B. Pharm	
14	Ujjayantali Narayan Bhale	T.Y.B. Pharm	
15	Vaishnavi Pramod Atole	T.Y.B. Pharm	
16	Pooja Shankar Hatkar	Final Year	
49.			
50.			
51.			
52.			
53.			
54.			
55.			
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58.			
59.			
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61.			
62.			

Dr. Minal T. Harde
(Test Incharge)

Dr. P. D. Chaudhari
(Principal)



Curriculum of students of PGM GPAT Course

AUGUST 2023 SCHEDULE			
Date	Subject	Mentor Name	Signature
1-Aug	P'ceutics-Capsules & Kahoot 8 (9-10 AM)	Mr. Tushar	
2-Aug	O.C. & Kahoot 9 (9-10 AM)	Ms. Namrata	
3-Aug	O.C. (SN1 & SN2), Local+General Anaesthetics & Kahoot 10 (5-6 PM)	Mr. Yogish	
4-Aug	Receptors & Kahoot 11 (9-10 AM)	Mrs. Shilpa	
5-Aug	Physical Chemistry Intro & Numericals Online (5-6 PM)	Mr. Gaurav	
7-Aug	Pharmaceutics Kahoot 12 (9 to 10)	Mr. Tushar	
	General P'cology Online	Ms. Shilpa	
8-Aug	Organic Chem.	Ms. Namrata	
	Test no. 01 [PC+GP+P+HC]	Mr. Tushar	
9-Aug	Antihypertensives: Class & MOA & Kahoot 13 (9-10 AM)	Mr. Yogish	
10-Aug	Micromeritics (9-10 AM)	Mr. Gaurav	
11-Aug	Guest Lecture (10:30-11:30 AM)	Mr. Amey Gavaskar (GPAT & NIPER JEE AIR 1)	
12-Aug	Weekly Test 1 Discussion, P'cology & Kahoot 14 (1-3 PM)	Ms. Shilpa	
14-Aug	P'cognosy Intro (9-10 AM)	Ms. Yashoda	
15-Aug	P'cognosy Online (11 AM-12 PM)	Ms. Yashoda	
16-Aug	Biochemistry Proteins Online (11 AM-12 PM)	Ms. Namrata	
17-Aug	Antihypertensives Continued & Kahoot 15 (9-10 AM)	Mr. Yogish	
18-Aug	P'cognosy: Alkaloids Online (11 AM-12 PM)	Ms. Yashoda	
19-Aug	Not taken	-	
20-Aug	Holiday	-	



21-Aug	Organic Chemistry: Hybridization (9-10:15 AM)	Ms. Namrata	
	Polycyclic Compounds & Kahoot 16 (5-6 PM)	Mr. Yogish	
22-Aug	P'cology : Immunity & Kahoot 17 (9-10:20 AM)	Mr. Tushar	Ⓟ
	P'cology: ANS (5-6 PM)	Mrs. Shilpa	
23-Aug	P'cology: Histamine (9-10 AM)	Mr. Tushar	Ⓟ
24-Aug	P'ceutics: Dissolution, pH-partition & BCS equation (9-10 AM)	Mr. Gaurav	QANelogen
25-Aug	P'cology: Sympatholytics & Kahoot 18 (9-10 AM)	Mrs. Shilpa	
26-Aug	P'cology: NSAIDs (1:30-3.15 PM)	Mr. Tushar	Ⓟ
28-Aug	O.C.(9.00-10.00 AM)	Ms. Namrata	
29-Aug	Cognosy (9.00 to 10.00 AM)	Ms. Yashoda	
30-Aug	Holiday		
31-Aug	(9-10 AM)	Mr.Yogish	

Summary of students of PGM GPAT Course

Summary Report

On 29th August 2022, behalf of PES's Modern College of Pharmacy, Nigdi we started new initiative named as **"PGM GPAT Coaching Class"** for Third Year & Final Year B. Pharm Students. It's been a wonderful journey as this initiative steps further very rapidly. GPAT is a competitive exam needed for entry in M. Pharm which provides financial assistance to students.

Mentors at PGM GPAT Class are well acquainted with the pattern & subject knowledge of the GPAT exam. They have also explained the topics which have not only the importance in the exam but also carry significant role in day-to-day life. They have cleared the doubts of the students at the end of every lecture. Regular monitoring & attendance of students has been followed for every lecture. At the end of every subject topic we have conducted test to get an idea about understanding of topic from student's perspective.

Also mentors dealt the strategy with students for easy solvation of questions & time management in GPAT exam. Tricks & pnemonics have been circulated along with notes for last minute revision to get ready for the exam. There were total **148 lectures** conducted during duration from **18th July 2023 to 7th June 2024** across subjects like Pharmaceutics, Pharmaceutical Chemistry, Pharmacology, Pharmacognosy & other allied subjects. Also **Mock Test series** consisting of **10 tests** conducted **under the guidance of Dr. Minal Harde Madam** during this course. Total **10 students** attended the regular class & out of 10 students, **8 appeared for GPAT 2024 Exam**.





Attendance of students of PGM GPAT Course

PES's Modern College of Pharmacy, Nigdi, Pune-411044

PGM GPAT COACHING CENTER

August 2023 Attendance

Total lectures-27 & Guest Lecture-1

Sr No	Name of Student	Yr & D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	Pooja Shankar Harkar	4th A	1							2	3	4		5		6	7	8	9	P						10	11	12	13			14	P	
2	Aditya Dinesh Shinde	4th B		1												6	7		7							8	9	10	11	12			13	P
3	Sayali Raju Shinde	4th B	1							2	3	4	5													7	8	9	10			11	P	
4	Riya Shivaji Shirke	4th B	1	2	3	4	5	6	7							3	4	5	6						11		12						P	
5	Ajinkya Nanasaheb Tampure	4th B	1	2	3	4	5	6	7	8				G	9	10	11	12	13	P				14	15	16	17	18	19	20	21	22	P	
6	Kajal Ganpat Thete	4th B	1	2	3	4	5	6	7				u			8	9	10	11				12	13		14	15	16	17		17	P		
7	Siddhi Sudhir Waghule	4th B				1				2				e		3	4	5	6							7	8	9					P	
8	Vaishnavi Pramod Atole	3rd A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	P	
9	Vaishnavi Shirke	3rd B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	P	
10	Aditi Ambadas Pathade	3rd B				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	P
11	Samika Talekar	3rd B	1	2						3	4	5	L	6	7	8	9	10				10	11	12	13									
12	Shweta Mhetre	3rd B	1	2	3	4	5	6	7	8	9	10	e	11	12	13	P					14		15	16	17	18							
13	Rutuja Sonakke	3rd B		1	2	3	4	5	6	7	8		c	9	10	11	12	P												13	14			
14	Grish Sudesh Patil	3rd B	1	2	3	4	5	6	7	8	9	10	u	11	12	13	14	15	P				16	17	18	19	20	21	22	23				
15	Geetanjali Bhale	3rd A		1	2	3	4			5	6		r	7	8	9	10	11	P				12	13	14	15								
16	Amit Yadav	3rd B		1	2	3	4			5	6		e	7	8	9	10	11	P				12	13	14	15	16	17	18					
17	Digvijay Mane	3rd B			1	2	3	4	5	6	7	8	9	10	11	12	13	14	P				15	16	17	18								
18	Aishwarya Pande	3rd B												9		10	11	12	P				13	14	15									
19	Santoshi Lashkare	3rd B												1		2	3	P				4		5	6	7					8		P	
20		3rd B																																



Assessment of students of PGM GPAT Course

Name of Student: <u>Kajal Thete</u>	Class & Division: <u>Final Yr. B. Pharm</u> Roll No: <u>4119</u>
PES's Modern College of Pharmacy, Nigdi, Pune-44	
Time: 3 Hours	Date: <u>31/3/2024</u>
GPAT Mock Test: 3	
[Correct answer contains +4 marks, negative answer carries -1 mark]	

1. Primogel® is brand name of
a. Sodium starch glycolate ✓ b. CMC
c. SLS d. Sucrose

2. is hurdle for BSC class II drug
a. permeability b. solubility
c. both d. none

3. is used for osmotic disruption in brain
a. maltose b. mannitol c. glucose d. none

4. Enteric coated tablet will disintegrate in
a. stomach b. duodenum c. small intestine ✓ d. all

5. Simple syrup USP contains % v/v sucrose
a. 66.6 b. 85 c. 60 d. 70

6. Water is a type of fluid
a. Plastic b. Pseudoplastic
c. Dilatant d. Newtonian

7. 1M H₂SO₄ is equal to N
a) 1 ✓ b) 2 c) 0.5 d) 3

8. p-gp is pump
a) Active b) Passive
c) Influx d) Efflux

9. Stoke's equation is used to determine
a) Solubility b) Molality
c) Sedimentation d) Viscosity

10. Lugol's solution comes in % solution
a) 2 b) 5 ✓ c) Both a & b d) None

11. Shrinkage of gel by extrusion of liquid is called
a) Syneresis b) Dilatancy
c) Plasticity ✓ d) Ebullition

12. Most commonly used bulking agent in lyophilized product is
a) Methyl cellulose b) Mannitol
c) Sodium chloride d) All

13. Which one of the following process is responsible for higher half-life of drug?
a) Drug absorption b) Excretion
c) Metabolism ✓ d) Protein binding

14. The half-life of a first-order reaction is 4 years. What is its shelf life (in years)?
a) 0.02 b) 0.03 c) 0.17 d) 0.61

15. Standard unit volume in metric system is
a) Microlitre b) Milliliter
c) Centiliter d) Liter

16. Colloidal mill is suitable for manufacturing of
a) Emulsion b) Ointment
c) Tooth paste d) Suspension

17. Indicate which of the following statements is true. Oil soluble surfactants:
a) Have high HLB values b) Are hydrophilic
c) Can be used as emulsifiers to produce water-in-oil emulsions
d) Are efficient solubilising agents

18. Space required for manufacturing parenteral is
a) 50 m² b) 60 m² c) 80 m² ✓ d) 100 m² 150 m²

19. The sweetening agent commonly used in chewable tablet formula is
a) Sucrose b) Cyclamate sodium
c) Saccharin Sodium ✓ d) Mannitol

20. Air permeability method is used to determine the of powder.
a) Volume b) Density
c) Weight ✓ d) Specific surface area

21. First-order half-life is equal to
a) 1/k b) k ✓ c) 0.693/k d) 2k+1

22. Wetting agent has HLB value
a) 1 to 3 b) 3 to 6 ✓ c) 7 to 9 d) 8 to 18

23. is a zwitterionic surfactant
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c) Tween d) Benzalkonium chloride

24. The particle size range of colloidal dispersion is
a) 1 nm to 1 µm b) 1 nm to 0.5 µm
c) 1 nm to 100 nm d) Greater than 100 nm

25. Inorganic particles such as gold and silver dispersed in water form?
a) Lyophilic b) Lyophobic
c) Amphiphilic d) None of above

26. Following is not a filter aid:
a) Diatomite b) Carbon ✓ c) Gelatin d) Asbestos

27. Integrity tests are intended for following filters:
a) Leaf filters b) Drum filters
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28. is the term used to describe an unequal distribution of colour on a tablet
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29. From the point of view of dissolution, which of the following dosage forms is least absorbed?
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	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td>Attempted Q</td><td>89</td></tr><tr><td>Correct Q</td><td>43 x 4 = 172 + 57 = 229</td></tr><tr><td>Wrong Q</td><td>46 = -46</td></tr><tr><td>Obtained Marks</td><td>181</td></tr></table>	Attempted Q	89	Correct Q	43 x 4 = 172 + 57 = 229	Wrong Q	46 = -46	Obtained Marks	181
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Correct Q	43 x 4 = 172 + 57 = 229								
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Name of Student: Vaishnavi Pramod Atole Class & Division: T.Y. & A Roll No: 5008
PES's Modern College of Pharmacy, Nigdi, Pune-44
Time: 3 Hours Date: 31/03/2024 Total Marks: 500
GPAT Mock Test: 3
[Correct answer contains +4 marks, negative answer carries -1 mark]

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a. 6 b. 7 c. 8 d. 9

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Attempted Q	
Correct Q	53
Wrong Q	30
Obtained Marks	182

Name of Student: Geetanjali N. BhaleClass & Division: T.Y & ARoll No: 3014

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 3 Hours

Date: 24/3/24

Total Marks: 500

GPAT Mock Test: 2

[Correct answer contains +4 marks, negative answer carries -1 mark]

1. Order of reaction in kinetics depends on number of
a. reactants b. products c. both d. intermediates
2. Higher V_d value represents higher binding
a. blood b. tissue c. both d. brain
3. Weakly acidic drug will absorb from
a. whole GIT b. stomach c. intestine d. none
4. Particle size reduction will help in
a. diffusion b. partitioning c. dissolution d. all
5. Uncoated tablets have disintegration time of minutes
a. 5 b. 15 c. 30 d. 60
6. Log P value is good when it is
a. 2-5 b. < 2 c. > 5 d. 1
7. Passive immunity is obtained by injecting
a. Antiserum b. Antigen c. Vaccine d. Antibody
8. Majority of drugs cross the biological membrane by
a. Passive diffusion b. Facilitated diffusion
c. Active diffusion d. Pinocytosis
9. Number of gram equivalents of the solute per liter of solution is known as
a. Normality b. Molality
c. Molarity d. Mole fraction
10. WFI is prepared by distillation
a. Fractional b. Molecular c. Simple d. Steam
11. Distribution is perfusion rate limited for Drugs
a. Ionic b. Lipophilic c. Polar d. Water Soluble
12. Which of the following is not a cause for the drug undergoing nonlinear pharmacokinetics
a. Enzyme inhibition b. Enzyme induction
c. Saturation of carrier molecules
d. Saturation of plasma protein binding
13. NaOCl is also known as solution
a. Lugol b. Dakin c. Formalin d. Lindlar
14. Surface tension is categorised as a/an factor?
a. Intensive b. Capacity c. Extensive d. Tolerance
15. The labelling instructions "To be diluted 20 times its volume with water" indicates the dispensed product is ...
a. Mouthwash b. Elixir c. Linctus d. Mixture
16. Macrogol 1000 is the base used for the semi-solid dosage form, it is also called
a. PEG 500 b. PEG 20 c. PEG 200 d. PEG 1000
17. Which is an example of cationic surfactant?
a. Benzalkonium chloride b. Polysorbate 80
c. Sodium lauryl sulphate d. Sorbitol mono oleate
18. The temperature at which the solubility of the surfactant is equal to CMC is
a. Kraft point b. Boiling point
c. Melting point d. Both a & b
19. Which of the following route of administration of drugs is associated with Phlebitis?
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c) 7920 cal/mole d) 9720 cal/mole
26. Larger values of K_y in heckel's plot indicates type of tablet
a) Harder b) Soft c) Fluffy d) Brittle
27. What for baffles are provided in a shell & tube heat exchanger?
a) To increase turbulence b) To decrease turbulence
c) To prevent corrosion d) To increase shell size passes
28. wavelength of UV light provides maximum germicidal action
a) 253.7 nm b) 275.5 nm c) 283.5 nm d) 240 nm
29. Target material used in the production of X-rays is ...
a) K b) Cu c) Al d) Na
30. Draves test is associated with measuring the efficiency of
a) Detergents b) Wetting agents
c) Suspending agents d) Adsorbent
31. Application for the issue of a permit to import small quantities of drugs for personal use shall be made in
a) Form - 12 b) Form - 12A
c) Form - 12AA d) Form - 13
32. Which of the following drugs can be imported without a license?
a) Drugs specified in schedule H
b) Drugs specified in schedule X
c) Drugs in schedule C1 required for manufacturing and not for medicinal use



Attempted Q	77
Correct Q	45
Wrong Q	32
Obtained Marks	148

Name of Student: Greetanjali N. BhaleClass & Division: T.Y & 'A'Roll No: 3014

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 3 Hours

Date: 31/03/24

Total Marks: 500

GPAT Mock Test: 3

[Correct answer contains +4 marks, negative answer carries -1 mark]

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- a) Coated tablets b) Solution
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30. β -cyclodextrin consists of gluopyranose units

- a) 6 b) 7 c) 8 d) 9



Attempted Q	
Correct Q	63
Wrong Q	22
Obtained Marks	230

Name of Student: Geetanjali N. BhaleClass & Division: T-Y & ARoll No: 3014

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 3 Hours

Date: 17/03/2024

Total Marks: 500

GPAT Mock Test: 1

[Correct answer contains +4 marks, negative answer carries -1 mark]

1. Paste is a semi-solid preparation which is a

- (a) Magma (b) Concentrated emulsion
(c) Gel (d) Concentrated suspension

2. Creep testing is applied to analyse the viscoelastic property of

- (a) Emulsions (b) Lotion
(c) Ointments (d) Suspensions

3. Which of following technique(s) is/are used to determine particle size of aerosol?

- (a) Microscopy (b) Cascade impactor
(c) Light scatter decay (d) Both (b) and (c)

4. Vanishing cream is an ointment that may be classified as

- (a) Water-soluble base (b) Oleaginous base
(c) Absorption base (d) Emulsion base

5. Which of the following is oleaginous base for suppository?

- (a) Cocoa butter (b) Synthetic fat
(c) Hydrogenated palm kernel oil (d) All of above

6. Which of the following is the lowest melting point polymorphic form of cocoa butter?

- (a) β (b) γ (c) α (d) β 1

7. An early sign of instability in emulsion is detected by

- (a) Appearance of bigger size globules
(b) Separation of layer
(c) Appearance of caking (d) Breaking

8. Different suspension can be compared by using as a quality control parameter.

- (a) Settling (b) Rheological evaluation
(c) Physical evaluation (d) Both b and c

9. Flammability and combustibility of aerosol is determined by

- (a) Flash point (b) Flame projection
(c) Light scatter decay (d) Both (a) and (b)

10. The main film-forming agent in the nail polish is ...

- (a) Nitrocellulose (b) Sulphonamide-formaldehyde
(c) Ethyl lactate (d) n-butyl acetate

11. The concentration of plasticizer in nail polish is

- (a) 1% (b) 5% (c) 15% (d) 25%

12. Humectants mean

- (a) It reduces the particle size of the powder material
(b) It is used to increase the thickness of the ointment
(c) It is used to prevent the drying of the cream
(d) It is used to increase the spread of the coat over tablet

13. All of the following are antioxidant agents except ...

- (a) Ascorbic acid (b) Propyl gallate
(c) Sodium chloride (d) Both (b) and (c)

14. Which is the most recently used reagent for the validation of HEPA filter?

- (a) Emory 3004 (b) LAL reagent
(c) Alcohol (d) None

15. The following tests are necessary for the quality testing of parenteral except

- (a) Pyrogen test (b) Total organic content
(c) Conductivity test (d) All of the above

16. LAL is an in vitro test and it is used in parental products to detect:

- (a) Antigen (b) Micro-organism
(c) Antimicrobials (d) Pyrogen

17. The antimicrobial agent used in the ophthalmic solution is:

- (a) Chlorhexidine (b) Salicylic acid
(c) Sodium bicarbonate (d) PEG 4000

18. The vacuum applied for the leak test for vials is ...

- (a) -27 mmHg (b) -40 mmHg
(c) -50 mmHg (d) -10 mmHg

19. Z value in sterilization is

- (a) Bioburden (b) Resistance value
(c) Sterilization process eq. time
(d) Probability of nonsterility

20. Which of the below has minimum permissible solid content?

- (a) Distilled water (b) WFI
(c) SWFI (d) None of above

21. Which of following dye is used for the leak test?

- (a) Orange red (b) Methylene blue
(c) Methylene red (d) None of above

22. DOP or smoke test (dioctyl phthalate test) is usually used for

- (a) HEPA filter integrity (b) Filter validation
(c) Filter leak testing (d) Filter compatibility testing

23. Aseptic area (sterile area) is

- (a) Class 100 area (b) Class 1000 area
(c) Class 10 area (d) Class 10000 area



Attempted Q	102
Correct Q	46 = 184
Wrong Q	56
Obtained Marks	12.8

Name of Student: Vaishnavi Prasad Alore Class & Division: T.Y. & A Roll No: 3008

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 3 Hours

Date: 24/03/2024

Total Marks: 500

GPAT Mock Test: 2

[Correct answer contains +4 marks, negative answer carries -1 mark]

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- 1 27. What for baffles are provided in a shell & tube heat exchanger?
a) To increase turbulence b) To decrease turbulence
c) To prevent corrosion d) To increase shell size passes
- 1 28. wavelength of UV light provides maximum germicidal action
a) 253.7 nm b) 275.5 nm c) 283.5 nm d) 240 nm
- 1 29. Target material used in the production of X-rays is ...
a) K b) Cu c) Al d) Na
- 1 30. Draves test is associated with measuring the efficiency of
a) Detergents b) Wetting agents
c) Suspending agents d) Adsorbent
- +4 31. Application for the issue of a permit to import small quantities of drugs for personal use are shall be made in
a) Form - 12 b) Form - 12A
c) Form - 12AA d) Form - 13
- +4 32. Which of the following drugs can be imported without a license?
a) Drugs specified in schedule H
b) Drugs specified in schedule X
c) Drugs in schedule C1 required for manufacturing and not for medicinal use



100
200
To/02/2024

Attempted Q	41
Correct Q	30
Wrong Q	11
Obtained Marks	109

Name of Student: Siddhi Sudhir Waghule Class & Division: Final & B Roll No: 4122
PGM GPAT Classes B Pharm

(in association with)

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 1 Hour

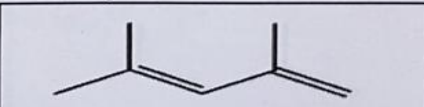
Date: / /

Total Marks: 200

GPAT TEST: 8

[Correct answer contains +4 marks, negative answer carries -1 mark]

Pharmaceutical Analysis

1. Benzene has HDI of
a. 1 b. 2 ✓ c. 3 d. 4
2. Majorly isotopic effect can be determined by spectroscopy
a. UV ✓ b. Mass c. NMR d. IR
3. For being IR active, compound must have following:
a. Dipole moment b. Isotonicity
c. Viscosity ✓ d. All
4. Aromatic C-H has delta ppm in NMR signal
a. 1-2 b. 3-4 ✓ c. 6.5-8 d. 10-11
5. Aliphatic C-H stretch has value in IR spectrum
a. 2850 b. 3050 c. 3600 d. 2260
6. Base peak of ethanol will occur at m/z ratio
a. 32 b. 36 c. 40 ✓ d. 46
7. One alkyl residue has value in Woodward's Fischer rule
a. 5nm b. 30nm c. 10nm d. 60nm
8. Chlorine isotopic peak would occur as in mass spectrum
a. 1:1 b. 1:3 ✓ c. 1:4 d. 1:2
9. Maximum absorption occurs on wavelength
a. tau ✓ b. lambda c. alpha d. beta
10. Following structure has lambda max value
- 
- a. 215nm ✓ b. 230nm c. 240nm d. 250nm

Pharmaceutical Jurisprudence

11. Narcotic Drugs & Psychotropics Substances Act passed in
a. 1949 b. 1955 ✓ c. 1960 d. 1985
12. GMP are covered in Schedule.
a. M b. T c. Y d. S
13. Insulin comes under warning of Schedule
a. H b. G c. K ✓ d. Both a & b
14. Form is required to apply for manufacturing of cosmetics
a. 31 ✓ b. 32 c. 31A d. 32A

1 | Page

15. Central Drug Research Institute (CDRI) is situated in
a. Lucknow ✓ b. Kasauli
c. Izzatnagar d. Kolkata
16. Minimum age required under pharmacy act for registration of pharmacist is
a. 22 ✓ b. 20 c. 18 d. 24
17. Total members in DTAB are
a. 18 b. 6 ✓ c. 12 d. 10
18. NR₁ is required on label of Schedule of drug
a. H b. G ✓ c. X d. T
19. will fix the ceiling price of drugs in India
a. MHRA b. USFDA c. CDSCO ✓ d. NPPA
20. is the chairman of DTAB
a. DCGI ✓ b. DGHS c. CDL d. CDRI

Dispensing Pharmacy

21. % (w/v) NaCl is isotonic to blood
a. 0.5 b. 0.9 ✓ c. 1.2 d. 2
22. For being isotonic with blood, mOsmol are required
a. 292-308 ✓ b. 308-350
c. 250-292 d. 300-400
23. Posology is the study of
a. Drugs ✓ b. Dose c. Patients d. All
24. Following is not a colligative property.
a. Osmotic pressure
b. Elevation in boiling point
c. Lowering of vapour pressure ✓ d. Viscosity
25. R_x is part of
a. Superscription b. Inscription
c. Subscription d. Signa
26. If alcohol strength is greater than 57.1%, then it is called as
a. Over-proof b. Under-proof
c. Both d. 100-proof
27. What is dose of a 15 yr child, if dose of adult is 100mg?
a. 25mg b. 50mg ✓ c. 75mg d. 60mg
28. What would be the resultant percentage after mixing solutions of 90% & 60%?
a. 75% ✓ b. 70% c. 80% d. 65%



PGM

60
200-10/05/2024

Attempted Q	30
Correct Q	18 × 4 = 72
Wrong Q	12 × -1 = -12
Obtained Marks	60

Name of Student: Riya S. Shirke Class & Division: Final & Year B Roll No: 4114

PGM GPAT Classes
(in association with)
PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 1 Hour Date: 10/8/24 Total Marks: 200

GPAT TEST: 8
[Correct answer contains +4 marks, negative answer carries -1 mark]

Pharmaceutical Analysis

1. Benzene has HDI of
a. 1 b. 2 c. 3 **d. 4**

2. Majorly isotopic effect can be determined by spectroscopy
a. UV **b. Mass** c. NMR d. IR

3. For being IR active, compound must have following:
a. Dipole moment b. Isotonicity
c. Viscosity **d. All**

4. Aromatic C-H has delta ppm in NMR signal
a. 1-2 b. 3-4 **c. 6.5-8** d. 10-11

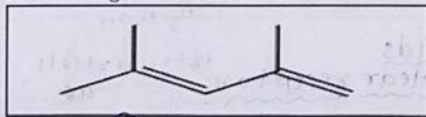
5. Aliphatic C-H stretch has value in IR spectrum
a. 2850 b. 3050 c. 3600 **d. 2260**

6. Base peak of ethanol will occur at m/z ratio
a. 32 b. 36 c. 40 **d. 46**

7. One alkyl residue has value in Woodward's Fischer rule
a. 5nm b. 30nm c. 10nm d. 60nm

8. Chlorine isotopic peak would occur as in mass spectrum
a. 1:1 **b. 1:3** **c. 1:4** d. 1:2

9. Maximum absorption occurs on wavelength
a. tau **b. lambda** c. alpha d. beta

10. Following structure has lambda max value

a. 215nm **b. 230nm** **c. 240nm** d. 250nm

Pharmaceutical Jurisprudence

11. Narcotic Drugs & Psychotropics Substances Act passed in
a. 1949 b. 1955 c. 1960 **d. 1985**

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a. M b. T c. Y d. S

13. Insulin comes under warning of Schedule
a. H b. G **c. K** **d. Both a & b**

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a. 31 b. 32 c. 31A d. 32A

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a. MHRA b. USFDA **c. CDSCO** **d. NPPA**

20. is the chairman of DTAB
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a. 0.5 **b. 0.9** c. 1.2 d. 2

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a. Drugs **b. Dose** c. Patients **d. All**

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a. Osmotic pressure
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c. Lowering of vapour pressure **d. Viscosity**

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c. Subscription d. Signa

26. If alcohol strength is greater than 57.1%, then it is called as
a. Over-proof b. Under-proof
c. Both d. 100-proof

27. What is dose of a 15 yr child, if dose of adult is 100mg?
a. 25mg b. 50mg **c. 75mg** d. 60mg

28. What would be the resultant percentage after mixing solutions of 90% & 60%?
a. 75% b. 70% c. 80% d. 65%

1 | Page



Name - Aditi - A - Pathade

Attempted Q	82
Correct Q	46
Wrong Q	36
Obtained Marks	150

Name of Student: Aditi - A - Pathade Class & Division: & B Roll No: 3074

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 3 Hours

Date: / /

Total Marks: 500

GPAT Mock Test: 1

[Correct answer contains +4 marks, negative answer carries -1 mark]

1. Paste is a semi-solid preparation which is a
(a) Magma (b) Concentrated emulsion
(c) Gel (d) Concentrated suspension
2. Creep testing is applied to analyse the viscoelastic property of
(a) Emulsions (b) Lotion
(c) Ointments (d) Suspensions
3. Which of following technique(s) is/are used to determine particle size of aerosol?
(a) Microscopy (b) Cascade impactor
(c) Light scatter decay (d) Both (b) and (c)
4. Vanishing cream is an ointment that may be classified as
(a) Water-soluble base (b) Oleaginous base
(c) Absorption base (d) Emulsion base
5. Which of the following is oleaginous base for suppository?
(a) Cocoa butter (b) Synthetic fat
(c) Hydrogenated palm kernel oil (d) All of above
6. Which of the following is the lowest melting point polymorphic form of cocoa butter?
(a) β (b) γ (c) α (d) $\beta 1$
7. An early sign of instability in emulsion is detected by
(a) Appearance of bigger size globules
(b) Separation of layer
(c) Appearance of caking (d) Breaking
8. Different suspension can be compared by using _____ as a quality control parameter.
(a) Settling (b) Rheological evaluation
(c) Physical evaluation (d) Both b and c
9. Flammability and combustibility of aerosol is determined by
(a) Flash point (b) Flame projection
(c) Light scatter decay (d) Both (a) and (b)
10. The main film-forming agent in the nail polish is
(a) Nitrocellulose (b) Sulphonamide-formaldehyde
(c) Ethyl lactate (d) n-butyl acetate
11. The concentration of plasticizer in nail polish is
(a) 1% (b) 5% (c) 15% (d) 25%
12. Humectants mean
(a) It reduces the particle size of the powder material
(b) It is used to increase the thickness of the ointment
(c) It is used to prevent the drying of the cream
(d) It is used to increase the spread of the coat over tablet
13. All of the following are antioxidant agents except ...
(a) Ascorbic acid (b) Propyl gallate
(c) Sodium chloride (d) Both (b) and (c)
14. Which is the most recently used reagent for the validation of HEPA filter?
(a) Emory 3004 (b) LAL reagent
(c) Alcohol (d) None
15. The following tests are necessary for the quality testing of parenteral except
(a) Pyrogen test (b) Total organic content
(c) Conductivity test (d) All of the above
16. LAL is an in vitro test and it is used in parenteral products to detect:
(a) Antigen (b) Micro-organism
(c) Antimicrobials (d) Pyrogen
17. The antimicrobial agent used in the ophthalmic solution is:
(a) Chlorhexidine (b) Salicylic acid
(c) Sodium bicarbonate (d) PEG 4000
18. The vacuum applied for the leak test for vials is ...
(a) - 27 mmHg (b) - 40 mmHg
(c) - 50 mmHg (d) -10 mmHg
19. Z value in sterilization is
(a) Bioburden (b) Resistance value
(c) Sterilization process eq. time
(d) Probability of nonsterility
20. Which of the below has minimum permissible solid content?
(a) Distilled water (b) WFI
(c) SWFI (d) None of above
21. Which of following dye is used for the leak test?
(a) Orange red (b) Methylene blue
(c) Methylene red (d) None of above
22. DOP or smoke test (dioctyl phthalate test) is usually used for
(a) HEPA filter integrity (b) Filter validation
(c) Filter leak testing (d) Filter compatibility testing
23. Aseptic area (sterile area) is
(a) Class 100 area (b) Class 1000 area
(c) Class 10 area (d) Class 10000 area



Attempted Q	58
Correct Q	38 = 148 + 5 = 153
Wrong Q	20
Obtained Marks	133

Name of Student: Greetanjali N. Bhale

Class & Division: T.Y. & A

Roll No: 3014

PGM GPAT Classes
(in association with)

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 2 Hours

Date: 03/03/24

Total Marks: 400

GPAT TEST: 7

[Correct answer contains +4 marks, negative answer carries -1 mark]

Pharmaceutics

1. Paste is a semi-solid preparation which is a

- (a) Magma (b) Concentrated emulsion
(c) Gel (d) Concentrated suspension

2. Creep testing is applied to analyse the viscoelastic property of

- (a) Emulsions (b) Lotion
(c) Ointments (d) Suspensions

3. Which of following technique(s) is/are used to determine particle size of aerosol?

- (a) Microscopy (b) Cascade impactor
(c) Light scatter decay (d) Both (b) and (c)

4. Vanishing cream is an ointment that may be classified as

- (a) Water-soluble base (b) Oleaginous base
(c) Absorption base (d) Emulsion base

5. Which of the following is oleaginous base for suppository?

- (a) Cocoa butter (b) Synthetic fat
(c) Hydrogenated palm kernel oil (d) All of above

6. Which of the following is the lowest melting point polymorphic form of cocoa butter?

- (a) β (b) γ (c) α (d) $\beta 1$

7. An early sign of instability in emulsion is detected by

- (a) Appearance of bigger size globules
(b) Separation of layer
(c) Appearance of caking (d) Breaking

8. Different suspension can be compared by using _____ as a quality control parameter.

- (a) Settling (b) Rheological evaluation
(c) Physical evaluation (d) Both b and c

9. Flammability and combustibility of aerosol is determined by

- (a) Flash point (b) Flame projection
(c) Light scatter decay (d) Both (a) and (b)

10. The main film-forming agent in the nail polish is ...

- (a) Nitrocellulose (b) Sulphonamide-formaldehyde
(c) Ethyl lactate (d) n-butyl acetate

11. The concentration of plasticizer in nail polish is

- (a) 1% (b) 5% (c) 15% (d) 25%

12. Humectants mean

- (a) It reduces the particle size of the powder material

(b) It is used to increase the thickness of the ointment

(c) It is used to prevent the drying of the cream

(d) It is used to increase the spread of the coat over tablet

13. All of the following are antioxidant agents except ...

- (a) Ascorbic acid (b) Propyl gallate
(c) Sodium chloride (d) Both (b) and (c)

14. Which is the most recently used reagent for the validation of HEPA filter?

- (a) Emory 3004 (b) LAL reagent
(c) Alcohol (d) None

15. The following tests are necessary for the quality testing of parenteral except

- (a) Pyrogen test (b) Total organic content
(c) Conductivity test (d) All of the above

16. LAL is an in vitro test and it is used in parental products to detect:

- (a) Antigen (b) Micro-organism
(c) Antimicrobials (d) Pyrogen

17. The antimicrobial agent used in the ophthalmic solution is:

- (a) Chlorhexidine (b) Salicylic acid
(c) Sodium bicarbonate (d) PEG 4000

18. The vacuum applied for the leak test for vials is ...

- (a) -27 mmHg (b) -40 mmHg
(c) -50 mmHg (d) -10 mmHg

19. Z value in sterilization is

- (a) Bioburden (b) Resistance value
(c) Sterilization process eq. time
(d) Probability of nonsterility

20. Which of the below has minimum permissible solid content?

- (a) Distilled water (b) WFI
(c) SWFI (d) None of above

21. Which of following dye is used for the leak test?

- (a) Orange red (b) Methylene blue
(c) Methylene red (d) None of above

22. DOP or smoke test (dioctyl phthalate test) is usually used for


- (a) HEPA filter integrity (b) Filter validation
(c) Filter leak testing (d) Filter compatibility testing

23. Aseptic area (sterile area) is

- (a) Class 100 area (b) Class 1000 area



$32 \times 4 = 128 + 5 = 133$
 $133 - 29 = 104$



Attempted Q	601
Correct Q	$30^2 = 120 + 5 = 125$
Wrong Q	29
Obtained Marks	96 104

Name of Student: Vaishnavi P. Atole Class & Division: TY. & A Roll No: 3008
PGM GPAT Classes B-pharm
(in association with)
PES's Modern College of Pharmacy, Nigdi, Pune-44
Time: 2 Hours Date: 03/03/2024 Total Marks: 400
GPAT TEST: 7
[Correct answer contains +4 marks, negative answer carries -1 mark]

Pharmaceutics

1. Paste is a semi-solid preparation which is a
(a) Magma (b) Concentrated emulsion
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2. Creep testing is applied to analyse the viscoelastic property of
(a) Emulsions (b) Lotion
(c) Ointments (d) Suspensions

3. Which of following technique(s) is/are used to determine particle size of aerosol?
(a) Microscopy (b) Cascade impactor
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4. Vanishing cream is an ointment that may be classified as
(a) Water-soluble base (b) Oleaginous base
(c) Absorption base (d) Emulsion base

5. Which of the following is oleaginous base for suppository?
(a) Cocoa butter (b) Synthetic fat
(c) Hydrogenated palm kernel oil (d) All of above

6. Which of the following is the lowest melting point polymorphic form of cocoa butter?
(a) β (b) γ (c) α (d) $\beta 1$

7. An early sign of instability in emulsion is detected by
(a) Appearance of bigger size globules
(b) Separation of layer
(c) Appearance of caking (d) Breaking

8. Different suspension can be compared by using as a quality control parameter.
(a) Settling (b) Rheological evaluation
(c) Physical evaluation (d) Both b and c

9. Flammability and combustibility of aerosol is determined by
(a) Flash point (b) Flame projection
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10. The main film-forming agent in the nail polish is
(a) Nitrocellulose (b) Sulphonamide-formaldehyde
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11. The concentration of plasticizer is nail polish is
(a) 1% (b) 5% (c) 15% (d) 25%

12. Humectants mean
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(a) Ascorbic acid (b) Propyl gallate
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20. Which of the below has minimum permissible solid content?
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23. Aseptic area (sterile area) is
(a) Class 100 area (b) Class 1000 area

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Attempted Q	90
Correct Q	$(54) \times 4 + 5 = 221$
Wrong Q	35 - 35
Obtained Marks	186

Name of Student: Tanpure Ajinkya Class & Division: first & B Roll No: 4118

PGM GPAT Classes
(in association with)

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 2 Hours

Date: 3/2/24

Total Marks: 400

GPAT TEST: 7

[Correct answer contains +4 marks, negative answer carries -1 mark]

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23. Aseptic area (sterile area) is
(a) Class 100 area (b) Class 1000 area



Attempted Q	90
Correct Q	54 × 4 + 5 = 221
Wrong Q	35 = 35
Obtained Marks	186

Name of Student: Tanpure Ajinkya Class & Division: Final B Roll No: 4118

PGM GPAT Classes

(in association with)

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 2 Hours

Date: 3/2/24

Total Marks: 400

GPAT TEST: 7

[Correct answer contains +4 marks, negative answer carries -1 mark]

Pharmaceutics

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(c) Ethyl lactate (d) n-butyl acetate
11. The concentration of plasticizer in nail polish is
(a) 1% (b) 5% (c) 15% (d) 25%
12. Humectants mean
(a) It reduces the particle size of the powder material
(b) It is used to increase the thickness of the ointment
(c) It is used to prevent the drying of the cream
(d) It is used to increase the spread of the coat over tablet
13. All of the following are antioxidant agents except ...
(a) Ascorbic acid (b) Propyl gallate
(c) Sodium chloride (d) Both (b) and (c)
14. Which is the most recently used reagent for the validation of HEPA filter?
(a) Emory 3004 (b) LAL reagent
(c) Alcohol (d) None
15. The following tests are necessary for the quality testing of parenteral except
(a) Pyrogen test (b) Total organic content
(c) Conductivity test (d) All of the above
16. LAL is an in vitro test and it is used in parental products to detect:
(a) Antigen (b) Micro-organism
(c) Antimicrobials (d) Pyrogen
17. The antimicrobial agent used in the ophthalmic solution is:
(a) Chlorhexidine (b) Salicylic acid
(c) Sodium bicarbonate (d) PEG 4000
18. The vacuum applied for the leak test for vials is ...
(a) - 27 mmHg (b) - 40 mmHg
(c) - 50 mmHg (d) -10 mmHg
19. Z value in sterilization is
(a) Bioburden (b) Resistance value
(c) Sterilization process eq. time
(d) Probability of nonsterility
20. Which of the below has minimum permissible solid content?
(a) Distilled water (b) WFI
(c) SWFI (d) None of above
21. Which of following dye is used for the leak test?
(a) Orange red (b) Methylene blue
(c) Methylene red (d) None of above
22. DOP or smoke test (dioctyl phthalate test) is usually used for
(a) HEPA filter integrity (b) Filter validation
(c) Filter leak testing (d) Filter compatibility testing
23. Aseptic area (sterile area) is
(a) Class 100 area (b) Class 1000 area



Name of Student: <u>Kafal Thele</u>	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td>Attempted Q</td><td style="text-align: center;">43</td></tr><tr><td>Correct Q</td><td style="text-align: center;">22</td></tr><tr><td>Wrong Q</td><td style="text-align: center;">20</td></tr><tr><td>Obtained Marks</td><td style="text-align: center;">68 / 72</td></tr></table>	Attempted Q	43	Correct Q	22	Wrong Q	20	Obtained Marks	68 / 72
Attempted Q	43								
Correct Q	22								
Wrong Q	20								
Obtained Marks	68 / 72								
Class & Division: <u>& B</u> Roll No: <u>4119</u> PGM GPAT Classes <u>Final yr. B. pharm</u> (in association with) PES's Modern College of Pharmacy, Nigdi, Pune-44 Time: 1 Hour Date: <u>18/02/2024</u> Total Marks: 200 GPAT TEST: 6 [Correct answer contains +4 marks, negative answer carries -1 mark]									
Pharmacology									
<p>1. Drug of choice in trigeminal neuralgia (a) Phenytoin (b) Valproate (c) Carbamazepine (d) Phenobarbitone</p> <p>2. Drug which not produce voltage dependent inactivation of sodium channel (a) Vigabatrine (b) Lamotrigine (c) Carbamazepine (d) Valproic acid</p> <p>3. Weak carbonic anhydrase inhibitor acts as antiepileptic drug (a) Topiramate (b) Zonisamide (c) Both a & b (d) Ethosuximide</p> <p>4. Drug used in Stokes Adams Syndrome (a) Adrenaline (b) Acetylcholine (c) Salmeterol (d) None of the above</p> <p>5. The antiviral agent also used in treatment of parkinsonism (a) Levodopa (b) Amantadine (c) Selegiline (d) Carbidopa</p> <p>6. Which of the following is surface anaesthesia (a) Lidocaine (b) Cocaine (c) Benzocaine (d) All of these</p> <p>7. Which of the following is mainly an anxiolytic drug (a) Imipramine (b) Lithium (c) Diazepam (d) Chlorpromazine</p> <p>8. Cholinergic M2 - and M3 - receptors produce following effects [P] Decreased heart rate [Q] Dilatation effect on salivary gland [R] Increased heart rate [S] Effect on erectile tissue (a) P and Q (b) Q and R (c) Q and S (d) P and S</p>	<p>9. The main side effect of tubocurarine is [P] Bradycardia [Q] Bronchoconstriction [R] Hypotension [S] Cardiac arrhythmia (a) R and S (b) P and R (c) Q and S (d) Q and R</p> <p>10. Antidote of atropine is (a) Neostigmine (b) Pralidoxime (c) Physostigmine (d) None of above</p> <p>11. Antidote of organo phosphorous poisoning is (a) Physostigmine (b) Pralidoxime (c) Neostigmine (d) Tubocurarine</p> <p>12. Action of D-tubocurarine is (a) Competitive blockade of muscarinic receptors (b) Competitive blockade of nicotinic receptors (c) Irreversible blockade of muscarinic receptor (d) None of above</p> <p>13. Drug of choice in motion sickness is (a) Atropine (b) Scopolamine (c) Carbamazepine (d) Metoclopramide</p> <p>14. Ganglionic blocking agents may cause all of the following except (a) Mydriasis (b) Loss of accommodation (c) Reduced sweating is reduce (d) Inhibit erection and ejaculation</p> <p>15. Patients who have received MAO inhibitors may experience severe hypertensive crisis if they ingest (a) Cheese (b) Beer (c) Fish (d) All of the above</p> <p>16. Following are the GABA-A receptor agonists: [P] Muscimol [Q] Gaboxadol [R] Gabazine [S] Flumazenil (a) P and Q (b) Q and R (c) P and R (d) Q and S</p>								
1 Page									



Attempted Q	29
Correct Q	17 X 4 = 68
Wrong Q	-12
Obtained Marks	56

Name of Student: Greetanjali N. Bhale.

Class & Division: T-Y & A

Roll No: 3014

PGM GPAT Classes
(in association with)**PES's Modern College of Pharmacy, Nigdi, Pune-44**

Time: 1 Hour

Date: 18/02/2024

Total Marks: 200

GPAT TEST: 6

[Correct answer contains +4 marks, negative answer carries -1 mark]

Pharmacology**1. Drug of choice in trigeminal neuralgia**

- (a) Phenytoin (b) Valproate
(c) Carbamazepine (d) Phenobarbitone

2. Drug which not produce voltage dependent inactivation of sodium channel

- (a) Vigabatrine (b) Lamotrigine
(c) Carbamazepine (d) Valproic acid

3. Weak carbonic anhydrase inhibitor acts as antiepileptic drug

- (a) Topiramate (b) Zonisamide
(c) Both a & b (d) Ethosuximide

4. Drug used in Stokes Adams Syndrome

- (a) Adrenaline (b) Acetylcholine
(c) Salmeterol (d) None of the above

5. The antiviral agent also used in treatment of parkinsonism

- (a) Levodopa (b) Amantadine
(c) Selegiline (d) Carbidopa

6. Which of the following is surface anaesthesia

- (a) Lidocaine (b) Cocaine
(c) Benzocaine (d) All of these

7. Which of the following is mainly an anxiolytic drug

- (a) Imipramine (b) Lithium
(c) Diazepam (d) Chlorpromazine

8. Cholinergic M2 - and M3 - receptors produce following effects

- [P] Decreased heart rate
[Q] Dilatation effect on salivary gland
[R] Increased heart rate
[S] Effect on erectile tissue

- (a) P and Q (b) Q and R
(c) Q and S (d) P and S

9. The main side effect of tubocurarine is

- [P] Bradycardia [Q] Bronchoconstriction
[R] Hypotension [S] Cardiac arrhythmia
(a) R and S (b) P and R
(c) Q and S (d) Q and R

10. Antidote of atropine is

- (a) Neostigmine (b) Pralidoxime
(c) Physostigmine (d) None of above

11. Antidote of organo phosphorous poisoning is

- (a) Physostigmine (b) Pralidoxime
(c) Neostigmine (d) Tubocurarine

12. Action of D-tubocurarine is

- (a) Competitive blockade of muscarinic receptors
(b) Competitive blockade of nicotinic receptors
(c) Irreversible blockade of muscarinic receptor
(d) None of above

13. Drug of choice in motion sickness is

- (a) Atropine (b) Scopolamine
(c) Carbamazepine (d) Metoclopramide

14. Ganglionic blocking agents may cause all of the following except

- (a) Mydriasis (b) Loss of accommodation
(c) Reduced sweating is reduce
(d) Inhibit erection and ejaculation


15. Patients who have received MAO inhibitors may experience severe hypertensive crisis if they ingest

- (a) Cheese (b) Beer (c) Fish (d) All of the above

16. Following are the GABA-A receptor agonists:


- [P] Muscimol [Q] Gaboxadol
[R] Gabazine [S] Flumazenil
(a) P and Q (b) Q and R (c) P and R (d) Q and S



	<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td>Attempted Q</td><td style="text-align: center;">19</td></tr><tr><td>Correct Q</td><td style="text-align: center;">15</td></tr><tr><td>Wrong Q</td><td style="text-align: center;">5</td></tr><tr><td>Obtained Marks</td><td style="text-align: center;">55</td></tr></table>	Attempted Q	19	Correct Q	15	Wrong Q	5	Obtained Marks	55
Attempted Q	19								
Correct Q	15								
Wrong Q	5								
Obtained Marks	55								
<p>Name of Student: <u>Riya Shirke.</u> Class & Division: <u>Final Year B.</u> Roll No: <u>4114</u></p> <p style="text-align: center;">PGM GPAT Classes (in association with) PES's Modern College of Pharmacy, Nigdi, Pune-44</p> <p>Time: 1 Hour Date: <u>18/2/2024</u> Total Marks: 200</p> <p style="text-align: center;">GPAT TEST: 6 [Correct answer contains +4 marks, negative answer carries -1 mark]</p>									
<p>Pharmacology</p> <div style="display: flex; justify-content: space-between;"><div style="width: 48%;"><p>1. Drug of choice in trigeminal neuralgia (a) Phenytoin (b) Valproate (c) Carbamazepine (d) Phenobarbitone</p><p>2. Drug which not produce voltage dependent inactivation of sodium channel ✓ (a) Vigabatrine (b) Lamotrigine (c) Carbamazepine (d) Valproic acid</p><p>3. Weak carbonic anhydrase inhibitor acts as antiepileptic drug 4 (a) Topiramate (b) Zonisamide ✓ (c) Both a & b (d) Ethosuximide</p><p>4. Drug used in Stokes Adams Syndrome (a) Adrenaline (b) Acetylcholine (c) Salmeterol (d) None of the above</p><p>5. The antiviral agent also used in treatment of parkinsonism (a) Levodopa (b) Amantadine (c) Selegiline (d) Carbidopa</p><p>6. Which of the following is surface anaesthesia 4 (a) Lidocaine (b) Cocaine (c) Benzocaine ✓ (d) All of these</p><p>7. Which of the following is mainly an anxiolytic drug (a) Imipramine (b) Lithium (c) Diazepam (d) Chlorpromazine</p><p>8. Cholinergic M2 - and M3 - receptors produce following effects -1 [P] Decreased heart rate [Q] Dilatation effect on salivary gland [R] Increased heart rate [S] Effect on erectile tissue (a) P and Q (b) Q and R (c) Q and S ✓ (d) P and S</p></div><div style="width: 48%;"><p>9. The main side effect of tubocurarine is [P] Bradycardia [Q] Bronchoconstriction [R] Hypotension [S] Cardiac arrhythmia (a) R and S (b) P and R (c) Q and S (d) Q and R</p><p>10. Antidote of atropine is 4 (a) Neostigmine (b) Pralidoxime ✓ (c) Physostigmine (d) None of above</p><p>11. Antidote of organo phosphorous poisoning is -1 (a) Physostigmine (b) Pralidoxime (c) Neostigmine ✓ (d) Tubocurarine</p><p>12. Action of D-tubocurarine is (a) Competitive blockade of muscarinic receptors (b) Competitive blockade of nicotinic receptors (c) Irreversible blockade of muscarinic receptor (d) None of above</p><p>13. Drug of choice in motion sickness is 4 (a) Atropine ✓ (b) Scopolamine (c) Carbamazepine (d) Metoclopramide</p><p>14. Ganglionic blocking agents may cause all of the following except 4 (a) Mydriasis (b) Loss of accommodation (c) Reduced sweating is reduce ✓ (d) Inhibit erection and ejaculation</p><p>15. Patients who have received MAO inhibitors may experience severe hypertensive crisis if they ingest * (a) Cheese (b) Beer (c) Fish (d) All of the above</p><p>16. Following are the GABA-A receptor agonists: (a) P and Q (b) Q and R (c) P and R (d) Q and S [P] Muscimol [Q] Gaboxadol [R] Gabazine [S] Flumazenil</p></div></div>									



Correct = 18 x 4
Incorrect = 14 x 1



Attempted Q	32
Correct Q	18 x 4 = 72
Wrong Q	14 x -1 = -14
Obtained Marks	58

Name of Student: Siddhi Sudhir Waghule Class & Division: ^{Final} V & B Roll No: 4122

PGM GPAT Classes
(in association with)
PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 1 Hour Date: 18/2/2024 Total Marks: 200

GPAT TEST: 6
[Correct answer contains +4 marks, negative answer carries -1 mark]

Pharmacology

1. Drug of choice in trigeminal neuralgia
(a) Phenytoin (b) Valproate
(c) Carbamazepine (d) Phenobarbitone

2. Drug which not produce voltage dependent inactivation of sodium channel
(a) Vigabatrine (b) Lamotrigine
(c) Carbamazepine (d) Valproic acid

3. Weak carbonic anhydrase inhibitor acts as antiepileptic drug
(a) Topiramate (b) Zonisamide
(c) Both a & b (d) Ethosuximide

4. Drug used in Stokes Adams Syndrome
(a) Adrenaline (b) Acetylcholine
(c) Salmeterol (d) None of the above

5. The antiviral agent also used in treatment of parkinsonism
(a) Levodopa (b) Amantadine
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6. Which of the following is surface anaesthesia
(a) Lidocaine (b) Cocaine
(c) Benzocaine (d) All of these

7. Which of the following is mainly an anxiolytic drug
(a) Imipramine (b) Lithium
(c) Diazepam (d) Chlorpromazine

8. Cholinergic M2 - and M3 - receptors produce following effects
[P] Decreased heart rate
[Q] Dilatation effect on salivary gland
[R] Increased heart rate
[S] Effect on erectile tissue
(a) P and Q (b) Q and R
(c) Q and S (d) P and S

9. The main side effect of tubocurarine is
[P] Bradycardia [Q] Bronchoconstriction
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(b) Competitive blockade of nicotinic receptors
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13. Drug of choice in motion sickness is
(a) Atropine (b) Scopolamine
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(a) Mydriasis (b) Loss of accommodation
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(d) Inhibit erection and ejaculation

15. Patients who have received MAO inhibitors may experience severe hypertensive crisis if they ingest
(a) Cheese (b) Beer (c) Fish (d) All of the above

16. Following are the GABA-A receptor agonists:
[P] Muscimol [Q] Gaboxadol
[R] Gabazine [S] Flumazenil
(a) P and Q (b) Q and R (c) P and R (d) Q and S

1 | Page



Attempted Q	30
Correct Q	17 × 4 = 68
Wrong Q	13 ⇒ 68 - 13
Obtained Marks	55

Name of Student: Vaishnavi P. Atole

Class & Division: T.Y. & A

Roll No: 3008

PGM GPAT Classes

(in association with)

PES's Modern College of Pharmacy, Nigdi, Pune-44

Time: 1 Hour

Date: 18/02/2024

Total Marks: 200

GPAT TEST: 6

[Correct answer contains +4 marks, negative answer carries -1 mark]

Pharmacology

1. Drug of choice in trigeminal neuralgia

- (a) Phenytoin (b) Valproate
(c) Carbamazepine (d) Phenobarbitone

2. Drug which not produce voltage dependent inactivation of sodium channel

- (a) Vigabatrine (b) Lamotrigine
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3. Weak carbonic anhydrase inhibitor acts as antiepileptic drug

- (a) Topiramate (b) Zonisamide
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-1 4. Drug used in Stokes Adams Syndrome

- (a) Adrenaline (b) Acetylcholine
(c) Salmeterol (d) None of the above

-1 5. The antiviral agent also used in treatment of parkinsonism

- (a) Levodopa (b) Amantadine
(c) Selegiline (d) Carbidopa

+1 6. Which of the following is surface anaesthesia

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(c) Benzocaine (d) All of these

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- (a) Imipramine (b) Lithium
(c) Diazepam (d) Chlorpromazine

8. Cholinergic M2 - and M3 - receptors produce following effects

- [P] Decreased heart rate
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(c) Q and S (d) Q and R

+1 10. Antidote of atropine is

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(c) Physostigmine (d) None of above

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+1 15. Patients who have received MAO inhibitors may experience severe hypertensive crisis if they ingest

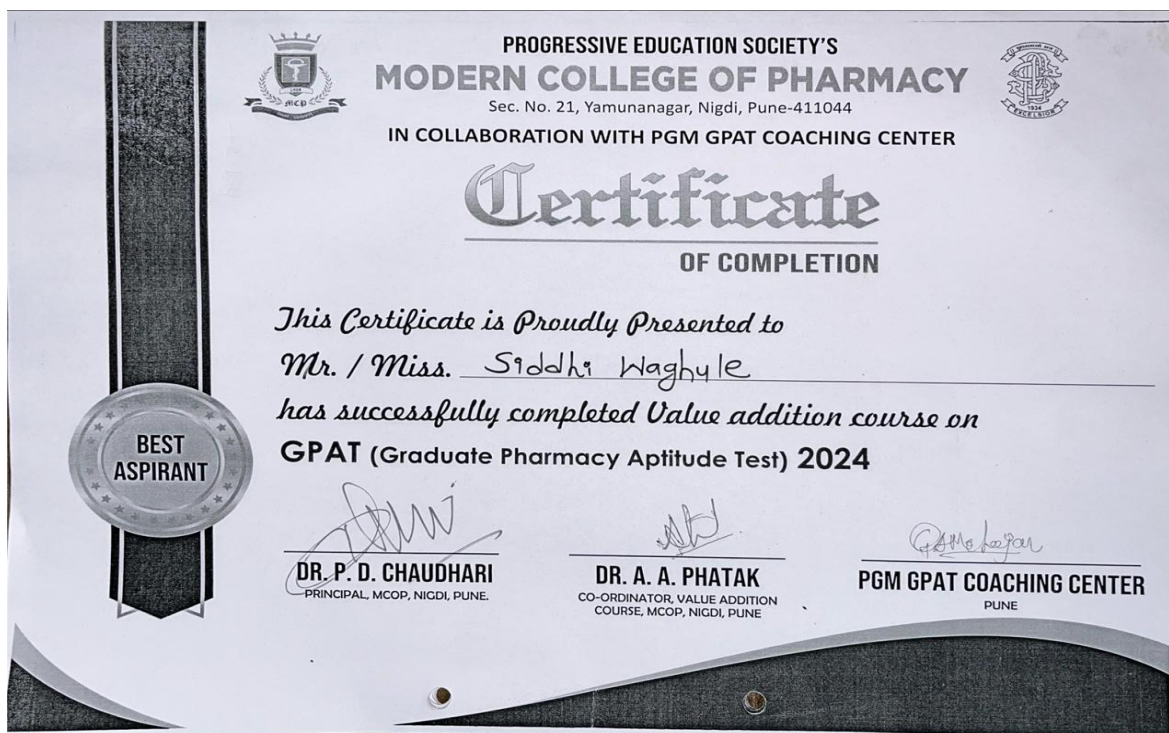
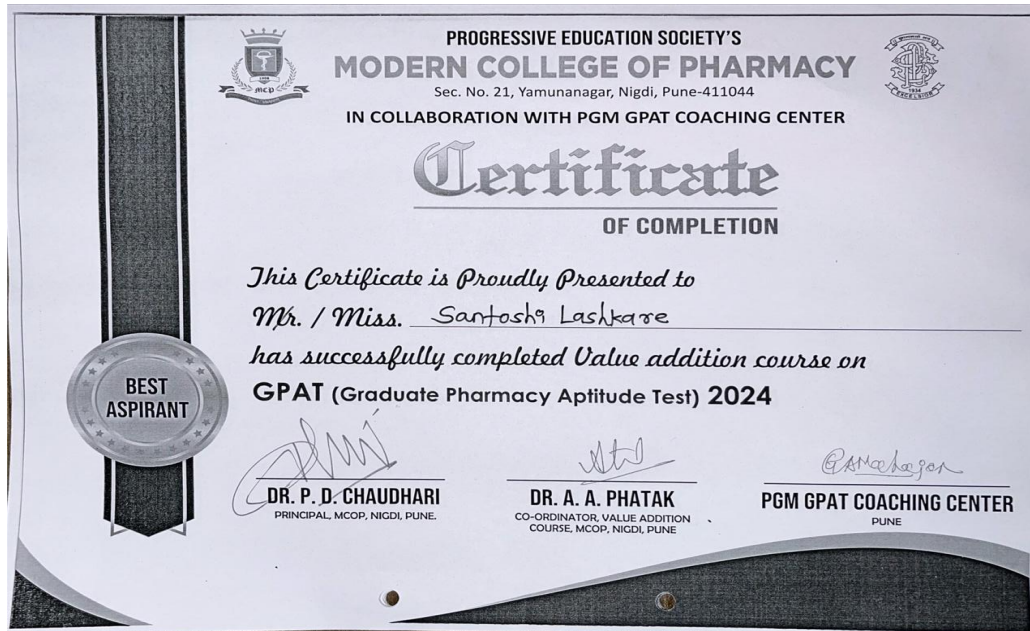
- (a) Cheese (b) Beer (c) Fish (d) All of the above

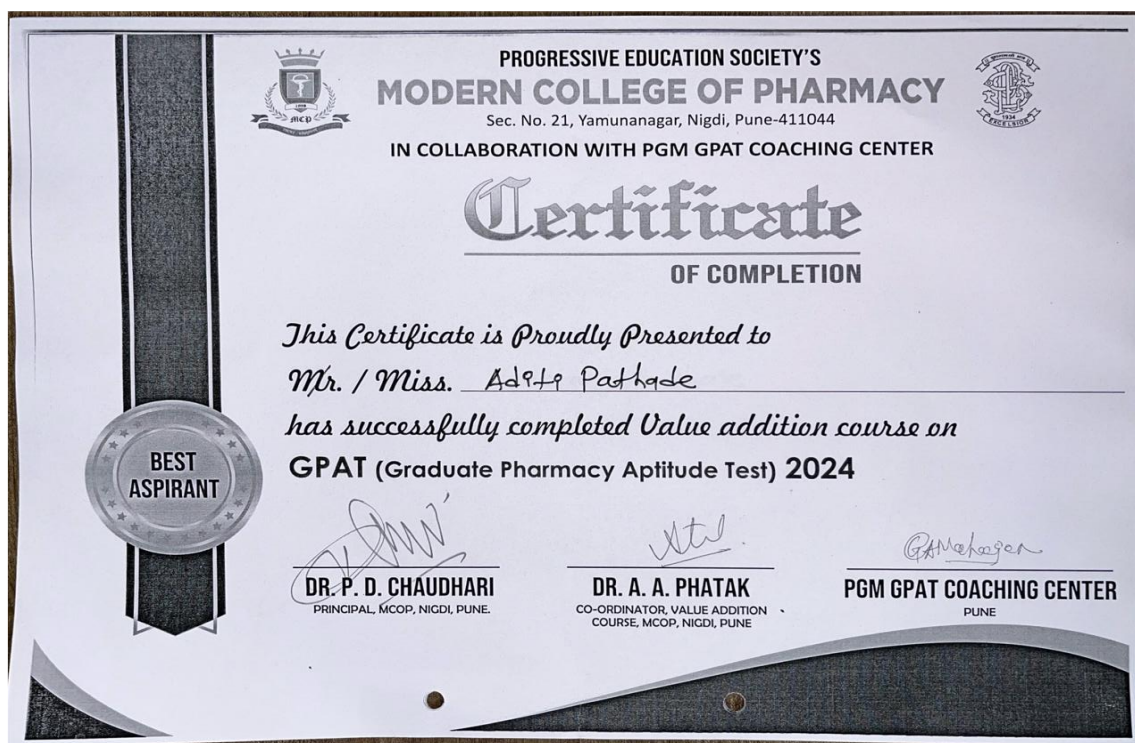
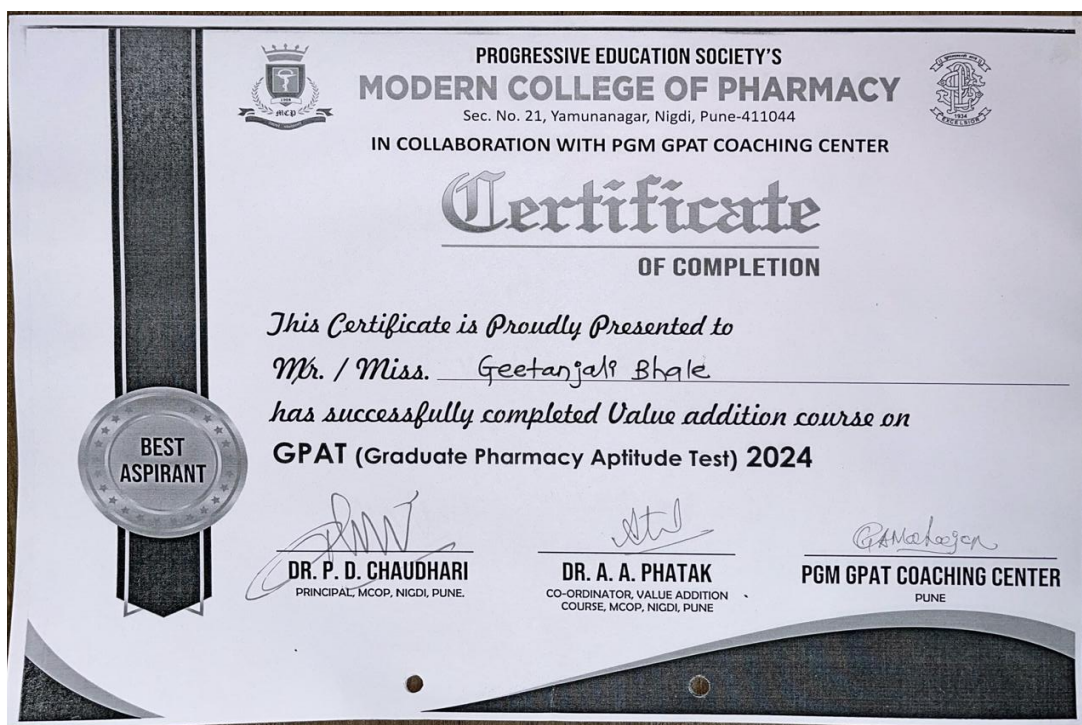
-1 16. Following are the GABA-A receptor agonists:

- [P] Muscimol [Q] Gaboxadol
[R] Gabazine [S] Flumazenil
(a) P and Q (b) Q and R (c) P and R (d) Q and S



Certificate of PGM GPAT class







Brochure of HPLC Analytical method development and validation

**Progressive Education Society's
Modern College of Pharmacy
Nigdi Pune**

**Department of Pharmaceutical Quality Assurance
Organises**

**HANDS ON COURSE ON
"HPLC ANALYTICAL METHOD DEVELOPMENT & VALIDATION"**
IN COLLABORATION WITH ANUVA PHARMA TRAINING & EDUCATION INSTITUTE, PUNE.

High Performance Liquid Chromatography is a powerful analytical tool. We offer HPLC training courses which will give you all the skills needed to master the HPLC instrument.

Who is this course for?
HPLC training is for any person (Pharmacy Student's) who is looking to improve their laboratory skills or learn how to master the HPLC instrument. You can take the most out of this training and have plenty of time to adapt to the instrument.

Course Description
This course covers all the HPLC basics, understanding of method development and validation procedure essential for ensuring effective chromatographic techniques. The course covers solvents & buffers (the mobile phase), pumps, isocratic and gradient elution, sample introduction, analytical columns, HPLC detectors and teaches strategies for troubleshooting an HPLC instrument.

Duration:
The course is typically conducted over 40 hrs, with a blend of interactive discussions, and hands-on laboratory sessions.

Course Outcome:
On completion of this training course you will be able to:

- 1) Understand the principles and fundamentals of HPLC technique.
- 2) Master in the selection and optimization of chromatographic conditions, sample preparation, validation parameters according to regulatory guidelines.
- 3) Troubleshoot common issues encountered during method development and validation.

Interpret and analyze HPLC data accurately.

Points to be covered in training:

1. HPLC Introduction. (2 Hrs)
2. HPLC Operation /Hands on Training. (23 Hrs)
 - a) Mobile phase Preparation.
 - b) Standard Preparation.
 - c) HPLC Operation.
 - d) Processing method.
 - e) Integrations.
 - f) Calculation.
3. Software Operating.
4. HPLC Trouble shooting. (4 Hrs)
5. HPLC Calibration. (4 Hrs)
6. Calculation.
7. Analytical method Development (3.5 Hrs)
8. Validation (3.5 Hrs)

-Eligibility-
FY M.PHARM (PQA & Pharm. Chemistry)

Course Fee :- 500/- Rs Only


Last Date Of Registration
1st March 2024


- Course Co-ordinators -
1. Dr. K. S. Shaikh (9881865610)
2. Ms. A. V. Malusare (9011325144)

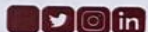


Please register by using following link
<https://forms.gle/45h67en7BjzaJPwL9>

Director
Mr. Atul Sawant
(Anuva Pharma training and education institute Pune)

Principal
Dr. P. D. Chaudhari
PES's Modern College Of Pharmacy
Nigdi, Pune 411044





 / mcpnigdi  www.mcop.org.in  / modernpharmacynigdi



List of students of HPLC Analytical method development and validation



Progressive Education Society's
MODERN COLLEGE OF PHARMACY
 Accredited by 'NAAC'
 'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
 Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
 Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)

Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314

E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in

Prof. Dr. P. D. Chaudhari
 M.Pharm., Ph.D.
 Principal

Prof. Dr. Gajanan R. Ekbote
 M.S., M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune

2023-24

Name of Course: HPLC Analytical method development and validation

Date: 09/03/2024 - 28/04/2024

Course Duration: 40 hrs

Course Code: NA

List of Students

Sr. No	Name of Student
1	Aishwarya Sunil Pandit
2	Yogita Ganpat Dighe
3	Nagesh Wadikar
4	Sakshi Dhamal
5	Sanket Rajendra Bora
6	Hardika Patel
7	Smita Madhav Warade
8	Nikita Satyawar salunke
9	Shweta Rajendra Jagtap
10	Nitin Sham Pawar
11	Vedika Narendrasing Salame
12	Mukund Appasaheb Salunke
13	Satyajit Ram Phalake
14	Sargar Lalit Rajaram
15	Shejal Kailas Wakade
16	Anuja Haridas Pachphule
17	Tushar Kshirsagar
18	Pradnya Rajesh Waman
19	Suraj Rajendra Lobhe
20	Dhanashree Santosh Rathi
21	Pratiksha Laxman Raut
22	Varsha Sunil Pawar
23	Damini Pradeep Shinde
24	Rutuja Satish Sonawane
25	Komal Jotiram Doifode
26	Hemant Vijay Bhoi



(Signature)



Curriculum of HPLC Analytical method development and validation

Report on Hands-on Course in HPLC Analytical Method Development and Validation

Conducted by: QA Department of PES Modern College of Pharmacy, Nigdi in collaboration with Anuva Pharma.

Participants: F.Y and S.Y M. Pharm Students (Total-26)

Duration: 9th March 2024 – 28th April 2024 (40 hrs.)

Schedule: Saturday and Sunday

Training Faculty: Mr. Atul Sawant (Director, Anuva Pharma Training and Education Institute)

Course Overview

This hands-on training course aimed to provide F.Y and S.Y M.Pharm students with practical experience in High-Performance Liquid Chromatography (HPLC), covering essential skills in analytical method development and validation for pharmaceutical applications.

Learning Objectives

1. **Understand HPLC Principles**
 - Grasp fundamental concepts, including separation techniques, system components, and chromatographic conditions.
2. **Gain Practical Skills in HPLC Operation**
 - Acquire hands-on skills in system setup, sample preparation, and operation of the HPLC instrument.
3. **Develop Analytical Method Competency**
 - Learn to develop and optimize HPLC methods, including selection of mobile phases, columns, and other method parameters.
4. **Master Data Integration and Analysis**
 - Understand techniques for integrating chromatographic data, identifying peaks, and quantifying analytes accurately.
5. **Learn Validation Procedures**
 - Understand validation parameters such as accuracy, precision, specificity, and robustness and learn how to apply them to method validation.
6. **Perform Calibration and Troubleshooting**





- o Gain skills in calibrating HPLC instruments and troubleshooting common issues to ensure accuracy and reliability of results.

Training Schedule and Content (40 hrs.)

1. 9th March 2024 (4 hrs.) - Introduction to HPLC

- Overview of HPLC principles, separation mechanisms, detectors, and column selection.

2. 10th March 2024 (7 hrs.) - Hands-on Training of HPLC

- Practical exposure to system setup and HPLC operation, including basic data analysis.

3. 23rd March 2024 (3 hrs.) - Sample Preparation and Training

- Training on maintaining sample integrity through proper sample preparation methods.

4. 6th April 2024 (3 hrs.) - Individual HPLC Training with Sample Preparation

- One-on-one guidance for independent operation, focusing on sample handling and method precision.

5. 7th April 2024 (7 hrs.) - Doubt Clearance

- Open session to address any questions on HPLC operation, data handling, and troubleshooting.

6. 13th April 2024 (3 hrs.) - Integration of Data

- Techniques for chromatogram analysis, peak identification, and quantification.

7. 14th April 2024 and 27th April 2024 (10 hrs.) - Analytical Method Validation

- Training on method validation parameters and documentation standards for regulatory compliance.

8. 28th April 2024 (7 hrs.) - Calibration of HPLC and Troubleshooting

- Calibration techniques and troubleshooting strategies for reliable data generation.

9. 4th May 2024 - HPLC Course Exam

- This session marked the culmination of the training program, where participants underwent a comprehensive exam designed to evaluate their theoretical understanding and practical proficiency in HPLC.

10. 20th July 2024 - Certificate Distribution

- After successfully completing the course and passing the exam, participants will be awarded certificates of completion during a formal distribution ceremony.





Learning Outcomes

By the end of the course, participants:

1. Gained a Comprehensive Understanding of HPLC Principles

- Students demonstrated a solid grasp of HPLC fundamentals, system components, and separation mechanisms.

2. Acquired Proficiency in HPLC System Operation

- Participants successfully set up and operated the HPLC instrument, handling samples and performing data acquisition independently.

3. Developed Method Optimization Skills

- Students learned to adjust chromatographic conditions effectively to develop robust analytical methods.

4. Enhanced Data Interpretation Skills

- Participants became proficient in analyzing chromatograms, accurately identifying and quantifying peaks.

5. Achieved Competence in Method Validation

- Students completed validation exercises, ensuring methods met accuracy, precision, and other regulatory standards.

6. Mastered Calibration and Troubleshooting

- Participants demonstrated the ability to calibrate the HPLC system and troubleshoot common operational issues effectively.






Summary of HPLC Analytical method development and validation


20/07/2024: Certificate Distribution

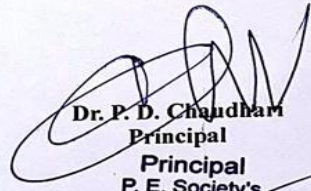


Conclusion

This comprehensive training course equipped students with essential skills in HPLC analytical method development and validation, bridging theoretical knowledge with practical experience. The QA department, in collaboration with Anuva Pharma, provided an invaluable opportunity for students to enhance their competencies, preparing them for future roles in pharmaceutical analysis and quality assurance.


Ms. A. V. Malusare
Course Co-ordinator


Dr. K. S. Shaikh
Course Co-ordinator


Dr. P. D. Chaudham
Principal
P. E. Society's
Modern College of Pharmacy
Yamunanagar Sector No. 21
Nigdi, Pune - 411044





Attendance of HPLC Analytical method development and validation



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 9/3/2024

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	
2.	Yogita Ganpat Dighe	8459493397	
3.	Nagesh Wadikar	6360985873	
4.	Sakshi Dhamal	7666856486	
5.	Sanket Rajendra Bora	7972504988	
6.	Hardika Patel	9168975751	
7.	Smita Madhav Warade	8600069586	
8.	Nikita Satyawar salunke	9011558104	
9.	Shweta Rajendra Jagtap	8637780559	
10.	Nitin Sham Pawar	8552806017	
11.	Vedika Narendrasing Salame	8788260845	
12.	Mukund Appasaheb Salunke	9307400542	
13.	Satyajit Ram Phalake	9527021081	
14.	Sargar Lalit Rajaram	9552012054	
15.	Shejal Kailas Wakade	9423802972	
16.	Anuja Haridas Pachphule	7767889150	
17.	Tushar Kshirsagar	9527542506	
18.	Pradnya Rajesh Waman	8421391074	
19.	Suraj Rajendra Lobhe	7264949691	
20.	Dhanashree Santosh Rathi	8605204917	
21.	Pratiksha Laxman Raut	7448005083	
22.	Varsha Sunil Pawar	9607454496	
23.	Damini Pradeep Shinde	8308008759	
24.	Rutuja Satish Sonawane	8007486864	
25.	Komal Jotiram Doifode	7821970873	
26.	Hemant Vijay Bhoi	7498292330	



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 10/3/2024

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	
2.	Yogita Ganpat Dighe	8459493397	
3.	Nagesh Wadikar	6360985873	
4.	Sakshi Dhamal	7666856486	
5.	Sanket Rajendra Bora	7972504988	
6.	Hardika Patel	9168975751	
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8.	Nikita Satyawar salunke	9011558104	
9.	Shweta Rajendra Jagtap	8637780559	
10.	Nitin Sham Pawar	8552806017	
11.	Vedika Narendrasing Salame	8788260845	
12.	Mukund Appasaheb Salunke	9307400542	
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16.	Anuja Haridas Pachphule	7767889150	
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18.	Pradnya Rajesh Waman	8421391074	
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21.	Pratiksha Laxman Raut	7448005083	
22.	Varsha Sunil Pawar	9607454496	
23.	Damini Pradeep Shinde	8308008759	
24.	Rutuja Satish Sonawane	8007486864	
25.	Komal Jotiram Doifode	7821970873	
26.	Hemant Vijay Bhoi	7498292330	



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 23/3/24

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	<i>[Signature]</i>
2.	Yogita Ganpat Dighe	8459493397	<i>[Signature]</i>
3.	Nagesh Wadikar	6360985873	<i>[Signature]</i>
4.	Sakshi Dhamal	7666856486	<i>[Signature]</i>
5.	Sanket Rajendra Bora	7972504988	
6.	Hardika Patel	9168975751	<i>[Signature]</i>
7.	Smita Madhav Warade	8600069586	<i>[Signature]</i>
8.	Nikita Satyawar salunke	9011558104	<i>[Signature]</i>
9.	Shweta Rajendra Jagtap	8637780559	<i>[Signature]</i>
10.	Nitin Sham Pawar	8552806017	<i>[Signature]</i>
11.	Vedika Narendrasing Salame	8788260845	<i>[Signature]</i>
12.	Mukund Appasaheb Salunke	9307400542	<i>[Signature]</i>
13.	Satyajit Ram Phalake	9527021081	<i>[Signature]</i>
14.	Sargar Lalit Rajaram	9552012054	
15.	Shejal Kailas Wakade	9423802972	<i>[Signature]</i>
16.	Anuja Haridas Pachphule	7767889150	<i>[Signature]</i>
17.	Tushar Kshirsagar	9527542506	
18.	Pradnya Rajesh Waman	8421391074	<i>[Signature]</i>
19.	Suraj Rajendra Lobhe	7264949691	<i>[Signature]</i>
20.	Dhanashree Santosh Rathi	8605204917	
21.	Pratiksha Laxman Raut	7448005083	
22.	Varsha Sunil Pawar	9607454496	
23.	Damini Pradeep Shinde	8308008759	
24.	Rutuja Satish Sonawane	8007486864	
25.	Komal Jotiram Doifode	7821970873	<i>[Signature]</i>
26.	Hemant Vijay Bhoi	7498292330	<i>[Signature]</i>



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 6/4/24

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	<i>Aishwarya</i>
2.	Yogita Ganpat Dighe	8459493397	<i>Yogita</i>
3.	Nagesh Wadikar	6360985873	<i>Nagesh</i>
4.	Sakshi Dhamal	7666856486	<i>Sakshi</i>
5.	Sanket Rajendra Bora	7972504988	<i>Sanket</i>
6.	Hardika Patel	9168975751	<i>Hardika</i>
7.	Smita Madhav Warade	8600069586	<i>Smita</i>
8.	Nikita Satyawar salunke	9011558104	<i>Nikita</i>
9.	Shweta Rajendra Jagtap	8637780559	<i>Shweta</i>
10.	Nitin Sham Pawar	8552806017	<i>Nitin</i>
11.	Vedika Narendrasing Salame	8788260845	<i>Vedika</i>
12.	Mukund Appasaheb Salunke	9307400542	<i>Mukund</i>
13.	Satyajit Ram Phalake	9527021081	<i>Satyajit</i>
14.	Sargar Lalit Rajaram	9552012054	<i>Sargar</i>
15.	Shejal Kailas Wakade	9423802972	<i>Shejal</i>
16.	Anuja Haridas Pachphule	7767889150	<i>Anuja</i>
17.	Tushar Kshirsagar	9527542506	<i>Tushar</i>
18.	Pradnya Rajesh Waman	8421391074	<i>Pradnya</i>
19.	Suraj Rajendra Lobhe	7264949691	<i>Suraj</i>
20.	Dhanashree Santosh Rathi	8605204917	<i>Dhanashree</i>
21.	Pratiksha Laxman Raut	7448005083	<i>Pratiksha</i>
22.	Varsha Sunil Pawar	9607454496	<i>Varsha</i>
23.	Damini Pradeep Shinde	8308008759	<i>Damini</i>
24.	Rutuja Satish Sonawane	8007486864	<i>Rutuja</i>
25.	Komal Jotiram Doifode	7821970873	<i>Komal</i>
26.	Hemant Vijay Bhoi	7498292330	<i>Hemant</i>



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 7/4/24

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	
2.	Yogita Ganpat Dighe	8459493397	
3.	Nagesh Wadikar	6360985873	
4.	Sakshi Dhamal	7666856486	
5.	Sanket Rajendra Bora	7972504988	
6.	Hardika Patel	9168975751	
7.	Smita Madhav Warade	8600069586	
8.	Nikita Satyawar salunke	9011558104	
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10.	Nitin Sham Pawar	8552806017	
11.	Vedika Narendrasing Salame	8788260845	
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19.	Suraj Rajendra Lobhe	7264949691	
20.	Dhanashree Santosh Rathi	8605204917	
21.	Pratiksha Laxman Raut	7448005083	
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25.	Komal Jotiram Doifode	7821970873	
26.	Hemant Vijay Bhoi	7498292330	



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 13/4/24

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	
2.	Yogita Ganpat Dighe	8459493397	
3.	Nagesh Wadikar	6360985873	
4.	Sakshi Dhamal	7666856486	
5.	Sanket Rajendra Bora	7972504988	
6.	Hardika Patel	9168975751	
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25.	Komal Jotiram Doifode	7821970873	
26.	Hemant Vijay Bhoi	7498292330	



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 14/4/24

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	
2.	Yogita Ganpat Dighe	8459493397	
3.	Nagesh Wadikar	6360985873	
4.	Sakshi Dhamal	7666856486	
5.	Sanket Rajendra Bora	7972504988	
6.	Hardika Patel	9168975751	
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26.	Hemant Vijay Bhoi	7498292330	



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 27/4/24

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	
2.	Yogita Ganpat Dighe	8459493397	
3.	Nagesh Wadikar	6360985873	
4.	Sakshi Dhamal	7666856486	
5.	Sanket Rajendra Bora	7972504988	
6.	Hardika Patel	9168975751	
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26.	Hemant Vijay Bhoi	7498292330	



P. E. Society's Modern College of Pharmacy Nigdi-44

HPLC Analytical and Method Development Course

Attendance Sheet

Date: 28/4/24

Sr. No.	Name of Student	Contact No.	Sign of Student
1.	Aishwarya Sunil Pandit	7588240530	
2.	Yogita Ganpat Dighe	8459493397	
3.	Nagesh Wadikar	6360985873	
4.	Sakshi Dhamal	7666856486	
5.	Sanket Rajendra Bora	7972504988	
6.	Hardika Patel	9168975751	
7.	Smita Madhav Warade	8600069586	
8.	Nikita Satyawar salunke	9011558104	
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12.	Mukund Appasaheb Salunke	9307400542	
13.	Satyajit Ram Phalake	9527021081	
14.	Sargar Lalit Rajaram	9552012054	
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23.	Damini Pradeep Shinde	8308008759	
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26.	Hemant Vijay Bhoi	7498292330	



Assessment of HPLC Analytical method development and validation



P. E. Society's Modern College of Pharmacy Nigdi-44


HPLC Analytical and Method Development Course

Exam Marks Sheet

Date: 4/5/24


Sr. No.	Name of Student	Contact No.	Marks obtained
1.	Aishwarya Sunil Pandit	7588240530	36
2.	Yogita Ganpat Dighe	8459493397	32
3.	Nagesh Wadikar	6360985873	36
4.	Sakshi Dhamal	7666856486	39
5.	Sanket Rajendra Bora	7972504988	36
6.	Hardika Patel	9168975751	37
7.	Smita Madhav Warade	8600069586	40
8.	Nikita Satyawan Salunke	9011558104	34
9.	Shweta Rajendra Jagtap	8637780559	28
10.	Nitin Sham Pawar	8552806017	32
11.	Vedika Narendrasing Salame	8788260845	-
12.	Mukund Appasaheb Salunke	9307400542	33
13.	Satyajit Ram Phalake	9527021081	29
14.	Sargar Lalit Rajaram	9552012054	32
15.	Shejal Kailas Wakade	9423802972	33
16.	Anuja Haridas Pachphule	7767889150	34
17.	Tushar Kshirsagar	9527542506	31
18.	Pradnya Rajesh Waman	8421391074	35
19.	Suraj Rajendra Lobhe	7264949691	34
20.	Dhanashree Santosh Rathi	8605204917	37
21.	Pratiksha Laxman Raut	7448005083	42
22.	Varsha Sunil Pawar	9607454496	41
23.	Damini Pradeep Shinde	8308008759	48
24.	Rutuja Satish Sonawane	8007486864	48
25.	Komal Jotiram Doifode	7821970873	28
26.	Hemant Vijay Bhoj	7498292330	-






Principal
P. E. Society's
Modern College of Pharmacy
Yamunanagar Sector No. 21
Nigdi, Pune - 411044




Certificate of HPLC Analytical method development and validation

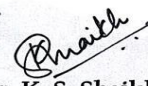
 **Progressive Education Society's**
Modern College of Pharmacy
Sector 21, Yamuna Nagar, Nigdi,
Pimpri-Chinchwad, Maharashtra 411044


 


CERTIFICATE OF COURSE COMPLETION







This is to certify that, Rathi.....Dhanashree.....Santosh.....
from Progressive Education Society's Modern College of Pharmacy, Nigdi,
Pune-44 has successfully completed hands on course on "HPLC Analytical
Method Development and Validation" from 9th March 2024 to 28th April 2024
organized by Progressive Education Society's Modern College of Pharmacy,
Nigdi, Pune -44 in collaboration with Anuva Pharma Training and Education
Institute, Pune.




Dr. K. S. Shaikh
Course Co-Ordinator
Prof. & Head, Dept of Pharmaceutical Quality Assurance
Modern College of Pharmacy


Dr. P. D. Chaudhari
Principal
Modern College of Pharmacy



Mr. Atul Sawant
Director
Anuva Pharma Training and Education Institute

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 **Progressive Education Society's**
Modern College of Pharmacy
Sector 21, Yamuna Nagar, Nigdi,
Pimpri-Chinchwad, Maharashtra 411044

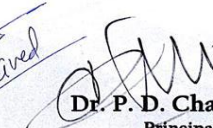
 


CERTIFICATE OF COURSE COMPLETION






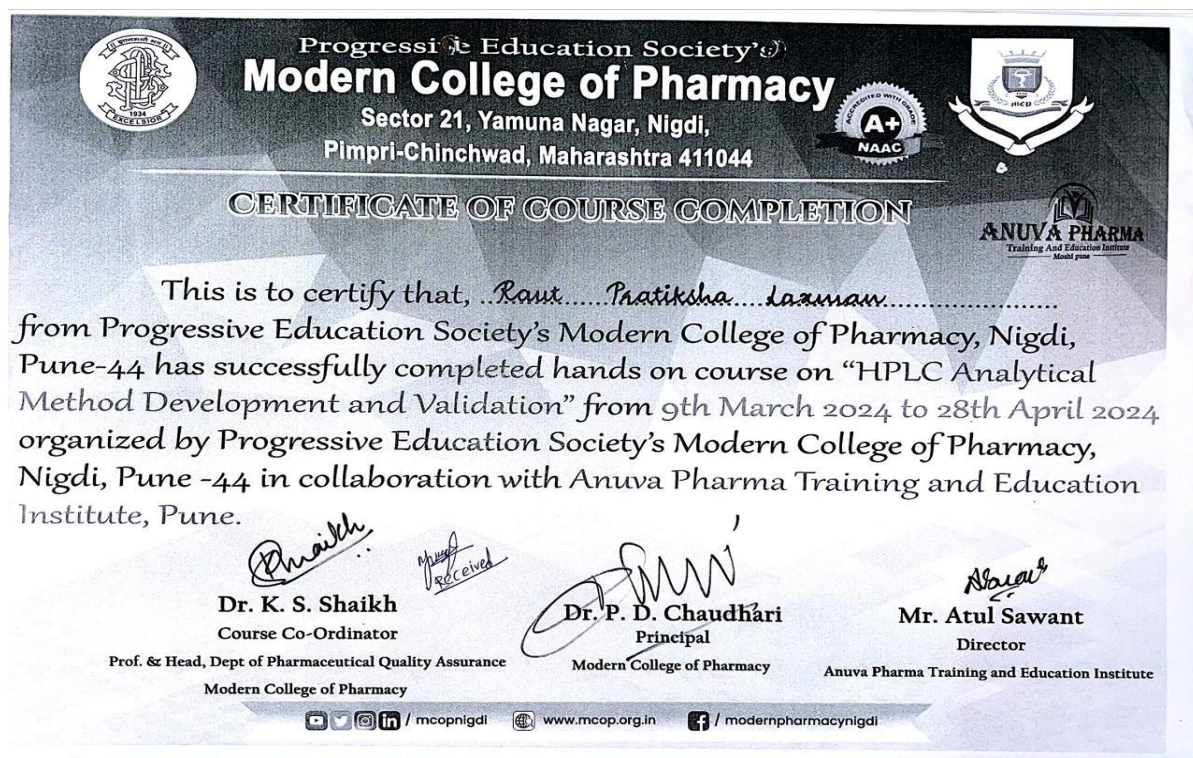
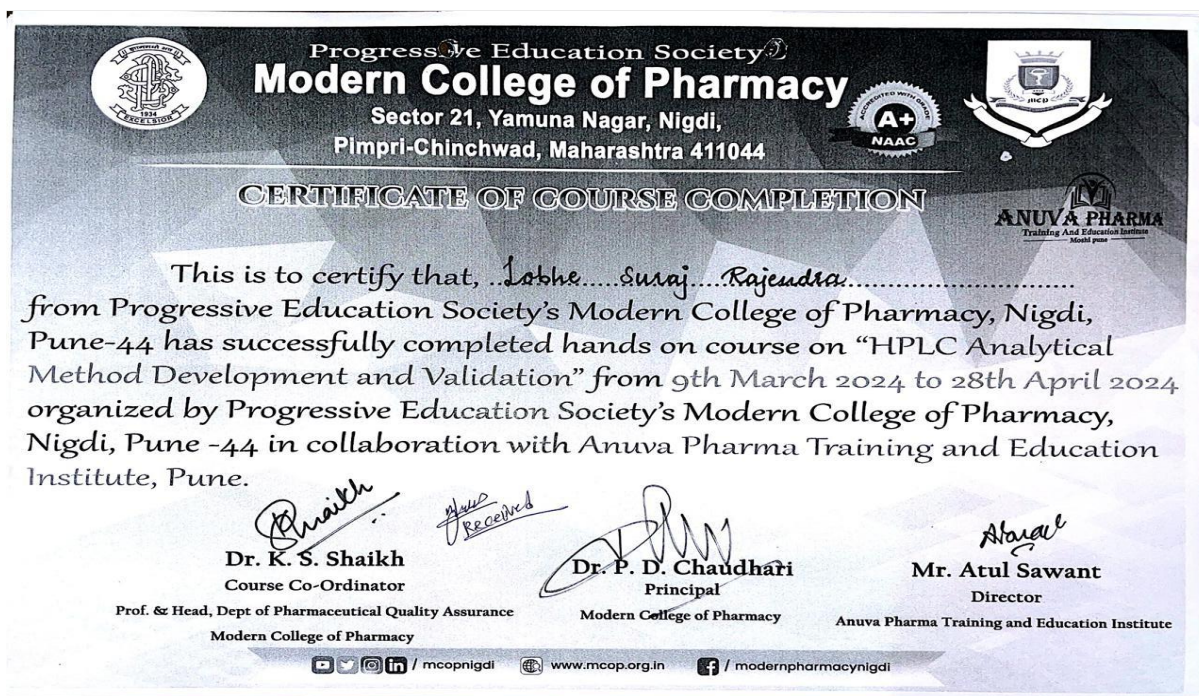
This is to certify that, Bora.....Sanket.....Rajendra.....
from Progressive Education Society's Modern College of Pharmacy, Nigdi,
Pune-44 has successfully completed hands on course on "HPLC Analytical
Method Development and Validation" from 9th March 2024 to 28th April 2024
organized by Progressive Education Society's Modern College of Pharmacy,
Nigdi, Pune -44 in collaboration with Anuva Pharma Training and Education
Institute, Pune.


Dr. K. S. Shaikh
Course Co-Ordinator
Prof. & Head, Dept of Pharmaceutical Quality Assurance
Modern College of Pharmacy


Dr. P. D. Chaudhari
Principal
Modern College of Pharmacy


Mr. Atul Sawant
Director
Anuva Pharma Training and Education Institute

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By Prof. T. Ravichandran | IIT Kanpur

Learners enrolled: 59107 | Exam registration: 19859

noc19-hs22-Enhancing Soft Skills and Personality



ABOUT THE COURSE:

The course aims to cause an enhanced awareness about the significance of soft skills in professional and inter-personal communications and facilitate an all-round development of personality. Hard or technical skills help securing a basic position in one's life and career. But only soft skills can ensure a person retain it, climb further, reach a pinnacle, achieve excellence, and derive fulfilment and supreme joy. Soft skills comprise pleasant and appealing personality traits as self-confidence, positive attitude, emotional intelligence, social grace, flexibility, friendliness and effective communication skills. The focus of this course is on interpersonal and management skills. It has been approved for "Faculty Development Programme (https://nptel.ac.in/AICTE_FDP/)" by AICTE.

INTENDED AUDIENCE : Students, Teachers, Professionals, Trainers, Leaders, Employers

PREREQUISITES : No prerequisite is required. Background knowledge of MOOC Course on "Developing Soft Skills and Personality" is preferred. "Developing Soft Skills and Personality" course was also recognized as FDP during Aug-Oct'18 Period.

INDUSTRY SUPPORT : All industry/companies/organisations will recognize and value this course and recommend this for their employees and trainee programs

Summary



Course Status :	 (https://swayam.gov.in/) Completed  (https://swayam.gov.in/nc_details/NPTEL)
Course Type :	Elective
Language for course content :	English All Courses 0
Duration :	8 weeks
Category :	◦ Humanities and Social Sciences
Credit Points :	2
Level :	Undergraduate/Postgraduate
Start Date :	19 Feb 2024
End Date :	12 Apr 2024
Enrollment Ends :	19 Feb 2024
Exam Registration Ends :	15 Mar 2024
Exam Date :	20 Apr 2024 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

[\(/#facebook\)](#) [\(/#x\)](#) [\(/#microsoft_teams\)](#) [\(/#linkedin\)](#) [\(/#whatsapp\)](#)

[\(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnc24_hs26%2Fpreview&title=Enhancing%20Soft%20Skills%20and%20Personality%20-%20Course\)](https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnc24_hs26%2Fpreview&title=Enhancing%20Soft%20Skills%20and%20Personality%20-%20Course)

Course layout

Week 1 :

- Highlights of Developing Soft Skills and Personality Course-1-24
- Highlights of Developing Soft Skills and Personality Course-25-48
- Definitions and Types of Mindset
- Learning Mindsets
- Secrets of Developing Growth Mindsets

Week 2 :


- Importance of Time and Understanding Perceptions of Time
- Using Time Efficiently
- Understanding Procrastination
- Overcoming Procrastination
- Don't Say "Yes" to Make Others Happy!


Week 3 :

- Types of People
- How to Say "No"
- Controlling Anger
- Gaining Power from Positive Thinking-1



List of students of NPTEL Course on Enhancing Soft Skills and Personality

 **Progressive Education Society's**
MODERN COLLEGE OF PHARMACY
Accredited by 'NAAC'
'Best College Award' by Savitribai Phule Pune University



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Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)

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Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

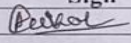
Prof. Dr. Gajanan R. Ekbote
M.S, M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune


2023-24

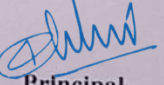
Name of Course: NPTEL on Enhancing Soft Skills and Personality
Date: Feb-Apr 2024
Course Code: noc24-ge21

Course Duration: 8 Week

List of Students

Sr. No	Name of Student	Sign
1	ANIKET SHIVAJI ULMULE	


Course Co-ordinator
Dr. A. R. Kumbhar


Principal
Dr. P. D. Chaudhari

Page 1 of 1



Curriculum and Summary of NPTEL Course on Enhancing Soft Skills and Personality

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	8 weeks
Category :	Humanities and Social Sciences
Credit Points :	2
Level :	Undergraduate/Postgraduate
Start Date :	19 Feb 2024
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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc24_hs26%2Fpreview&title=Enhancing%20Soft%20Skills%20and%20Personality%20-%20Course)

Course layout

Week 1 :

- Highlights of Developing Soft Skills and Personality Course-1-24
- Highlights of Developing Soft Skills and Personality Course-25-48
- Definitions and Types of Mindset
- Learning Mindsets
- Secrets of Developing Growth Mindsets



Week 2 :

- Importance of Time and Understanding Perceptions of Time
- Using Time Efficiently
- Understanding Procrastination
- Overcoming Procrastination
- Don't Say "Yes" to Make Others Happy!

Week 3 :

- Types of People
- How to Say "No"
- Controlling Anger
- Gaining Power from Positive Thinking-1



- Gaining Power from F
- Week 4 :**  (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)
- What Makes Others Like You?1
 - What Makes Others Like You?2
 - Being Attractive-1
 - Being Attractive-2
- Week 5 :**
- Common Errors-1
 - Common Errors-2
 - Common Errors-3
 - Common Errors-4
 - Common Errors-5
- Week 6 :**
- Humour in Communication
 - Humour in the Workplace
 - Function of Humour in the Workplace
 - Money and Personality
 - Managing Money
- Week 7 :**
- Health and Personality
 - Managing Health-1: Importance of Exercise
 - Managing Health-2: Diet and Sleep
 - Love and Personality
 - Managing Love
- Week 8 :**
- Ethics and Etiquette
 - Business Etiquette
 - Managing Mind and Memory
 - Improving Memory
 - Care for Environment
 - Highlights of the Course

Books and references

- Dorch, Patricia. What Are Soft Skills? New York: Execu Dress Publisher, 2013.
- Kamin, Maxine. Soft Skills Revolution: A Guide for Connecting with Compassion for Trainers, Teams, and Leaders. Washington, DC: Pfeiffer & Company, 2013.
- Klaus, Peggy, Jane Rohman & Molly Hamaker. The Hard Truth about Soft Skills. London: HarperCollins E-books, 2007.
- Petes S. J., Francis. Soft Skills and Professional Communication. New Delhi: Tata McGraw-Hill Education, 2011.
- Stein, Steven J. & Howard E. Book. The EQ Edge: Emotional Intelligence and Your Success. Canada: Wiley & Sons, 2006.

Instructor bio





Attendance of NPTEL Course on Enhancing Soft Skills and Personality

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as SWAYAM - NPTEL Local Chapter.

Anytime Anywhere Learning

Massive Open Online Courses (MOOC) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self-assessment in regular intervals during learning.

The enrolment to and learning from these courses involves no cost.

Following these online courses, an in-person, proctored certification exam is conducted across 100+ cities within India and a certificate is provided through the participating institutions and industry, when applicable.

As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of NPTEL Course on Enhancing Soft Skills and Personality



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M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on Enhancing Soft Skills and Personality

Date: Feb-Apr 2024

Course Code: noc24-ge21

Course Duration: 8 Week

List of Students

Sr. No	Name of Student	Examination %
1	ANIKET SHIVAJI ULMULE	65

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL Course on Enhancing Soft Skills and Personality



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ANIKET SHIVAJI URMULE

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **65** %

Online Assignments	19.5/25	Proctored Exam	45.75/75
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Total number of candidates certified in this course: **12566**

Prof. B. V. Ratish Kumar

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2024

(8 week course)

Prof. Satyaki Roy

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS26S465202252

To verify the certificate



No. of credits recommended: 2 or 3



Brochure of NPTEL Course on Research Methodology



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

X

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Home (<https://swayam.gov.in>) > Courses (<https://swayam.gov.in/explorer>) >

Research Methodology

By Prof. Edamana Prasad, Prof. Prathap Haridoss | IIT Madras

Learners enrolled: 15038 | Exam registration: 4909

Introduction to Research



ABOUT THE COURSE:

Large numbers of students are actively considering and taking up research and associated higher studies. This course aims to introduce students to the important aspects of research. The intent of the course is to make students aware of the details associated with formal research and to help students overcome common misconceptions that may be present in their minds. By going through this course, students are likely to be able to take up research activities in a more systematic and formal manner right from the beginning.



List of students of NPTEL Course on Research Methodology

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PrincipalProf. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on Research Methodology

Date: Aug-Oct 23

Course Code: noc24-ge21

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Sign
01	PATHAN ADIL MUKHTAR	Adil
02	ADITYA DEVENDRA CHONDE	Aditya
03	AISHWARYA SUNIL PANDIT	Aishwarya
04	AJAY PRAKASH PATANGE	Ajay
05	AKANKSHA VIJAY PATIL	AKANKSHA
06	ANUSHKA KALE	Anushka
07	BHAND NITIN MACHHINDRA	NBhand
08	SHUBHAM SHARAD DESHPANDE	Shubham
09	DHANASHREE SANTOSH RATHI	Dhanashree
10	YOGITA GANPAT DIGHE	Yogita
11	DIVYA MADHUKAR DHAMANKAR	Divya
12	GANESH DESAI	Ganesh
13	GEETANJALI PANDURANG MORE	Geeta
14	HARSHAL RAJESH PATIL	H. Patil
15	KALYANI SHANTARAM GHOTEKAR	Kalyani
16	KRISHNA HALNE	KRISHNA
17	SARGAR LALIT RAJARAM	SRajaram
18	JAGTAP SHWETA RAJENDRA	SHWETA
19	MONIKA VASANT RATHOD	Monika
20	POOJA BHARAT SALGAR	Pooja
21	PRATIKSHA LAXMAN RAUT	Pratiksha



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P.E.Society, Pune

Sr. No	Name of Student	Sign
22	SAKSHI RAJENDRA SONAWANE	S. Sonawane
23	SAMIKSHA SANJAY PATOKAR	S. Patokar
24	SAMPADA KUNDLIK RAKSHE	S. Rakshe
25	SAMRUDDHI GANESH INGLE	G. Ingle
26	SANKET RAJENDRA BORA	S. Bora
27	SHARVARI PRATAP SHENDAGE	S. Shendage
28	NEHA PRABHAKAR SHEGOKAR	N. Shegokar
29	SNEHA SATISH JADHAV	S. Jadhav
30	SWAPNIL SURESH TARATE	S. Tarate
31	VEDIKA NARENDRASING SALAME	V. Salame
32	WAKADE SHEJAL KAILAS	S. Wakade
33	VISHAL ANNASAHEB VARE	V. Vare
34	OMKAR DATTATRAY MAKEY	O. Makey

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari

Page 2 of 2



Curriculum of NPTEL Course on Research Methodology

Course layout



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

- Week 1** : A group discussion on what is research; Overview of research;
Week 2 : Literature survey , Experimental skills;
Week 3 : Data analysis, Modelling skills;
Week 4 : Technical writing; Technical Presentations; Creativity in Research
Week 5 : Creativity in Research; Group discussion on Ethics in Research
Week 6 : Design of Experiments
Week 7 : Intellectual Property
Week 8 : Department specific research discussions

0

Instructor bio



Prof. Edamana Prasad

E. PRASAD, Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai 600 036, INDIA Phone: ++91-44-2257 4232 ; Email: pre@iitm.ac.in

Educational Qualification: BSc., & MSc. From Calicut University, Kerala, India during 1990-1995; Ph.D. from NIIST, Thiruvananthapuram, Kerala, India in Photophysical Chemistry in 2000. Post Doctoral Research Experience: (2001 to 2006) Texas Tech University & Lehigh University, USA and University of Bonn, Germany (Alexander von Humboldt Fellow)

Professional Experience (11 years): Faculty at Department of Chemistry, IIT Madras since 2006; (8 years): Head, Teaching Learning Centre, IIT Madras; (6 years): Core team member, Teaching Learning Centre, IIT Madras (7+ years). Specialization and Expertise: Chemistry: Photophysical Chemistry, Design and Synthesis of organic and hydro gelators for various applications;

Education/Teaching: Designing Learning Outcomes for Courses, Conducting Classes using Active and Collaborative Learning Techniques.

Awards and Distinctions: AvH Fellowship (2002), Young Faculty Recognition Award (IIT Madras, 2011). Research Publications in Peer Reviewed Journals: 65. Conference Paper: Development of a Teaching Learning Centre and Ongoing Faculty Development Programs - A Case Study, Prasad Edamana, Ajith Kumar Kolar, Pramod S Mehta, Sujatha Srinivasan and Jeffrey Froyd, American Society for Engineering Education, USA, June, 2012.



Summary of NPTEL Course on Research Methodology



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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Prof. Prathap Haridoss

IIT Madras

Prof. Prathap Haridoss is a Professor in the Department of Metallurgical and Materials Engineering at IIT Madras. He works in the areas of Fuel Cell and Carbon nanomaterials. He has a B.Tech in Metallurgical Engineering from IIT Madras, and a PhD in Materials Science and Engineering from the University of Wisconsin-Madison, USA. Before he joined as a faculty at IIT Madras, he served as a Senior Scientist at Plug Power, a Fuel Cell company in New York. He has 3 US patents, several International Journal publications, and has published a book titled "Physics of Materials, Essential Concepts of Solid State Physics"

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **28 October 2023** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Madras. It will be e-verifiable at npTEL.ac.in/noc (<http://npTEL.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



Attendance of NPTEL Course on Research Methodology

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

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Prof. Dr. Gajanan R. Ekbote
 M.S., M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune

2023-24

Name of Course: NPTEL on Research Methodology

Date: Aug-Oct 23

Course Code: noc24-ge21

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Marks %
01	PATHAN ADIL MUKHTAR	76
02	ADITYA DEVENDRA CHONDE	78
03	AISHWARYA SUNIL PANDIT	61
04	AJAY PRAKASH PATANGE	71
05	AKANKSHA VIJAY PATIL	78
06	ANUSHKA KALE	63
07	BHAND NITIN MACHHINDRA	83
08	SHUBHAM SHARAD DESHPANDE	84
09	DHANASHREE SANTOSH RATHI	80
10	YOGITA GANPAT DIGHE	70
11	DIVYA MADHUKAR DHAMANKAR	78
12	GANESH DESAI	86
13	GEETANJALI PANDURANG MORE	69
14	HARSHAL RAJESH PATIL	63
15	KALYANI SHANTARAM GHOTEKAR	88
16	KRISHNA HALNE	57
17	SARGAR LALIT RAJARAM	75
18	JAGTAP SHWETA RAJENDRA	64
19	MONIKA VASANT RATHOD	52
20	POOJA BHARAT SALGAR	69



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Principal

Prof. Dr. Gajanan R. Ekbote
M.S, M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

Sr. No	Name of Student	Sign
21	PRATIKSHA LAXMAN RAUT	80
22	SAKSHI RAJENDRA SONAWANE	76
23	SAMIKSHA SANJAY PATOKAR	68
24	SAMPADA KUNDLIK RAKSHE	67
25	SAMRUDDHI GANESH INGLE	63
26	SANKET RAJENDRA BORA	70
27	SHARVARI PRATAP SHENDAGE	63
28	NEHA PRABHAKAR SHEGOKAR	86
29	SNEHA SATISH JADHAV	78
30	SWAPNIL SURESH TARATE	70
31	VEDIKA NARENDRASING SALAME	53
32	WAKADE SHEJAL KAILAS	71
33	VISHAL ANNASAHEB VARE	67
34	OMKAR DATTATRAY MAKEY	68

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL Course on Research Methodology



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to
PATHAN ADIL MUKHTAR
for successfully completing the course

Research Methodology

with a consolidated score of **76** %

Online Assignments	21.67/25	Proctored Exam	54.69/75
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Total number of candidates certified in this course: **3794**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Aug-Oct 2023
(8 week course)

Th

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23GE36S645103327

To verify the certificate



No. of credits recommended: 2 or 3



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to
ADITYA DEVENDRA CHONDE
for successfully completing the course

Research Methodology

with a consolidated score of **78** %

Online Assignments	21.67/25	Proctored Exam	56.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3794**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Aug-Oct 2023
(8 week course)

Th

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23GE36S645100714

To verify the certificate



No. of credits recommended: 2 or 3



Elite NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
AISHWARYA SUNIL PANDIT
for successfully completing the course

Research Methodology

with a consolidated score of **61** %

Online Assignments	17.08/25	Proctored Exam	43.5/75
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Total number of candidates certified in this course: **2928**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Feb-Apr 2024
(8 week course)

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24GE21S665203340

To verify the certificate



No. of credits recommended: 2 or 3



Elite NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
AJAY PRAKASH PATANGE
for successfully completing the course

Research Methodology

with a consolidated score of **71** %

Online Assignments	22.92/25	Proctored Exam	48.44/75
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Total number of candidates certified in this course: **3794**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Aug-Oct 2023
(8 week course)

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23GE36S645104535

To verify the certificate



No. of credits recommended: 2 or 3



Brochure of NPTEL Course on Medicinal Chemistry



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

X

About Swayam (<https://swayam.gov.in/about>) | All Courses | SIGN-IN / REGISTER ()

Home (<https://swayam.gov.in>) > Courses (<https://swayam.gov.in/explorer>) >

Medicinal Chemistry

By Prof. Harinath Chakrapani | IISER Pune

Learners enrolled: 3185 | Exam registration: 807

Introduction - Medicinal Chemistry





ABOUT THE COURSE :

The main objective of this course is to familiarize students with the fundamental concepts of drug discovery and development. The course is intended for students who have a background in chemistry and interested in the process of drug discovery. The intended outcome is to train students on various aspects of new drug discovery/development, drug screening, target identification, lead discovery, optimization and the molecular basis of drug design and drug action.

INTENDED AUDIENCE : Third year undergraduates of B.Sc. Chemistry; M.Sc. Chemistry students and doctoral students





PREREQUISITE : who has done basic organic chemistry and has some knowledge of biochemistry with an interest in drug discovery.  (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)

INDUSTRY SUPPORT : Professionals in the pharmaceutical sector may recognize and value this course.

About Swayam (<https://swayam.gov.in/about>) | All Courses |

0

Summary

Course Status :	Completed
Course Type :	Core
Language for course content :	English
Duration :	12 weeks
Category :	◦ Chemistry
Credit Points :	3
Level :	Undergraduate/Postgraduate
Start Date :	22 Jan 2024
End Date :	12 Apr 2024
Enrollment Ends :	05 Feb 2024
Exam Registration Ends :	16 Feb 2024
Exam Date :	27 Apr 2024 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(/ #microsoft_teams)

(/ #linkedin)

(/ #whatsapp)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc24_cy17%2Fpreview&title=Medicinal%20Chemistry%20-%20Course)

Course layout

Week 1 : An overview of drugs and drug targets; structure of a cell; intermolecular binding forces; classification of drugs.

Week 2 : Principles of enzyme structure, catalysis and inhibition in drug discovery; Enzyme mechanisms overview; catalysis and inhibition in drug discovery; reversible and irreversible inhibitors; transition-state inhibitors; case studies





List of students of NPTEL Course on Medicinal Chemistry

Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by 'NAAC' 'Best College Award' by Savitribai Phule Pune University		
Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi, Directorate of Technical Education, Mumbai (MS), Permanently affiliated to Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)		
Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314 E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in		
Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal		Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24		
Name of Course: NPTEL on Medicinal Chemistry		
Date: Jan-Apr 23		
Course Code: noc24-cy17		Course Duration: 12 Week
List of Students		
Sr. No	Name of Student	Sign
1	VAIBHAV MALI	<i>VAIBHAV MALI</i>
2	GAYATRI BHAGWAN JAGDALE	<i>GAYATRI BHAGWAN JAGDALE</i>
<i>A.R. Kumbhar</i> Course Co-ordinator Dr. A. R. Kumbhar		<i>P.D. Chaudhari</i> Principal Dr. P. D. Chaudhari
Page 1 of 1		

Curriculum of NPTEL Course on Medicinal Chemistry

- Week 3** : Principle of drug action; Structure, catalysis and inhibition in drug discovery: Enzyme mechanisms overview; enzyme catalysis and inhibition; Receptor function and ligand binding interactions; Ion channel receptors; kinase-linked receptors; G-Protein coupled receptors; drug-receptor interaction; dose-response curves; case studies
[About Swayam \(https://swayam.gov.in/about\)](https://swayam.gov.in/about) | All Courses | 0
- Week 4** : Receptors function and ligand binding interactions; Ion channel receptors; kinase-linked receptors; G-Protein coupled receptors; drug-receptor interaction; dose-response curves; case studies
- Week 5** : Nucleic acids structure and function; DNA Interactive agents and chemotherapy: DNA binding agents; intercalation and alkylation; DNA strand breakers; case studies
- Week 6** : Synthetic methods in medicinal chemistry: Combinatorial and parallel synthesis: solid phase techniques, mix and split method in combinatorial synthesis; dynamic combinatorial synthesis; solid phase synthesis; diversity-oriented synthesis.
- Week 7** : Lead discovery; Bioassays; drug targets; Lead Modification; optimization; pharmacophore; homologation; bioisostere; chain branching; Electronic effects; Lipophilicity; Structure-Activity Relationships; Quantitative-structure activity relationships (QSAR).
- Week 8** : Lead discovery; Bioassays; drug targets; Lead Modification; optimization; pharmacophore; homologation; bioisostere; chain branching; Electronic effects; Lipophilicity; Structure-Activity Relationships; Quantitative-structure activity relationships (QSAR).
- Week 9** : Drug metabolism and pharmacology: Analytical methods in metabolism; Phase I and Phase II transformations; Absorption, distribution, metabolism and excretion (ADME); bioavailability; pre-clinical and clinical development; therapeutic index and therapeutic window.
- Week 10** : Prodrugs and drug delivery systems: Use of prodrug systems; prodrugs for stability, solubility and slow release; overview of drug delivery
- Week 11** : Drug resistance mechanisms and synergism: Mechanisms of drug resistance; circumventing drug resistance; drug synergy
- Week 12** : Drug resistance mechanisms and synergism: Mechanisms of drug resistance; circumventing drug resistance; drug synergy

Books and references

An Introduction to Medicinal Chemistry, Graham L. Patrick; Second Edition. The Organic Chemistry of Drug Design and Drug Action, Richard B. Silverman, Second Edition. Lehninger's Principles of Biochemistry, Cox and Nelson, Fifth Edition (Reference).

Instructor bio



Prof. Harinath Chakrapani
IISER Pune





Summary of NPTEL Course on Medicinal Chemistry

Prof. Harinath completed his undergraduate and post-graduate studies in Chemistry from Loyola College and Indian Institute of Technology (IIT) Madras. He worked as a post-doctoral research fellow at Wake Forest University and the National Cancer Institute, USA, he joined IISER Pune in July 2009 and is currently Associate Professor. His research interests are in organic chemistry and chemical biology. His laboratory works on developing new tools to study effects of oxidative stress responses in cells and antibiotic resistance. He has over eight years of teaching experience at IISER Pune.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **27 April 2024** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IISER Pune. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team





Attendance of NPTEL Course on Medicinal Chemistry

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as **SWAYAM - NPTEL Local Chapter**.

Anytime Anywhere Learning

Massive Open Online Courses (MOOC) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self-assessment in regular intervals during learning.

The enrolment to and learning from these courses involves no cost.

Following these online courses, an in-person, proctored certification exam is conducted across 100+ cities within India and a certificate is provided through the participating institutions and industry, when applicable.

As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of NPTEL Course on Medicinal Chemistry



Progressive Education Society's
MODERN COLLEGE OF PHARMACY
Accredited by 'NAAC'
'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)

Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314

E-mail : mcopnigdi44@gmail.com Website : www.mcop.org.in

Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on Medicinal Chemistry

Date: Jan-Apr 23

Course Code: noc24-cy17

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Sign
1	VAIBHAV MALI	51
2	GAYATRI BHAGWAN JAGDALE	52

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL Course on Medicinal Chemistry



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
GAYATRI BHAGWAN JAGDALE
for successfully completing the course

Medicinal Chemistry

with a consolidated score of **52** %

Online Assignments	15.5/25	Proctored Exam	36.67/75
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Total number of candidates certified in this course: **475**

Santhanam

Prof. M. S. Santhanam
Dean, International Relations and Outreach
IISER Pune

Jan-Apr 2024
(12 week course)

Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL24CY17S1065202269

To verify the certificate



No. of credits recommended: 3 or 4



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
VAIBHAV MALI
for successfully completing the course

Medicinal Chemistry

with a consolidated score of **51** %

Online Assignments	11.85/25	Proctored Exam	38.81/75
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Total number of candidates certified in this course: **475**

Santhanam

Prof. M. S. Santhanam
Dean, International Relations and Outreach
IISER Pune

Jan-Apr 2024
(12 week course)

Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL24CY17S965203124

To verify the certificate



No. of credits recommended: 3 or 4



Brochure of NPTEL Course on Intellectual Property



Home (<https://swayam.gov.in>) > Courses (<https://swayam.gov.in/explorer>) >

Intellectual Property

By Prof. Feroz Ali | IIT Madras

Learners enrolled: 4708 | Exam registration: 1711



About the course:

This is a substantive course on Intellectual Property. The course shall give a brief overview of the IP landscape in India. It shall also dwell into the role of IP in the modern intangible economy. The course can be offered as a generic elective subject under the Choice Based Credit System in universities and affiliated colleges as suggested by UGC.

Important For Certification/Credit Transfer:

INTENDED AUDIENCE : interested Students



Summary



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

Course Status : About Swayam (<https://swayam.gov.in/about>) | All Courses | 0

Course Type : Elective

Language for course content : English

Duration : 12 weeks

Category :

- Humanities and Social Sciences
- Law
- Faculty Domain for Experienced

Credit Points : 3

Level : Undergraduate/Postgraduate

Start Date : 22 Jan 2024

End Date : 12 Apr 2024

Enrollment Ends : 05 Feb 2024

Exam Registration Ends : 16 Feb 2024

Exam Date : 27 Apr 2024 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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([/#linkedin](#))

([/#whatsapp](#))

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc24_hs38%2Fpreview&title=Intellectual%20Property%20-%20Course)

Course layout

Week 1 : Basics of Intellectual Property

Week 2 : The Intangible Economy



List of students of NPTEL Course on Intellectual Property

Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by 'NAAC' 'Best College Award' by Savitribai Phule Pune University		
Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi, Directorate of Technical Education, Mumbai (MS), Permanently affiliated to Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)		
Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314 E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in		
Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal		Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24		
Name of Course: NPTEL on Intellectual Property Date: Jan-Apr 24 Course Code: noc24-hs38		Course Duration: 12 Week
List of Students		
Sr. No	Name of Student	Sign
1	TEJAL TALEKAR	<i>Talekar</i>
<i>A.R. Kumbhar</i> Course Co-ordinator Dr. A. R. Kumbhar		<i>P.D. Chaudhari</i> Principal Dr. P. D. Chaudhari
Page 1 of 1		



Curriculum of NPTEL Course on Intellectual Property

Week 3	: Patent is to biologics	
Week 4	: Trademark (https://swayam.gov.in/)	(https://swayam.gov.in/nc_details/NPTEL)
Week 5	: Copyright is it right to copy?	
Week 6	: Unconventional IP—The expanding scope	About Swayam (https://swayam.gov.in/about) All Courses 0
Week 7	: Enforcement of IP—Protecting your rights	
Week 8	: IP for Business—A profit making asset class	
Week 9	: IP, Research, and Universities	
Week 10	: IP for the Creative and Entertainment Industries	
Week 11	: Governments Role in Fostering IP	
Week 12	: Teaching IP—Let everyone learn IP	

Books and references

Lionel Bently & Brad Sherman, Intellectual Property Law (2014)

Instructor bio



Prof. Feroz Ali

IIT Madras

Dr. Feroz Ali is the Chair Professor on Intellectual Property Rights (IPR) at the Indian Institute of Technology (IIT) Madras. He teaches intellectual property laws and business laws. He is the author of three books on patent law. He is a practicing advocate at the Madras High Court. He litigates and counsels in intellectual property law, corporate law and competition law but his primary focus has remained in patent law. He has appeared before the Supreme Court, the High Courts, Intellectual Property Appellate Board and the Patent Offices

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **27 April 2024** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill



Summary of NPTEL Course on Intellectual Property

Week 3	: Patent is to biologics	
Week 4	: Trademark (https://swayam.gov.in/)	(https://swayam.gov.in/nc_details/NPTL)
Week 5	: Copyright is it right to copy?	
Week 6	: Unconventional IP Trademark	
Week 7	: Enforcement of IP—Protecting your rights	0
Week 8	: IP for Business—A profit making asset class	
Week 9	: IP, Research, and Universities	
Week 10	: IP for the Creative and Entertainment Industries	
Week 11	: Governments Role in Fostering IP	
Week 12	: Teaching IP—Let everyone learn IP	

Books and references

Lionel Bently & Brad Sherman, Intellectual Property Law (2014)

Instructor bio



Prof. Feroz Ali

IIT Madras

Dr. Feroz Ali is the Chair Professor on Intellectual Property Rights (IPR) at the Indian Institute of Technology (IIT) Madras. He teaches intellectual property laws and business laws. He is the author of three books on patent law. He is a practicing advocate at the Madras High Court. He litigates and counsels in intellectual property law, corporate law and competition law but his primary focus has remained in patent law. He has appeared before the Supreme Court, the High Courts, Intellectual Property Appellate Board and the Patent Offices

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **27 April 2024** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill



Attendance of NPTEL Course on Intellectual Property

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as SWAYAM - NPTEL Local Chapter.

Anytime Anywhere Learning

Massive Open Online Courses (MOOC) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self-assessment in regular intervals during learning.

The enrolment to and learning from these courses involves no cost.

Following these online courses, an in-person, proctored certification exam is conducted across 100+ cities within India and a certificate is provided through the participating institutions and industry, when applicable.

As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of NPTEL Course on Intellectual Property



Progressive Education Society's
MODERN COLLEGE OF PHARMACY
Accredited by 'NAAC'
'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)

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E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in

Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on Intellectual Property

Date: Jan-Apr 24

Course Code: noc24-hs38

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Mark %
01	TEJAL TALEKAR	46

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL Course on Intellectual Property



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

TEJAL TALEKAR

for successfully completing the course

Intellectual Property

with a consolidated score of **46** %

Online Assignments	13.04/25	Proctored Exam	32.63/75
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Total number of candidates certified in this course: **1117**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Apr 2024

(12 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24HS38S965203129

To verify the certificate



No. of credits recommended: 3 or 4



Brochure of NPTEL Course on German – I



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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Home (<https://swayam.gov.in>) > Courses (<https://swayam.gov.in/explorer>) >

German - I

By Prof. Milind Brahme | IIT Madras

Learners enrolled: 9105 | Exam registration: 1512

Introduction - German I



ABOUT THE COURSE :

German I is meant to be an introduction to the German language and a basic orientation towards Germany (and to some extent Austria and Switzerland). Learning to understand and articulate oneself in day to day real life situations, and to begin to make sense of Germany as a cultural space are the overall objectives of the course. Serious learners should be able to grasp the basic sentence structure and build a good foundational vocabulary through this course.

INTENDED AUDIENCE: Anyone interested in learning elementary German





INDUSTRY SWITZERLAND  (<https://swayam.gov.in/>)  (<https://swayam.gov.in/details/NPTEL>) Austria and/or

About Swayam (<https://swayam.gov.in/about>) | All Courses |

0

Summary

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	12 weeks
Category :	◦ Humanities and Social Sciences
Credit Points :	3
Level :	Undergraduate
Start Date :	22 Jan 2024
End Date :	12 Apr 2024
Enrollment Ends :	05 Feb 2024
Exam Registration Ends :	16 Feb 2024
Exam Date :	28 Apr 2024 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc24_hs29%2Fpreview&title=German%20-%20I%20-%20Course)

Course layout

Week 1: Themes: Introducing oneself and others; Grammar: W questions, personal pronouns, simple sentence, verb conjugation

Week 2: Themes: hobbies, the week, numbers, the alphabet, months, seasons /Grammar : articles , plural, the verb and to be





List of students of NPTEL Course on German - I

Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by 'NAAC' 'Best College Award' by Savitribai Phule Pune University		
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Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314 E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in		
Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal		Prof. Dr. Gajanan R. Ekbote M.S, M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24		
Name of Course: NPTEL on German - I Date: Jan-Apr 24 Course Code: noc24-hs29		Course Duration: 12 Week
List of Students		
Sr. No	Name of Student	Sign
1	Temkar Maya Uttam	<i>Temkar</i>
<i>shukla</i> Course Co-ordinator Dr. A. R. Kumbhar		<i>Chaudhari</i> Principal Dr. P. D. Chaudhari
Page 1 of 1		



Curriculum of NPTEL Course on German – I

- Week 3:** Thematic areas: naming places and buildings, means of transport, basic directions / Grammar : definite and indefinite articles (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/NPTEL)
- Week 4:** Thematic areas: family / groceries and meals / Grammar : the accusative
- Week 5:** Thematic areas: Everyday life, telling time, making appointments / Grammar : prepositions am, um, von...bis; modal verbs, possessive articles (https://swayam.gov.in/about) | All Courses |
- Week 6:** Leisure activity, celebrations / Grammar: separable verbs, the accusative, past tense of to have and to be
- Week 7:** Contacts, writing letters / Grammar: dative
- Week 8:** My apartment, rooms, furniture, colours / Grammar: changing prepositions
- Week 9:** Professions / Grammar : perfect tense
- Week 10:** Clothes / Grammar: perfect tense and dative
- Week 11:** Health and the body / Grammar: the imperative and modal verbs
- Week 12:** Holiday and weather

Books and references

Prescribed Textbook: NETZWERK Deutsch als Fremdsprache A1 (Goyal, New Delhi, 2015)

Other recommended books:

Schulz-Griesbach: Deutsch als Fremdsprache. Grundstufe in einem Band (for Grammar)

Web Resources:

FACTS ABOUT GERMANY <https://www.tatsachen-ueber-deutschland.de/en> (<https://www.tatsachen-ueber-deutschland.de/en>)

ONLINE GERMAN-ENGLISH DICTIONARY www.leo.org (<http://www.leo.org>)

PRACTICE MATERIAL

<https://www.goethe.de/en/spr/kup/prf/prf/sd1/ueb.html> (<https://www.goethe.de/en/spr/kup/prf/prf/sd1/ueb.html>)

http://www.deutschkurse-passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf

http://www.deutschkurse-passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf

https://www.schubert-verlag.de/aufgaben/arbeitsblaetter_a1_z/a1_arbeitsblaetter_index_z.htm

Instructor bio



Prof. Milind Brahme

IIT Madras

Dr Milind Brahme has an MA, M Phil and a PhD in German language and literature from the Centre of German Studies, JNU. He has been on the faculty of IIT Madras since 2003, and has more than 25 years of experience of teaching German language and literature in diverse situations and contexts.



Summary of NPTEL Course on German – I

Week 3: Thematic areas: Naming places and buildings, means of transport, basic directions / Grammar : definite and indefinite articles (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/NPTEL)

Week 4: Themes: Food, drink, family / groceries and meals / Grammar : the accusative

Week 5: Theme: Everyday life, telling time, making appointments / Grammar : prepositions am, um, von...bis; modal verbs, possessive articles (https://swayam.gov.in/about) (https://swayam.gov.in/nc_details/NPTEL)

Week 6: Leisure activity, celebrations / Grammar: separable verbs, the accusative, past tense of to have and to be

Week 7: Contacts, writing letters / Grammar: dative

Week 8: My apartment, rooms, furniture, colours / Grammar: changing prepositions

Week 9: Professions / Grammar : perfect tense

Week 10: Clothes / Grammar: perfect tense and dative

Week 11: Health and the body / Grammar: the imperative and modal verbs

Week 12: Holiday and weather

Books and references

Prescribed Textbook: NETZWERK Deutsch als Fremdsprache A1 (Goyal, New Delhi, 2015)

Other recommended books:

Schulz-Griesbach: Deutsch als Fremdsprache. Grundstufe in einem Band (for Grammar)

Web Resources:

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ONLINE GERMAN-ENGLISH DICTIONARY www.leo.org (http://www.leo.org)

PRACTICE MATERIAL

<https://www.goethe.de/en/spr/kup/prf/prf/sd1/ueb.html> (https://www.goethe.de/en/spr/kup/prf/prf/sd1/ueb.html)

http://www.deutschkurse-passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf

[passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf](http://www.deutschkurse-passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf)

https://www.schubert-verlag.de/aufgaben/arbeitsblaetter_a1_z/a1_arbeitsblaetter_index_z.htm

Instructor bio



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Attendance of NPTEL Course on German – I

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as **SWAYAM - NPTEL Local Chapter**.

Anytime Anywhere Learning

Massive Open Online Courses (MOOC) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self-assessment in regular intervals during learning.

The enrolment to and learning from these courses involves no cost.

Following these online courses, an in-person, proctored certification exam is conducted across 100+ cities within India and a certificate is provided through the participating institutions and industry, when applicable.

As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of NPTEL Course on German – I



Progressive Education Society's
MODERN COLLEGE OF PHARMACY
Accredited by 'NAAC'
'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)

Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314

E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in

Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on German - I

Date: Jan-Apr 24

Course Code: noc24-hs29

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Examination
1	Temkar Maya Uttam	48

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL Course on German - I



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
TEMKAR MAYA UTTAM
for successfully completing the course

German - I

with a consolidated score of **48** %

Online Assignments	17.38/25	Proctored Exam	30.94/75
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Total number of candidates certified in this course: **735**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Apr 2024

(12 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24HS29S1265200689

To verify the certificate



No. of credits recommended: 3 or 4



Brochure of NPTEL One Health

X



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

About Swayam (<https://swayam.gov.in/about>) | All Courses | SIGN-IN / REGISTER ()

Home (<https://swayam.gov.in>) > Courses (<https://swayam.gov.in/explorer>) >

German - I

By Prof. Milind Brahme | IIT Madras

Learners enrolled: 10392 | Exam registration: 1572

Introduction - German I



ABOUT THE COURSE :

German I is meant to be an introduction to the German language and a basic orientation towards Germany (and to some extent Austria and Switzerland). Learning to understand and articulate oneself in day to day real life situations, and to begin to make sense of Germany as a cultural space are the overall objectives of the course. Serious learners should be able to grasp the basic sentence structure and build a good foundational vocabulary through this course.

INTENDED AUDIENCE: Anyone interested in learning elementary German



INDUSTRY SUPPORTED COURSE (https://swayam.gov.in/) (https://swayam.gov.in/details/NPTEL) Austria and/or Switzerland

About Swayam (https://swayam.gov.in/about) | All Courses |

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Summary

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	12 weeks
Category :	◦ Humanities and Social Sciences
Credit Points :	3
Level :	Undergraduate
Start Date :	24 Jul 2023
End Date :	13 Oct 2023
Enrollment Ends :	07 Aug 2023
Exam Registration Ends :	18 Aug 2023
Exam Date :	29 Oct 2023 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

(/ #facebook) (/ #x) (/ #microsoft_teams) (/ #linkedin) (/ #whatsapp)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_hs98%2Fpreview&title=German%20-%20I%20-%20Course)


Course layout


Week 1: Themes: Introducing oneself and others; Grammar: W questions, personal pronouns, simple sentence, verb conjugation

Week 2: Themes: hobbies, the week, numbers, the alphabet, months, seasons /Grammar : articles , plural, the verbs to have and to be



List of student of NPTEL One Health

 **Progressive Education Society's**
MODERN COLLEGE OF PHARMACY
Accredited by 'NAAC'
'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
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Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

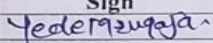
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M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

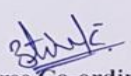
2023-24

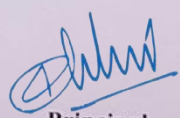
Name of Course: NPTEL on One Health
Date: Jan-Apr 24
Course Code: noc24-ge25

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Sign
1	MRUGAJA RAJENDRA YEOLE	


Course Co-ordinator
Dr. A. R. Kumbhar


Principal
Dr. P. D. Chaudhari

Page 1 of 1



Curriculum of NPTEL One Health

- Week 3:** Thematic areas: Naming places and buildings, means of transport, basic directions / Grammar : definite and indefinite articles (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/NPTEL)
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- Week 6:** Leisure activity, celebrations / Grammar: separable verbs, the accusative, past tense of to have and to be
- Week 7:** Contacts, writing letters / Grammar: dative
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- Week 9:** Professions / Grammar : perfect tense
- Week 10:** Clothes / Grammar: perfect tense and dative
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- Week 12:** Holiday and weather

Books and references

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Other recommended books:

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Web Resources:

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PRACTICE MATERIAL

<https://www.goethe.de/en/spr/kup/prf/prf/sd1/ueb.html> (https://www.goethe.de/en/spr/kup/prf/prf/sd1/ueb.html)

http://www.deutschkurse-passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf

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Instructor bio



Prof. Milind Brahme

IIT Madras

Dr Milind Brahme has an MA, M Phil and a PhD in German language and literature from the Centre of German Studies, JNU. He has been on the faculty of IIT Madras since 2003, and has more than 25 years of experience of teaching German language and literature in diverse situations and contexts.



Summary of NPTEL One Health

TEACHING AS  (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)
 About Swayam (<https://swayam.gov.in/about>) | All Courses | 0

Sashirekha Srigiriraju, has an MA in German language and literature from University of Mumbai and a PhD in German language and literature from IITM. She has been a German language instructor at Goethe Institute, Chennai since 2010, and has taught German at IITM as a visiting faculty; at SRM University; at IGCC, and also at Ethiraj College, in Chennai.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **29 October 2023** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Madras. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.



Attendance of NPTEL One Health

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as **SWAYAM - NPTEL Local Chapter**.

Anytime Anywhere Learning

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As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of NPTEL One Health



Progressive Education Society's
MODERN COLLEGE OF PHARMACY
Accredited by 'NAAC'
'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
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Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S, M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on One Health

Date: Jan-Apr 24

Course Code: noc24-ge25

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Examination %
1	MRUGAJA RAJENDRA YEOLE	81

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL One Health



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
MRUGAJA RAJENDRA YEOLE
for successfully completing the course



One Health

with a consolidated score of **81** %

Online Assignments	20.94/25	Proctored Exam	59.69/75
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Total number of candidates certified in this course: **1543**
Jan-Apr 2024 (12 week course)

Dr. Debdutta Bhattacharya
Scientist-E, Course Coordinator,
ICMR – RMRC, Bhubaneswar

Dr. Sanghamitra Pati
Director,
ICMR – RMRC, Bhubaneswar

Dr. Rajiv Bahl
Secretary DHR & Director General,
Indian Council of Medical Research, New Delhi

Prof. Andrew Thangaraj
NPTEL, Coordinator,
IIT Madras



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CENTRE, BHUBANESWAR



स्वास्थ्य अनुसंधान विभाग
Department of Health Research



Roll No: NPTEL24GE25S1265201782

To validate the certificate



No. of credits recommended: 3 or 4



Brochure of NPTEL on Intellectual Property Rights and Competition Law

X

 (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)

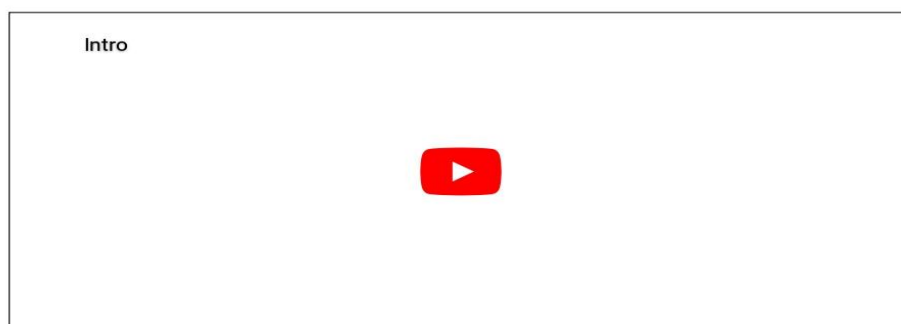
About Swayam (<https://swayam.gov.in/about>) | All Courses | SIGN-IN / REGISTER ()

Home (<https://swayam.gov.in/>) > Courses (<https://swayam.gov.in/explorer>) >

Intellectual Property Rights And Competition Law

By Prof. KD Raju, Prof. Niharika Sahoo Bhattacharya | IIT Kharagpur

Learners enrolled: 6676 | Exam registration: 2358



ABOUT THE COURSE:

Competition Law and Intellectual Property Law prima facie appear to have conflicting objectives and goals. While Competition law operates towards facilitating the market growth by curbing anti-competitive practices in the market, IPRs confer exclusive monopoly to the proprietor. However, both are intended towards promoting innovation and consumer welfare. In the ever evolving technology driven society, the recent conflict between the domain of IPRs and completion law pertains to the exercise of rights in IPR affecting competition law. Therefore, in the light of the above intricacies and problems the course aims to discuss the general principles and laws related to Intellectual Property Right and Competition law, The course also provides an overview of the application and operation of both the laws in different jurisdictions and tries to simplify the overlapping domain of IP and Competition Law.

INTENDED AUDIENCE : Students from Law, Management and business studies, and Technical background can benefit from the program

PREREQUISITES : Not necessary. Brief introduction to Intellectual Property Rights may be useful

Summary

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	8 weeks





Category :



(<https://swayam.gov.in/>)

(https://swayam.gov.in/nc_details/NPTEL)

Management Studies

Patents and Intellectual Property Rights

Credit Points :

About Swayam (<https://swayam.gov.in/about>) | All Courses |

0

Level :

Undergraduate/Postgraduate

Start Date :

21 Aug 2023

End Date :

13 Oct 2023

Enrollment Ends :

21 Aug 2023

Exam Registration Ends :

15 Sep 2023

Exam Date :

29 Oct 2023 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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([/#linkedin](#))

([/#whatsapp](#))

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_mg68%2Fpreview&title=Intellectual%20Property%20Rights%20And%20Competition%20Law%20-%20Course)

Course layout

Week 1: Function of IPR, Public good, Incentive theory, different forms of IPR

Week 2: Introduction to competition Law, Anti-competitive agreements, Abuse of dominance, Regulation of combinations,

Week 3: The relationship and Interaction between IPR and competition law

Week 4: The economics of US Antitrust law, IP and competition issues, Technology transfer agreements

Week 5: The EU experience with IP and Competition Law

Week 6: Market allocation, Horizontal agreements, Vertical agreements, licensing issues

Week 7: Indian Competition Act and IPR protection

Week 8: Anticompetitive agreement and abuse of dominance in IPR protection, IPR issues in merger and acquisition; Harmonization of IP protection and competition Law in India

Books and references

Reference Book (https://drive.google.com/file/d/16U-cK200HZsqtqcwcp_T4_WftUhbycfw/view?usp=sharing)

Instructor bio





List of Students of NPTEL on Intellectual Property Rights and Competition Law

Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by 'NAAC' 'Best College Award' by Savitribai Phule Pune University		
Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi, Directorate of Technical Education, Mumbai (MS), Permanently affiliated to Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)		
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Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal		Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24		
Name of Course: NPTEL Intellectual Property Rights and Competition Law		
Date: Aug-Oct 23		
Course Code: noc23-mg68		
Course Duration: 08 Week		
List of Students		
Sr. No	Name of Student	Sign
1	AJAY PRAKASH PATANGE	A. Patange
2	ABHIJEET PRABHAKAR MORE	A. More
3	PAVAN BABURAO NAVGHARE	P. Navghare
4	PRATHMESH ASHOK NALE	P. Nale
5	RAHUL GMABHIRE	R. Gmabhire
6	WAGHMARE SHIVSHANKAR RAMRAO	S. Waghmare
7	RENUKA GANGADHAR ZAREKAR	R. Zarekar
<div><div> Course Co-ordinator Dr. A. R. Kumbhar</div><div> Principal Dr. P. D. Chaudhari</div></div>		
Page 1 of 1		



Curriculum of NPTEL on Intellectual Property Rights and Competition Law

Category :



(<https://swayam.gov.in/>)

Management Studies (https://swayam.gov.in/nc_details/NPTEL)

Patents and Intellectual Property Rights

Credit Points :

About Swayam (<https://swayam.gov.in/about>) | All Courses |

0

Level :

Undergraduate/Postgraduate

Start Date :

21 Aug 2023

End Date :

13 Oct 2023

Enrollment Ends :

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Exam Registration Ends :

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_mg68%2Fpreview&title=Intellectual%20Property%20Rights%20And%20Competition%20Law%20-%20Course)

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Week 4: The economics of US Antitrust law, IP and competition issues, Technology transfer agreements

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Week 7: Indian Competition Act and IPR protection

Week 8: Anticompetitive agreement and abuse of dominance in IPR protection, IPR issues in merger and acquisition; Harmonization of IP protection and competition Law in India

Books and references

Reference Book (https://drive.google.com/file/d/16U-cK200HZsqtqcwcp_T4_WFtUhbycfw/view?usp=sharing)

Instructor bio





Summary of NPTEL on Intellectual Property Rights and Competition Law

Category :



(<https://swayam.gov.in/>) Management Studies (https://swayam.gov.in/nc_details/NPTEL)

Patents and Intellectual Property Rights

Credit Points :

About Swayam (<https://swayam.gov.in/about>) | All Courses | 0

Level :

Undergraduate/Postgraduate

Start Date :

21 Aug 2023

End Date :

13 Oct 2023

Enrollment Ends :

21 Aug 2023

Exam Registration Ends :

15 Sep 2023

Exam Date :

29 Oct 2023 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_mg68%2Fpreview&title=Intellectual%20Property%20Rights%20And%20Competition%20Law%20-%20Course)

Course layout

Week 1: Function of IPR, Public good, Incentive theory, different forms of IPR

Week 2: Introduction to competition Law, Anti-competitive agreements, Abuse of dominance, Regulation of combinations,

Week 3: The relationship and Interaction between IPR and competition law

Week 4: The economics of US Antitrust law, IP and competition issues, Technology transfer agreements

Week 5: The EU experience with IP and Competition Law

Week 6: Market allocation, Horizontal agreements, Vertical agreements, licensing issues

Week 7: Indian Competition Act and IPR protection

Week 8: Anticompetitive agreement and abuse of dominance in IPR protection, IPR issues in merger and acquisition; Harmonization of IP protection and competition Law in India

Books and references

Reference Book (https://drive.google.com/file/d/16U-cK200HZsqtqcwcp_T4_WFtUhbycfw/view?usp=sharing)

Instructor bio





Attendance of NPTEL on Intellectual Property Rights and Competition Law

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as SWAYAM - NPTEL Local Chapter.

Anytime Anywhere Learning

Massive Open Online Courses (MOOC) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self-assessment in regular intervals during learning.

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Following these online courses, an in-person, proctored certification exam is conducted across 100+ cities within India and a certificate is provided through the participating institutions and industry, when applicable.

As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of NPTEL on Intellectual Property Rights and Competition Law



Progressive Education Society's
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Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
 Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
 Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)

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E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in

Prof. Dr. P. D. Chaudhari
 M.Pharm., Ph.D.
 Principal

Prof. Dr. Gajanan R. Ekbote
 M.S., M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune

2023-24

Name of Course: NPTEL Intellectual Property Rights and Competition Law

Date: Aug-Oct 23

Course Code: noc23-mg68

Course Duration: 08 Week

List of Students

Sr. No	Name of Student	Exam %
1	AJAY PRAKASH PATANGE	53
2	ABHIJEET PRABHAKAR MORE	49
3	PAVAN BABURAO NAVGHARE	54
4	PRATHMESH ASHOK NALE	51
5	RAHUL GMABHIRE	41
6	WAGHMARE SHIVSHANKAR RAMRAO	52
7	RENUKA GANGADHAR ZAREKAR	64

Course Co-ordinator
 Dr. A. R. Kumbhar

Principal
 Dr. P. D. Chaudhari



Certificate of NPTEL on Intellectual Property Rights and Competition Law



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
AJAY PRAKASH PATANGE
for successfully completing the course

Intellectual Property Rights and Competition Law

with a consolidated score of **53** %

Online Assignments	17.08/25	Proctored Exam	36/75
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Total number of candidates certified in this course: **1762**

Aug-Oct 2023
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23MG68S845104118

To verify the certificate



No. of credits recommended: 2 or 3



Brochure of NPTEL on German – I

X

 (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)

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German - I

By Prof. Milind Brahme | IIT Madras

Learners enrolled: 10392 | Exam registration: 1572

Introduction - German I



ABOUT THE COURSE :

German I is meant to be an introduction to the German language and a basic orientation towards Germany (and to some extent Austria and Switzerland). Learning to understand and articulate oneself in day to day real life situations, and to begin to make sense of Germany as a cultural space are the overall objectives of the course. Serious learners should be able to grasp the basic sentence structure and build a good foundational vocabulary through this course.

INTENDED AUDIENCE: Anyone interested in learning elementary German



INDUSTRY SL  (<https://swayam.gov.in/>)  (<https://swayam.gov.in/details/NPTEL>) Austria and/or Switzerland

About Swayam (<https://swayam.gov.in/about>) | All Courses |

()

Summary

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	12 weeks
Category :	◦ Humanities and Social Sciences
Credit Points :	3
Level :	Undergraduate
Start Date :	24 Jul 2023
End Date :	13 Oct 2023
Enrollment Ends :	07 Aug 2023
Exam Registration Ends :	18 Aug 2023
Exam Date :	29 Oct 2023 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

([/#facebook](#)) ([/#x](#)) ([/#microsoft_teams](#)) ([/#linkedin](#)) ([/#whatsapp](#))

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_hs98%2Fpreview&title=German%20-%20I%20-%20Course)

Course layout

Week 1: Themes: Introducing oneself and others; Grammar: W questions, personal pronouns, simple sentence, verb conjugation

Week 2: Themes: hobbies, the week, numbers, the alphabet, months, seasons /Grammar : articles , plural, the verbs to have and to be



List of students of NPTEL on German - I

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Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal		Prof. Dr. Gajanan R. Ekbote M.S, M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24		
Name of Course: NPTEL on German - I Date: Jul-Oct 2023 Course Code: noc24-hs29		Course Duration: 12 Week
List of Students		
Sr. No	Name of Student	Sign
1	Vendanti Atul Gulhane	
Course Co-ordinator Dr. A. R. Kumbhar		Principal Dr. P. D. Chaudhari



Curriculum of NPTEL on German – I

- Week 3:** Thematic areas: Naming places and buildings, means of transport, basic directions / Grammar : definite and indefinite articles (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/NPTEL)
- Week 4:** Themes: Food, family / groceries and meals / Grammar : the accusative
- Week 5:** Themes: Everyday life, telling time, making appointments / Grammar : prepositions am, um, von...bis; modal verbs, possessive articles (https://swayam.gov.in/about) | All Courses |
- Week 6:** Leisure activity, celebrations / Grammar: separable verbs, the accusative, past tense of to have and to be
- Week 7:** Contacts, writing letters / Grammar: dative
- Week 8:** My apartment, rooms, furniture, colours / Grammar: changing prepositions
- Week 9:** Professions / Grammar : perfect tense
- Week 10:** Clothes / Grammar: perfect tense and dative
- Week 11:** Health and the body / Grammar: the imperative and modal verbs
- Week 12:** Holiday and weather

Books and references

Prescribed Textbook: NETZWERK Deutsch als Fremdsprache A1 (Goyal, New Delhi, 2015)

Other recommended books:

Schulz-Griesbach: Deutsch als Fremdsprache. Grundstufe in einem Band (for Grammar)

Web Resources:

FACTS ABOUT GERMANY <https://www.tatsachen-ueber-deutschland.de/en> (https://www.tatsachen-ueber-deutschland.de/en)

ONLINE GERMAN-ENGLISH DICTIONARY www.leo.org (http://www.leo.org)

PRACTICE MATERIAL

<https://www.goethe.de/en/spr/kup/prf/prf/sd1/ueb.html> (https://www.goethe.de/en/spr/kup/prf/prf/sd1/ueb.html)

http://www.deutschkurse-passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf

[passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf](http://www.deutschkurse-passau.de/JM/images/stories/SKRIPTEN/a1_skript_gr.pdf)

https://www.schubert-verlag.de/aufgaben/arbeitsblaetter_a1_z/a1_arbeitsblaetter_index_z.htm

Instructor bio



Prof. Milind Brahme

IIT Madras

Dr Milind Brahme has an MA, M Phil and a PhD in German language and literature from the Centre of German Studies, JNU. He has been on the faculty of IIT Madras since 2003, and has more than 25 years of experience of teaching German language and literature in diverse situations and contexts.



Summary of NPTEL on German – I

INDUSTRY SUPPORTED COURSE (https://swayam.gov.in/) (https://swayam.gov.in/details/NPTEL) Austria and/or Switzerland

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Summary

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	12 weeks
Category :	◦ Humanities and Social Sciences
Credit Points :	3
Level :	Undergraduate
Start Date :	24 Jul 2023
End Date :	13 Oct 2023
Enrollment Ends :	07 Aug 2023
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(https://www.addtoany.com/share#url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_hs98%2Fpreview&title=German%20-%20I%20-%20Course)

Course layout

Week 1: Themes: Introducing oneself and others; Grammar: W questions, personal pronouns, simple sentence, verb conjugation

Week 2: Themes: hobbies, the week, numbers, the alphabet, months, seasons /Grammar : articles , plural, the verbs to have and to be



Attendance of NPTEL on German – I

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

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NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as **SWAYAM - NPTEL Local Chapter**.

Anytime Anywhere Learning

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Assessment of NPTEL on German - I



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E-mail : mcopnigdi44@gmail.com Website : www.mcop.org.in

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M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on German - I

Date: German - I

Course Code: noc24-hs29

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Mark %
01	Vendanti Atul Gulhane	61

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL on German - I



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
VEDANTI ATUL GULHANE
for successfully completing the course

German - I

with a consolidated score of **61** %

Online Assignments	24.56/25	Proctored Exam	36.75/75
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Total number of candidates certified in this course: **751**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jul-Oct 2023
(12 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23HS98S845103073

To verify the certificate



No. of credits recommended: 3 or 4



Brochure of NPTEL on Principles of Organic Synthesis



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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Principles Of Organic Synthesis

By Prof. T Punniyamurthy | IIT Guwahati

Learners enrolled: 997 | Exam registration: 129

Principles Of Organic Synthesis [Introduction Video]



ABOUT THE COURSE :

The course has nine modules starting from the formation of acid-catalyzed carbon-carbon bond formation to application of the modern transition metal catalysis. Students of graduate and post graduate preparing for NET and GATE examination will find this course extremely useful.

INTENDED AUDIENCE : M.Sc Students/faculty

PREREQUISITES : BSc (Chemistry)

INDUSTRY SUPPORT : Dr. Reddy's Laboratory, Syngenta, etc

Summary



List of students of NPTEL on Principles of Organic Synthesis

Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by 'NAAC' 'Best College Award' by Savitribai Phule Pune University		
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Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal		Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24		
Name of Course: NPTEL on Principles of Organic Synthesis		
Date: Jul-Oct 23		
Course Code: noc23-cy47		Course Duration: 12 Week
List of Students		
Sr. No	Name of Student	Sign
1	SHUBHANGI NAVNATH SHINDE	
 Course Co-ordinator Dr. A. R. Kumbhar		 Principal Dr. P. D. Chaudhari
Page 1 of 1		



Curriculum of NPTEL on Principles of Organic Synthesis

Course Status :	 (https://swayam.gov.in/)	 Completed	(https://swayam.gov.in/nc_details/NPTEL)
Course Type :		Core	
Language for course content	about Swayam (https://swayam.gov.in/about) All Courses	English	()
Duration :		12 weeks	
Category :		◦ Chemistry	
Credit Points :		3	
Level :		Postgraduate	
Start Date :		24 Jul 2023	
End Date :		13 Oct 2023	
Enrollment Ends :		07 Aug 2023	
Exam Registration Ends :		18 Aug 2023	
Exam Date :		29 Oct 2023 IST	

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_cy47%2Fpreview&title=Principles%20of%20Organic%20Synthesis%20-%20Course)

Course layout

Week 1 : Formation of Aliphatic Carbon-Carbon Bonds: Base Catalyzed Reactions

Week 2 : Formation of Aliphatic Carbon-Carbon Bonds: Acid Catalyzed Reactions

Week 3 : Organometallic Reagents

Week 4 : Formation of Aliphatic Carbon-Nitrogen Bonds

Week 5 : Electrophilic Aromatic Substitution

Week 6 : Nucleophilic Aromatic Substitution

Week 7 : Aromatic Diazonium Salts

Week 8 : Molecular Rearrangements

Week 9 : Reagents Containing Phosphorus, Sulfur, Silicon, Boron or Tin

Week 10 : Free-Radical Reactions

Week 11 : Reagents Containing Phosphorus, Sulfur, Silicon, Boron or Tin

Week 12 : Free-Radical Reactions



Summary of NPTEL on Principles of Organic Synthesis

X  (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)
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Principles Of Organic Synthesis

By Prof. T Punniyamurthy | IIT Guwahati

Learners enrolled: 997 | Exam registration: 129

Principles Of Organic Synthesis [Introduction Video]



ABOUT THE COURSE :

The course has nine modules starting from the formation of acid-catalyzed carbon-carbon bond formation to application of the modern transition metal catalysis. Students of graduate and post graduate preparing for NET and GATE examination will find this course extremely useful.

INTENDED AUDIENCE : M.Sc Students/faculty

PREREQUISITES : BSc (Chemistry)

INDUSTRY SUPPORT : Dr. Reddy's Laboratory, Syngenta, etc

Summary



Attendance of NPTEL on Principles of Organic Synthesis

National Programme on Technology Enhanced Learning (NPTEL)

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Anytime Anywhere Learning

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As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of NPTEL on Principles of Organic Synthesis



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Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on Principles of Organic Synthesis

Date: Jul-Oct 23

Course Code: noc23-cy47

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Exam %
1	SHUBHANGI NAVNATH SHINDE	52

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL on Principles of Organic Synthesis



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
SHUBHANGI NAVNATH SHINDE
for successfully completing the course

Principles of Organic Synthesis

with a consolidated score of **52** %

Online Assignments	10.28/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **61**

Jul-Oct 2023
(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL23CY47S745101468

To verify the certificate



No. of credits recommended: 3 or 4



Brochure of NPTEL on Reagents in Organic Synthesis

X

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Principles Of Organic Synthesis

By Prof. T Punniyamurthy | IIT Guwahati

Learners enrolled: 997 | Exam registration: 129

Principles Of Organic Synthesis [Introduction Video]



ABOUT THE COURSE :

The course has nine modules starting from the formation of acid-catalyzed carbon-carbon bond formation to application of the modern transition metal catalysis. Students of graduate and post graduate preparing for NET and GATE examination will find this course extremely useful.

INTENDED AUDIENCE : M.Sc Students/faculty

PREREQUISITES : BSc (Chemistry)

INDUSTRY SUPPORT : Dr. Reddy's Laboratory, Syngenta, etc

Summary



Criteria 1: Curriculum Aspects



List of students of NPTEL on Reagents in Organic Synthesis

Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by 'NAAC' 'Best College Award' by Savitribai Phule Pune University		
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Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal		Prof. Dr. Gajanan R. Ekbote M.S, M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24		
Name of Course: NPTEL on Reagents in Organic Synthesis		
Date: Jul-Oct 23		
Course Code: noc23-cy48		Course Duration: 12 Week
List of Students		
Sr. No	Name of Student	Sign
1	ANUSHRI ASHOK DEULKAR	
Course Co-ordinator Dr. A. R. Kumbhar		Principal Dr. P. D. Chaudhari
Page 1 of 1		



Curriculum of NPTEL on Reagents in Organic Synthesis

Course Status :	 (https://swayam.gov.in/)	 (https://swayam.gov.in/nc_details/NPTEL)	Completed
Course Type :			Core
Language for course content :	About Swayam (https://swayam.gov.in/about) All Courses English ()		
Duration :	12 weeks		
Category :	◦ Chemistry		
Credit Points :	3		
Level :	Postgraduate		
Start Date :	24 Jul 2023		
End Date :	13 Oct 2023		
Enrollment Ends :	07 Aug 2023		
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This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_cy47%2Fpreview&title=Principles%20Of%20Organic%20Synthesis%20-%20Course)

Course layout

Week 1 : Formation of Aliphatic Carbon-Carbon Bonds: Base Catalyzed Reactions

Week 2 : Formation of Aliphatic Carbon-Carbon Bonds: Acid Catalyzed Reactions

Week 3 : Organometallic Reagents

Week 4 : Formation of Aliphatic Carbon-Nitrogen Bonds

Week 5 : Electrophilic Aromatic Substitution

Week 6 : Nucleophilic Aromatic Substitution

Week 7 : Aromatic Diazonium Salts

Week 8 : Molecular Rearrangements

Week 9 : Reagents Containing Phosphorus, Sulfur, Silicon, Boron or Tin



Week 10 : Free-Radical Reactions

Week 11 : Reagents Containing Phosphorus, Sulfur, Silicon, Boron or Tin

Week 12 : Free-Radical Reactions



Summary of NPTEL on Reagents in Organic Synthesis

Course Status :	 (https://swayam.gov.in/)	 (Completed (https://swayam.gov.in/nc_details/NPTEL)
Course Type :		Core
Language for course content	English	()
Duration :		12 weeks
Category :		◦ Chemistry
Credit Points :		3
Level :		Postgraduate
Start Date :		24 Jul 2023
End Date :		13 Oct 2023
Enrollment Ends :		07 Aug 2023
Exam Registration Ends :		18 Aug 2023
Exam Date :		29 Oct 2023 IST
Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.		

This is an AICTE approved FDP course

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Course layout

Week 1 : Formation of Aliphatic Carbon-Carbon Bonds: Base Catalyzed Reactions

Week 2 : Formation of Aliphatic Carbon-Carbon Bonds: Acid Catalyzed Reactions

Week 3 : Organometallic Reagents

Week 4 : Formation of Aliphatic Carbon-Nitrogen Bonds

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Week 6 : Nucleophilic Aromatic Substitution

Week 7 : Aromatic Diazonium Salts

Week 8 : Molecular Rearrangements

Week 9 : Reagents Containing Phosphorus, Sulfur, Silicon, Boron or Tin

Week 10 : Free-Radical Reactions

Week 11 : Reagents Containing Phosphorus, Sulfur, Silicon, Boron or Tin

Week 12 : Free-Radical Reactions



Attendance of NPTEL on Reagents in Organic Synthesis

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as **SWAYAM - NPTEL Local Chapter**.

Anytime Anywhere Learning

Massive Open Online Courses (MOOC) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self-assessment in regular intervals during learning.

The enrolment to and learning from these courses involves no cost.

Following these online courses, an in-person, proctored certification exam is conducted across 100+ cities within India and a certificate is provided through the participating institutions and industry, when applicable.

As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of NPTEL on Reagents in Organic Synthesis



Progressive Education Society's
MODERN COLLEGE OF PHARMACY
Accredited by 'NAAC'
'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)

Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314

E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in

Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on Reagents in Organic Synthesis

Date: Jul-Oct 23

Course Code: noc23-cy48

Course Duration: 12 Week

List of Students

Sr. No	Name of Student	Examination %
1	ANUSHRI ASHOK DEULKAR	58

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of NPTEL on Reagents in Organic Synthesis



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
ANUSHRI ASHOK DEULKAR
for successfully completing the course

Reagents in Organic Synthesis

with a consolidated score of **58** %

Online Assignments	21.19/25	Proctored Exam	36.74/75
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Total number of candidates certified in this course: **50**

Jul-Oct 2023

(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL23CY48S645102438

To verify the certificate



No. of credits recommended: 3 or 4



Brochure of Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)

x



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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Home (<https://swayam.gov.in>) > Courses (<https://swayam.gov.in/explorer>) >

Current Regulatory Requirements For Conducting Clinical Trials In India For Investigational New Drugs/New Drug (Version 3.0)

By Dr D. K. Sable, Dr Rubina Bose, Professor Y. K. Gupta, Dr Nandini K. Kumar, Late Shri Arun Kumar B. Ramteke, Dr Sucheta Banerjee Kurundkar, Dr M. Vishnu V. Rao, Dr Atul Juneja, Dr Tulsi Adhikari, Dr Mohua Maulik | CDSA, THSTI, DBT

Learners enrolled: 2794 | Exam registration: 731

Introductory video



ABOUT THE COURSE:

The course is developed by Clinical Development Services Agency (CDSA) in partnership with the Central Drugs Standard Control Organisation (CDSCO). The course is developed with NPTEL.

CDSA is a center of the Translational Health Science & Technology Institute (THSTI). THSTI is an autonomous institution under the Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India. CDSA has a national mandate to enhance the capacity and capability of clinical development in India.

CDSCO is the National Regulatory Authority (NRA) of India. It is under the Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India. CDSCO along with the state regulators are jointly responsible for grant of licenses of certain specialized categories of critical drugs such as blood and blood products, intravenous fluids, vaccines, and sera.

It is a pre-requisite for anyone carrying out a clinical trial or involved in new drug development or research for the purpose of seeking regulatory approval in India to know about the current regulatory requirements. This is even more pertinent given the many changes and amendments in the clinical trial and new drug approval rules and regulations in India in recent years.

Version 1 of this online course was launched in early 2019 with 12 lectures as a four-week course. It was attended by 1047 participants during Jan - Mar 2019. On March 19, 2019, the New Drugs and Clinical Trials (NDCT) Rules, 2019 were released. The current online course (Version 2) incorporates the changes and amendments that are part of these latest rules. A series of brainstorming sessions were conducted by CDSA with CDSCO for incorporating the new updates and the feedback received from version 1 participants. It also includes key issues that surfaced during the discussions at the six face-to-face programs (National workshop on regulatory compliance for accelerating innovations) that were conducted by CDSA (Dec 2018-July 2019) under the aegis of DBT, CDSCO, NITI Aayog, and BIRAC-NBM and inputs from the interactive session on NDCT Rules conducted by CDSA with CDSCO at THSTI (May 2019).

This course (version 3) has 24 lectures spread over a period of 8 weeks. This course also involves 8 weekly assignments and a final exit assessment. Only those wishing to undertake the certification exams (which requires payment of a fee) need to opt for the latter. This online course is free. The exam is optional for a fee.





COURSE OBJECTIVES AND EXPECTED LEARNING OUTCOMES

Upon completion of this online course, the learner will be able to:

- Current New Drugs and Clinical Trials Rules 2017 for conducting clinical trials of the new drug or investigational new drug (IND) to be manufactured or imported in India
- Essential documents required for the conduct of new drugs/clinical trials, new drug/IND Courses
- Essence and purpose of important trial-related guidelines, such as Good Clinical Practice (GCP), national ethical guidelines for biomedical & health research for human participants (2017), etc

TARGET AUDIENCE : The course is suitable for individuals, both from industry (pharma, biotech, contract research organization) and academia who are involved or interested in Clinical trial and new drug development (R & D/manufacture/ import) in India. This includes investigators, regulatory affairs personnel, human ethics committee members, clinical trial team members/researchers.

PRE-REQUISITES :

There is no pre-requisite to undertake this course. It is suitable for personnel with scientific/medical background (BSc/MSc/PhD/B Pharm/M Pharm/BAMS/BHMS/BDS/MDS/MBBS/MD/DM). Personnel working in the area of drug development/clinical trials/research may benefit from this course.

ORGANIZATIONS THAT WILL VALUE THE COURSE:

Pharmaceutical companies, Research/Academic Institutions, Biomedical research organizations, Regulatory authorities, Medical colleges, Contract research organizations

This is a RE-RUN Course, hence all the material provided is as per the earlier course, the reading material is the same for version 2.0 and version 3.0. The assignments, exit assessment, etc. are new. In Version 3.0, we are also trying to have a LIVE session (pre-scheduled) and have add-on lectures. All these will be informed. We would like to hear from you more so that we can continually improve.

Summary

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	8 weeks
Category :	◦ Multidisciplinary
Credit Points :	2
Level :	Undergraduate/Postgraduate
Start Date :	24 Jul 2023
End Date :	15 Sep 2023
Enrollment Ends :	07 Aug 2023
Exam Registration Ends :	21 Aug 2023
Exam Date :	24 Sep 2023 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_ge38%2Fpreview&title=Current%20Regulatory%20Requirements%20For%20Conducting%20Clinical%20Trials%20In%20India%20Course)


Course layout

Week 1 : Lecture 0: Course overview
Lecture 1: Overview of Indian drug regulatory system
Lecture 2: Overview of drugs & cosmetics Act and Rules thereunder






List of students of Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)



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 Accredited by 'NAAC'
 'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
 Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
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Prof. Dr. Gajanan R. Ekbote
 M.S., M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune


2023-24


Name of Course: NPTEL on Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)

Date: Jul-Sept 23
 Course Code: noc23-ge38
 Course Duration: 08 Week

List of Students

Sr. No	Name of Student	Sign
01	ALFIYA MAHIBUB BIRADAR	Alfiya
02	PATIL ANIMESH RAMKRUSHNA	Patil A.
03	ANJALI SUNIL GAIKWAD	Anjali
04	ARPITA VITTHAL YALSANGI	Arpita Yalsang
05	SHAIKH FIZA VAHED	Shaikh
06	HARSHALI DURGADAS DISHWARE	Harshali
07	JADHAV MOHINI BHARAT	Mohini Jadhav
08	SNEHAL HANAMANT KASTURE	Kasture
09	GANGURDE MADHURI ASHOK	Madhuri
10	PALLAVI	Pallavi
11	POOJA NANA SAWANT	Pooja
12	PRAJAKTA BAJRANG JAGTAP	Jagtap
13	VERNEKAR PURVA VIGHNESHWAR	Vernekar
14	RASIKA PRAKASH BABHULKAR	Rasika
15	SADHANA SANDEEP PAWAR	Sadman
16	GADHAVE TRUPTI BHAUSAHEB	Gadhave
17	TEMKAR MAYA UTTAM	Maya Temkar


 Course Co-ordinator
 Dr. A. R. Kumbhar


 Principal
 Dr. P. D. Chaudhari

Page 1 of 1



Curriculum of Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)

Lecture 3: Overview of New Drug and Clinical Trials, 2019



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

Week 2 : Lecture 4: Pre-clinical data requirements

Lecture 5: Rules governing clinical trials

About Swayam (<https://swayam.gov.in/about>) | All Courses |

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Lecture 6A: Phases of clinical trial, forms, and fees

Lecture 6B: Regulatory pathway and data requirements for NDCT, 2019

Week 3 : Lecture 7: BA/BE study and study centres: Legal provisions

Lecture 8: Guidelines to conduct BA/BE studies

Lecture 9: Ethics Committee registration and re-registration

Week 4 : Lecture 10: Ethical considerations

Lecture 11: Good Clinical Practice

Lecture 12A: Requirements for import/manufacture of new drug/IND for conducting clinical trials in India

Lecture 12B: Requirements for import/manufacture of new drug/IND for sale/distribution and unapproved new drug for patients

Week 5 : Lecture 13: Important issues

Lecture 14: Special concerns

Lecture 15: Clinical trial related guidelines (NDCT Rules)

Week 6 : Lecture 16: Content of proposed clinical trial protocol

Lecture 17: Content of a clinical trial report

Lecture 18: Post marketing assessment and clinical trial compensation

Week 7 : Lecture 19: Common observations during submission of CT/BA/BE protocol

Lecture 20: Common observations during CT/BA/BE centre inspections

Lecture 21: Drug development process: Overview

Week 8 : Lecture 22: Salient feature of NDCT 2019 (What's new in NDCT?)

Lecture 23A: Online submission (SUGAM)

Lecture 23B: Online submission (CTRI)

Lecture 24: Tables given in NDCT 2019 and its content

Books and references

1. Drugs & Cosmetics Act, 1940 and Rules thereunder 1945, New Drugs and Clinical Trial Rules, 2019, Related Guidance documents available at CDSCO website.

Instructor bio

1. Dr D. K. Sable, Deputy Drugs Controller (India), CDSCO HQ, New Delhi
2. Dr Rubina Bose, Deputy Drugs Controller (India), CDSCO, West Zone, Mumbai
3. Professor Y. K. Gupta, Principal Adviser DNDI; Former Dean (Academics), AIIMS, New Delhi, Former Adviser, CDSA-THSTI, DBT
4. Dr Nandini K. Kumar, Former Deputy Director General Sr. Grade, Indian Council of Medical Research (ICMR), Adjunct Faculty, CDSA, THSTI, DBT
5. Late Shri Arun Kumar B. Ramteke, Former Joint Drugs Controller (India), CDSCO; Consultant, Regulatory Affairs, CDSA, THSTI, DBT
6. Dr Sucheta Banerjee Kurundkar, Principal Scientist II Training, CDSA, THSTI, DBT
7. Dr M. Vishnu V. Rao, Former Scientist G & Director, ICMR – National Institute of Medical Statistics (NIMS); Administrator, Clinical Trial Registry - India (CTRI)
8. Dr Atul Juneja, Scientist E, ICMR-NIMS; Coordinator, CTRI
9. Dr Tulsi Adhikari, Scientist E, ICMR-NIMS; Coordinator, CTRI
10. Dr Mohua Maulik, Consultant, ICMR-NIMS

1) COURSE DEVELOPMENT TEAM :

1. Dr Sucheta Banerjee Kurundkar, Principal Scientist II Training, CDSA, THSTI, DBT
2. Late Shri Arun Kumar B. Ramteke, Former Joint Drugs Controller (India), CDSCO; Consultant, Regulatory Affairs, CDSA, THSTI, DBT
3. Professor Dr. Nitya Wadhwa, Senior Professor, THSTI and Faculty In-Charge, CDSA, THSTI, DBT
4. Professor Usha Menon, Adjunct Professor CDSA, THSTI, DBT, Professor MRC CTU at University College London

2) TEACHING ASSISTANCE :

1. Ms Vandana Chawla, Administrator Training, CDSA, THSTI, DBT





Summary of Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)

COURSE OBJECTIVES AND EXPECTED LEARNING OUTCOMES

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Course layout

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Attendance of Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

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Assessment of Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)



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 Principal

Prof. Dr. Gajanan R. Ekbote
 M.S., M.N.A.M.S.
 Chairman, Business Council
 P.E.Society, Pune

2023-24

Name of Course: NPTEL on Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)

Date: Jul-Sept 23


Course Code: noc23-ge38

Course Duration: 08 Week

List of Students

Sr. No	Name of Student	Examination %
01	ALFIYA MAHIBUB BIRADAR	72
02	PATIL ANIMESH RAMKRUSHNA	60
03	ANJALI SUNIL GAIKWAD	62
04	ARPITA VITTHAL YALSANGI	76
05	SHAIKH FIZA VAHED	62
06	HARSHALI DURGADAS DISHWARE	71
07	JADHAV MOHINI BHARAT	68
08	SNEHAL HANAMANT KASTURE	71
09	GANGURDE MADHURI ASHOK	56
10	PALLAVI	77
11	POOJA NANA SAWANT	72
12	PRAJAKTA BAJRANG JAGTAP	75
13	VERNEKAR PURVA VIGHNESHVAR	68
14	RASIKA PRAKASH BABHULKAR	72
15	SADHANA SANDEEP PAWAR	68
16	GADHAVE TRUPTI BHAUSAHEB	66
17	TEMKAR MAYA UTTAM	70


 Course Co-ordinator
 Dr. A. R. Kumbhar


 Principal
 Dr. P. D. Chaudhari



Certificate of Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
ALFIYA MAHIBUB BIRADAR
for successfully completing the course

Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)
with a consolidated score of **72** %

Online Assignments	21.25/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **596**

Devendra Jaliha
Prof. Devendra Jaliha
Chairperson,
Centre for Outreach and Digital Education, IITM

Jul-Sep 2023
(8 week course)

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

**Indian Institute of Technology Madras**

**swayam**
FREE ONLINE EDUCATION
Verify serial, single serial

Roll No: NPTEL23GE38S45051490 To verify the certificate  No. of credits recommended: 2 or 3



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
PATIL ANIMESH RAMKRUSHNA
for successfully completing the course

Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)
with a consolidated score of **60** %

Online Assignments	21.67/25	Proctored Exam	38.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **596**

Devendra Jaliha
Prof. Devendra Jaliha
Chairperson,
Centre for Outreach and Digital Education, IITM

Jul-Sep 2023
(8 week course)

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

**Indian Institute of Technology Madras**

**swayam**
FREE ONLINE EDUCATION
Verify serial, single serial

Roll No: NPTEL23GE38S45051546 To verify the certificate  No. of credits recommended: 2 or 3



Brochure of Health Research Fundamentals



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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Home (<https://swayam.gov.in>) > Courses (<https://swayam.gov.in/explorer>) >

Health Research Fundamentals

By Multi Faculty | National Institute of Epidemiology

Learners enrolled: 3575 | Exam registration: 1059

Health Research Fundamentals Intro latest



ABOUT THE COURSE :

ICMR - National Institute of Epidemiology is offering online programmes on conduct of human bio-medical research. The programme will be offered as NIE-ICMR e-Certificate – NleCer - Courses. The first in this series, NleCer 101:Health Research Fundamentals, is a basic level course in health research methods. It will explain the fundamental concepts in epidemiology and bio-statistics related to research methods. This course will provide an overview of steps and principles for designing bio-medical and health research studies among human participants. We expect this course to be useful for individuals interested in pursuing health research in the roles of study investigators, clinical/public health researchers (physicians, counselors, research associates, social scientists, nurses, pharmacists, technicians, data and quality managers etc.), scientists, ethics committee members and project managers.

INTENDED AUDIENCE : Any current or potential health researcher



List of students of Health Research Fundamentals

Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by 'NAAC' 'Best College Award' by Savitribai Phule Pune University		
Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi, Directorate of Technical Education, Mumbai (MS), Permanently affiliated to Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)		
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Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal		Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council P.E.Society, Pune
2023-24		
Name of Course: NPTEL on Health Research Fundamentals		
Date: Jul-Sep 2023		
Course Code: NOC23-HS93		Course Duration: 08 Week
List of Students		
Sr. No	Name of Student	Sign
01	MRUGAJA RAJENDRA YEOLE	MRYeole
Course Co-ordinator Dr. A. R. Kumbhar		Principal Dr. P. D. Chaudhari



Curriculum of Health Research Fundamentals

PRE-REQUISITES : Students in medical/dental/nursing/AYUSH streams Graduate in any discipline
(<https://swayam.gov.in/>) (https://swayam.gov.in/nc_details/NPTEL)

INSTITUTIONS SUPPORTING : Government/ private sector, public health service institutions/ agencies, Post graduate institutions in biomedical and allied sciences, Medical colleges/ Universities, NGOs engaged in health research, Clinical research organizations, Pharma companies and marketing research organizations

Summary

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	8 weeks
Category :	<ul style="list-style-type: none">Humanities and Social SciencesPsychology
Credit Points :	2
Level :	Undergraduate
Start Date :	24 Jul 2023
End Date :	15 Sep 2023
Enrollment Ends :	07 Aug 2023
Exam Registration Ends :	21 Aug 2023
Exam Date :	24 Sep 2023 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

([/#facebook](#)) ([/#x](#)) ([/#microsoft_teams](#)) ([/#linkedin](#)) ([/#whatsapp](#))

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc23_hs93%2Fpreview&title=Health%20Research%20Fundamentals%20-%20Course)

Course layout

Week 1: Conceptualizing a research study

Introduction to health research – Dr. Sanjay Mehendale

Formulating research question, hypothesis and objectives – Dr. P Manickam

Literature review – Dr. P Ganeshkumar



Week 2: Epidemiological considerations in designing a research study (1/2)

Measures of disease (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/NPTEL)

Descriptive study designs - Dr. Prabhdeep Kaur

Analytical study designs - Dr. Manoj Mehrotra (https://swayam.gov.in/about) | All Courses |

Week 3: Epidemiological considerations in designing a research study (2/2)

Experimental study designs: Clinical trials - Dr. Sanjay Mehendale

Validity of epidemiological studies - Dr. Tarun Bhatnagar

Qualitative research methods: An overview - Dr. Tarun Bhatnagar

Week 4: Bio-statistical considerations in designing a research study

Measurement of study variables - Dr. R Ramakrishnan

Sampling methods - Dr. R Ramakrishnan

Calculating sample size and power - Dr. R Ramakrishnan

Week 5: Planning a research study (1/2)

Selection of study population - Dr. P Ganeshkumar

Study plan and project management - Dr. Sanjay Mehendale

Designing data collection tools - Dr. Tarun Bhatnagar

Week 6: Planning a research study (2/2)

Principles of data collection - Dr. Prabhdeep Kaur

Data management - Dr. P Manickam

Overview of data analysis - Dr. P Manickam

Week 7: Conducting a research study

Ethical framework for health research - Dr. Sanjay Mehendale

Conducting clinical trials - Dr. Sanjay Mehendale

Week 8: Writing a research protocol

Preparing a concept paper for research projects - Dr. P Manickam

Elements of a protocol for research studies - Dr. Tarun Bhatnagar

Publication ethics - Dr. Sirshendu Chaudhuri

Manuscript writing - Dr. Jayashree K

Grant proposal writing - Dr. S.A. Rizwan

Books and references

Reading materials will be available for each topic

Instructor bio



Multi Faculty

National Institute Of Epidemiology

Dr. Sanjay Mehendale, MD, MPH, FAMS, FIMSA, FACE

Ex - Additional Director General, ICMR



Summary of Health Research Fundamentals

PRE-REQUISITES : Students in medical/dental/nursing/AYUSH streams Graduate in any discipline
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INSTITUTIONS SUPPORTED : Government/ private sector, public health service institutions/ agencies, Post graduate institutions in biomedical and allied sciences, Medical colleges/ Universities, NGOs engaged in health research, Clinical research organizations, Pharma companies and marketing research organizations
 About Swayam (https://swayam.gov.in/about) All Courses

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Attendance of Health Research Fundamentals

National Programme on Technology Enhanced Learning (NPTEL)

The National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003.

The Online Education which was started with NPTEL for Technology Courses has now been broadened to include all other disciplines such as Humanities, Social Sciences and Management in the indigenous online platform SWAYAM.

NPTEL has become a part of SWAYAM, all the NPTEL Local Chapters have been re-designated as **SWAYAM - NPTEL Local Chapter**.

Anytime Anywhere Learning

Massive Open Online Courses (MOOC) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self-assessment in regular intervals during learning.

The enrolment to and learning from these courses involves no cost.

Following these online courses, an in-person, proctored certification exam is conducted across 100+ cities within India and a certificate is provided through the participating institutions and industry, when applicable.

As it is MOOC type of course conducted by Government body open to all and attended by enrolled candidate from any where and anytime.





Assessment of Health Research Fundamentals



Progressive Education Society's
MODERN COLLEGE OF PHARMACY
Accredited by 'NAAC'
'Best College Award' by Savitribai Phule Pune University



Approved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New Delhi,
Directorate of Technical Education, Mumbai (MS), Permanently affiliated to
Savitribai Phule Pune University, Pune & Approved under Section (2 (f) & 12 (B) of UGC Act, 1956)

Sector No. 21, Yamunanagar, Nigdi, Pune - 411 044. (M.S.) Tel. : 020-27661315 Fax : 020-27661314

E-mail : mcpnigdi44@gmail.com Website : www.mcop.org.in

Prof. Dr. P. D. Chaudhari
M.Pharm., Ph.D.
Principal

Prof. Dr. Gajanan R. Ekbote
M.S., M.N.A.M.S.
Chairman, Business Council
P.E.Society, Pune

2023-24

Name of Course: NPTEL on Enhancing Soft Skills and Personality

Date: Feb-Apr 2024

Course Code: noc24-ge21

Course Duration: 8 Week

List of Students

Sr. No	Name of Student	Examination %
1	ANIKET SHIVAJI ULMULE	65

Course Co-ordinator
Dr. A. R. Kumbhar

Principal
Dr. P. D. Chaudhari



Certificate of Health Research Fundamentals



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ANIKET SHIVAJI ULMULE

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **65** %

Online Assignments	19.5/25	Proctored Exam	45.75/75
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Total number of candidates certified in this course: **12566**

Patish

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2024

(8 week course)

Satyaki

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS26S465202252

To verify the certificate



No. of credits recommended: 2 or 3